

ENDOWMENT OF THE AMERICAN MUSEUM



THE N.Y. ACADEMY
OF MEDICINE

JUL 30 1930

LIBRARY

"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."

SIXTY-FIRST
ANNUAL REPORT OF THE TRUSTEES FOR
THE YEAR 1929 : : THE AMERICAN
MUSEUM OF NATURAL HISTORY
MAY 1, 1930

SERIAL SCIENTIFIC PUBLICATIONS

BULLETIN of The American Museum:

Volumes I-LIX, 1881-1929. 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-XXXI, 1906-1929. 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.-\$5.00 a part.

AMERICAN MUSEUM NOVITATES:

Nos. 1-395, 1921-1929. 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-XXIX, 1900-1929. 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.

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.

(Publications continued on third page of cover)



PERCY RIVINGTON PYNE
Trustee, 1900-1929
Secretary, 1921-1929

ENDOWMENT OF THE AMERICAN MUSEUM



"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."

SIXTY-FIRST ANNUAL REPORT OF THE TRUSTEES FOR THE YEAR 1929 : : THE AMERICAN MUSEUM OF NATURAL HISTORY

THE CITY OF NEW YORK

Issued May 1, 1930



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 1929, 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	JOSEPH H. CHOATE	WILLIAM T. BLODGETT
ROBERT COLGATE	BENJAMIN B. SHERMAN	MORRIS K. JESUP
BENJAMIN H. FIELD	WILLIAM A. HAINES	D. JACKSON STEWARD
ROBERT L. STUART	THEODORE ROOSEVELT	J. PIERPONT MORGAN
ADRIAN ISELIN	HOWARD POTTER	A. G. PHELPS DODGE
CHARLES A. DANA		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).

1929 Appropriation of \$3,550,000 by the City of New York for construction of African Hall, Power Plant and Service Building, and South Oceanic Wing.

Contribution of \$750,000 by Harry Payne Whitney for one-half cost of South Oceanic Wing.

PERMANENT ENDOWMENT

The Endowment Fund was established in 1884. It now amounts to \$13,860,000.80 (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 \$10,000,000 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 Acts of 1926 and 1928.

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 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 *Guide 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, 1884-1929

In Amounts of \$10,000 and Upwards to \$1,461,477.88

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
1904-1929	Pyne, Percy R.....	27,500.00
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
1920-1929	Sage, Margaret Olivia (Mrs. Russell).....	1,461,477.88
1921	Combe, Louisa (Mrs. William).....	42,172.33
1921-1929	Rhineland, Charles E.....	22,669.25
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
1926-1928	Fosdick, Wood.....	995,984.88
1927	Cook, Frances Julia (Mrs. Robert H.).....	20,000.00
1928	Harkness, Anna M. (Mrs. Stephen V.).....	1,000,000.00
1929	Baker, George F., Jr.....	250,000.00
1929	Rich, M. P.....	10,000.00
1929	Sellew, Caroline B.....	65,000.00
1884-1929	62 contributors less than \$10,000.....	139,033.07
1890-1926	Patronship Fees.....	23,000.00
1890-1926	Fellowship Fees.....	9,000.00
1912-1926	Life Membership Fees.....	81,100.00
		<hr/> \$7,011,966.34

ENDOWMENT FOR SPECIAL PURPOSES, 1890-1929

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
1927	Osborn, Henry Fairfield: <i>Osborn Paleontologic Research Fund</i>	5,000.00
1926-1928	65 contributors: <i>Ralph Winfred Tower Memorial Fund</i>	24,032.00
1929	Dean, Bashford: <i>Bashford Dean Ichthyological Library Fund</i>	5,000.00
	Total Endowment December 31, 1929.....	\$13,558,185.84

CASH GIFTS EXCLUSIVE OF ENDOWMENT, 1869-1929

Gifts \$10,000 and Upward to \$326,271.75

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	Mills, 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
1891-1929	Osborn, Henry Fairfield.....	69,795.06
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
	Carried forward.....	\$1,063,730.01

CASH GIFTS EXCLUSIVE OF ENDOWMENT, 1869-1929
(Continued)

	Brought forward.....	\$1,063,730.01
1901-1913	Bowdoin, Geo. S.....	28,350.00
1901-1928	Huntington, Archer M.....	98,008.94
1901-1929	James, Arthur Curtiss.....	92,400.00
1901-1929	Pyne, Percy R. (No. 2).....	95,343.79
1902-1912	Jesup, Maria DeWitt (Mrs. Morris K.).....	83,466.52
1904-1926	Dodge, Cleveland H.....	113,180.26
1907-1929	Morgan, J. P., Jr.....	322,167.47
1908-1929	Iselin, Adrian, Jr.....	27,600.00
1908-1925	Trevor, John B. (No. 2).....	20,145.06
1910-1919	Douglas, James.....	110,500.00
1910-1929	Mills, Ogden.....	169,824.65
1910-1929	Warburg, Felix M.....	143,350.00
1911-1922	Cuyler, Thomas DeWitt.....	14,750.00
1911-1926	James, Walter B.....	11,522.54
1913-1929	Brewster, Frederick F.....	43,342.59
1913-1928	University of Illinois.....	11,500.00
1914-1929	Baker, George F.....	161,200.00
1914-1918	Frick, H. C.....	16,875.00
1915-1928	Dean, Bashford.....	16,224.05
1915-1927	Ford, James B.....	12,951.00
1915-1929	Frick, Childs.....	163,768.83
1916-1924	Davison, Henry P.....	20,500.00
1920-1926	Douglas, Walter.....	10,395.06
1920-1929	Frick, Adelaide (Mrs. H. C.).....	42,000.00
1920-1929	Whitney, H. P.....	185,000.00
1921-1926	American Asiatic Association and Asia.....	30,000.00
1921-1929	Baker, George F., Jr.....	316,000.00
1921-1929	Rockefeller, John D., Jr.....	77,500.00
1922-1929	Naumburg, Mrs. Elsie M. B.....	11,619.75
1922-1929	Pomeroy, Daniel E.....	41,662.22
1922-1928	Pratt, George D.....	25,787.65
1923-1929	Vernay, Arthur S.....	37,503.00
1924-1928	Field Museum of Natural History.....	20,000.00
1925-1929	Carnegie Corporation of New York.....	76,213.00
1925-1929	Hay, Clarence L.....	16,208.22
1925-1929	Morgan, Junius Spencer, Jr.....	17,700.00
1925-1927	Sage, H. W.....	23,500.00
1925-1928	Taylor, Irving K.....	16,539.41
1926-1929	Bowdoin, George T.....	11,550.00
1926	Burden, Mr. and Mrs. James A.....	10,000.00
1926	Eastman, George.....	100,000.00
1926-1929	Jennings, Oliver G.....	13,900.00
1926	Williams, Harrison.....	10,000.00
1927-1929	Dodge Foundation, Inc., Cleveland H.....	15,000.00
1927	Stone, Julius F.....	10,000.00
1927	Wentz, Daniel B.....	25,000.00
1927	Cook, Frances Julia.....	20,000.00
1928-1929	Archbold, John F.....	25,000.00
1928	Carlisle, G. Lister, Jr.....	25,000.00
1928	Carlisle, Leila Laughlin (Mrs. G. Lister, Jr.).....	25,000.00
1928-1929	Tyler, George F.....	13,711.71
1929	Graves, George Coe, 2nd.....	15,000.00
1929	Sanford, John.....	25,000.00
	Total cash gifts \$10,000 and upward, 1869-1929....	\$4,132,490.73

CORRESPONDING FOREIGN MEMBERSHIP*

*Through honorary election, for five-year periods, on recommendation
of the Scientific Staff*

(Limited to 25)

- | | |
|--|--|
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of Tübingen, Germany |
| | ‡PROFESSOR MAX WEBER,
Eerbeek, Holland |

*Elected March 21, 1928, for the period 1928-1933.

†Deceased Oct. 25, 1929

‡Elected May 2, 1927, for the period 1927-1932.

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
WOODCRAFT LEAGUE OF AMERICA.....	1902
HISPANIC SOCIETY OF AMERICA (ART AND ARCHÆOLOGICAL COLLECTIONS.).....	1904
SCHOOL GARDEN ASSOCIATION OF NEW YORK.....	1908
BOY SCOUTS OF AMERICA.....	1910
GIRL SCOUTS.....	1912
CAMP FIRE GIRLS.....	1912
NEW YORK BIRD AND TREE CLUB.....	1913
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THE YEAR 1929**

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Special Advisers in Preparation

JAMES L. CLARK, *Assistant Director, in Charge*

MESSRS. WHITLOCK (Minerals); OSBORN (Geology); MINER (Invertebrates); LUTZ (Insects); GREGORY (Fishes); NOBLE (Reptiles and Amphibians); CHAPMAN (Birds); ANTHONY (Mammals); GREGORY (Comparative Anatomy); WISSLER (Anthropology); ANDREWS (Asiatic Mammals); SHERWOOD (Public Education); WINSLOW (Public Health).

To the Members of The American Museum of Natural History:

The FIRST ANNUAL REPORT of The American Museum of Natural History of the year 1869 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 Creative 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.

BUILDING THE AMERICAN MUSEUM, 1869-1927, report of 1927, issued in 1928.

THE SIXTIETH ANNIVERSARY ENDOWMENT, report of 1928, issued in 1929.

ENDOWMENT OF THE AMERICAN MUSEUM, report of 1929, issued in 1930.

Standard bound copies of these annual contributions to Education are issued to 400 Educational Institutions, Libraries, and Museums, and to Members of the Museum. They include acknowledgment of all gifts and services to the Museum of the previous year. Additional copies will be sent on application addressed to the *Secretary of the Museum*.

ENDOWMENT OF THE AMERICAN MUSEUM

BY PRESIDENT HENRY FAIRFIELD OSBORN

All wealth and all health come from a knowledge of nature. The American Museum of Natural History is now advancing the knowledge of Nature and the inspiration of Nature on a scale unknown before in the whole history of education and of civilization. Not only for what it may do in the future but for what it is now doing in Exploration, Research and Education, the American Museum is conducting a nation-wide campaign for adequate Endowment to enable all departments of the Museum to take full advantage of the wonderful gifts which are coming to us from every part of the world. These gifts leave no field of Nature untouched. Through the unrivaled facilities of our Department of Education we desire to extend this knowledge not only all over our country but all over the world. The scientific literature from the American Museum press is distributed gratuitously through all national and foreign institutions of learning. The popular scientific volumes by members of our staff based on American Museum researches and explorations are being translated into the French, German, Swedish, Danish, Italian, Russian and Japanese languages. By these scientific and popular publications the American Museum has become a household word throughout the world as well as a highly honored member of the pure science fraternity of learned societies, universities and academies. For our City-wide, State-wide, Nation-wide and World-wide work, we need a larger Endowment.—HENRY FAIRFIELD OSBORN.

THE SIXTIETH ANNIVERSARY ENDOWMENT FUND is a more immediate necessity than we had anticipated a year ago.* Our explorations, our researches, our expeditions, our publications, our educational work in school, college, and university, our library, are suffering for want of adequate financial support to overcome the doubling or trebling of all costs since the fatal year 1914.

SERIOUS LIMITATIONS IN THE REVISED BUDGET OF \$1,325,024.23 FOR 1930

The revised budget of 1930, rendered possible through the generosity and deep interest and loyalty of Trustees Warburg, Baker, Morgan, Pomeroy, and others, is a *minimum working budget*, which, as in the past year, 1929, will be carried through without incurring one dollar of additional deficiency. It seems ungracious to say so at this moment of generosity, but every member of our Board of Trustees should clearly

*The Sixtieth Anniversary Endowment of the American Museum. Sixtieth Annual Report of the Trustees for the year 1928. Issued May 1, 1929.

understand that besides the situation in the Woods and Forestry Department and the Department of Anthropology mentioned below, the Department of Public Health is entirely suspended; the Library is very seriously crippled; were it not for Mr. Frick's gifts, the Department of Vertebrate Palæontology would have to stop its expeditionary work; other departments, like Geology and Geography and Invertebrate Palæontology, are operating at one half their former rate; although under the very able leadership of Dr. Lutz, Entomology is short-handed, and in practically all the exhibition halls of the Museum, the work of completing our educational equipment has stopped. We have no funds for the continuation of the beautiful murals by Charles R. Knight, while a citizen of Chicago is presenting a liberal sum for Knight's work in the Field Museum. We have no funds for the murals of the Morgan Hall of Minerals. We have no funds for the new Jurassic Dinosaur Hall, or for the purchase of a superb dinosaur offered to us at a total cost of \$14,400, of which \$2,500 is immediately needed. The Jesup Fund, which for many years was used for opportune purchases, is entirely absorbed, leaving no leeway excepting from the hardly pressed inadequate reserve.

The two departments in which our late President Jesup was deeply interested, namely, Woods and Forestry, and Anthropology in all its branches, are restricted severely by retrenchment, by the death or loss of able specialists; they are undermanned, losing in prestige and leadership. Among the first uses of the new *Sixtieth Anniversary Endowment Fund* is our plan to release sufficient money from the Jesup Fund to restore the Department of Anthropology to its former great prestige, and to complete Mr. Jesup's gift of the Woods and Forestry Exhibition Hall which has been practically stationary for the last fifteen years. The Department of Anthropology was especially founded and endowed by President Jesup.

Of Mr. and Mrs. Jesup's total bequests of \$6,225,000, restricted by Mr. Jesup's will to purely scientific and educational purposes, including exploration, exhibition and research, during the past year, 1929, the income and cash on hand (January 1) were expended as follows:

Scientific Research in all departments,	\$177,904.22
Printing and Publishing for all departments. . .	29,244.91
Preparation and Exhibition in all departments	83,743.07
<hr/>	
Total Disbursements from Jesup Fund Income for 1929.	\$290,892.20

I am confident that this deeply regrettable stringency, which is holding us back internally while outwardly we are prospering, will soon be overcome. I am confident that the present plans and determination of the Trustees to complete this *Sixtieth Anniversary Endowment Fund* will be effective. I am confident that great contributions will be made by the General Education Board and similar educational bodies as soon as our Trustees get this movement under way.

Our present total endowment, of March 10th, 1930, including all recent gifts or bequests, is \$13,982,457.95, yielding an actual estimated income of approximately \$693,812.82. Despite the very numerous cuts in our expenditures, this leaves an inevitable annual deficiency. The estimates of annual disbursements needed to put the American Museum back on its normal running basis are divided under eight heads as follows:

NEW STANDARD ANNUAL INCOME NEEDED

<i>Research:</i> For <i>permanent</i> support of exploration, research and publication now largely dependent on special gifts.	\$100,000
<i>Books:</i> For the purchase of books new and old for the Library. Books are essential tools for carrying on all researches.	15,000
<i>Salaries:</i> For additional assistants for curators and other highly trained productive research workers so that more of their time may be given to research and publication.	50,000
For raising the standard of all staff salaries to university and college grades, making them commensurate with the training, skill and ability of the scientific workers.	100,000
<i>Exhibition Halls:</i> For the proper educational equipment and modernizing of the fifty old and new exhibition halls completed or under construction in the near future.	25,000

<i>Education:</i> For intensive high school, college and university education in the laboratories and exhibition halls of the Museum and for the extension of service to the secondary schools.....	50,000
<i>Exhibitions:</i> For the preparation of existing exhibitions and collections to render the highest educational service to students and to the visiting public.....	75,000
<i>Reserve:</i> Reserved for the development of future plans in connection with the addition of four new building sections to the institution.....	85,000
	<u>\$500,000</u>

The chief accomplishment of the financial administration of the past twenty years since the President took office has been to arouse nation-wide and world-wide interest in the Museum, to shift the main financial burden from the shoulders of the Trustees on which it solely rested up to the year 1908, and to enlist outside benefactions, bequests and gifts to expeditions and explorations. The outside support of the Museum has grown by leaps and bounds, so that it now exceeds even the most generous gifts and annual contributions of our Trustees. The twenty-two year figures, since the President took office, not including the very large contributions by our Trustees, are as follows:

Total outside gifts to Endowment.....	\$5,748,656.69
Total outside gifts to Explorations, Expeditions and Museum Collections.....	<u>1,408,021.34</u>
Total outside gifts to Endowment, Explorations and Collections.....	\$7,156,678.03

The greater number of these gifts have come entirely without solicitation or suggestion. This is most gratifying because it shows the strongly increasing hold which the Museum is taking on the public imagination in all parts of our country. The Trustees can hardly find words to express their appreciation of these gifts and bequests, including those which have come to the Museum by bequest during the past five years in an unexpected and gratifying manner, namely:

**FIVE-YEAR GIFTS AND BEQUESTS OF \$10,000 AND UPWARDS
TO THE PERMANENT ENDOWMENT FUND**

of the
AMERICAN MUSEUM OF NATURAL HISTORY

1925-1929 inclusive

Bequest of William Sloane.....	\$25,000.00	
“ “ Emily A. Watson.....	10,010.52	
“ “ Arabella D. Huntington...	50,000.00	
“ “ J. Kennedy Tod.....	10,000.00	
“ “ Margaret Olivia Sage.....	122,161.59	
“ “ Frances Julia Cook.....	20,000.00	
“ “ Wood Fosdick.....	995,984.88	
“ “ Charles E. Rhinelanders...	12,190.92	
“ “ Anna M. Harkness.....	1,000,000.00	
“ “ M. P. Rich.....	10,000.00	
“ “ Caroline B. Sellew.....	65,000.00	
“ “ Percy R. Pyne.....	25,000.00	
Ralph Winfred Tower Memorial Fund		
Subscriptions.....	24,032.00	\$2,369,379.91

FIVE-YEAR CONTRIBUTIONS OF \$10,000 AND UPWARDS

*For Special Work of the Museum, including field work, purchase of specimens,
preparation of exhibits, and for scientific publications and educational work*

1925-1929 inclusive

John F. Archbold.....	\$25,000.00	
George F. Baker.....	25,100.00	
Mr. and Mrs. James A. Burden.....	10,000.00	
Mr. and Mrs. G. Lister Carlisle.....	50,000.00	
Carnegie Corporation of New York.....	76,213.00	
Cleveland H. Dodge Foundation Fund....	25,000.00	
George Eastman, of Rochester.....	100,000.00	
Mrs. Adelaide H. C. Frick.....	22,000.00	
Childs Frick.....	12,275.00	
Field Museum of Natural History.....	15,000.00	
George Coe Graves, 2nd.....	15,000.00	
Clarence L. Hay.....	10,713.16	
Ogden Mills.....	18,200.00	
J. P. Morgan.....	37,834.01	
Daniel E. Pomeroy.....	40,562.22	
Percy R. Pyne.....	27,200.00	
John D. Rockefeller, Jr.....	42,500.00	
Henry W. Sage.....	20,773.21	
John Sanford.....	25,000.00	
Julius F. Stone.....	10,000.00	
Irving K. Taylor.....	16,539.41	
Arthur S. Vernay.....	35,418.00	
Estate of Daniel B. Wentz.....	25,000.00	
Harry Payne Whitney.....	100,000.00	
Harrison Williams.....	10,000.00	\$795,328.01

December 31, 1929

TWENTY-TWO YEAR FINANCIAL GROWTH OF THE AMERICAN MUSEUM OF NATURAL HISTORY

Income 1908-1929
(Other than Endowment and Corporate Stock)

	Income from Endowment	Contributions			Total	Sale of Publications etc.	Other Income	City of New York	Grand Total Income
		Contributions of Trustees	Contributions of Members	Contributions of Trustees and Members					
1908	49,905.00	31,142.63	36,700.40	67,843.03	18,325.00	1,776.58	1,261.31	159,930.62	299,041.54
1909	99,851.25	31,700.00	32,818.73	64,518.73	25,745.00	2,056.09	4,657.80	179,999.60	376,828.47
1910	92,832.52	50,225.00	13,408.33	63,633.33	23,215.00	3,887.25	5,649.41	185,757.00	374,974.51
1911	107,050.63	60,314.39	23,991.39	84,305.78	24,000.00	1,857.90	2,724.23	189,757.00	409,695.54
1912	108,239.72	91,975.00	33,144.25	125,119.25	25,265.00	3,714.58	3,071.31	195,000.00	460,409.86
1913	109,935.95	75,186.85	22,893.12	98,079.97	26,535.00	7,313.58	2,466.91	200,000.00	444,331.41
1914	107,860.79	62,993.75	7,964.50	70,958.25	27,220.00	5,287.79	2,599.67	200,000.00	413,926.50
1915	174,586.29	56,500.00	16,350.00	72,850.00	28,690.00	3,814.77	6,312.30	200,000.00	486,253.36
1916	238,762.95	165,027.50	11,497.73	177,125.23	29,344.00	4,698.62	8,716.04	212,999.00	671,645.84
1917	325,968.92	73,508.94	2,515.00	76,023.94	32,084.00	5,309.57	8,713.16	212,700.00	660,799.59
1918	334,993.73	53,350.00	2,350.00	55,700.00	30,508.00	8,967.29	8,180.71	225,000.00	663,349.73
1919	332,520.49	23,350.00	8,005.97	31,355.97	37,665.00	12,798.36	9,630.19	200,000.00	623,970.01
1920	416,612.13	48,650.00	27,964.17	76,614.17	36,326.00	11,639.14	15,612.43	310,983.13	867,787.00
1921	385,130.21	155,724.48	50,585.28	206,309.76	39,619.00	12,561.35	23,891.43	351,547.46	1,019,059.21
1922	450,512.12	90,050.00	55,598.61	145,648.61	43,235.00	10,361.99	37,053.70	344,498.77	1,031,310.19
1923	495,949.35	60,850.78	49,181.00	110,031.78	47,316.00	11,812.53	36,325.13	342,313.36	1,043,748.15
1924	521,560.32	121,533.96	102,130.78	223,664.74	48,095.50	13,946.87	33,420.42	342,320.28	1,183,008.13
1925	497,242.31	123,195.08	90,250.82	213,445.90	53,058.00	14,961.56	35,686.27	350,940.96	1,165,335.00
1926	577,530.06	124,750.00	248,787.03	373,537.03	55,296.00	16,447.74	48,286.62	368,547.22	1,439,644.67
1927	581,645.61	108,264.26	182,950.17	291,214.43	70,036.00	15,023.01	47,056.90	410,121.29	1,415,097.24
1928	634,972.80	166,029.44	194,530.24	360,559.68	75,851.00	17,981.70	25,753.82	452,374.12	1,567,493.12
1929	677,546.45	166,066.41	194,403.82	360,470.23	80,707.00	18,776.76	23,930.62	466,173.45	1,627,604.51
	<u>7,321,209.60</u>	<u>1,940,988.47</u>	<u>1,408,021.34</u>	<u>3,349,009.81</u>	<u>878,135.50</u>	<u>204,995.03</u>	<u>391,000.38</u>	<u>6,100,963.26</u>	<u>18,245,313.58</u>

FIVE-YEAR GIFTS FOR BUILDING, BY CITY AND STATE

It now appears probable that by the end of the year 1932, four great new building sections will be completed which will create new and still larger demands both upon our Endowment and upon the funds voted by the Board of Estimate and Apportionment for city maintenance. These buildings are:

	<i>Estimated Cost of Erection</i>
The <i>Power and Service Building</i> , Section 17.	\$1,400,000.00
The <i>African Wing</i> , Section 13, containing four new exhibition halls and laboratories above.	1,450,000.00
The <i>South Oceanic Wing</i> , Section 19, containing four new exhibition halls, including the Whitney Memorial Hall of Birds and laboratories above.	1,500,000.00
The <i>Theodore Roosevelt Memorial</i> , Section 12, containing one exhibition hall and twelve halls devoted to education.	3,500,000.00
	<hr/>
	\$7,850,000.00
The Total Five-Year Gifts to All Purposes.	
Endowment.	\$2,369,379.91
Explorations and Collections.	795,328.01
Building.	7,850,000.00
	<hr/>
	\$11,014,707.92

The *Sixtieth Anniversary Endowment Fund* will have to take care of these new exhibition halls and new collections in their curatorial, scientific, exhibitional and educational aspects, with corresponding increase in our curatorial and assistant force. For this reason, our Treasurer, Mr. James H. Perkins, is averse to placing a definite limit on the amount of new endowment which we shall need within the next five years.

BLUE RIBBONS OF THE YEAR 1929*

The American Museum is blessed with a united, determined, energetic and generous Board of Trustees who are proving themselves worthy successors of the great Founders of the Institution, of the year 1869.

During the past two years, 1928-1929, we are first of all indebted to our official City Trustees: to Walter R. Herrick, Commissioner of Parks; to Charles W. Berry, Comptroller of the City of New York; to James J. Walker, Mayor of the City of New York; also to Joseph V. McKee, President of the Board of Aldermen, and special adviser of the Board of Estimate and Apportionment in the matter of appropriations for museums and similar educational institutions. Without the united interest and hearty coöperation of these official Trustees, it would have been impossible to carry through the Board of Estimate the large appropriations necessary for the Construction of the *Power and Service*, the *African*, and the *South Oceanic* sections. In a most handsome manner the City also met the unprecedented gift of \$750,000 by Mr. Harry Payne Whitney with a similar contribution of \$750,000 adequate for the construction of the South Oceanic Section, including the Whitney Hall of Birds, to be devoted entirely to our great collections of birds, and to include the William C. Whitney Memorial Hall. Acting again with the approval of these same officers and the City Government, the annual maintenance appropriation for the year 1930 has been advanced to \$465,144.66.

The individual work of members of our Board in various departments has also been active and generous. Reference should be made especially to the work of Mr. Felix M. Warburg in the Department of Education, and particularly as Chairman of the Pension Board and Welfare Committee; of Mr. Clarence L. Hay in the Department of Mexican Archæology; of Dr. A. Hamilton Rice in the Department of Geology in producing a splendid series of world maps; of Mr. Madison Grant for his advice on conservation ques-

*THE AMERICAN MUSEUM OUTLOOK. Address of the President at the Sixty-first Annual Meeting of the Board of Trustees, January 6th, 1930, privately printed.

tions; of Mr. George D. Pratt in education and conservation; of Messrs. Junius S. Morgan, Jr., and George T. Bowdoin in advancing the Hall of Ocean Life; and of Mr. James H. Perkins in conserving and developing the permanent finances of the Museum.

Also for exceptional services to the Museum during our sixtieth year, the blue ribbon and united thanks of the Trustees should be awarded to the following persons: to Mr. Cleveland E. Dodge, for his able chairmanship of the Executive Committee at great personal sacrifice; to Mr. Daniel E. Pomeroy, for his promotion of the African Hall, and especially for the national and international service he is rendering in raising the film and moving picture standards in this country and inaugurating highly educational and attractive series of nature film epics whereby the explorers and scientists who are gathered in and around the American Museum may address millions instead of thousands of people in the new and old worlds; to Dr. Leonard C. Sanford, for the indomitable energy and persistence he has shown ever since he became a member of our Board in building up our Department of Birds to a leading rank in the world, and enlisting the interest and princely gift of Mr. Harry Payne Whitney in donating the Whitney Hall of Birds; to Mr. Childs Frick the blue ribbon of Vertebrate Palæontology is due for his intelligent, munificent and absolutely unremitting devotion to the great geologic period of American prehistory which is least known, namely, to the Pliocene or final stages of Tertiary time; thanks to him and to the Asiatic fossil expeditions supported by Mrs. Henry Clay Frick, the Museum now contains the finest Pliocene collections in the entire world, to which some day a new exhibition hall should be devoted. We are indebted to Mr. Arthur S. Vernay and the late Colonel J. C. Faunthorpe, for the eighth year of travel in various parts of the East in the interest of the South Asiatic Hall, which will open November 17, 1930; to Mr. William J. Morden, for his four years of devotion to the North Asiatic Hall, for his most generous gifts, for field service under most difficult and hazardous conditions in which he has twice nearly sacrificed his life; to Dr. George H. Sherwood, Mr. Frederick H. Smyth, and Mr. George N.

Pindar, for the priceless service they have rendered, in co-operation with the President, to the cause of education and the advancement of science in the arduous ten-year campaign in City and State for the construction of the Power and Service Building, the African Hall, the Whitney Hall of Birds, and the Roosevelt Memorial. All of these blue ribbons of the year 1929 represent arduous days, sleepless nights, self-denial in declining attractive engagements of every kind, unflinching purpose to maintain our financial integrity, to firmly extend our character, reputation, educational and scientific standing, and to constantly increase the scope and attractiveness of our Museum.

SUMMARY OF THIRTY FIELD EXPEDITIONS OF THE YEAR 1929

On the bright side of the picture are the thirty field expeditions of the American Museum, supported not by Jesup funds as in former years, but by outside gifts and contributions amounting all together to \$282,809.68.

Prominent among these is the Madagascar Expedition for birds and mammals, financed by Mr. John F. Archbold,* arranged in coöperation with M. Jean Delacour of the Museum of Natural History of Paris, and Mr. Percy R. Lowe of the British Museum of London, with the hospitality of the French Government in Madagascar. This expedition was partly under the leadership of Mr. Richard Archbold. The Harry Payne Whitney Expeditions to the South Pacific are now in their tenth year, under the leadership formerly of Mr. Rollo H. Beck and recently of Mr. Hannibal Hamlin. These expeditions, supplemented by the recent New Guinea Expedition led by Mr. Rollo H. Beck and financed anonymously, and the expedition to the Gulf of Guinea by Mr. José G. Correia, financed by Mr. S. Brinckerhoff Thorne, together with the Brewster-Sanford Expedition (1913-1916), will furnish material which will completely fill the storage rooms of the new Whitney Bird Wing and the beautiful new Whitney Memorial Hall. In fact, each one of the new buildings erected wholly or partly by the City of New York will be filled by collections, we hope, in the autumn of 1932.

Among other expeditions of the year 1929 are the following:

FOR VERTEBRATE FOSSILS:

In the formation of his great Pliocene collections, Mr. Childs Frick has sent important paleontological expeditions to Alaska, Nebraska, Texas and New Mexico, and has secured rich fossil remains of horses, rhinoceroses, long-symphysized mastodons, antelopes and camels. The material secured will afford an opportunity for preparing striking groups in the Hall of Fossil

*Deceased January 6, 1930.

Mammals. The Department of Vertebrate Palæontology has fortunately been able to arrange for short expeditions in connection with other institutions into Utah, and through the interest of friends of the Museum, Dr. G. G. Simpson was able to obtain valuable collections from New Mexico, including a nearly complete skeleton of a rare crocodile.

REPTILES AND AMPHIBIANS:

Heilprin Florida Expedition. Under the Angelo Heilprin Exploring Fund, established by Mr. and Mrs. Paul J. Sachs, the Department of Herpetology sent Mr. William G. Hassler to northern Florida to work out the life histories of two rare amphibians, also to collect material for experimental investigation.

The Heilprin Expedition to Santo Domingo. Mr. Hassler spent four months in the field collecting reptiles and amphibians, and using the new infiltration process for preserving animals which has recently been developed in the Department of Herpetology and Experimental Biology. Materials for three grouplets were obtained, including the eggs of the largest gecko in the New World, found for the first time. More than 10,000 amphibians and reptiles were brought back, as well as birds, mammals, and some pottery.

MAMMALS AND BIRDS:

The Tyler Duida Expedition. This expedition to the unexplored mountain area at the head of the River Orinoco was supported by Mr. Sidney F. Tyler, Jr., and the Jesup Fund. It was under the leadership of Mr. G. H. H. Tate and returned in May, 1929, after ten months' absence. Mount Duida was ascended for the first time, and large collections, representing both the fauna and the flora, throw much light on the relation of this little-known region to other parts of the continent. The collection of 6,748 birds is the largest ever brought back to the Museum by a single expedition.

Naumburg Brazilian Expedition. Through the generosity of Mrs. Walter W. Naumburg, Mr. Emil Kaempfer continued collecting birds in Brazil.

The Rockefeller-Murphy Expedition. Messrs. J. Sterling Rockefeller and Mr. C. B. G. Murphy went to Lake Tanganyika to collect birds and mammals. Assisted by Mr. Allan L. Moses, they conducted an ornithological survey of the Marungu region, southwest of Lake Tanganyika in Africa. Their collections contain many rare and interesting species, including several birds not hitherto reported from the Belgian Congo. They have since traveled northward to the Ruzizi Valley, and have descended the Congo River from Kindu. The fauna of the southeast corner of the Congo Forest has hitherto received little attention from naturalists.

The Straus African Expedition. The generosity of Mrs. Oscar Straus and Mr. Edward Schafer enabled the Museum to send Mr. Rudyerd Boulton to collect birds in Uganda and Kenya Colony, followed by four months' field work in Nyasaland, from which region the Museum previously had no collections.

The Sanford-Legendre Abyssinian Expedition. This expedition was financed by Miss Gertrude Sanford and the Messrs. Morris and Sidney Legendre and was successful in obtaining a series of nyala (*Tragelaphus buxtoni*) for a group to be placed in the Akeley African Hall. In addition, 267 mammals, 63 birds, 12 reptiles and a collection of butterflies were brought back.

The Morden-Graves North Asiatic Expedition. Mr. William J. Morden, accompanied by Mr. George G. Goodwin of the Department of Mammals, made a trip to Turkestan, where a series of specimens for the Saiga Antelope Group was secured. For a time Mr. Morden was obliged to leave the expedition because of ill health, but he has now recovered and a recent cable announces that he has rejoined the expedition via Khabarovsk, at the Amur River. Mr. George C. Graves, II, and Mr. Goodwin had reached this point some weeks earlier. The primary object of the expedition is the securing of a series of long-haired Siberian Tiger. The expedition is financed by Messrs. Morden and Graves.

The Otley-Anthony South American Expedition. Mr. Gilbert Otley is financing an expedition in coöperation with Mr. Harold E. Anthony of the Department of Mammals to Peru, Bolivia, Chile, Argentina, Uruguay and southern Brazil, to collect mammals and birds and make a reconnaissance of those countries for collecting in the future.

The Heilprin Yucatan Expedition. Mr. Robert T. Hatt, accompanied by Marcelle Roigneau (Mrs. Hatt), visited Yucatan in the attempt to discover evidence bearing upon a possible former land connection between Yucatan and the West Indies. One hundred forty mammals were collected. A large number of caves were explored and fossils obtained; 135 reptiles were also collected. The expedition was financed by the Angelo Heilprin Exploring Fund.

COMPARATIVE ANATOMY:

The Columbia University-American Museum Expedition. Under the auspices of these two institutions, Drs. J. H. McGregor and E. T. Engle of Columbia, and Dr. William K. Gregory and Mr. H. C. Raven of the Museum, spent several months in the Belgian Congo and French West Africa, securing comparative anatomical and illustrative material. They procured two specimens of the Gorilla of the Kivu region, and a recent cable reports the procuring of one specimen of Gorilla from the Cameroon.

ANTHROPOLOGY:

Canyon del Muerto Expedition. Through the generous support of Mr. Ogden L. Mills,* it has been possible to resume archæological investigations at Canyon del Muerto in Arizona. The work is a continuation of that supported by the late Ogden Mills. This season's work has yielded results of exceptional importance, such as fine examples of basketry and implements. A note-

*Mr. Ogden L. Mills succeeded his father, Mr. Ogden Mills, on the Board of Trustees, by election.

worthy find was a rock burial cist, completely sealed, in which was the body of a man in full costume with all his belongings. This furnishes the Museum with the first complete costume of the period represented, together with well preserved examples of basketry, weaving, etc. The field work was carried on by Mr. Earl H. Morris.

Pictograph Expedition. Pictograph research in the Southwest was initiated at the suggestion of Mr. Charles L. Bernheimer, through whose activities funds for the work were collected. Mrs. Ann Axtell Morris undertook the project and began a detailed study of the pictographs on the walls of Canyon del Muerto, Arizona, making careful copies of them in color.

Mrs. William Boyce Thompson Archæological Expedition. Mrs. William Boyce Thompson has again made it possible for Dr. Erich F. Schmidt to continue his archæological studies in Arizona.

The Seventh Bernheimer Expedition. Mr. Charles L. Bernheimer financed and led an expedition to Montezuma Creek, southern Utah, this summer, to continue a search for evidence of prehistoric man and for dinosaur remains.

The Texas-Colorado Archæological Expedition. During the summer Mrs. Payne Whitney made it possible to send Dr. Ronald L. Olson to Texas, also Mr. Richard Snodgrass to Colorado, to make archæological reconnaissance.

Middle American Expedition. Mr. Clarence L. Hay continued to support archæological investigations in Mexico and Guatemala, which made it possible to send Dr. George C. Vaillant to continue his stratigraphic studies in the Valley of Mexico. This investigation is yielding most interesting and novel results.

South American Archæological Expedition. Mr. Myron I. Granger is supporting an expedition conducted by Dr. Ronald L. Olson, who sailed on January 2, 1930, on a reconnaissance trip through Peru, Ecuador and Bolivia.

The Kahn-Granger Expedition. Mr. Myron I. Granger gave the needed financial resources to send Dr. Morton C. Kahn to Dutch Guinea to study the Djuka Tribe, an ethnological problem in which the Museum is deeply interested.

Polynesian Expedition. In coöperation with the Bishop Museum of Honolulu, Dr. Harry L. Shapiro undertook a physical anthropological survey of Polynesia and secured an adequate series, for comparative purposes, of measurements, observations and photographs from the populations of various islands in the Society, Marquesas and Tuamotus Groups. The Bishop Museum made possible the expedition.

OUR INDEBTEDNESS TO BELGIUM

For nearly a quarter of a century, the Museum has enjoyed the hearty coöperation of the Belgian Government in carrying on its explorations and scientific researches in the Congo region of Africa.

The friendship of Belgium for the Museum dates back to the year 1907 when His Royal Highness King Leopold II presented to the Museum a representative collection of over 3,000 objects illustrating the culture of the natives of the Congo. This collection contains many examples of native ironwork, basketry, wood-carving, musical instruments, and numerous fetiches and masks. Prior to that time, the Museum possessed practically nothing from this important region. This magnificent collection has now been re-installed in the new African Ethnology Hall, which will be opened to the public in 1930.

The cordial relations between our Museum and the Belgian authorities were further evidenced by the way that Belgium facilitated the work of the Museum's six-year Congo Expedition, under the leadership of Mr. Herbert Lang and Doctor James P. Chapin, which went into the field in 1908. The American Museum in its turn is sending collections of duplicate specimens to the Belgian Museum at Tervueren. For this kind coöperation the Museum is especially indebted to Baron Ludovic Moncheur; His Excellency Monsieur C. A. M. Liebrechts, Secretary General of the Congo Free State; Baron de Cartier de Marchienne (Ambassador); Monsieur Jules Renkin, Minister of Colonies; His Highness Prince Albert de Ligne (now Ambassador to the United States); Messieurs Felix Fuchs, E. Henry (Governors General); Messieurs J. Malfeyt, A. Lantonnois, A. De Meulemeester, G. Moulaert (Vice-Governors); Monsieur E. Kervyn (Director General).

Parc National Albert

This fine spirit of mutual regard and coöperation was further cemented through the influence of the late Carl Akeley. When Mr. Akeley was returning from the Belgian Congo, where he had collected the gorillas for the great habitat group in the African Hall of the American Museum, he conceived the idea of a great wild life sanctuary in this region where the gorilla might be protected and thus saved from extermination. He presented his plan to the Belgian Ambassador, Baron de Cartier, and Mr. James Gustavus Whiteley, the Belgian Consul-General at Baltimore, and to

several American scientists interested in conservation. In due time the project was presented to His Majesty, Albert I, King of the Belgians, and on March 2, 1925, he created by Royal Decree the Parc National Albert, Kivu District, Belgian Congo. The tract set aside as a sanctuary comprised some 59,300 acres and included the volcanoes of Mt. Mikeno, Mt. Karisimbi and Mt. Bishoke as recommended by Mr. Akeley. In June, 1929, King Albert by Royal Decree greatly enlarged the park, so that now it consists of more than 500,000 acres and comprises four Reserves, or Sectors, lying in the Kivu District, which is to be maintained in its primitive state as a field of investigation for scientists of the world. At the same time the King created a corporate body in the Belgian Congo (Commission du Parc National Albert). This Commission is to consist of eighteen members: one third, including the President of the Commission, to be appointed by the King; one third to be selected by the King from nominations made by Belgian scientific institutions; and another third to be chosen from among members of foreign scientific institutions. The first American members appointed on this Commission were Dr. John C. Merriam and Professor Henry Fairfield Osborn, while Mary Jobe Akeley was appointed Secretary of the American Committee, which also includes in its membership the following:

Stanley Field, President of the Field Museum of Natural History, Chicago.

Dr. Vernon L. Kellogg of the National Research Council, Washington.

Dr. Robert M. Yerkes of Yale University.

Dr. Lewis L. Weed of Johns Hopkins University.

Hon. James Gustavus Whiteley, Belgian Consul-General at Baltimore.

In recognition of this long and friendly coöperation on the part of the Belgian Government with the American Museum of Natural History, the President recommends to the Trustees that the new hall of the African races soon to be opened to the public be dedicated to Their Majesties King Leopold II and King Albert I. The President learns from the present

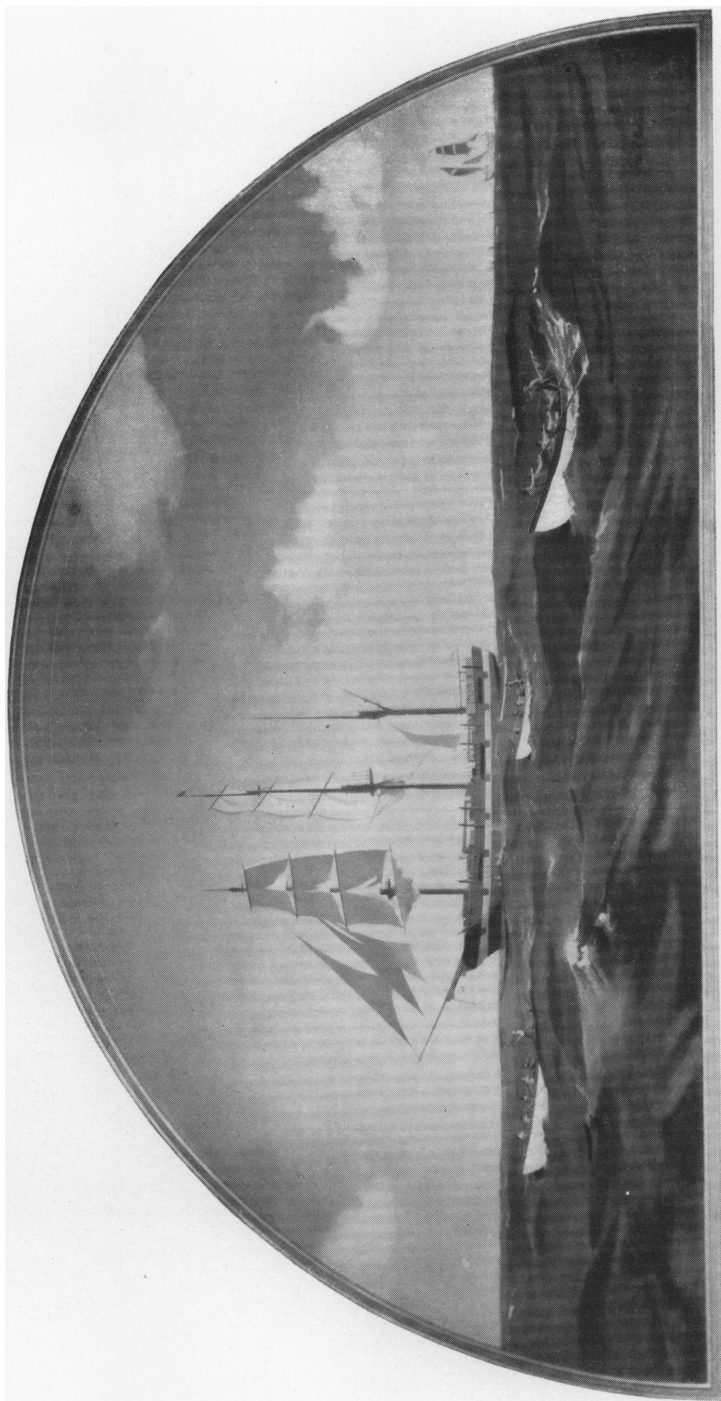
Belgian Ambassador, the Prince de Ligne, that this dedication will be agreeable to the Belgian Government and to His Majesty, King Albert I.

PLANS FOR THE OPENING OF THE SOUTH ASIATIC HALL

After eleven years of arduous preparation in the field by the late Colonel J. C. Faunthorpe and by Mr. Arthur S. Vernay, the collections have all been made for the South Asiatic Hall, and after nineteen years of planning and construction, including a complete change of design, the Hall will soon be ready for the collection of the splendid groups of South Asiatic mammals prepared and mounted by Assistant Director James L. Clark and his staff, with backgrounds beautifully painted by Francis L. Jaques, Arthur A. Jansson, William R. Leigh and Clarence C. Rosenkranz. On November 17, 1930, this Hall will be formally opened, and many dignitaries from India, from England and from the United States will be present to take part in this unique event of the gift of British sportsmen to an American Museum. The one sad feature of this occasion will be the absence of Colonel J. C. Faunthorpe who died of pneumonia in Lucknow on December 1, 1929. It is impossible to express our sorrow that this great friend of the American Museum and noble representative of British sportsmanship did not live to see the fulfillment of his hopes. He will be represented by Sir Harcourt Butler, formerly Governor of Burma, and also, through the thoughtfulness and generosity of Mr. Vernay, by the two sons of Colonel Faunthorpe, Messrs. Peter and Bertram Faunthorpe of the British Army and Navy.

Assistant Director Clark contributes the following account of this collection and of the South Asiatic Hall:

"Until the Vernay-Faunthorpe Collection came to the American Museum, the big game fauna of India was little known to the American public and exceedingly limited in the exhibition halls of our museums. A few sportsmen had hunted in that country, but their trophies were secluded behind the doors of their homes. It remained for these two gentlemen to give to America the finest collection of Indian game groups in existence. Not only did Mr. Vernay and Colonel Faunthorpe give their own time and money to this



THE CHASE

First of murals of American Sperm Whaling for the Hall of Ocean Life
Painted by John Prentice Benson
Gift of Oliver G. Jennings

work, but they took with them special preparators from the Museum staff to insure the proper care and preservation of the specimens, to select the foliage and accessories for the settings of the various groups, and to record, by paintings and color notes made in the field, the actual backgrounds and scenes where the animals were found. The American Museum of Natural History was fortunate to have been the one to have this most generous gift bestowed upon it. It was fortunate for the American public too, for here in this great metropolis of New York the greatest number of people may see this collection.

"The Museum, in its appreciation of this great gift, has spared neither time nor money in properly exhibiting this superb collection. An entire new Hall has been given to it, wherein one enters into an atmosphere of India, with the Hall itself architecturally treated in Indian motifs as a suitable setting for the many habitat groups. As one stands at the entrance, all lights are concealed, and the Hall is in a warm brown tone. In the very centre stand two superbly mounted elephants, bathed in a glow of light from above. At each end of the Hall, which is 140 feet long and 60 feet wide, are four great habitat groups encased in the architectural treatment and appearing as if one were looking through great windows onto the very land itself.

"Entering this Hall through the great Roosevelt Memorial, which is to be the main entrance of the Museum, one will first meet a group of the rare Indian lion, while to the right is seen a forest dell with two leopards and a peacock which they have killed. The exquisitely painted background carries one back into the forest, and it is difficult to tell where the foreground stops and the background begins. To the left, the mighty tiger with his family drinks at a waterhole in the depth of the forest. Next we come to the striking group of the sambar and swamp deer in the Terai of Nepal, showing the great Himalayas in the distant background. Opposite this is a dramatic group of a sambar stag being attacked by a pack of wild dogs.

"Several open cases contain groups of the Sumatran rhino and young, sloth bear, chital, black buck, nilgai, thamin, hog deer and boar, barking and mouse deer, Nilgiri langur,

etc., all of which are down the centre of the Hall and in the alcove about the elephants. Passing these we come to the south end of the Hall, where again we see four major habitat groups, all of which are 16 feet long, 13 feet deep, and 15 feet high. These show the Indian rhino in their Nepal setting, the banting resting in the bamboo forest, the gaur in the hills of Mysore, while the buffalo are shown in the cool shade of the late afternoon at the edge of a river.

"Artistic screens of Indian design carry maps and charts of distribution and classification, while appropriately carved benches give the visitors comfortable resting places. All daylight is kept from the Hall, as this collection is far too valuable to be subjected to the fading rays. Windows have been screened with a lattice-work of bamboo design backed by deep orange glass, giving the effect of late afternoon lighting, as through a bank of this foliage. Many new ideas have been expressed in the conception of this Hall, which will be one of the finest, if not the finest, among exhibition halls of its kind in existence."

PROGRESS OF OTHER HALLS DURING THE YEAR*

African Hall. African Hall work continued without interruption, and much progress was made on several of the groups now in hand. Special African Hall funds made possible the continuance of this work, but limited preparation quarters and lack of space in which to store the groups after their completion have retarded the work somewhat. African Hall Wing construction was started in October, and we hope that in a year and a half we shall be able to have the African Hall ready to receive the groups now under construction. Backgrounds for six groups have been temporarily installed on the main floor of Oceanic Hall, that we may proceed as far as possible with this work. This permits us to carry on and at the same time to show those who have generously made possible these exhibits, the progress that is being made.

Of these six groups, backgrounds have been painted and animals installed in two, viz., the African Buffalo Group donated by Mr. George Eastman—for which four animals

*Special report of Assistant Director Clark, head of the Department of Preparation.

were mounted during the year—and the Giant Sable Antelope Group, donated by Mr. Arthur S. Vernay—for which five animals were also mounted.

The other four groups to be assembled in these spaces are the Lesser Kudu, Nyala, Gorilla, and Greater Kudu. Four animals were mounted for the Lesser Kudu Group; two zebras for the Water Hole Group; two large giraffe manikins for the Water Hole Group came to completion, and six animals were modeled for the Plains Group. Some accessory work was done for the Sable and Buffalo Groups.

Much supplementary work was carried on for this Hall in the way of the tanning of all the mammal skins and the cleaning of all the skeletons of the Akeley-Eastman-Pomeroy Expedition. Skins of the ten lions collected in 1928 by the Carlisle-Clark African Expedition for the Lion Group for the Akeley African Hall were also tanned.

Oceanic Hall. Considerable work was carried on during 1929 to bring this Hall nearer completion. Case construction for mammals and other groups has been considerably advanced. The Walrus Group collected by the Stoll-MacCracken Siberian-Arctic Expedition was started by making a sketch model of the group itself, tanning the eight walrus skins, painting the backgrounds, and making the groundwork. The work of actually mounting the specimens is now under way. The mounting of this group has been made possible by the generous gift of Mrs. Andrew Carnegie.

A complete model of a young Sperm Whale was made, colored and installed close to the skeleton of the adult specimen. Two duplicate models were made and used as exchange material. The two large murals of the Killer Whale and the Fin-backed Whale by John P. Benson, presented by Mr. Junius S. Morgan, Jr., were brought to completion. The first four murals, showing the Day of a Whaler, by the same artist, and presented by Mr. Oliver G. Jennings and Mr. George T. Bowdoin, were finished last year, while the seventh panel in this series has been generously presented by the artist himself, Mr. John P. Benson. Work on the final completion of this Hall has been temporarily retarded by the necessity of using the major portion of the main floor to install the temporary African Hall Groups.

Birds of the Continents Hall. This fine Central Bird Hall is making progress along with the others. The South Georgia Island Group, presented by Mr. Glenn Ford McKinney, was opened to the public on April 11, 1929, and this, with the beautiful Panama Group, for which we are indebted to Dr. Evan M. Evans, shows the public how really fine this Hall will be. Some work was done on the Aconcagua Group, gift of Mrs. Carll Tucker, and the painting of the background of the Kidong Valley Group, the gift of Mrs. Dwight Arven Jones, was nearly completed. Nine other group backgrounds for this Hall were prepared, ready for painting, so that from now on this work will go steadily forward. The exceptionally fine group of Arctic Bird Life, collected by the Stoll-MacCracken Siberian-Arctic Expedition, came into completion at the north end of the Hall of Habitat Groups of North American Birds.

North Asiatic Hall. Nothing could be done towards the completion of this new Hall by reason of the necessity of temporarily using it as preparation quarters. Mr. William J. Morden, of the Morden-Graves North Asiatic Expedition, added to our group specimens by collecting an exceptionally rare and valuable group of Saiga Antelope from Russian Turkestan. Mr. Morden is now on his way to eastern Siberia with Mr. George C. Graves, II, to secure a group of Siberian Tiger.

Bashford Dean Memorial Hall of Fossil Fishes. This small but significant Hall came into completion during 1929 and shows many valuable specimens of fossil fish as well as interesting evolutionary charts.

Anthropological Halls. Our reduction of income has seriously interfered both with the progress of anthropology and with the educational development of the eleven exhibition halls enumerated below, which advanced very rapidly under the stimulating interest of President Jesup along the original plans of Professor Frederick W. Putnam who for some years acted as advising curator. We feel severely the loss of the succession of curatorial officers and patrons of distinction who began the work along the original plans of a great Department of Anthropology. Meanwhile all the col-

lections in Anthropology are being gradually rearranged into exhibition halls on the following system:

EUROPEAN ARCHÆOLOGY	<i>Second Floor</i>	Section 4
AMERICAN ARCHÆOLOGY		Section 6
SOUTH AMERICAN ARCHÆ- OLOGY, INCLUDING PERU		Section 8
AZTEC AND TOLTEC ARCHÆOLOGY		Section 14
RACES OF MANKIND, HABITAT GROUPS	<i>Third Floor</i>	West Corridor
RACES OF MANKIND, PHYSI- CAL ANTHROPOLOGY		Section 4
RACES OF ASIA		Section 6
RACES OF AFRICA		Section 8
RACES OF SOUTH PACIFIC	<i>Fourth Floor</i>	Section 6
RACES OF THE PHILIPPINES		Section 8
RACES OF MELANESIA		Section 14

On the scientific side the Museum is still moving forward steadily under the able direction of Curator Clark Wissler, who, by permission of the Trustees, has also accepted an appointment as Professor of Anthropology in Yale University. We are also fortunate in the able direction of the Department of European and American Archæology under Curator N. C. Nelson, who, since his appointment in 1912, has continuously devoted himself to the arrangement of our entire archæological collection both of the old and the new worlds. Through a succession of gifts we are now very strong in European archæology, but are very much behind other institutions in the development of American archæology. Under the direction of Research Associate Clarence L. Hay and the newly appointed Associate Curator George C. Vailant, we are making encouraging progress in Mexican archæology and are gradually preparing for the ultimate transfer of the entire Mexican and American collections to the Middle American Hall, Section 14, for which we are still awaiting a benefactor.

**STATE PROGRESS OF THE THEODORE ROOSEVELT
MEMORIAL**

The people of the City and State of New York are under great indebtedness to the Legislature of the State for its wise and liberal action in regard to the planning and construction of the Theodore Roosevelt Memorial.

From all parts of the State there has been very great pressure brought upon the Legislature for the construction of buildings after a long period of inactivity. After the passage of the original act "providing for the construction of a free public education building as a memorial to Theodore Roosevelt and making an appropriation for expenses therefor to be incurred in the year commencing July first, 1924" the period from May 5, 1924, to December 22, 1926, was occupied with the architectural competition resulting in the award to John Russell Pope of the City of New York and with the preparation of plans, specifications and model of the Memorial building so that the Trustees of the Roosevelt Memorial were ready for the award of the contract July 28, 1926.

Then followed the long three-year period of delay until January 15, 1929, when it was agreed by the leading officers of the State Legislature and by the Governor that there should be appropriated funds sufficient to begin the foundations of the Memorial. The leaders in this important step were the following:

Hon. John Knight, Temporary President of the Senate; Hon. Joseph A. McGinnies, Speaker of the Assembly; Hon. Charles J. Hewitt, Chairman, Senate Finance Committee; Hon. Eberly Hutchinson, Chairman, Assembly Ways and Means Committee.

A conference was held with Hon. Franklin D. Roosevelt, Governor of the State, in the Executive Chamber in Albany, January 15, 1929, between these leading officers of the State and Chairman Osborn of the Board of Trustees of the New York State Roosevelt Memorial. Chairman Osborn stated that during the five years which had elapsed since the original appropriation act of May 5th, 1924, limiting the cost of the Memorial to \$2,500,000, all building and architectural costs had greatly advanced, wages had been increased, the City of New York was constructing a new Central Park West

subway opening to the basement of the Memorial which would require architectural treatment, and it would, therefore, be necessary to raise the original estimate of cost to \$3,500,000. As a consequence of this conference there has been introduced into the present session of the Legislature (1930) an act amending Chapter 615 of the Laws of 1924 and substituting as an amendment thereto a bill by the Hon. Eberly Hutchinson of the Assembly which provides for a new limit of cost as follows:

As a tribute to the memory of Theodore Roosevelt there shall be erected, at a cost to the state of not exceeding three million five hundred thousand dollars (\$3,500,000), in the city of New York upon a site provided by the authorities of such city, adjacent to the American Museum of Natural History in such city, an education building, chiefly for the benefit of the youth of the state, which shall hereafter be known as and become the New York State Roosevelt Memorial. Such city is hereby authorized to dedicate to the state the site therefor.*

The passage of this important amendment assures the construction of the Roosevelt Memorial on a scale in keeping with the dignity of the State and of the action of the City of New York in conveying the site of the Memorial. As a further result of the conference held in January, 1929, Governor Roosevelt included in the 1930 budget the sum of \$2,250,000 to complete the construction, and to provide for the furnishing and equipment. Subsequently this amount was reduced to \$2,100,000 and is included in section 2 of the budget bill authorizing "the creation of a state debt and making appropriations for the construction of certain buildings," and is before the Governor for signature:

An Act authorizing the creation of a state debt and making appropriations for the construction of certain state buildings. The People of the State of New York, represented in Senate and Assembly, do enact as follows:

The sum of two million, one hundred thousand dollars (\$2,100,000) is hereby appropriated from the proceeds of the sale of bonds hereby authorized toward the construction of the Theodore Roosevelt Memorial Building as authorized by chapter six hundred and fifteen of the laws of nineteen hundred and twenty-four and amended by chapter six hundred and fifty-nine of the laws of nineteen hundred

*Chapter 265, Laws of 1930.

and twenty-nine. The moneys hereby appropriated shall be paid out of the state treasury on the audit and warrant of the comptroller on the certificate certified by the superintendent of public works and verified by two members of the temporary board of trustees and countersigned by the chairman or vice-chairman, subject to the provisions of law applying to the construction of such building.

This appropriation of \$2,100,000 is in addition to the previous appropriations of \$250,000 on May 5, 1924, and of \$1,000,000 in the annual budget of 1929-30 and has enabled the Trustees to pay the cost of the architectural competition; the preliminary preparation of plans; to enter into contracts, awarding to James E. Fraser the execution of the equestrian statue of Theodore Roosevelt to be erected in front of the Memorial, and also to award contracts for the construction of the foundation and sanitary work up to the water table of the second floor.

Due to the whole-hearted interest and energetic endeavors of the Superintendent of Public works, Colonel Frederick Stuart Greene, the State Engineer, the late Colonel William E. Acheson, and the State Architect, Mr. William A. Haugaard, the detailed preparation of the plans was rapidly forwarded. On August 29, Superintendent Greene advertised for bids for construction and sanitary work of foundations, and on September 24 bids were opened at the office of the Board of Trustees of the Memorial, 15 West 77th Street, New York City, in the presence of Chairman Osborn, Colonel Greene, Trustees Good, Flint, and Kiernan, State Architect Haugaard and Secretary Pindar. The contract for the foundation was awarded to M. Shapiro and Son, and that for sanitary work to C. F. Mentzinger's Son. Finally on October 16, 1929, Secretary George N. Pindar turned over the first shovelful of earth to start the work of excavation.

The financial statement at the close of the year 1929 shows that from the original appropriations of 1924 and of 1929, amounting altogether to \$1,250,000, there would remain on January 1, 1930, an unencumbered balance of \$484,728.31 for contingencies and for continuation of the work of the Roosevelt Memorial as follows:

Unencumbered balance of the original appropriations 1924-1929 of	
\$1,250,000.....	\$484,728.31
Bond appropriation of 1930.....	2,100,000.00
Total available for construction work and other purposes.....	<hr/> \$2,584,728.31

From estimates which have been received for the completion of the superstructure and other work, it is expected that the total cost, when the time arises to provide for the furnishing and equipment, of the completed Roosevelt Memorial will come within the sum of \$3,500,000.

NEW INTENSIVE UNIVERSITY, COLLEGE, AND NORMAL SCHOOL EDUCATIONAL PROGRAM

It is a union of actual practical observational work with theoretic instruction which the American Museum is now offering to the advanced students of the colleges and universities of this great City and State.

In the last Annual Report* the President outlined the new intensive educational program (pages 2 to 7) and estimated (page 10) that an income of \$50,000 annually in new endowment would be necessary for this new intensive university, college and normal school education in the laboratories and exhibition halls of the Museum and for the extension of service to the secondary schools. This is in fulfilment of our contract with the City of New York of 1878, in which it was agreed that "the Trustees shall transfer to these buildings their museum, library and collections, and apparatus, to which 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

*The Sixtieth Anniversary Endowment of the American Museum. Sixtieth Annual Report of the Trustees for the year 1928, issued May 1, 1929.

and on the same terms and conditions as any other persons are admitted to such advantages, as aforesaid."

Although the new Sixtieth Anniversary Endowment, to yield an income of \$50,000, has not been secured, several important steps forward have been taken for the fulfilment of this plan, and recently similar letters have been addressed to the heads of the following institutions; namely, to President Butler of Columbia University; President Robinson of the College of the City of New York; Chancellor Brown of New York University; President Duane of Fordham University; Dean Gildersleeve of Barnard College; and President Kieran of Hunter College. Note that the *privilege is to be extended only to highly qualified advanced or honor students*, and not necessarily to large classes as a whole.

The similar letter to these institutions is as follows:

February the twenty-first
Nineteen hundred thirty

DEAR SIR:

The President and Curator of Public Education with the approval of the Education Committee and the Board of Trustees take pleasure in informing you that after the manner of the century-long relation between the University of Paris and the Musée National d'Histoire Naturelle, the American Museum of Natural History is now prepared to offer special observational and note-taking facilities on its unrivaled collections from all parts of the world to highly qualified students in the following subjects: Geology, Mineralogy, Biology, Woods and Forestry, Zoology of the Invertebrates, Fishes, Amphibians, Reptiles, Birds and Mammals, Palæontology of Fishes, Amphibians, Reptiles, Birds and Mammals, Anthropology.

These facilities will be extended in the morning hours when the Museum is relatively free from public visitors and by special arrangement with Doctor Sherwood and Doctor Fisher, exhibition halls will be partly closed off from the public.

Special mornings will be assigned to each of the six institutions to which by contract with the City and State such facilities are permissible, namely, the College of the City of New York, Columbia University, New York University, Barnard College, Hunter College and Fordham University.

Small groups of highly qualified or honor students will work under their own instructors; special tables and note-taking facilities will be provided and museum attendants or

assistant curators will see that all needed access to cases, etc., is rendered.

I trust you will kindly communicate this offer to the Dean of the Pure Science Faculty, with the request that if the offer is accepted he communicate with Doctor George H. Sherwood, Curator-in-Chief of Public Education, so that the details can be arranged well in advance of the coming of the students. We are prepared to put this plan into operation immediately.

Very truly yours,

(Signed) HENRY FAIRFIELD OSBORN,
President.

Although we have made a propitious beginning with special classes of students from the College of the City of New York, from New York University, from Hunter College, and from Columbia University, it is proposed at the opening of the new college year to set aside special mornings for a limited number of students from each of these institutions, during which classes may pursue their observations and studies under their own instructors undisturbed by the visiting public. In brief, certain halls will be closed to the public during the morning hours and certain limited afternoon hours and devoted entirely to intensive educational work in the major subjects in which the Museum offers unique advantages, namely: Astronomy, Mineralogy, Geology, Palæontology, Biology, Botany (Woods and Forestry), Zoology including Birds and Bird Life, Mammals and Mammal Life, Comparative Anatomy and Osteology, Archæology, Anthropology, Ethnology and Human Anatomy.*

In each Hall tables and special facilities for note-taking will be afforded to classes working under their own instructors but with special assistance from members of our curatorial staff as may be required. During the present year intensive work of this character has been carried on by Professor William King Gregory in Comparative Anatomy and the Evolution of the Vertebrates, with classes of Columbia University students; by Professor Charles C. Mook with classes in Geology and Palæontology from New York

*Compare page 6 of the 60th Annual Report, issued May 1, 1929.

University. Professor A. L. Melander, of the College of the City of New York, held classes in Biology. From Hunter College, Mrs. John Keur has brought students in Anthropology, Dr. Sylvia Kopald in Prehistoric and Primitive Man, and Professor Martha Kennerly and Miss Theodora Nelson in Zoology. Several groups from Teachers College have made intensive use of the Museum: Professor Thomas Briggs conducted a series of summer classes to learn the general cultural value of the Museum; Dr. Samuel R. Powers, Dr. Otis W. Caldwell, Dr. Gerald S. Craig, Mr. Herbert Arnold, Mr. Mervin Oaks, Miss Florence Billig, and Miss Lillian Hethershaw have brought groups to study Educational Methods; E. C. Sherman brought students of Indian Culture. Mr. Herbert J. Walsh, of Fordham University, has also brought his classes to study Educational Methods. The Cornell Postgraduate Medical School has studied the Food and Health Exhibits intensively. Professor C. S. Crow of Rutgers University is holding a series of classes in which his students are observing the Museum from the general cultural viewpoint. Groups from more distant localities have included Dr. Freeman Ward's class in Vertebrate Palaeontology from Lafayette College, Easton, Pennsylvania; students of the Medical School of Boston University for the work in Health and Food Exhibits; and a class from the University of Vermont to observe Museum Exhibit Preparation.

CULTURAL COURSES FOR TEACHERS IN 1929-1930

Meanwhile another very important step forward toward intensive education has been made in the cultural courses for teachers in the schools and colleges of the city given successively by a number of our curators as follows:

CULTURAL COURSE IN GEOGRAPHY

<i>Name of Lecturer</i>	<i>Subject</i>
<i>Introductory Lecture</i>	
George H. Sherwood	Plans and Aims of the Course
<i>Astronomical Geography</i>	
Clyde Fisher	The Origin of the Solar System
Elizabeth A. Eckels	The Change of Seasons
Clyde Fisher	Time O'Day

<i>Name of Lecturer</i>	<i>Subject</i>
Elizabeth A. Eckels	Phases of the Moon and the Tide
Clyde Fisher	Our Place in the Milky Way Galaxy
Elizabeth A. Eckels	The Great Dipper and Other Constellations
<i>The Earth-Crust and Its Changes</i>	
Herbert P. Whitlock	Some Common Minerals
Nancy A. True	The Story of Coal and Coal Mining
Grace Fisher Ramsey	Useful Metallic Ores
William H. Carr	Building Stones
George H. Sherwood	The Work of Water
Chester A. Reeds (1930)	Volcanoes and Earthquakes
<i>Life in the Zones</i>	
William H. Carr	Animals of the Arctic
William L. Smith	Plant and Animal Life of the Jungle
William H. Carr	Mammals of North America
Nancy A. True	Life in the Sea
Farida Wiley	Life of the Desert
Grace Fisher Ramsey	Insect Friends and Enemies of Agriculture
Clyde Fisher	Birds of the Field, Forest and Garden
William L. Smith	Trailing Wild Animals in Africa
William L. Smith	Strange Animals of Australia
<i>The Races of Mankind</i>	
Farida Wiley	Siberia and Her People
Grace Fisher Ramsey	Ancient Arts and Crafts of the Chinese
William L. Smith	African Native Life
Nancy A. True	The Indians of North America
Farida Wiley	Story of the Incas
Nancy A. True	The Eskimos and Their Mode of Living
Farida Wiley	Primitive Homes of Many People

CULTURAL COURSE FOR HIGH SCHOOLS AND COLLEGES

<i>Introductory Lecture</i>	
George H. Sherwood	Plans and Aims of the Course
<i>Astronomy</i>	
Clyde Fisher	Our Solar System: Its Origin and Place in the Milky Way Galaxy
Elizabeth A. Eckels	Star Legends
Clyde Fisher	The Seasons
Clyde Fisher	Earth and Neighbor Worlds
Clyde Fisher	Phases of the Moon
Clyde Fisher	Time of Day
<i>Early History of the World</i>	
Chester A. Reeds	General Geology of North America
Sydney E. Helprin	Geology of the Vicinity of New York City
Herbert P. Whitlock	How Atoms Build (The New Crystallography)
Herbert P. Whitlock	Elements in Earth's Crust
Barnum Brown	Fossil Reptiles
Charles C. Mook (1930)	Fossil Mammals
<i>Anthropology</i>	
Clark Wissler	Methods and Aims of Anthropology
Clark Wissler	Characteristics of Primitive Cultures
Clark Wissler	The Primitive Community
Clark Wissler	Types of Primitive Culture—Old World
Clark Wissler	Types of Primitive Culture—New World

<i>Name of Lecturer</i>	<i>Subject</i>
<i>Birds</i>	
Robert C. Murphy	Antarctic Bird Life
Robert C. Murphy	Island Ornithology and Some of Its Scientific Problems
Maunsell S. Crosby	Local Bird Life
Maunsell S. Crosby	Local Bird Life
Frank M. Chapman	Colors of Birds
<i>The Nature of the Living World</i>	
G. Kingsley Noble	What is Life?
G. Kingsley Noble	The Mechanics of Heredity
G. Kingsley Noble	The Processes of Development
G. Kingsley Noble	The Origin and Significance of Animal Coloration
G. Kingsley Noble	The Effect of Environment
G. Kingsley Noble	The Causes of Behavior

These courses have not only enjoyed an unexpectedly large attendance, but a gratifying feature is the universal desire to connect the lectures and addresses with more thorough observational work in the exhibition halls of the Museum than has been possible under our previous system.

CURATORS OF COLLEGE AND UNIVERSITY TRAINING

The many great naturalists who took part in the scientific foundation of the Museum were touched by the personal influence and example of two men—Louis Agassiz of Harvard University and Henry Ward of Ward's Natural Science Establishment of Rochester. With the rise of natural science in our colleges and universities it has become possible to secure advanced scientific training even rising to the grade of higher degrees and for all workers to whom such courses are possible the American Museum is strongly encouraging college and university education. Without any reflection on those members of our staff who have not enjoyed these advantages because of lack of early opportunity, it is interesting to list our staff from the American college and university standpoint, naturally beginning with the President:

Henry Fairfield Osborn, A.B., Princeton, 1877; Sc.D., 1880. Honorary Degrees: LL.D., Trinity, 1901; LL.D., Princeton, 1902; LL.D., Columbia, 1907; LL.D., Union, 1928; Sc.D., Cambridge, 1904; Sc.D., Yale, 1923; Sc.D., Oxford, 1926; Sc.D., New York, 1927; Ph.D., Christiania (Oslo), 1911.

- George Herbert Sherwood, A.B., Brown, 1898; A.M., 1899.
Honorary Degree: Ed.D., Brown, 1928.
- Frank Michler Chapman, Honorary Degree: Sc.D., Brown, 1913.
- Barnum Brown, A.B., Kansas, 1897.
- William King Gregory, B.A., Columbia, 1900; M.A., 1905; Ph.D., 1910.
- Clark Wissler, A.B., Indiana, 1897; A.M., 1899; Ph.D., Columbia, 1901. Honorary Degree: LL.D., Indiana, 1929.
- Ida Richardson Hood, A.B., Edward McGehee College (Mississippi), 1896; A.M., 1898.
- James Paul Chapin, A.B., Columbia, 1916; M.A., 1917.
- Roy Waldo Miner, A.B., Williams, 1897; Ph.D., Columbia, 1923; Sc.D., Williams, 1927.
- Roy Chapman Andrews, B.A., Beloit, 1906; M.A., Columbia, 1913. Honorary Degrees: Sc.D., Brown, 1926; Sc.D., Beloit, 1929.
- Frank Eugene Lutz, A.B., Haverford, 1900; A.M., Chicago, 1902; Ph.D., 1907.
- John Treadwell Nichols, A.B., Harvard, 1906.
- Harold Elmer Anthony, B.S., Columbia, 1915; M.A., 1920.
- Jannette May Lucas, B.S., B.E., Teachers' College, Columbia, 1909.
- N. C. Nelson, B.A., California, 1907; M.L., 1908.
- Chester A. Reeds, B.S., Oklahoma, 1905; M.S., Yale, 1907; Ph.D., 1910.
- Charles C. Mook, B.S., Columbia, 1912; A.M., 1914; Ph.D., 1915.
- Clyde Fisher, A.B., Miami, 1905; Ph.D., Johns Hopkins, 1913; LL.D., Miami, 1926.
- Frank E. Watson, B.S., Cooper Union, New York, 1900.
- Willard G. Van Name, B.A., Yale, 1894; Ph.D., 1898.
- G. Kingsley Noble, A.B., Harvard, 1917; A.M., 1918; Ph.D., Columbia, 1922.
- Herbert P. Whitlock, C.E., Columbia College School of Mines, 1889.
- Eugene Willis Gudger, B.S., Nashville, 1892; M.S., 1893; Ph.D., Johns Hopkins, 1905.
- Francesca R. La Monte, B.A., Wellesley, 1918.
- Robert Cushman Murphy, Ph.B., Brown, 1911; A.M., Columbia, 1918. Honorary Degree: D.Sc., San Marcos, Lima, Peru, 1925.

- Clifford Hillhouse Pope, B.S., Virginia, 1921.
Wayne Moody Faunce, Sc.B., Brown, 1921.
Paul B. Mann, A.B., Cornell, 1902; A.M., 1903.
H. L. Shapiro, A.B., Harvard, 1923; A.M., 1925; Ph.D., 1926.
Margaret Mead, B.A., Barnard, 1923; M.A., Columbia, 1924; Ph.D., 1928.
Nancy A. True, A.B., Brown, 1922.
Elizabeth Ann Eckels, Ph.B., Brown, 1925.
George C. Vaillant, B.A., Harvard, 1922; M.A., 1925; Ph.D., 1927.
George Gaylord Simpson, Ph.B., Yale, 1923; Ph.D., 1926.
Robert T. Hatt, B.S., Michigan, 1923; M.A., Columbia, 1925.
Charles Howard Curran, B.S.A., Toronto, 1922; M.S., Kansas, 1922.
Ronald L. Olson, A.B., Washington, 1925; M.A., 1926; Ph.D., California, 1929.
Charles Earle Burt, B.S., Kansas State Agricultural College, 1926; M.S., 1927.
Childs Frick, B.S., Princeton, 1905.
Charles-Edward Amory Winslow, S.B., Massachusetts Institute of Technology, 1898; S.M., 1899. Honorary Degrees: M.A., Yale, 1915; Dr. P.H., New York, 1918.
George Frederick Kunz, Honorary Degrees: A.M., Columbia, 1898; Ph.D., Marburg (Germany), 1904; Sc.D., Knox, 1907.
Aaron L. Treadwell, B.S., Wesleyan, 1888; M.S., 1890; Ph.D., Chicago, 1899.
William Morton Wheeler, Ph.D., Clark, 1892. Honorary Degrees: S.D., Chicago, 1916; LL.D., California, 1928.
Charles William Leng, B.Sc., Brooklyn Collegiate and Polytechnic Institute, 1877.
James Howard McGregor, B.S., Ohio State, 1894; M.A., Columbia, 1896; Ph.D., 1899.
Clarence L. Hay, A.B., Harvard, 1908; A.M., 1911.
Herbert F. Schwarz, B.A., Harvard, 1904; M.A., 1905; M.A., Columbia, 1907.
Horace Wesley Stunkard, B.S., Coe, 1912; A.M., Illinois, 1914; Ph.D., 1916.
Milo Hellman, D.D.S., Pennsylvania, 1905.

Amadeus W. Grabau, S.B., Massachusetts Institute of Technology, 1896; S.M., Harvard, 1898; S.D., 1900.

Charles Haskins Townsend, Sc.D., Washington and Jefferson, 1909.

Charles P. Berkey, B.S., Minnesota, 1892; M.S., 1893; Ph.D., 1897. Honorary Degree: Sc.D., Columbia, 1929.

Dudley Joy Morton, M.D., Hahnemann Medical College (Philadelphia), 1907.

Van Campen Heilner, M.S., Trinity, 1927.

Bertram Garner Smith, A.B., Michigan, 1907; Ph.D., Columbia, 1912.

William Douglas Burden, B.A., Harvard, 1922; M.A., Columbia, 1926.

William J. Morden, B.S., Yale, 1908.

George E. Brewer, A.B., Hamilton, 1881; A.M., 1884; LL.D., 1916; M.D., Harvard, 1885.

Louis Hussakof, B.S., College of the City of New York, 1900; Ph.D., Columbia, 1906.

Thus the American Museum now enjoys the services of 7 graduates of Columbia University, 8 of Harvard University, 6 of Brown University, 2 of Massachusetts Institute of Technology, 2 of the University of Michigan, 2 of Princeton University, 3 of Yale University and one each of the following: Beloit College, Brooklyn Collegiate and Polytechnic Institute, University of California, Clark University, Coe College, College of the City of New York, Cooper Union, Cornell University, Hahnemann Medical College, Hamilton College, Haverford College, University of Indiana, Kansas State Agricultural College, University of Kansas, Edward McGehee College, Miami University, University of Minnesota, Ohio State University, University of Oklahoma, University of Pennsylvania, University of Nashville, Trinity College, University of Toronto, University of Virginia, University of Washington, Washington and Jefferson College, Wellesley College, Wesleyan University, and Williams College.

CENTRAL ASIATIC EXPLORATION

The Central Asiatic Expeditions of the American Museum of Natural History are supported by 383 individual contributions and subscriptions from various parts of the United States, from no less than 37 different States of the Union,

Porto Rico, Hawaii, and 9 foreign countries, in addition to an annual contribution of \$5,000.00 from the Field Museum of Chicago, the annual contribution of \$5,000.00 from the Treasury of the American Museum and of the salaries of members of the American Museum staff, namely, Messrs. Andrews, Granger, Nelson, Pope and Thomson, who have taken part in the active field work of the Expeditions.

Altogether, more than \$500,000.00 has been expended on the Central Asiatic Expeditions since 1916. The annual cost of the Expeditions in recent years has been between \$35,000.00 and \$40,000.00. This does not include the publication of the *Preliminary Contributions* at the expense of the American Museum.

As President of the American Museum of Natural History, I desire to express our gratitude to our generous benefactors in all parts of our country and of foreign lands, who have helped to make these great Expeditions possible, by their faith in the results, and by the generosity of their contributions. Second, I desire to express the appreciation of the American Museum to the splendid corps of field workers, led by Doctor Andrews, who have coöperated to make these Expeditions so tremendously successful. Third, on behalf of the American Museum Scientific Staff, I desire to express our gratitude and appreciation of the able coöperation of scientific workers of other institutions, as well as of our own, in bringing these results so promptly to the knowledge of the scientific world, so that they are rapidly being incorporated in the general advance of the sciences of Geography, Geology, Archæology, Palæontology, Zoology and Botany.

The Central Asiatic Expeditions of the American Museum of Natural History, under the leadership of Dr. Roy Chapman Andrews, beginning in the year 1916, constitute thirteen years of exploration and research. The results are being recorded in three series of publications, as follows:

First, popular articles of Doctor Andrews, Professor Osborn and others have appeared in ASIA Magazine and other periodicals, as fully listed in the Bibliography published with the Preliminary Reports, Volume I, dated 1918-1925, and in the present Volume II, dated 1926-1929. These articles contain much information concerning the narrative, routes, per-

sonnel, and adventures of the Expeditions which will be covered in more serious and substantial form in the series *Natural History of Central Asia*, Volume I, entitled "The New Conquest of Asia," now being prepared in Peiping by Doctor Andrews.

Second, ninety-six Preliminary Reports in Geology, Palæontology, Archæology, Botany and Zoology have been issued as fast as the wonderfully interesting new scientific material could be studied and compared in the American Museum. Volume II covers Preliminary Reports, Contributions Nos. 64 to 96, first issued as *Novitates* and *Bulletins* of the American Museum and now collected in a limited edition of 100 copies. This edition of the collected *Preliminary Contributions* is being sent to the active centers of research and publication in various parts of the world, so as to make the *Preliminary Contributions* immediately and conveniently available to the scientific workers in all the numerous branches covered by the Expeditions.

Third, the series entitled *Natural History of Central Asia*, is planned to include more material and a comprehensive description of the work of the Expeditions, to embrace 12 volumes, of which Volume II, entitled "The Geology of Mongolia," covering the geological work of Messrs. Berkey and Morris to the end of the year 1923, was published in December, 1927. Of this series, six additional volumes are now in active preparation, namely: Volume I by Doctor Andrews, Volume III by Messrs. Berkey, Morris and Spock, Volume IV by Doctor A. W. Grabau, Volume V by Messrs. Berkey, Roberts and Hill, and Volumes VI and VII by Professor Osborn and Curator Granger, Assistant Chief of the Expeditions. Volumes VIII–XII will be devoted to Archæology, Ichthyology, Herpetology, Mammalogy and Botany.

Interruption of Our Exploration

Since August, 1928, the President has been in continuous correspondence, conference and interchange of friendly sentiments with the Chinese Minister, Dr. Chao Chu Wu, a graduate of the University of London, and Secretary of State Henry L. Stimson, through whose intervention the

entire American Museum fossil collection of the year 1928 was finally released by the government of China after a prolonged and most unfortunate delay.

It will be a matter of very great regret to all members of the American Museum, of the American Association for the Advancement of Science, and of the allied societies, to learn of the enforced interruption by the "Cultural Society" of Peking of the explorations by the American Museum of Natural History in Central Asia. It is one of the most regrettable incidents of recent times that the new Nationalistic spirit in China, in which we all rejoice, has been accompanied, and partly developed, by a spirit of anti-foreignism. This spirit is by no means confined to the political and economic sphere, but has also entered the intellectual and scientific sphere. The purely scientific and educational aims of other countries are misrepresented in the Chinese press, and popular opinion is inflamed against scientific exploration as hostile to the best interests of China.

In 1926, the famous Swedish explorer, Dr. Sven Hedin, arrived in Peking and made preparations for a great scientific expedition to Inner Mongolia and Chinese Turkestan. Just before he was ready to depart in the spring of 1927, the "Society for the Preservation of Cultural Objects" started a newspaper campaign against Dr. Hedin. Although the main purpose of the Swedish expedition was meteorological investigation, it included geologists, archæologists, zoologists and other scientists. Finally Dr. Hedin felt that it was better to accede to the Cultural Society than to give up his entire expedition, which had been assembled in Peking at great expense and then was ready to go into the field. He was forced to accept a Chinese co-director, pay the salaries and expenses of ten Chinese students to accompany him on the expedition, and agree to turn over all his collections to the Chinese. The Cultural Society agreed that they would give him back some of his material.

The President has also received expressions of the friendlier state of mind of three of the leading scientific bodies of Peking, namely: The National Library of Peking, the Geological Survey of China, and the Committee for the Preservation of Ancient Objects. In response to these com-

munications, the President sent a friendly letter of acknowledgment. Most recent is the President's cable of March 8th to the present head of the Cultural Society of Peking:

Professor Ma Heng

Chairman, Commission for Preservation of Ancient Objects
Peihai, Peiping

Leading scientists of America including presidents and directors are deeply interested in the continuation and completion of the explorations and publications of the Central Asiatic Expedition which are supported by popular financial contributions from all parts of the United States. We appreciate the purposes of the Cultural Society in the preservation of archæological and cultural objects but we trust that you will approve of our continued free use of geological and palæontological specimens from Mongolia for the completion and publication of the results of our explorations. The President and Trustees of the American Museum of Natural History unanimously appoint Dr. Roy Chapman Andrews as our representative and fully authorize him to act in all negotiations. We are extremely desirous to have this matter settled at the earliest possible moment because we have suffered very severe financial losses through previous delay. With the assurance of our personal esteem and desire to continue our friendly relations with the scientific bodies of Peiping, I am,

Very respectfully yours,

HENRY FAIRFIELD OSBORN

It does not appear an exaggeration to say that, as a result of our exploration and survey of Mongolia, the researches in geology, palæontology and zoology mark one of the most important scientific advances of the twentieth century. The publication of these scientific researches will be of great educational as well as economic importance to China. These discoveries have not only aroused interest throughout the entire scientific world, but have spread very widely and have renewed a healthy popular interest in China and Mongolia, to offset the always disturbing and conflicting political news which we receive from these countries. The interruption of the work of the Central Asiatic Expeditions is a misfortune. The permanent suspension of this work from any cause would be a calamity in the advance of science.

ENCOURAGING PROGRESS IN SCIENTIFIC PUBLICATION

Under the direction of Mr. Hawthorne Daniel, the work of our Department of Printing and Publishing is now advancing very rapidly and for the first time in several years we have caught up to the research work of the curators. These researches are issued in the following serial publications.

1. *The Bulletin of the American Museum of Natural History*. Established in 1881, and planned to contain the scientific records of explorations and collections of the Museum, in Geology, Palæontology, Mineralogy, Zoology, and, originally, Anthropology. Volumes I-LIX.

2. *The Anthropological Papers*. Established in 1906 for the discoveries, explorations and researches in Archæology, Anthropology and Ethnology among the extinct and living races of man. Volumes I-XXXI.

3. *The Memoirs of the American Museum of Natural History*, Established in 1893. These are reserved for more extensive treatment of scientific subjects than is the case of *Bulletin* articles.

4. *The American Museum Novitates*, of which three hundred and ninety-five articles have been published, were begun in 1921. This publication is devoted to preliminary announcements and descriptions of new forms in the fields of Zoology, Palæontology, Geology and Mineralogy.

5. *Natural History*. The Journal of the American Museum of Natural History, of which twenty-nine volumes have been published, was established in 1900. It is 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. It is the largest individual task of our Publishing Department, has been published promptly on time each two months during the year, and nearly 100,000 copies of the magazine have been printed, bound, and mailed. While costing the Museum about \$41,500.00 a year, *Natural History* enjoys a world-wide circulation of 13,000 copies bimonthly and has been the means of attracting to the Museum a number of our greatest recent benefactions.

SERIAL AND SPECIAL PUBLICATIONS

The printing of scientific papers has shown a considerable increase. *Anthropological Papers* totaling 1,150 pages came from the presses, as compared with 250 pages in 1927 and an annual average of 554 pages for the last twenty-one years. The output of other scientific work, exclusive of papers on Geology and Palæontology, has been 1,503 pages, as compared with 1,274 which is the annual average for the preceding five years, while for the Departments of Geology and Palæontology, 480 pages have been prepared, about equaling the output for 1928. The total number of scientific pages printed during 1929 was 3,133. In addition to these tasks, 792 pages of President Osborn's Proboscidea Memoir were at the end of the year being held in type awaiting further copy from President Osborn.

The Bindery. Early in 1929, the Bindery was transferred to new and larger quarters and was given some new equipment in the hope that it would be able not only to absorb the increased output of the press room but also that it would be able to increase considerably the number of books bound and rebound for the Library. So great, however, have been the increases in the demands upon the bindery that, despite its larger quarters, its new equipment, and its one additional employee, it has been impossible to increase the number of bound books to any noticeable extent.

A new and uniform system of buckram cloth binding is designed for both the *Bulletin* and *Memoirs*, similar to that long since adopted by the British Museum for its publications. In this form, complete editions of our regular and serial publications will be ready for sale, distribution or exchange. The Curator of Publications is preparing a complete and up-to-date list of our publications since the year 1881. *The American Museum Memoirs* will now be issued as separate volumes, opening with Curator Osborn's monograph *The Evolution of the Proboscidea* (in two volumes), upon which he has been engaged since the year 1907, aided both by the Jesup and J. P. Morgan Funds. It is expected that these two volumes will appear during the year 1930, covering the entire history of the mastodonts and elephants of the world.

Partly as collected reprints and partly as independent publications there are now five major series of special publications which have not yet been completed, as follows:

1. *Memoirs of the Jesup North Pacific Expeditions*, under which field work was conducted from 1897 to 1903, had as their chief goal the determination of the relations between the tribes living on the North Pacific Coasts of Asia and America. To crystallize the results of these researches, a series of publications, begun in 1898, are now approaching completion, ten volumes having been issued under the editorship of Professor Franz Boas of Columbia University. The eleventh and final volume, containing a summary of results, is now in preparation.

2. *The Zoology of the Congo*. Based on the Lang-Chapin Expedition of the years 1909 to 1915. Volumes I to XII, nine volumes completed, two volumes on birds, one on mammals nearly ready for the printer. The gift of several of the Trustees.

3. *The Brewster-Sanford Expedition for the Collection of South American Oceanic Birds*. Volume in preparation by Dr. Robert Cushman Murphy. The gift of Mr. Frederick F. Brewster and Dr. Leonard C. Sanford.

4. *The Central Asiatic Expeditions*. Volumes I to XII projected: *The Natural History of Central Asia*: Volume I, "The New Conquest of Asia," by Dr. Roy Chapman Andrews, in preparation; Volume II, "The Geology of Mongolia," by Dr. Charles P. Berkey and Professor Frederick K. Morris, completed; Volume III, "Geologic Studies in Mongolia," by Dr. Charles P. Berkey, Professor Frederick K. Morris, and Dr. L. Erskine Spock; Volume IV, "The Permian of Mongolia," by Dr. Amadeus W. Grabau, manuscript nearly ready for the printer; Volume V, "The Topography of Mongolia," by Dr. Charles P. Berkey, Major L. B. Roberts and Lt. W. P. T. Hill, in preparation; Volumes VI-XII, to be devoted to Botany, Geology, Palæontology, Archæology, Ichthyology, Herpetology and Mammalogy.

5. *The Whitney South Sea Expedition*. The gift of Mr. Harry Payne Whitney, resulting in the most superb collec-

tions of oceanic and insular birds in the world and awaiting scientific description and publication. Volume I, in preparation, by Dr. R. C. Murphy.

Progress of Researches. In scientific research the most important event of the year was the publication on December 31, by the United States Geological Survey, of Monograph 55, *The Titanotheres of Ancient Wyoming, Dakota and Nebraska*, by Henry Fairfield Osborn: Volume I, pages i to xxiii and 1 to 701, figures 1 to 639, plates I to XLII; Volume II, pages i to xi and 703 to 953, figures 640 to 797, plates XLIII to CCXXXVI; Appendix, "Eocene and Oligocene Titanotheres of Mongolia." This stupendous work has been in preparation since June 30, 1900, the date of Curator Osborn's appointment as Vertebrate Palæontologist of the United States Geological Survey. The entire manuscript, drawings and plates, prepared in the Museum, were transmitted to the Survey December 19, 1919. The officers and editorial staff of the Survey, with the hearty coöperation of the Public Printer, handled this stupendous mass of material with the utmost expedition with the aid of Curator Osborn's editorial staff in the Museum. This fully occupied both the Geological Survey and American Museum staffs so that the first bound copy did not appear until December 31, 1929, a little more than ten years after the original material was sent to the Survey. The American Museum is greatly indebted to the Director of the Survey, Dr. George Otis Smith, and his staff, also to the Public Printer, Honorable George H. Carter, for the splendid manner in which these two volumes finally issued from the Government Printing Office. An especially large edition of 1,600 copies is being printed, 854 of which will be distributed free by the Survey, 50 copies to the author, and the remainder placed on sale at \$9.00 per set.

ESPECIALLY VALUABLE GIFTS OF THE YEAR 1929

Of especial interest are the valuable gifts received from the following friends and members:

From American Relief Administration—Four reels of motion picture positive, "Master of Emergencies."

Mr. Otis Barton—Collection of fossil mammals from Lower Pliocene, Maragha, Persia.

From Mr. R. H. Beck—Ethnological collection from Southern Melanesia.

Mr. and Mrs. Charles L. Bernheimer—2 Spanish topaz; 10 Kunzite from Pala, California; Turquoise; Archæological collection from United States, Cuba, and Mexico.

Brooklyn Museum—Collection of 1,404 invertebrates; anatomical preparations.

Canadian Government—More than 1,000 Diptera from North America.

Mr. F. G. Carnochan—Eleven lizards, 13 snakes, 3 frogs, 37 mammals, 379 birdskins; from Africa.

Committee on World Friendship among Children—Doll, "Miss Japan," with accessories.

Mrs. Louise Constable—Frederick A. Constable collection of shells (35,000 specimens); also series of corals, gorgonians, echinoderms.

Mrs. F. J. Dixon—Ninety mounted birds, three squirrels, collection of butterflies.

Dr. Jonathan Dwight—Fifty-five thousand birds, chiefly from North and Central America.

Friends and colleagues of Dr. Dean—Bronze portrait tablet of Bashford Dean.

Mr. Allan Hancock—Nine reels of film "Galapagos" and "Death Trap of Ages."

Mr. Jacob Herbert—German police dog "Fellow."

Mr. and Mrs. Martin Johnson—Forty thousand feet of motion picture positive on "Lions."

Mr. Gilbert C. Klingel—Motion picture negative "Lizard-life in Haiti."

Mrs. Jessie Y. Loomis (in name of Ernest Yates Loomis)—Collection of 200 skulls, 60 casts of faces and heads, 60 busts, 10 casts of brains, etc. (350 specimens).

Mr. James G. Manchester and Mr. Ernest Weidhaas—Group of Tourmaline crystals.

E. Hope Norton—Two hundred and six archæological specimens from Ecuador.

Dr. L. C. Sanford—Seven hundred and seventy-six birdskins.

Springfield City Library Association, Springfield, Mass.—One hundred and eighty-seven mounted birds from India.

From Dr. C. H. Townsend—Skin and skeleton of the fur seal.

Mr. William J. Underwood—Twelve hundred colored lantern slides.

United Fruit Company—Twelve sets of 46 slides, "Trip to Banana Land"; 2 reels of film, "A Traveler's Impressions of Jamaica" and "Banana Land."

Mr. W. K. Vanderbilt—Seventeen original paintings of fishes by William Belanske, with reproductions by Rudge.

Mr. Ernest A. Van Vleck—Mounted Rocky Mountain wapiti head, from British Columbia.

Mr. Beekman Winthrop—Heads of six mountain sheep, head of mule deer.

CHANGES IN THE BOARD OF TRUSTEES

It is with a heavy heart that I report the passing away on August 22, 1929, of our beloved colleague and friend, Mr. Percy R. Pyne. Mr. Pyne had been a member of the Board for twenty-nine years, second only to the President in length of service. His loss is keenly felt not only by the Trustees but by the members of the Scientific and Administrative Staffs as well. At its meeting on December 2, 1929, the Board of Trustees officially recorded its appreciation of Mr. Pyne's services by adopting the following resolution:

The loss of our Secretary is a great sorrow to us all because he was honored and beloved by all the members of our Board, especially by those who knew him personally. Since 1874 he had been a friend and companion of the President in many undertakings for student and for public welfare. He inherited from his father, Percy Pyne, and shared with his brother, M. Taylor Pyne, a keen sense of public responsibility and service which he manifested throughout his entire life. His presence at the meetings of the Board and his regular visits to members of the Scientific and Administrative Staffs of the Museum were always delightfully welcome. With malice toward none, a genial friendship for all those who were in any degree worthy of it characterized his life. As a matter of record in the history of the American Museum, it is a pleasure to make the following record from the Board of Trustees, the Executive Committee and the Buildings and Plans Committee of which he was Chairman for several years:

1900: Feb. 12, elected Trustee; elected member of Executive Committee, reelected 1901, 1902, 1903, 1904, 1905, 1906, 1907, 1908; 1901: Nov. 11, Mr. Pyne and Mr. Kissel

appointed to make suggestions with reference to the system of keeping the accounts as practised up-to-date; 1903: Feb. 9, elected member of Membership Committee, reelected 1904, 1905, 1906, 1907; 1908: March 24, elected Chairman of Nominating Committee, reelected, 1909, 1910, 1911, 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920, 1921, 1922, 1923, 1924, 1925, 1926, 1927, 1928, 1929; Dec. 16, Messrs. Pyne and Trevor appointed sub-committee to take up with Director question of adjustment of salaries of employees; 1909: Dec. 20, Mr. Pyne appointed committee of one to consider sculptor for Jesup bas-relief; Oct. 20, appointed with Mr. Dodge to draft resolution in re death of Mr. Cuyler; 1911: elected Secretary *pro tem.* to fill vacancy due to the death of Mr. Robb; Feb. 20, elected member of Auditing Committee, reelected 1912; Feb. 20, elected member of Committee on Buildings and Plans; Oct. elected Chairman, reelected 1912 and served until 1926; 1912: May 6, elected an Associate Benefactor; 1913: Feb. 13, appointed member of Pension Board.

The President also desires to make formal record of many of his larger gifts, contributions, and finally his bequest, especially to the Exhibition Halls of The American Museum of Natural History:

African Elephant Group Fund.....	\$1,000.00
Alaska Mammals Exploring Fund.....	1,606.14
Audubon Paintings.....	50.00
Horse Fund.....	500.00
Java Expedition Fund.....	200.00
New Zealand Group Fund.....	1,500.00
Patron.....	1,000.00
Permanent Endowment.....	2,500.00
Special Biological Research Fund No. 2....	2,000.00
Special Grant for 1916.....	1,000.00
South African Ethnological Fund.....	2,500.00
Subscription of Trustees.....	48,987.65
Meredith H. Pyne Memorial Fund.....	25,000.00
Payment by the Executor of the Estate of Percy R. Pyne.....	25,000.00
	<u>\$112,843.79</u>

Other gifts are as follows:

- 1879 One mounted specimen of Rocky Mountain Goat.
- 1885 125 Specimens of East Indian and Florida corals,
inclusive of Echinoderms, Crustaceans, etc.
- 1890 Brantz Mayer Collection of stone implements from
the headwaters of the Mississippi.

- 1902 March. Oil painting—Red-eyed Vireo by John J. Audubon. Oil painting—Myrtle Warbler by John J. Audubon.
- 1907 (with J. P. Morgan) Collection of remains of Alaskan Mammoth. (donor in part) Douglas Collection, gathered by Mr. Douglas in Barotseland, South Africa.
- 1908 (with J. P. Morgan) Collection of Mammoth and other fossil remains from Eschscholtz Bay, Alaska, obtained by L. S. Quackenbush.
- 1923 February. (donor in part) Bronze bust of Pasteur, by P. Dubois.
- 1926 January. One Abalone shell (polished), this shell was once in the possession of King Louis Philippe of France, collected on coast of France.

At the last meeting of the Board which he was able to attend, May 6, 1929, he was accompanied by Mrs. Pyne to make the personal presentation, for the center of the future African Hall, of the African Elephant Group in memory of their beloved son,

MEREDITH HOWLAND PYNE

Over this noble memorial the following inscription is proposed:

MEREDITH HOWLAND PYNE MEMORIAL AFRICAN ELEPHANT GROUP

THE PREPARATION OF THIS GROUP HAS BEEN
PRESENTED BY MR. AND MRS. PERCY R. PYNE
AS A MEMORIAL TO THEIR SON
WHO GAVE SO MUCH OF HIS LIFE FOR HIS
COUNTRY IN THE AVIATION SERVICE

It has been given to few American families to contribute so much to the intellectual and social life of our country as to the Pyne family: Percy Pyne, Sr., Moses Taylor Pyne, Percy R. Pyne, our Trustee, and the only sister, Albertina T. Pyne (Mrs. Archibald D. Russell). Let us all follow their noble and inspiring example as far as it lies in our power.

Fortunately few changes in the membership of the Board have been necessary during the year. We are glad to announce that at the May meeting of the Board Mr. Ogden L. Mills was unanimously elected to succeed his father in the Class of 1932, while in December Mr. Henry W. Sage was

unanimously elected to fill the vacancy in the class of 1930 due to the death of Mr. Pyne. At the Annual Meeting held January 6, 1930, the following Trustees were reelected in the Class of 1934:

GEORGE F. BAKER
CHAUNCEY J. HAMLIN
OLIVER G. JENNINGS

HENRY FAIRFIELD OSBORN
GEORGE D. PRATT
A. HAMILTON RICE

At this meeting also the officers were reelected for 1930, and Mr. S. Brinckerhoff Thorne was elected Secretary to succeed Mr. Pyne. An amendment to the Constitution, increasing the membership of the Executive Committee from nine to eleven, was unanimously adopted, but as yet the two new members of the Committee have not been elected.

CHANGES AND PROMOTIONS IN THE SCIENTIFIC STAFF

Again death has laid a heavy hand on our Scientific Staff. On February 9th, 1929, Dr. Frederic A. Lucas, Honorary Director, passed away after a distinguished service of more than eighteen years as Director and as Honorary Director. The Trustees recorded their appreciation of Dr. Lucas' important contribution to the development of the Museum by unanimously adopting the following resolution on February 20th:

RESOLVED, That the Trustees desire to record their deep sense of loss, not only to the Museum but to the world of Science in general, sustained through the death of

DOCTOR FREDERIC A. LUCAS

who passed away on February 9, 1929.

After a long and experienced career in museum work in Rochester, Washington and Brooklyn, Doctor Lucas was called to the Directorship of The American Museum of Natural History in 1911, and through his clear understanding of Museum problems, his experience in technical museum methods, his facility of expression in popular writings has widely extended the usefulness of the Museum in Science and in Education. He served as Director with conspicuous ability from 1911 to 1923, since which time as Honorary Director he

has rendered valuable service. He has taken charge of Forestry Hall and under his supervision the exhibition value of the Jesup Collection of North American Woods has been greatly improved. He has looked after the Public Health Exhibit since the retirement of Curator Winslow and has installed it in Education Hall. He has been directly responsible for the development of the Hall of Primates and the Synoptic Hall of Mammals and has been an invaluable adviser in the Hall of Ocean Life.

Because of Doctor Lucas's special training in the various branches of science and his ability to popularize science his passing creates a vacancy which will be extremely difficult to fill.

By the members of the Scientific and Administrative Staffs Doctor Lucas's death was keenly felt and his genial presence has been greatly missed. At a joint meeting of the Scientific and Administrative Staffs, held February 11, 1929, the following tribute was paid to Doctor Lucas's work:

RESOLVED, That the scientific and administrative staffs of The American Museum of Natural History sorrowfully record the death of Frederic Augustus Lucas, Honorary Director.

Trained in the hard school of experience, and whetted by a never-failing thirst for knowledge, Doctor Lucas was a man of exceptional attainments. He was much-traveled and widely read; his researches in the field of comparative anatomy were of a high order of excellence; his effective ideas as to what a museum should be, and his gift for expounding scientific knowledge in clear and simple language gave him a commanding position as a museum educator.

Most of all, we think of him as a genial and encouraging fellow-worker, with whom fairness, good humor and kindness were cardinal virtues. For eighteen years it has been our privilege to labor with Doctor Lucas during the period of the Museum's most active growth and most notable accomplishment. His part in this development has been a large one, and his term as Director a fitting climax to his career as a pioneer and constant leader in the building of modern museums.

He has left this world, ripe in years and rich in friendship, with his work well done. As he himself would wish, we think of him now, as we shall in the future, far more in pride than in sadness.

The Scientific Staff suffered another great loss through the accidental death of Mr. Waldron De Witt Miller, Associate Curator of Birds. Mr. Miller had been in the employ of the Museum since 1903, and a member of the Scientific Staff

since 1910. The members of the Administrative and Scientific Staffs expressed their appreciation of Mr. Miller's service to the Museum by adopting the following resolution at a meeting held August 12, 1929:

WHEREAS, for the past twenty-six years Waldron De Witt Miller has been a devoted member of our Scientific Staff, giving to the Museum and to the countless others who have called upon him the benefit of his unequalled knowledge of birds and of the local fauna and flora,

Therefore, be it resolved that we his colleagues, to whose requests for information and assistance in our work he has never failed to respond, by placing at our disposal his own rich stores of knowledge, express our high estimate of his value as a scientific associate and our profound sorrow at the tragedy which has robbed ornithology of one of its leading students.

Be it also resolved that a copy of these resolutions shall be transmitted to Mr. Miller's family, as an expression of our very deep sympathy.

During the year (on February 22) we also lost by death, Dr. Jonathan Dwight, Research Associate in North American Ornithology. Dr. Dwight came to the Museum in 1904. He built up his collection of North American birds until it numbered about 60,000 specimens, and it is one of the most notable in existence. By devoting his own resources to developing this collection, which was always at the disposal of students on the same terms as the Museum's own material, Dr. Dwight enabled the Department of Birds to turn its energies and funds in other directions. Dr. Dwight made many gifts of specimens to our collections. In 1920 he expressed by letter his intention of bequeathing his collection to the American Museum. He was a specialist on plumage and molt. His broad knowledge will be greatly missed.

The following promotions and appointments were made in the Staff during 1929: Mrs. Ethel J. Timonier was promoted to Associate Editor of Scientific Publications; Miss Ethel L. Newman, A.B., was promoted to Assistant Registrar; George C. Vaillant, Ph.D., was promoted from Assistant Curator to Associate Curator of Mexican Archaeology; Mr. Walter W. Holmes was appointed Field Associate in



THE AGE OF IRON

Scene in Hallstatt region, Upper Austria

One of five murals for the Morgan Memorial Hall being painted by Will S. Taylor
Through J. P. Morgan Fund

Palæontology; Charles E. Burt, M.S., was appointed Assistant Curator in the Department of Herpetology and Experimental Biology; Edward M. Weyer, A.B., was appointed Special Assistant in the Department of Anthropology, from June 1–September 30; Ronald L. Olson, Ph.D., was appointed Assistant Curator of South American Archæology; Mr. John T. Zimmer was appointed Associate Curator in Ornithology to the position vacated through the death of Mr. W. De W. Miller.



II. EDUCATIONAL AND SCIENTIFIC REPORTS

GEORGE H. SHERWOOD, Director

In no division of the Museum's work is the need of an increased endowment so evident as in the scientific departments. Unfortunately, whenever it becomes necessary to curtail expenses, it is the exploration and research of the Museum that have to suffer most. Overhead expenses must go on. Exploration, research, and publication can be suspended. The necessary financial retrenchment of the past two or three years has reduced to a minimum all allowance for the research and publication side of the Museum, until in 1929 almost none of the normal income could be devoted to exploration, which consequently has had to depend upon the gifts of friends of the Museum. The disastrous effect of this situation in the scientific progress of the Museum can be more fully realized when it is borne in mind that during the past two years the Museum has suffered severe losses in its scientific personnel. Death has taken Honorary Director Doctor Frederic A. Lucas; Dr. Pliny E. Goddard, Curator of Ethnology; Dr. Bashford Dean, Honorary Curator of Ichthyology; Mr. Charles W. Mead, Honorary Curator of Peruvian Archæology; Mr. W. DeW. Miller, Associate Curator of Ornithology; Dr. Jonathan Dwight, Research Associate in North American Ornithology, while Dr. W. D. Matthew, Curator of Vertebrate Palæontology, recently resigned to accept a professorship in the University of California. These men were all experts in their respective fields. It has been impossible to replace them because of the present critical financial emergency of the Museum. Thus, in the depletion of our scientific personnel, research and publication are seriously retarded, and the Museum is losing prestige in science. It is hoped that this deficiency in the allotment of funds for research and publication will be one of the first things remedied when the new Sixtieth Anniversary Endowment is available.

In spite of the handicap of this forced retrenchment, the achievements of our scientific departments for the year 1929 are notable, as will be seen by an examination of the reports of the department chiefs, which the Director has the honor to present herewith.

Although in another section of this report the President and Scientific Staff of the Museum pay tribute to the life and work of

Honorary Director Frederic A. Lucas, the Director desires to express here his keen regret at the passing of his colleague and close associate for eighteen years, and more and more does he appreciate the splendid service that Doctor Lucas rendered to the Museum in coördinating and popularizing the public exhibits and in meeting in his always gracious and friendly way the inquiries of the numerous visitors seeking definite information on natural history subjects.

ASTRONOMY (Clyde Fisher, Curator).—Astronomy attracts and holds the attention of an increasing number of persons in the Metropolitan district, as the opportunities for knowledge and understanding are presented. The department of Astronomy, though young and small, is putting forth brave efforts toward realizing the ideals of the American Museum of Natural History as an educational institution. In these efforts our gratitude is hereby extended to those responsible for the encouragement occasioned by the increasing number of astronomical articles, editorials and other notices appearing in the press.

The Amateur Astronomers Association, after two and one-half years, continues to grow steadily and to function in an encouraging manner. Meetings have been held twice a month, except for three summer months, and the programs have included our leading astronomers. The series for the first half-year began with Dr. Seth B. Nicholson of Mount Wilson Observatory, who discovered the ninth satellite of Jupiter, and closed with Dr. W. H. Steavenson of Greenwich Royal Observatory, co-author of "The Splendour of the Heavens." The total attendance of the eighteen meetings of the year was 12,528, the maximum occurring at the showing in November of the motion picture film entitled "The Einstein Theory of Relativity."

During the year, classes in Astronomy were conducted for members of the Amateur Astronomers Association by Miss Jean Conklin, Mr. Paul Shogren, Mr. Charles A. Federer, Jr., Mr. Frank Reh and Mr. Samson L. Toplit. The total attendance of these classes for the year was 1,596.

The *Amateur Astronomer*, the monthly periodical of the Amateur Astronomers Association, has been appearing regularly under the editorship of Dr. Clement S. Brainin of the Department of Astronomy of Columbia University.

Within a few weeks of each other, the Amateur Astronomers Association lost by death its two honorary members, Mr. Garrett P. Serviss, author and lecturer, who has done so much to popularize the subject of astronomy, and Mr. Worcester Reed Warner, astronomical engineer, who on three separate occasions built the world's largest telescope. The loss of these members to the Society was the greater because they were not merely honorary members, but they took active part, both being frequent attendants at the meetings and both having spoken before the Society.

The Curator has written the following articles, "New Worlds in the Making" and "The Ruddy Wanderer of the Sky," both published in *Natural History*, and a memorial article entitled "Garrett P. Serviss,—One Who Loved the Stars," published in *Popular Astronomy*.

The Curator has given a considerable number of lectures on astronomy during the year. His audiences have included the following: Philadelphia Academy of Sciences, Rittenhouse Astronomical Society of Philadelphia, Cooper Union Forum of the People's Institute, Brooklyn Museum, Field Museum of Natural History (three), Amateur Astronomers Association, Junior Astronomy Club, New York Training School for Teachers, Engineers' Club of the New York Telephone Company, and Bond Club at Harvard College Observatory. Besides these, a number have been given in various high schools of the city and for the elementary school pupils at the American Museum. Two series of six each, known as Cultural Courses for Elementary Teachers and for Teachers of High Schools and Colleges, were given by the Curator in collaboration with Miss Elizabeth Ann Eckels of the Museum's Department of Public Education.

During the year the curator has taken part in three radio broadcasting programs, conducted by the American Museum, namely, through WRNY and WNYC and a program conducted by the Amateur Astronomers Association through WOR.

Dr. Fisher represented the Museum at the May meeting of the American Association of Variable Star Observers at Washington, D. C.; the October meeting at the Harvard College Observatory; the August meeting of the American Astronomical Society at the Dominion Observatory, Ottawa, Canada, and the December meeting at Harvard.

Twenty-five astronomical paintings by D. Owen Stephens,

former student of Astronomy at Swarthmore College, were on exhibition for a few weeks in Education Hall. Mr. Stephens, whose home is in Moylan, Pennsylvania, is an unusual combination of scientist and artist. He brings a certain realism to his work, but treats it with imagination. He has painted the night with an effectiveness that few artists have been able to achieve.

The Department received as a loan fifteen pieces of astronomical apparatus from Miss Susan Dwight Bliss and thirty-three sun-dials, etc., from Mr. John C. Tomlinson, Jr. These make a valuable addition to our collection of sun-dials, hour-glasses, compasses, sextants and astrolabes.

A gift of seventy-nine books on astronomical subjects was received by the Amateur Astronomers Association from Mrs. J. D. Adams, and a loan of one hundred and thirty-seven books on astronomy was received from Mr. George A. Galliver.

MINERALS AND GEMS (Herbert P. Whitlock, Curator).—The year 1929 has shown a marked increase in the number of student visitors using the collections of the Morgan Hall over the number recorded for 1928. The months of March, April, May, June, October, November and December each shows a total of over a thousand, and the total for the year gives 11,474 student visitors, compared with 7,677 for 1928.

In pace with the notable increase in the popularity of the mineral and gem collections among student visitors has come a corresponding demand on the part of the public for special information on matters connected with the exhibited collections of the Department. The bulk of the Department's correspondence has doubled that for the preceding year, and the number of visitors seeking consultation with the Curator has increased three-fold that of 1927.

In addition to the lectures "How Atoms Build," "Elements in the Earth's Crust," and "Some Common Minerals," the Curator has addressed the Brooklyn Nature Club on "Clouds" and the Young Men's Christian Association "Hobby" groups over the radio.

The Curator has accepted an appointment as Honorary Curator of Minerals in an advisory capacity in the Wadsworth Atheneum and Morgan Memorial at Hartford, Conn.

During the year the Curator has published two papers in

American Museum Novitates, "Danburite from Obira, Japan," and "A Crystallographic Note on Greenockite from West Paterson, New Jersey"; also he has contributed to *Natural History* popular articles on "The Weather Prophets of the Sky" and "How Atoms Build." Crystallographic research is now in progress on a suite of pyrite crystals from Bingham, Utah, which have been loaned to the Department for study.

A magnificent group of black tourmaline crystals, comprising 32 large and perfectly formed individuals from Bedford, N. Y., was presented by Messrs. James G. Manchester and Ernest Weidhaas, who collected and reassembled the group. Two large and finely developed Baveno twin crystals of microcline from the Organ Mountains of New Mexico, and a number of interesting and well developed twin crystals of cerussite were donated by Professor R. Leroy Benitz. Mr. C. G. Poore has donated among other specimens a beautiful sphærocobaltite from Boleo, Lower California.

The Gem Collection has been enriched through the generosity of Mr. and Mrs. Charles L. Bernheimer with a splendid suite of Kunzite including a large and finely colored gem crystal and nine cut gems, also two magnificent Spanish topaz gems of 464 and 492 carats respectively, and a large and beautiful mass of turquoise.

The Department has acquired through the Bruce Fund some notable examples of carved objects in various semiprecious gem materials executed by Chinese craftsmen.

Of these the most impressive is a turquoise statuette of the Chinese "Goddess of Mercy," $4\frac{1}{2}$ inches high, beautifully executed, and probably dating from the eighteenth century. An irregular flat tray, carved from Siberian malachite with a motive of lotus leaves and frogs in medium relief, is a particularly fine work in this very attractive material. There are two rock crystal snuff bottles, one of which is elaborately decorated with a landscape painted on the inside surface of the bottle, and a pair of somewhat conventionalized elephants carved from rose quartz and standing five inches high.

Representative of objects more closely related to jewelry, the series contains five groups of "drops" or pendants carved from lapis lazuli, white jade, amethyst, rose quartz and carnelian. Many of these are executed with the artistry and skill that mark them as old pieces, a fact that is also attested by the worn edges on

some of the carvings. Also carrying us back to the old China of the eighteenth century is a group of four buckles of white jade carved with dragon heads.

GEOLOGY AND INVERTEBRATE PALÆONTOLOGY (Chester A. Reeds, Curator):—Research in the Department of Geology has been confined to the preparation of maps of the Pleistocene glaciations in the Northern and Southern Hemispheres; the suggested correlation of solar radiation, weather and varved clay variations; Base Maps of the World; the editing of Professor A. W. Grabau's manuscript on the "Permian of Mongolia," and brief scientific papers as noted below.

Assisted by a grant of \$2700 from the Carnegie Institution of Washington, the Glacial Committee, consisting of Professors F. Leverett, C. P. Berkey, Dr. I. Bowman and Curator Reeds, which was appointed by President Osborn in 1928, concluded its work on November 12, 1929. The six large preliminary wall maps showing the glaciation of the Northern Hemisphere, which were compiled last year by Dr. E. Antevs, under the direction of the Committee, were revised by Dr. Antevs between February 18 and July 1. Dr. Antevs also prepared an accompanying paper of 110 typewritten pages concerning the sources and degree of differentiation of the Pleistocene drift deposits in the more prominently glaciated territories of both the Northern and Southern Hemispheres. At the suggestion of Curator Reeds, the revised data were entered on twenty-one sketch maps by Messrs. George Pinkley and E. J. Raisz, draftsmen. The drafting of these maps under the direction of Curator Reeds was completed November 12. These maps and Dr. Antev's paper were then submitted for publication in Volume XL, No. 4, of the *Bulletin* of the Geological Society of America.

An edition of 900 copies of each of seven "Base Maps of the World" was printed during the course of the year. In December one hundred fourteen sets of these maps were distributed gratis to leading geographical societies and individuals at the request of Dr. A. Hamilton Rice, Chairman of the Map Committee. In response to two thousand circulars, which were sent out in November, one hundred and eighty copies of these maps were sold during 1929.

During the spring and autumn months Curator Reeds assisted by Miss C. M. Beale edited Professor A. W. Grabau's manuscript on "The Permian of Mongolia," Volume IV, *Natural History of*

Central Asia, comprising 1122 typewritten pages. The bibliography and references in the text were thoroughly revised by Miss Jan-nette Lucas, Librarian of the Osborn Library, during the summer months.

During 1929, Curator Reeds assisted by Miss C. M. Beale edited fourteen *Novitates* papers and four *Bulletin* articles comprising four hundred and eighty printed pages.

Curator Reeds gave five addresses during the year: two before the teachers of High Schools and Colleges of New York City; two before the National Academy of Sciences at Princeton, New Jersey, and one before the Geological Society of America.

An article by Curator Reeds was published in *Natural History*. Dr. Reeds also prepared two articles, "Weather and Glaciation," and "Base Maps of the World," for the *Bulletin* of the Geological Society of America,

A four-page circular on "Base Maps of the World" was prepared; two thousand copies were printed and distributed.

Doctor L. E. Spock, Jr., as temporary assistant, prepared and installed an exhibit of pre-Cambrian rocks in the upright case to the left of the entrance to the Geology Hall. In a nearby alcove case he also installed an exhibit of common rocks, classified as to rock families for the use of teachers and students. Mr. George Pinkley prepared a number of colored columnar sections illustrating the order of deposition of the formations and color schemes, which are in evidence on the topogeologic models.

The special band saw, grinding and polishing apparatus, which was set up in the southeast basement laboratory last year, has, under the operation of Mr. P. B. Hill, sectioned a number of fossil Proboscidea teeth along a curved line, as directed by Professor Osborn. A complete skull of an elephant was also sectioned. The skull of a mastodon and additional Proboscidea teeth have been submitted for sectioning.

Mr. George Pinkley, A.B., who was employed in January for six months as draftsman on glacial maps and general assistant in the Department, was continued from July 1 to December 31. Mr. Joseph Monahan, assistant in Invertebrate Palæontology, resigned on July 1, to accept a position in the Buffalo Museum of Science at a much higher salary. Mr. Sydney Helprin, B.S., was engaged November 2 to December 31, to care for the seismograph in place of Mr. P. B. Hill so that the latter might devote all his time to the

sectioning of fossil Proboscidea teeth for Professor Osborn. Mrs. Anna Greene Schafer was employed September 30 to December 31 to assist in the clerical work of the Department.

While spending his vacation in central Europe, Curator Reeds visited points of special geologic interest in Austria and Germany, and did some field work at Badgastein, Heidelberg, Dresden and at Zehdenick near Berlin. Miss Edith Marks, Secretary, attended to the administrative duties of the Department during Dr. Reeds' absence.

Mr. Bert Zellner, general assistant, entered a large number of the accessions received during the year, the more important of which are:—19 fossil plants from Syria, by exchange with the American University at Beirut; 13 shells and 1 coral limestone from Syria, gift from the American University at Beirut; 21 metatypes, a gift from Dr. Carroll Lane Fenton; 52 fossil ferns from Pittston and Scranton, Pennsylvania, and 12 specimens of Carboniferous fossils received in exchange from the Everhart Museum, Scranton, Pennsylvania; 26 iron ores from England, exchange from the Geological Survey and Museum, London, England; clay, rock and sand specimens from Germany collected by Dr. C. A. Reeds; 1 block of granitic gneiss from James Peak, Colorado, a gift from the Colorado Museum of Natural History; and the following purchases: 30 lantern slides of volcanoes, 7 meteorodes (Brenham, 900 grams), geologic map of the Grand Canyon, and a meteorite from Zaffra, Oklahoma.

EXTINCT VERTEBRATES (Barnum Brown, Curator-in-charge): —Practically the entire mammal collection of twenty-odd thousand specimens has been reconditioned and placed in new storage, thus making two rooms available for offices as well as storage.

Several skulls of large mammals from the Asiatic collection have been placed on exhibition.

Five skeletons, including those sold to or exchanged with other institutions, have been restored and prepared for mounting; a *Moropus* and a *Diceratherium* skeleton sold to the British Museum, and a *Bison taylora* skeleton to the Field Museum in exchange for a South American Mastodon skull and jaws—*Cordillerion andium*.

Notable among the year's accessions are thirty-eight (38) cases, mostly mammal skulls, jaws, and parts of skeletons, from the Central Asiatic collection of Tertiary mammals prepared in the

laboratory at Peking. These have in part been conditioned ready for study and determination.

A unique Pleistocene elephant skull—*Palæoloxodon antiquus*, from Pignataro, Italy, was presented by Honorary Curator Henry Fairfield Osborn, and a large collection of small mammal jaws and limb bones was secured from the Phosphorites of Quercy, France.

An expedition to the Jurassic beds of Utah located two Sauropod dinosaur skeletons—*Brontosaurus* and *Diplodocus*, and a second expedition to beds of the same age in Utah located two other skeletons—*Brontosaurus* and an unknown type of carnivorous dinosaur, making four skeletons determined and marked for future excavation.

An expedition to the Puerco Eocene beds of New Mexico secured two hundred (200) identifiable specimens, including skulls, jaws, and parts of skeletons of rare early Eocene mammals, and a mountable skeleton of a rare crocodile.

Mr. Childs Frick's expeditions to New Mexico, Texas, and Nebraska have secured additional large collections from the Pliocene deposits, and an expedition to Alaska, in cooperation with the Alaska College, obtained a large collection of Pleistocene mammals, including a unique series of twenty-five skulls and fifty jaws of *Bison crassicornis*. This material was secured through the courtesy of the United States Smelting, Refining and Mining Company.

The Age of Mammals Hall is in process of rearrangement. Many additional wall cases have been introduced and specimens are being remounted.

The Proboscidea Memoir, by Professor Henry Fairfield Osborn, is nearing completion, and other members of the department have published fifteen scientific papers in *Novitates* and in the *Bulletin*.

It is recommended that in 1930 two expeditions should be sent into Eocene fields, known to be limited, from which collections are much desired, and in which, if worked by another institution, fossils will not again be available for 20-30 years.

In order to open the new Dinosaur Hall available two years hence, an increased laboratory output becomes necessary, and the employment of two new men for this department in 1930 is strongly recommended.

LOWER INVERTEBRATES (Roy Waldo Miner, Curator):—The chief energies of the modeling staff have been devoted to the Coral Reef Group in the Hall of Ocean Life. This is the most extensive and one of the most difficult pieces of exhibition work ever undertaken by this department. It is estimated to be equivalent to about thirty ordinary groups. Nevertheless, the under-sea portion of the exhibit has advanced rapidly. The installation, and coloring of all the heavy coral pieces have been completed many of the sea fans and other gorgonians have been shaped and colored, the preparation of the framework for the sea-surface is under way, the sea bottom and the coral cave have been modeled in their main features, the iron work for the case has been erected, and preparations have been partly completed for illuminating the group.

The iron framework for the casing of the Sponge Fisheries and Pearl Fisheries Groups which will flank the Coral Reef Group on either side, has been partly completed and plans for fieldwork for the Sponge Group are being initiated.

An exhibition collection of shells selected from the magnificent Constable Collection, bequeathed to the Museum last year, has been installed in the gallery at the right of the entrance.

A fine series of eight annulate models has been completed and installed in the Darwin Hall to illustrate adaptation in this group. The most beautiful of these shows the delicate breathing plumes and graceful tentacles of the seaworm *Amphitrite*. These models are due to skilful glass-modeling by Mr. Herman Mueller and exquisite coloring by Mr. Worthington Southwick. The field studies were made by Dr. George H. Childs under the direction of the Curator.

Enlarged models of an amphipod crustacean and the common rock barnacle are in process of construction.

During 1929, Research Associate Stunkard's paper on the Trematodes of the Congo Collection appeared in the *Bulletin*; three papers by Research Associate Treadwell on annulates from the West Indies, Florida, Lower California, British Somali Land, and Puget Sound were published in *Novitates*; and Part V of the monograph of North American rotifers was published by Research Associate Myers in collaboration with the late H. K. Harring of the U. S. National Museum. Mr. Myers is now engaged upon Part VI of this work. A paper by Miss Lee Boone was

published in the *Bulletin*, entitled "A Collection of Brachyuran Crustacea from the Bay of Panama and the Fresh Waters of the Canal Zone," and three other articles by her are in press or in manuscript.

Associate Curator Van Name has nearly completed his extensive monograph on the "Land and Fresh Water Isopods of America," and this will be ready for press early in the coming year. His report on the ascidians of Porto Rico and the Virgin Islands is about to appear in connection with the publications of the biological survey of these Islands by the New York Academy of Sciences. Mrs. Ida S. Oldroyd, in collaboration with Curator Miner, has nearly completed a report on the mollusks of the Museum's Angola collections, while Dr. Leslie R. Chambers of Princeton University is writing a paper on nudibranch anatomy based on Museum material. Curator Miner has continued his work on his book on "Oceanic Life" and on the "Handbook of Seashore Life." During the past year, he published articles in *Natural History*, entitled, respectively, "Andros, an Island of the Summer Seas" and "Outposts of the Sea."

During June, July, and August, Curator Miner was engaged in field work at Mount Desert Island, Maine, in connection with further exhibits in the Rotifer, Echinoderm and Arthropod Alcoves in the Darwin Hall. He was accompanied by Research Associate Frank J. Myers and Herman Mueller and Dr. George H. Childs of the modeling staff. Headquarters were established at the Mount Desert Island Biological Laboratory through the courtesy of the officials of that Institution. The results of the expedition comprise a series of thorough studies of certain marine and fresh-water invertebrates, including an excellent set of sketches in color by Dr. Childs. These are being utilized as the basis for new models which are now under construction.

An important addition to our laboratory facilities soon to be realized has been made possible by an appropriation by the City of \$10,000 for the erection of a new Mollusk Laboratory and Study Collection Room adjoining the entrance corridor to the Hall of Ocean Life. This much-needed improvement will make possible convenient handling of the extensive and valuable shell collections of the Museum exhibited on the balcony of that hall, and will greatly facilitate research on this group.

Work on the cataloguing of the important Frederick A. Con-

stable collection of shells has proceeded continuously during the year, and the task is approximately one-third completed, with 4,079 lots catalogued, comprising 11,343 specimens, covering 3,097 species, of which 1,299 are new to our collections. All are excellent examples worthy of exhibition. In addition, 3,815 specimens were added to the general invertebrate catalogued collections. These are recorded in 834 lots, comprising 513 species, of which 233 are new to the Museum; 14 types and 3 paratypes are included.

Extensive accessions, many of which await identification and cataloguing, have been listed elsewhere. Noteworthy among these are 323 identified annulates from Professor A. L. Treadwell, including 12 types and 1 paratype; 33 mounted and identified rotifers, from Mr. Frank J. Myers, including 2 types; 42 specimens of shrimp from China, including 20 species, donated by Charles J. Shen; 47 specimens (39 species) of fresh-water sponges, including 2 cotypes, from China, donated by Dr. Nathaniel Gist Gee; about 4,000 land and marine shells and other invertebrates bequeathed by the late Mrs. A. C. Damon; about 1,400 invertebrates donated by the Brooklyn Institute of Arts and Sciences; a collection of crustaceans including cave fauna from the Noble-Marshall expedition to Texas and Missouri; a collection of invertebrates from Mount Roraima, brought by the Lee Garnett Day Expedition of 1927; a small collection of shells and arthropods made by the Tyler Duida Expedition; and 2 rare bivalve shells from Kadiak Island, Alaska, donated by Mrs. Ida S. Oldroyd.

INSECTS AND SPIDERS (Frank E. Lutz, Curator):—During 1929, very satisfactory progress was made in the Department of Entomology along several lines but particularly that of rearranging the public exhibits.

The department's exhibition hall is known as the Hall of Insect Life, and every effort is being made to convey the truth that insects are not only by far the largest group of animals but that they really live an exceedingly active life. Although a few kinds of insects are "important" because of the immense damage they inflict upon man, many more kinds are important because of the benefits they confer, and most of them have interesting habits or novel solutions to the problems of living.

Although entomology furnishes a wealth of exhibition material, we have chosen to confine the entire subject to one small hall in

order that the presentation may be more unified. This has necessitated a great deal of thought as to what shall be shown and as to how the material shall be grouped; naturally, also, there has been and until the last specimen is placed will continue to be considerable shifting and regrouping.

The fundamental idea of the hall is that it is a text on insect life. Each section of the exhibition is a chapter in the book, and each separate exhibit is a paragraph. The sections are numbered consecutively, partly to make it easy for teachers who wish to direct students to specific exhibits and partly to help the individual visitor who may wish to follow the subject in a definite way instead of wandering aimlessly from place to place.

As a part of the effort to tell about the life of insects, we have for several years been experimenting with the exhibition of insects which are actually alive. It is fairly easy to keep certain kinds alive in exhibition cages, and our visitors have clearly been greatly interested. The problem on which we are working is to select by actual trial the species best adapted to this work and the best methods of display. We are apparently nearly ready to make this a definite feature of the Hall of Insect Life.

Research work has not materially suffered as a result of this emphasis on exhibition. Mr. Curran is publishing a notable series of reports on the Diptera which he collected in Panama and at our field station in the Ramapo Mountains. Mr. Schwarz has completed his study of an unusually complete collection of *Melipona*, a genus of stingless bees found in the American Tropics. Dr. Lutz published a report on his observations concerning the leaf-carrying activities of certain ants at the Barro Colorado laboratory in Panama and, during the summer, studied the case-building instincts of caddis-fly larvæ at the Mt. Desert laboratory in Maine. Messrs. Mutchler, Leng and Watson, the last in cooperation with Professor Forbes of Cornell, have been continuing their study of West Indian insects.

RECENT AND EXTINCT FISHES (William K. Gregory, Curator):—The southeast pavilion of the fourth floor was opened June 10 as the Bashford Dean Memorial Exhibit of Fossil Fishes. Several of the exhibits had been added to or brought up to date, and a bronze bas-relief of Dr. Dean, by John W. Hope, was unveiled, the gift of friends and colleagues of Dr. Dean.

Among notable additions to the exhibits in the Hall of Fishes of the World are a world record Channel Bass, caught and presented by Charles D. Beckmann; a large Marlin, caught and presented by Zane Grey, and an "African Pompano" (*Hymnis cubensis*), caught and presented by Mrs. F. M. Davies. Mr. W. K. Vanderbilt has added to his collection of "Ara" paintings a series showing both painting by William Belanske, and print by Rudge, of fishes taken on the most recent world cruise of Mr. Vanderbilt's yacht "Ara."

Mr. C. Marguglio of the Department of Preparation has made a striking model of the rare Oarfish, *Regalecus argenteus*. This is now on exhibit in the inner enclosure of the hall.

The study collection of recent fishes has been added to by the accession by open exchange of the entire fish study collection of preserved specimens and skeletons from the Brooklyn Museum. This collection has been checked up and will shortly be catalogued. Miss La Monte and Mr. Kessler have sorted, identified and catalogued the old collection of plaster molds of large fishes, chiefly sharks, with a view to arranging an open exchange with the British Museum (Natural History). They have also made arrangements for better storage accommodations in the basement and are going over the whole collection there.

Mr. C. M. Breder, Jr., collected flying fish material and made tentative plans for an exhibit, based on field work in the Tortugas, Florida, where he was successful in obtaining much data bearing on his study of the flying fishes.

Work on the card catalogue of the Bibliography of Fishes went forward during the year. Efforts were continued to bring this work to the attention of research workers, especially the younger men, and orders for 30 sets of the published Bibliography were filled. Reprints for the card catalogue came in in larger numbers than last year and more workers than ever came to New York to consult it.

During the first half year Curator Gregory was occupied in preparing a biography of Doctor Dean and in research work preliminary to the exhibits illustrating the evolution of fishes.

Mr. Nichols has initiated a comprehensive study of the extensive series of Chinese fresh-water fishes at hand. Incidental to this, he has published one *Novitates* (describing 3 new species and 3 new races), and another (with 2 new races) is in manuscript. Several

years' further study can be given advantageously to such material already in the Museum, but a review of the entire fauna with genus and species diagnoses and identification keys is already in outline.

He has also completed a review of the fishes of Porto Rico and the Virgin Islands, for the New York Academy of Sciences.

Dr. Gudger published thirteen papers on various subjects during the year, including one in the *Annals of Medical History* on Some Early and Late Illustrations of Comparative Osteology, and one in the *Papers of Tortugas Laboratory*, Carnegie Institution of Washington, on the Morphology, Coloration and Behavior of seventy Teleostean Fishes of Tortugas, Florida.

Drs. B. G. Smith and E. W. Gudger are working up certain unpublished drawings of the anatomy and embryology of some of the lower vertebrates by the late Dr. Bashford Dean. These will be published as the Dean Memorial Atlas.

Miss La Monte has identified and catalogued collections of fishes from the Tyler Duida Expedition, and the Lee Garnett Day Expedition to Mt. Roraima, and published a *Novitates* article on a new genus and a new species from the Duida material.

Dr. Hussakof has identified and reported on various lots of fossil fishes sent to the department for identification. He has published a *Novitates* article on a new teleostean fish from the Niobrara of Kansas and has several papers in preparation on fossil fishes, as well as a longer paper on the devilfish.

Among other papers, Mr. Breder has published a *Novitates* on certain effects in the habits of schooling fishes, and an article in *Zoologica* based on his field observations of flying fishes.

Dr. E. Grace White, a former student of Dr. Gregory, and professor of biology at Wilson College, Chambersburg, Pa., spent the summer in the department studying the head parts of the Whale Shark which the department obtained in Florida in 1923. Her paper is now in press.

REPTILES, AMPHIBIANS AND EXPERIMENTAL BIOLOGY
(G. Kingsley Noble, Curator).—Notable progress in the research program of this Department was made during 1929. Species differ from one another in both structures and habits. By what processes have these differences come into existence? An experimental study of the development of the large aquatic salamanders, *Cryptobranchus* and *Siren*, by E. J. Farris, L. Richards

and the Curator, showed that these were species which have metamorphosed their skin into that typical of land salamanders but have failed to transform most of their other larval structures. Species of mammals and salamanders frequently differ in the form of their teeth. The rôle of hormones in shaping these structures has been investigated by the Department. Mrs. S. H. Pope and the Curator published during the year a report on one aspect of this subject and further work is in progress. The experimental method was also used with success in determining the mechanism of sex recognition in the Wood Frog and in the Two-Lined Salamander, the reports on these analyses appearing in *Novitates*. The Curator has recently demonstrated that the life history of an amphibian frequently affords some of the best evidence as to its relationships. This year he published three papers in *Novitates* and one in the *Bulletin* on amphibian life histories. One of these papers, written jointly with B. C. Marshall, described the life history of the common Slimy Salamander for the first time; another, published jointly with J. A. Weber, recorded important new facts in the life of the common Dusky Salamanders. The Department has collections numbering nearly 80,000 reptiles and amphibians. Considerable attention is given every year to describing species new to science and reporting other rarities. This year Mr. Pope published three papers dealing with the collections of the Asiatic Expeditions, and Mr. and Mrs. Burt described a collection from the Mississippi Valley. A report on the South American lizards in the Museum was nearly completed by the latter investigators by the close of the year. Among the more comprehensive accounts published this year by Department members may be mentioned the general article by the Curator on the *Amphibia*, in the most recent edition of the *Encyclopædia Britannica*.

The experimental work of the Department has been supported by special funds provided by donors indicated in another part of this report. These funds have also permitted field work which supported or supplemented the laboratory studies. Mr. Hassler visited Florida and collected large numbers of living *Siren*. Mr. Brady, who joined the Staff in the fall, made a trip to North Carolina to study and collect salamanders, especially *Stereochilus*. C. R. De Sola explored Cuba to collect lizards and their eggs for future habit studies in the laboratory. In the fall a grant from

the Angelo Heilprin Exploring Fund made it possible for Mr. Hassler to visit Santo Domingo to collect and infiltrate reptiles and amphibians in the field. The latter process preserves the entire specimen, merely replacing the water by paraffin after fixation. Such prepared specimens are placed directly on exhibition with very little further treatment.

During the current year 8,430 reptiles and amphibians were added to the collection, as well as 10,636 eggs. Of the former, 2,926 are reptiles and 5,504 amphibians. The collections are available to qualified students who come each year in increasing numbers. Among the guests this year were Dr. Alice Boring of Peiping, who made an extensive study of Chinese Amphibia; Dr. A. H. Wright of Cornell, who continued his studies of North American frogs in the Museum, and Dr. L. M. Klauber of San Diego, who studied the collection of rattlesnakes. The Department also maintains extensive card catalogues of the literature dealing with the biology and systematics of reptiles and amphibians. The collections and these catalogues make the Department one of the chief centers for herpetological research in the United States. Lastly it may be mentioned that the collections of living reptiles and amphibians are attracting competent students to the Department laboratories. This year Dr. C. E. Hadley continued his researches on the mechanism of color change in lizards. Material was also made available to investigators at Yale and Harvard.

BIRDS (Frank M. Chapman, Curator-in-Chief):—Both the study and exhibition collections in the Department of Birds have reached a size where their mere care is an occupation in itself. Both demand the attention of curators whose time should be devoted mainly to the development of research. Unless, therefore, we are doomed to be swamped by details incident to the acquisition and care of specimens, our staff must be enlarged and reorganized on lines that will permit it to function more effectively in both research and education. Upon completion of the department's new home in the Whitney Wing, with its greatly improved facilities, let us hope that the new order may become realized.

During the year we have lost by death Dr. Jonathan Dwight, Research Associate, and Mr. Waldron DeWitt Miller, Associate Curator. To Dr. Dwight we were accustomed to refer all questions regarding molt and allied subjects as well as matters of nomen-

clature. Mr. Miller's long service with the department, together with his phenomenal memory, made him a mine of information concerning our collections. He was also extraordinarily well informed regarding the anatomy of birds. In the death of these gentlemen, we have been deprived of congenial colleagues, and ornithology has lost two scholars of the first rank.

Through the will of Dr. Dwight, the department has received his collection of 55,000 birds, the most valuable accession to which we have ever fallen heir.

The Tyler Duida Expedition to the unexplored mountain area at the head of the River Orinoco, made possible through the generosity of Mr. Sidney F. Tyler, Jr., and through the Jesup Fund, returned in May, 1929, after ten months' absence. All the objectives of the field work were achieved. Mt. Duida was ascended for the first time, and large collections representing both the fauna and flora throw much light on the relation of this little-known region to other parts of the continent. The collection of 6,748 birds is the largest ever brought back to the Museum by a single expedition. At the conclusion, the Olalla brothers and their four associates continued field work along the upper Orinoco, as well as in adjacent parts of the Amazon drainage.

Through the continued support of Mrs. E. M. B. Naumburg, Mr. Emil Kaempfer has carried on his field work in southeastern Brazil, building up for us an adequate representation of the avifauna previously represented by only a few ancient specimens.

The important work of the Whitney South Sea Expedition in the rich insular region lying east of New Guinea has continued throughout the year. The Solomon Islands have proved even more productive than we had expected. Present reports indicate that work in this archipelago will be completed by March, 1930. The schooner "France" was reconditioned during the spring of 1929, the old gasoline engine being replaced by one of modern Diesel type. During the year the committee engaged two American naturalists, Messrs. Coultas and Eyerdam, to join the vessel, with the understanding that the former will succeed Mr. Hamlin as field leader. At the same time, we were able to add temporarily to the staff Dr. Ernst Mayr, who has had wide ornithological experience in the New Guinea region. Five reports on Whitney Expedition birds appeared in the *American Museum Novitates* during 1929.

Following Mr. R. H. Beck's resignation from the Whitney Expedition in June, 1928, he undertook a year's collecting in New Guinea. With the assistance of natives, Mr. Beck has brought together a series of 1,745 specimens, including a new Bird of Paradise.

In the Gulf of Guinea region of west Africa, Mr. José G. Correia has worked on the island of Fernando Po. Here he has obtained a representative collection of the birds, as he had previously done in the neighboring islands of Príncipe and São Thomé. This important undertaking, covering more than two years, has been supported by Mr. S. Brinckerhoff Thorne.

Messrs. J. Sterling Rockefeller and Charles B. G. Murphy, assisted by Mr. Allan L. Moses, have conducted an ornithological survey of the Marungu region, southwest of Lake Tanganyika in Africa. Their collections contain many rare and interesting species, including several birds not hitherto reported from the Belgian Congo. They have since traveled northward to the Ruzizi Valley, and have descended the Congo River from Kindu. The fauna of this southeast corner of the Congo Forest has hitherto received little attention from naturalists.

The generosity of Mrs. Oscar Straus and Mr. Edward Schafer enabled the Museum to send Mr. Rudyerd Boulton through Uganda and Kenya Colony, followed by four months' field work in Nyasaland, from which region the Museum had previously no collections.

Mr. Donald Carter, accompanying the Sanford-Legendre Expedition to Abyssinia, also brought home a small collection of birds, although the main object of the Expedition was to secure large mammals.

Mr. F. G. Carnochan has presented a collection of 380 birds, taken during his ethnological studies in the region about Lake Victoria and Mt. Kenya.

Under the leadership of Mr. J. Delacour, the Madagascar Expedition, which is conducted jointly by the American Museum, the Natural History Museum of Paris, and the British Museum of Natural History, began work in May. Our representatives in this undertaking are Messrs. Richard Archbold, Austin L. Rand, and James C. Greenway.

Our Trustee, Dr. L. C. Sanford, has continued his efforts to obtain the widest possible representation of birds of the world for

our study collection, and is responsible for the addition of a number of genera and species heretofore lacking, especially from Africa and the Orient. Valuable exchanges have been made with the Cleveland Museum of Natural History, the Brooklyn Museum, and the Academy of Natural Sciences of Philadelphia. The receipt of over 21,000 specimens, exclusive of the 55,000 in the Dwight Collection, has in fact overwhelmed the curatorial as well as the clerical divisions of the department of birds.

Dr. Chapman has published descriptions of many new birds contained in the Duida collections, and has completed all but the introduction to a report on the upper zonal species of Mounts Roraima and Duida. He has also brought out a book "My Tropical Air Castle," a study of life on Barro Colorado Island in the Canal Zone. Dr. Murphy has published continuations of the Whitney South Sea studies, and in collaboration with Dr. Chapin he has reported on a collection of birds from the Azores. Much of his time has been given to administration of the Whitney and Gulf of Guinea expeditions, and the identification of birds in the large collections received. Dr. Chapin has also been much engrossed in the identification and cataloguing of Old World series included in Mr. Beck's New Guinea collection. The remainder of his time he has devoted to the completion of his Congo report.

Mr. Miller had prepared a list of our desiderata, continued his morphological studies and at the time of his death was engaged in selecting 5,000 specimens which Dr. Dwight had willed to the Springfield City Library Association. This task was finished by Mr. Philip DuMont.

Mrs. Naumburg is reading final proofs of her *Bulletin* article on the Birds of Matto Grosso, of which Mrs. Fraser, who assisted her, is preparing the index.

Mr. Charles O'Brien has rearranged our practically complete collection of Peruvian Birds which has been accumulating during the course of 15 years. We have to thank Mr. J. T. Emlen, Jr., for welcome assistance in cataloguing the Naumburg Bahia collection of nearly 5,000 specimens.

The most noteworthy addition to our exhibition collection is the superb group showing the bird-life of little Diomedé Island in Bering Sea. The studies for this group were made by Mr. Francis L. Jaques, of our Department of Preparation, while a member of the Stoll-McCracken Expedition of 1928. Mr. Jaques designed the

group and painted the background. The birds were mounted by Mr. Raymond B. Potter.

MAMMALS (H. E. Anthony, Curator):—The activities of the Department of Mammals during 1929, as during recent years, have been characterized by the departure and return of several important expeditions.

In May, the last members of the Tyler Duida Expedition returned from South America, bringing a large and valuable collection of mammals, birds, reptiles, fishes, plants, etc. The mammals number 870 specimens, and since no mammals have hitherto been collected on the summit of Mt. Duida, the collection is a noteworthy accession and will serve in important studies. This expedition was made possible by the financial assistance given by Mr. Sidney Tyler, Jr., who was a member of the party. Mr. G. H. H. Tate, of this Department, was the leader.

In August, the Sanford-Legendre Abyssinian Expedition returned to New York. Through the generous donations of the principals of this expedition, Miss Gertrude Sanford and the Messrs. Morris and Sidney Legendre, the Museum has received the specimens for a splendid group of the rare Nyala and a valuable collection of study skins of other mammals from Abyssinia. Mr. T. D. Carter, of this department, accompanied the expedition.

In the fall, Messrs. Morris Legendre and Stephen Sanford collected in northern British Columbia a fine Fannin sheep for the Department.

In July, the Morden-Graves North Asiatic Expedition left New York. Mr. William J. Morden and Mr. George G. Goodwin, both of this department, visited Russian Turkestan and collected a group of the rare Saiga Antelope. At the conclusion of this undertaking Mr. Morden returned to Paris to recuperate from an illness, but in December he joined Mr. George C. Graves, II, and Mr. Goodwin on the Amur River. The main objective of the expedition while in this area is the collecting of the Siberian Tiger for the new Hall of North Asiatic Mammals. The party will spend the winter there and hopes to make a representative collection of the mammals of the region.

In October, the Ottley-Anthony South American Expedition sailed from New York. Mr. H. E. Anthony, Curator of this department, is in charge of the expedition, and Mr. Gilbert Ottley,

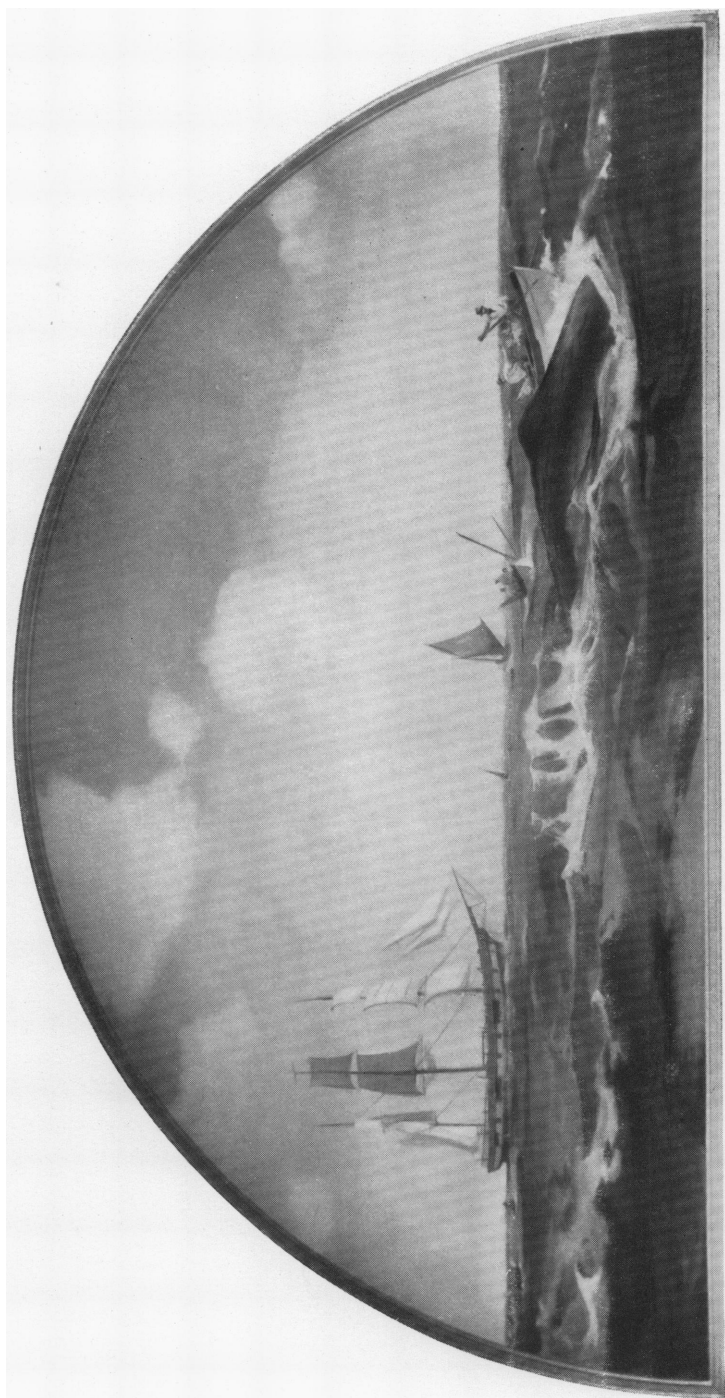
whose generous financial assistance made the undertaking possible, is acting as a field assistant. The expedition has as its purpose a biological reconnaissance of the southern part of South America. The itinerary ashore begins at Mollendo, Peru, and takes in cross-sections through southern Peru, Bolivia, Argentina, Uruguay, and southern Brazil. Mammals will be collected at localities of particular significance, and as much data as possible will be secured for the laying out of future expeditions. Observations made on local conditions of environment, topography, climate, etc., will be of the greatest value to the Curator in working up material from these regions already in the Museum. Accessory material for the Mt. Aconcagua Bird Group will be collected at Puente del Inca in Argentina.

Mr. Robert T. Hatt, Assistant Curator, accompanied by Marcelle Roigneau (Mrs. Hatt), Staff Assistant in Comparative Anatomy, visited Yucatan from October 3 to December 22, in the attempt to discover evidence bearing upon a possible former land connection between Yucatan and the West Indies. This evidence was sought in the form of fossil mammals, and cave deposits were searched in the hope of discovering remains similar to those found in the Greater Antilles. Though the deposits encountered were not ancient, one fossil bed deep down in a large cave probably antedated the human occupancy of Yucatan. A supplementary collection of mammals, reptiles, and amphibians at present living in this area was made for comparative purposes. The expedition was financed by the Angelo Heilprin Exploring Fund.

Mr. G. H. H. Tate, after visiting the large museums of the United States, studied in the principal museums of Europe during October, November and December. The purpose of these visits was to examine specimens and to secure data for a revision of the American opossums, of the genus *Marmosa*, which Mr. Tate expects to publish in the near future.

Mr. Myron Ackland made a trip to the Okefinokee Swamp, Georgia, to collect mammals. He was hampered by an unusually rainy season but was fortunate in securing, among other species, specimens of the rare Round-tailed Muskrat.

Plans for the exhibition of mammals have required no small part of the Curator's attention during the year. The Hall of South Asiatic Mammals has been brought well toward completion by the Department of Preparation. Considerable progress has been made



THE ATTACK

Second of murals of American Sperm Whaling for the Hall of Ocean Life
Painted by John Prentice Benson
Gift of Oliver G. Jennings

on the groups destined for the Akeley Hall of African Mammals, but work along these lines has been handicapped as there is a lack of space in which to build the groups.

Numerous conferences have been held to prepare for the other new mammal halls, the Hall of Mammals of the World, the Hall of North Asiatic Mammals, and a rebuilt Hall of North American Mammals. Plans have been formulated to round out the presentation of mammal life in exhibits which will show not only the geographic distribution of the various species but also the many biological aspects, such as the relation of the mammal and its environment, the development of special structures, differences due to sex, age, season, et cetera.

Publications for the year include a paper in *Novitates*, two articles in *Natural History*, an article in the *Bulletin* of the New York Zoological Society, and one in the *Scientific American*, by Curator Anthony; three articles in *Natural History*, one in *Roosevelt Wild Life Annals* (*Bulletin* of the New York State College of Forestry) by Assistant Curator Hatt; one article in *Natural History* and one in the *Journal of Mammalogy*, by Assistant Curator Goodwin; one in *Natural History* by Mr. Wm. J. Morden, Field Associate in Mammalogy; three in *Novitates* by Dr. Glover M. Allen; one in *Natural History* by Myron Ackland.

During the past year, the Department of Mammals had the great misfortune to lose the most distinguished member of its staff, Dr. Frederic A. Lucas, who passed away on February 9, 1929. An obituary of Dr. Lucas, who was Research Associate in the Department of Mammals, as well as Honorary Director of the Museum, appears on page 46 of this report.

COMPARATIVE AND HUMAN ANATOMY (William K. Gregory, Curator):—As in previous years the Museum exhibits prepared by and under the direction of this department have consisted mainly of individual objects (such as models of faces, hands, feet) arranged in a definite pattern or series, to illustrate the unity of plan amid diversity of detail and the divergent modifications in a given organ, starting from a central or generalized type. That is, each exhibit is designed to be comprehended as a whole by comparison of its individual parts. This basic principle also guides the greater part of the research work, technical papers, books, popular articles and lectures by members and associates of the department.

Only a small part of the department's exhibits have hitherto been open to the public, owing to lack of space in the exhibition halls. It is, therefore, gratifying to record that, as a result of the contemplated removal of the Peruvian archæological collection to another part of the Museum, that hall is becoming available for the "Introduction to Human Anatomy and Anthropology," which is being prepared in collaboration with the Department of Anthropology. Construction of the cases for this exhibit is in progress. Unless, however, it proves possible to provide additional preparators in the Department of Preparation for the extensive work still to be done on this general exhibit, it will be several years before the exhibit can be opened to the public.

Meanwhile such parts of the exhibit as are already completed have been installed for the present in the laboratory, offices and corridor of this department, where they are studied by graduate students of zoology and other especially interested persons. Many of the exhibits in this series are based in part upon investigations that have been carried on under the writer's direction by candidates for the doctorate in Columbia University. Two valuable additions to this series have been published in the *Bulletin* of the Museum during the past year, namely, "Functional Adaptations of the Pelvis in Marsupials" by Dr. H. O. Elftman, and "Studies on the Evolution of the Pelvis of Man and Other Primates" by Dr. Harriet C. Waterman. Other exhibits of this series are based largely upon the curator's recently published books and papers, especially, "Our Face from Fish to Man," "The Upright Posture of Man: A Review of its Origin and Evolution," and his various articles on mammals written for the new edition of the *Encyclopædia Britannica*.

For some years past the evolution of the dentition, skull, and locomotor apparatus of man and other vertebrates has been the leading subject of special interest in this department, but Associate Curator Raven has also devoted a great deal of attention to the comparative anatomy of the viscera, which, it is planned, will be well represented in the "Introduction to Human and Comparative Anatomy." Much excellent material for the physiological aspects of our exhibits has been assembled by Mrs. Cora S. Winkin, Ph.D. The department owes its supply of animals for dissection largely to the New York Zoological Society, to Mr. Ellis S. Joseph and other donors and to the coöperation of other Museum departments.

Owing to this department's special interest in the anatomy of the anthropoid apes, there has been a great need of adult specimens of the gorilla and the chimpanzee, properly preserved for anatomical study. In order to obtain this and other necessary material, as well as a first-hand knowledge of the habits of these animals in their natural environment, an expedition was planned by members of the Department of Anatomy of Columbia University and of this department, with the chief object of collecting and preserving such material in the Belgian Congo and in West Africa. As finally organized, the expedition represents the Department of Anatomy of the College of Physicians and Surgeons, Columbia University, the Department of Zoology of Columbia University, and this department. The expedition was financed, as a result of the activity of President Butler, through Columbia University. The leader of the expedition is Henry C. Raven, Associate Curator of this department, the other members being Professors J. H. McGregor, William K. Gregory and Earl T. Engle. The expedition left New York for the Belgian Congo at the end of May, 1929. It has been successful in obtaining two fine adult male mountain gorillas in the region west of Lake Kivu. These were shot and prepared for anatomical study by H. C. Raven. All members of the expedition had the good fortune to study living gorillas in the field, and valuable photographic and other data were secured.

In this connection it is gratifying to note the fact that the Belgian Government has taken effective measures to protect its gorillas from slaughter and extermination, not only in the Parc National Albert (as a result of the movement for the protection of the gorillas initiated by the late Carl Akeley) but also throughout the vast territory of the Belgian Congo. The Belgian Government, however, recognizing the importance to anatomical science of the objects of the present expedition, generously accorded permission to secure two gorillas in the Kivu district. The members of the expedition were the recipients of innumerable courtesies and substantial evidences of good will from many Belgian and French officials and residents in Africa, as well as in Brussels and Paris. Professor Dr. J. M. Derscheid, of the *Office International de Documentation et de Corrélation pour la Protection de la Nature*, exerted all his official and great personal influence and knowledge on behalf of the expedition and gave assistance of critical importance to its success. The expedition arrived in the French

Cameroon, West Africa, in November, with the object of securing two adult specimens of the western or lowland gorilla. The final report of the expedition is awaited with interest.

During the past year, Associate Curator Chubb has completed and placed on exhibition his beautiful skeleton of the Russian Wolfhound, mounted in the running pose. He has also continued work on the skeleton of a zebra (*Equus burchelli chapmani*), the second specimen to be mounted in a series of four, the completed exhibit to represent not only four species of the zebra but four phases of the walking stride.

Associate Curator Raven continued his illuminating researches on the anatomy and functions of the spermaceti organ of certain species of whales, supervised the studies of graduate students on the muscular system of vertebrates and prepared numerous specimens for anatomical study. He planned and supervised the installation of a steel gallery in the laboratory of the department for the storing of our rapidly growing collections. As noted above, he was made the leader of the African Anatomical Expedition and devoted the greater part of the year to the planning and accomplishment of this project.

Miss Marcelle Roigneau, who has been appointed Staff Assistant, has continued to assist the curator in planning the "Introduction to Human and Comparative Anatomy" and to supervise the work of the preparators in this exhibit.*

Mrs. Helen Ziska has continued to make excellent comparative series of anatomical drawings for the exhibits and scientific papers of the department. Under the direction of the Curator, she is preparing two series of full-sized models of vertebrate skeletons representing successive structural stages in the evolution of the skeleton, from air-breathing, lobe-finned fish through the earliest amphibians and reptiles, to the mammal-like reptiles, early mammals, stem primates, anthropoids and man. Casts will be made from these models and one each of these casts will be shown in the top view and another in the side view.

In conclusion, the staff of the department looks forward with keen interest not only to the successful development of the pro-

*From October 3 to December 22, Miss Roigneau joined her husband Mr. R. T. Hatt of the Department of Mammalogy, in an expedition to Yucatan, where material for dissection was obtained and fossils were excavated from cave deposits.

jects already mentioned, but also to active coöperation with the Department of Mammalogy in the preparation of the exhibit entitled "Introduction to the Science of Mammals." Such an exhibit will show (1) the basic physiologic processes and anatomic arrangements by means of which mammals are enabled to live at high pressure and high speed, in comparison with reptiles; (2) by what steps mammals have branched out from generalized types into highly specialized mechanisms for running, climbing, flying, digging, swimming; (3) how the digestive apparatus of different lines has become enabled to assimilate flesh, grass, roots, or a mixed diet; (4) the exhibit will demonstrate the superiority of the mammalian method of reproducing and feeding the young; while it will also give (5) a synoptic view of the principal groups of mammals. Plans for this exhibit have been prepared in collaboration with the Curator of the Department of Mammals, and it is hoped that the opportunity for an exhibit of such wide general interest may not be missed through lack of preparators in the Department of Preparation. With the approval of the administration, it is planned to place this general exhibition in the new Hall of Mammals of the World.

EXISTING AND EXTINCT RACES OF MEN (Clark Wissler, Curator-in-Chief):—Throughout the year there has been the usual accumulation of accessions, mainly received by gift, and totaling seventy-six. The outstanding gifts were: a collection of pottery and stone work from Ecuador, presented by Mr. E. Hope Norton; an ethnological collection from Melanesia, from Mr. R. H. Beck; a Bushman stone carving from Mr. H. Schoenhaut; a gold horned toad from Panama, from Mr. Clarence L. Hay. Through Museum expeditions we received an archæological collection made in Mongolia by Alonzo W. Pond (Central Asiatic Expedition); a collection of pottery, figurines, etc., from Zacatenco, Mexico, excavated by Assistant Curator George C. Vaillant; a collection of Basket Maker material from Antelope Cave, Cañon del Muerto, Arizona, uncovered by Earl H. Morris; copies of pictographs in Cañon del Muerto, by Ann Axtell Morris; and an ethnological collection from the Island of Manus made by Dr. Margaret Mead.

Early in the year Assistant Curator Shapiro made a brief trip to Santo Domingo to examine reported burial mounds and other

evidences of occupation. A careful examination of these reputed archæological sites proved the culture of the Island to be homogeneous and produced no evidence of stratigraphy, being apparently related to South American rather than to North American culture.

As a continuation of the Museum's cooperation with the Bishop Museum of Honolulu, particularly in physical anthropology, Assistant Curator Shapiro undertook a physical anthropological survey of Polynesia, in the course of which measurements, observations, and photographs were obtained of full-blood native representatives of the various Island groups. Doctor Shapiro reports excellent results, since he has secured adequate series for comparative purposes from the populations of various Islands in the Society, Marquesas, and Tuamotus groups.

From November, 1928, until the late spring of 1929, Assistant Curator Vaillant studied, by the stratigraphic method, the site at Zacatenco where is to be found the earliest culture yet known in the Valley of Mexico. The results of this intensive excavation were highly successful, three time-phases having been established. The excavation completed at this site was the first unit of a series intended to fix a chronology for Mexico by means of stratigraphic studies of ceramic remains. It is gratifying to note that the Museum now possesses from Mexico and Central America the best series of early culture collections known. Doctor Vaillant returned to Mexico in November, beginning work at Ticoman, another site in the Valley of Mexico; but before setting out on this new project, he completed a detailed report on the work at Zacatenco.

In cooperation with the Carnegie Institution of Washington, and under the direction of Mr. Earl H. Morris, excavations were continued in Cañon del Muerto, Arizona, under the Ogden Mills Fund. The work this year was concentrated at Antelope Cave, where a fine series of Basket Maker remains were recovered, including a unique and perfectly preserved burial. Mr. E. M. Weyer, Jr., a special field assistant, made a detailed geographical study of the cañon in connection with the preparation of a map.

At the suggestion of Mr. Charles L. Bernheimer, a study of pictographs in the Southwest has been initiated. Funds were provided through the activities of Mr. Bernheimer. Mrs. Ann Axtell Morris undertook this project and began a detailed study of the pictographs on the walls of Cañon del Muerto, making careful

copies of them in color. A series of these paintings has been placed on exhibition in the Southwest Indian Hall.

During May and June, the Seventh Bernheimer Expedition to the Southwest was in the field. Accompanied by Mr. Barnum Brown and Mr. Earl H. Morris, Mr. Bernheimer visited the district at the junction of the San Juan and Colorado rivers, locating Basket Maker and Cliff Dweller remains, and returning to the Museum a small but very interesting collection.

Under the patronage of Mrs. Payne Whitney, Mr. Richard M. Snodgrasse, a special field assistant, spent the summer in an archaeological reconnaissance of the district around Yuma, Colorado, with a view to seeking out possible extensions of the Folsom culture. He located a number of sites yielding artifacts of the Folsom type and returned a good collection: the range of distribution for these artifacts seems to be from Amarillo north to southern Wyoming.

Doctor Ronald L. Olson was appointed to the Department staff, beginning May fifteenth, primarily to undertake archaeological field work in South America. During the summer months, however, Doctor Olson made an archaeological reconnaissance in Texas, New Mexico, Oklahoma, and Iowa. The main object of the survey in Texas was to follow up certain clues which pointed to finds similar to that at Folsom, New Mexico. Financed by funds provided by Mrs. Payne Whitney, this was actually an extension of the Folsom project. The results, however, were entirely negative so far as they applied to the Folsom culture.

Mrs. William Boyce Thompson, under whose patronage Doctor Erich F. Schmidt has in the past few years conducted archaeological explorations and excavations in Arizona, defrayed the expenses of an additional brief trip to the vicinity of Superior, Arizona, to enable Doctor Schmidt to check some doubtful points in the final report he is preparing.

ASIATIC EXPLORATION AND RESEARCH (Roy Chapman Andrews, Curator-in-Chief):—What was to have been the fifth and final expedition into the Gobi, planned for the season of 1929, was blocked by the attitude of the Peking Society for the Preservation of Cultural Objects. After lengthy negotiations in Peking between this Society, Doctor Andrews and Mr. Walter Granger, and also in Washington between President Osborn and the Chinese Minister, the effort to make this closing exploration

was finally abandoned in July, and Mr. Granger, Mr. Albert Thomson, and Mr. J. McKenzie Young returned to America. Dr. Andrews remained at the Expedition Headquarters in Peking to complete the Narrative volume of the final reports and to dispose of the Expedition's effects.

Word received at the Museum from Dr. Andrews, late in 1929, indicates that there is a possibility that arrangements may still be made for the completion of the Gobi exploration in 1930.

During the winter of 1928-29, the entire collection of fossils was prepared in the laboratory at the Peking Headquarters, under the direction of Mr. Granger and Mr. Thomson and with the assistance of the six Chinese technicians of the Expedition. The results of this winter's work were highly satisfactory. The high standards of workmanship of the Museum laboratory were maintained, and the cost of the preparation was less than one-third of what it would have been if done at the Museum. Also, it relieved the already congested home laboratory. The last of the prepared collections of 1928 from the Gobi reached the Museum in August.

Progress on the Expedition publications has been satisfactory.

One *Bulletin* and nine *Novitates* articles have appeared during the year.

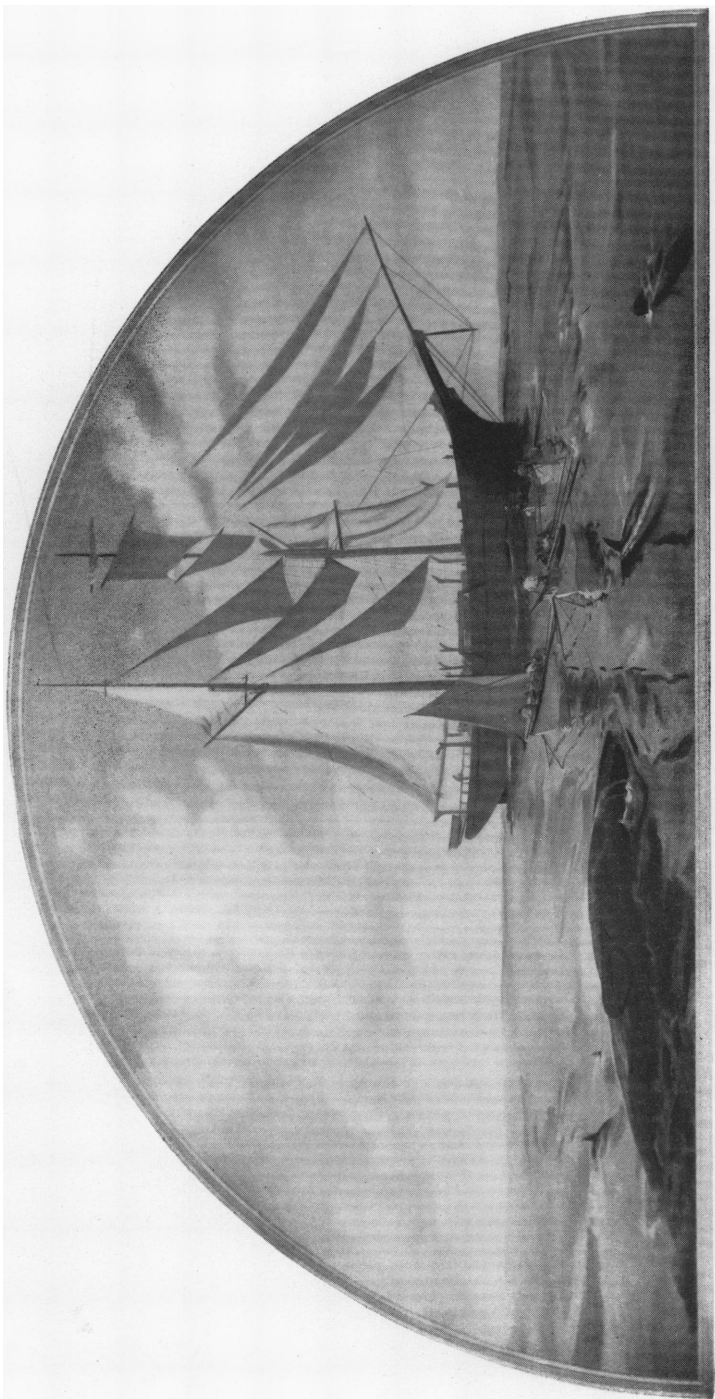
These preliminary papers now total 96, and Nos. 64 to 96, covering the years 1926-1929, have been set aside to be bound up as Volume II of the Preliminary Reports.

An additional 27 copies of "The Geology of Mongolia," Volume II of the final reports, have been sold, and a new advertising folder for this and subsequent volumes is being prepared for mailing early in 1930.

The long and difficult task of editing Dr. A. W. Grabau's manuscript on the Permian of Mongolia, which will become Volume IV of the final reports, was completed by Editor Chester A. Reeds in November, and a copy of the edited manuscript was forwarded to Dr. Grabau in Peking for his final corrections and additions. It is hoped that this volume will appear late in 1930.

Capt. W. P. T. Hill has nearly completed the draughting of the maps of the 1928 survey, which, with the maps of the 1925 exploration, will constitute Volume V.

Progress has been made on the preparation of several other volumes of the final reports, the series of twelve volumes to be called *The Natural History of Central Asia*.



TOWING THE WHALE

Third of murals of American Sperm Whaling for the Hall of Ocean Life
Painted by John Prentice Benson
Gift of George T. Bowdoin

EDUCATION AND PUBLIC HEALTH (George H. Sherwood, Curator-in-Chief):—It is obvious that through its department of education the Museum comes in contact with greater numbers than through any other channel, because of the variety and extent of its school service and because of the large school population of the city. It also will be readily understood that its school service, like woman's work, is never done. An activity once started and proved to be worth while must be continued year after year, as new troops of children fill the schools. This fact limits the taking up of new activities which require additional personnel and increased expenditures.

A survey of the work of the department of education for 1929 shows that while the high standards of previous years have been maintained in the long-established features of our school service, several new features have been undertaken, important experiments in educational methods have been carried on, and the scope of the activities has been broadened both in our relation to children and to adults.

The underlying thought in the policy for the year has been how to bring about a more intensive use of the unparalleled collections and exhibits of the Museum, particularly by students in the higher institutions of learning, as was proposed and advocated by President Osborn in his Sixtieth Annual Report. Progress has been made along these lines.

The most important experiment has been the two Cultural Courses for teachers, namely, A Cultural Course in Geography for Teachers of the Elementary Schools, which is being directed by Mrs. Grace Fisher Ramsey, and A Cultural Course for Teachers of High Schools and Colleges, directed by Dr. Clyde Fisher. Each of these courses consists of thirty lectures by staff members, followed by laboratory work in the exhibition halls. The Board of Education has granted teachers thirty hours' credit for each course. The demand for this service has far exceeded our expectation. The enrolment in the Geography Course was 1,313 and in the High School Course 236. Through the kind cooperation of Dr. Frank M. Chapman, Dr. Clark Wissler, Mr. Herbert P. Whitlock, Dr. Chester A. Reeds, Mr. Barnum Brown, Dr. Robert Cushman Murphy, and Dr. G. Kingsley Noble, we have been able to present to those teachers the most authoritative data in the subjects of the course. This method of acquainting teachers with the treasures

of the Museum and the facilities which it offers them is bound to have a far-reaching influence in our city schools.

Our Museum relationship with the teaching profession has been extended further by meetings with principals' associations, by continued cooperation with the New York Association of Biology Teachers, and by direct contact with professors and groups from Columbia University, New York University, Fordham University, the College of the City of New York, Hunter College, Rutgers University and several others, which are sending their students to the Museum for practical instruction.

Another new feature of the year's program has been the organization and development of the Junior Astronomy Club for boys and girls,—one section open to the children of Members and the other for general membership. This scheme has been worked out by Miss Elizabeth A. Eckels, the staff representative in charge of the Club. Children show a keen interest in this subject, and in five months there has been an enrolment of 1,250 young people from ten to eighteen years of age. Meetings are held bimonthly, and the programs are given alternately by the Club members and by guest lecturers. An important factor in this activity is that the Club is conducted by its own members, which stimulates the children's initiative and will do much to develop leadership.

Children's interest in nature and science was actively aroused by the second Children's Fair of the American Institute, held in Education Hall on October 11-17. This fair was the result of the cooperative effort of the American Institute, the School Nature League, and the Museum, the work being under the immediate supervision and direction of Mrs. Marjorie C. Coit, Director of the School Nature League. The entries comprised 130 group exhibits and 283 individual exhibits. They included gardening, biology, conservation, health, nature study, geology, astronomy, chemistry and physics—all the work of pupils in the schools. There was a total attendance of 25,000.

The Museum has made its contribution to outdoor education by operating the Nature Trails and Trailside Museum at Bear Mountain in cooperation with the Interstate Park. This work has been again under the immediate direction of Mr. William H. Carr, who was the resident naturalist. This is the third year of operation by the Museum.

The trails are now completely indicated and marked; and the

museum building, constructed by the American Association of Museums under a grant from the Laura Spelman Rockefeller Memorial, is equipped with exhibits, laboratory and demonstration materials, nearly all of which have been made at the Trailside Workshop. Nature handicraft has proved a valuable project. Cooperation with the educational and camping department of the Interstate Park has been carried on in a more extended way than heretofore. A branch of the work, initiated this year, is that of aiding nature councillors and directors throughout the park with their individual museum and general educational problems in a definite way. The total attendance for the season was 186,000.

So far as the limited budget funds would permit, we have been maintaining and improving the older branches of our school service, which have become an important part of the equipment of the teachers.

The records show that this service is city-wide, reaching schools in every borough. The number of schools served was 800 and the contacts made were 12,595,336, as follows:

	1929
High school students studying special collections....	8,670
Visitors to Bear Mountain.....	186,000
Attendance at library loan exhibits.....	40,283
Attendance at lectures.....	226,608
Pupils viewing motion picture films.....	1,725,865
Pupils using nature study collections.....	1,857,729
Pupils viewing lantern slides.....	8,550,181
Grand total.....	12,595,336

Nature Study Collections, circulated free to the schools, continue to be in great demand. These are composed of small collections of birds, mammals, minerals, woods, insects, and other nature material. With the assistance of Mr. Herman A. Sievers, the collections have been revised to conform to the syllabus in nature study, and new collections for high school students have been added. A total of 5,327 loans reached 557 schools and were studied by 1,857,729 pupils.

Lending of Lantern Slides: Under the direction of Mrs. Grace Fisher Ramsey, who is in charge of this division, our extensive series of lantern slides was rearranged to correlate with the new syllabus of geography. This was a stupendous task, but it has been accomplished, while at the same time we have maintained the distribution service to the schools. More duplicates of slide groups whose teaching value has been well attested are the greatest need in this branch of our school service. At present it is necessary to deny fully 40% of the requests of teachers for material. The number of slides circulated was 1,115,401, and the number of contacts with pupils was 8,550,181.

Lending of Films: The circulation of the motion-pictures, in both the standard width (35 mm.) and the narrow width (16 mm.), has been continued, and under Mrs. Ramsey's direction has grown rapidly. We are adding to our film library by gift, through our own expeditions and through deposits. Experience is demonstrating that the 16 mm. film has greater teaching adaptability because it can be used so easily in small classrooms. The growth has been rapid, the attendance reported at 5,198 showings being 1,725,865 children and adults.

Lecture Courses: Under the general supervision of Dr. Clyde Fisher, the various courses of lectures designed to supplement the classroom instruction in geography, history, and natural science have been continued. The topics are illustrated with slides and films. They meet the needs of both elementary school and high school. One of the features of the lecture series is the course for high school students arranged by Mr. Paul B. Mann. These are given by members of our staff and several teachers and other scientists of the city. The total lecture attendance was 226,608.

Exhibition Hall Talks and Sight Conservation Classes: This type of instruction, which consists of actual handling of material by the pupils in one of our small classrooms, followed by a visit to the exhibition hall for observation of the related material, is becoming more and more asked for by teachers. There has been a surprising growth in the number of talks given, so that not only the time of our teaching staff has been severely taxed, but even with the facilities of the School Service Building it has been difficult to find sufficient meeting places for the classes. Miss Nancy True has had general charge of this work. This branch of school service in particular, has been greatly facilitated through the assistance

given by the two substitute teachers, Miss Ethel Kingsbury and Miss Marguerite Newgarden, assigned to the Museum by the Board of Education. They have also assisted in the general guiding and other branches of our educational work. The third substitute teacher, Miss Eleanor Friend, assigned by the Board, has been reassigned to the School Nature League and carries on her instruction in the Nature Room.

General guiding of children and adults through the exhibition halls; the laying out of indoor nature trails; the placing of books and reading tables in the halls; the provision for art students; the special exhibitions in Education Hall, ranging from demonstrations of the latest biological researches sponsored by the New York Academy of Sciences, and scientific apparatus for school equipment under the auspices of the New York Association of Biology Teachers; the Children's Fair of the American Institute; the Flower Show of the Horticultural Society, and exhibits of art work in the schools—all are means by which a general knowledge of nature is being diffused.

Photography: This department is responsible for the general photographic work of the Museum and for the recording and care of the invaluable photographic records of our many expeditions. It is from this wealth of material that we draw for our visual aids to the schools. Miss Dorothy Van Vliet and her associates have made a real contribution to education through their efficient work in this branch of our service.

Acknowledgment of the individual gifts will be found in the accession list, page 116. We desire to thank the many friends who have contributed financially or through gifts of time or materials to developing the educational work.

THE LIBRARY (Ida Richardson Hood, Acting Curator):—Growth is gratifying. It is also a responsibility. It can be said with perfect fairness that the growth of the last thirty years has brought to the Library of this Museum the enviable reputation of being one of the finest of its kind in the country. Indeed, it is second to but one or two, and in each case there was the advantage of a much earlier foundation. Every addition has been made with careful consideration for pertinence and value, so that now many rare and important volumes are on our shelves which cannot be found elsewhere.

To make the present growth commensurate with that of the past means constant effort in various directions. A widely diversified exchange brings in much valuable current material, since our own publications make it possible to establish cordial relations with institutions everywhere. There remains, however, a large proportion of scientific literature issued commercially which is a constant rival of the second-hand material for the limited funds at our disposal. Were it not for friends and patrons, many rare items would be lost to us, sometimes forever. Sincere gratitude is, therefore, due those who have made it possible for this Library to secure during the past year the following items:—

Clerck, Carl—*Icones Insectorum Rariorum, Cum Nominibus eorum trivialibus, locisque e C. Linnæi Arch: R: et Eqv: Aur: Syst: Nat: allegatis.* Holmiæ, 1759–1764, [1765]. Gift of Mr. J. P. Morgan.

The Library is unusually fortunate in receiving through Mr. Morgan's great generosity a work of such extreme scarcity and importance.

Abbot, Charles Greeley, Editor in Chief—Smithsonian Scientific Series, Volumes I–IV. James Smithson Memorial Edition, Registered in the name of The American Museum of Natural History. Gift of Mr. J. P. Morgan.

Abbot, Charles Greeley, Editor in Chief—Smithsonian Scientific Series, Volumes I–IV. James Smithson Memorial Edition, Registered in the name of The American Museum of Natural History. Gift of Miss Isobel H. Lenman.

The Library is especially glad to have two sets of this important work.

Vanderbilt, William K.—*Taking One's Own Ship Around the World.* Gift of the Author.

Brasher, Rex—*Birds and Trees of North America.* Gift of Miss Frederica Lewis.

Akeley, Mary L. Jobe—*Carl Akeley's Africa.* Gift of the Author. *Encyclopædia Britannica.* Fourteenth Edition. Gift of the Publishers in recognition of services rendered by the Museum.

Boletin del Museo Nacional de Chile, Tomo V, Número I. Gift of Dr. Martin Gusinde.

Hudson, W. H.—*Birds of La Plata.* Autographed copy. Gift of Mrs. A. W. Erickson.

Selater, P. L., and Hudson, W. H.—*Argentine Ornithology.* Gift of Mrs. A. W. Erickson.

Hegh, Emile—Les Tsé-Tsés. Volume I. Gift of President Henry Fairfield Osborn.

The shelving problem has been solved, for a few years at least. By temporarily relegating to our storage shelves in the attic the somewhat less used sections on history and engineering, and with the addition of one new room, it has been possible, by moving and rearranging the entire Library, to give each subject the proper space and a limited opportunity for expansion.

The death of Mr. Isaac Berrian Sniffin, whose associations with the Library began in 1893, and who had, these many years, rendered faithful and valued service, is recorded with deepest regret.

The response to the opportunities offered by the Reading Tables distributed throughout the Exhibition Halls has already proven the wisdom of this new departure in stimulating public interest in the collections.

The accessions for the year total 2,814. The Library was visited by 1,536 readers, who consulted 5,193 books; 6,556 books were charged out to members of the Staff and on inter-library loans.

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

The *Bulletin*, containing the larger scientific papers; 694 pages have been issued, with 38 plates, 315 text figures and 2 maps.

The *American Museum Novitates*, containing the shorter scientific papers; 681 pages have been issued, with 206 text figures.

The *Anthropological Papers*, devoted to the results of research conducted under the auspices of the Department of Anthropology; 420 pages have been issued, with 47 text figures.

The *Handbooks*, A new edition of Number 4, Animals of the Past, by F. A. Lucas, was issued.

The *Guide Leaflets*. One new Leaflet, Number 74, Outposts of the Sea, by Roy W. Miner, was issued, as well as new editions of Numbers 42, 45, 46, 52, 58, 69.

Natural History has completed its twenty-ninth volume.

The *General Guide* was reprinted (Fourteenth Edition).

PRINTING AND PUBLISHING (Hawthorne Daniel, Curator):—The Department of Printing and Publishing has completed its second year of work since its organization in December, 1927. *Natural History Magazine*, the largest individual task of the Department, has been published promptly on time each two months

during the year and nearly 100,000 copies of the magazine have been printed, bound, and mailed.

The printing of scientific papers has shown a considerable increase. Anthropological papers totaling 1150 pages came from the presses, as compared with 250 pages in 1927 and an annual average of 554 pages for the last twenty-one years. The output of other scientific work, exclusive of papers on Geology and Palæontology, has been 1503 pages, as compared with 1274 which is the annual average for the preceding five years, while for the Departments of Geology and Palæontology 480 pages have been prepared, about equaling the output for 1928. The total number of scientific pages printed during 1929 was 3133. In addition to these tasks, 792 pages of President Osborn's Proboscidea Memoir were, at the end of the year, being held in type awaiting further copy from President Osborn.

So far as the mechanical work of printing and publishing is concerned, the Department has been in excellent condition throughout 1929. Its greatest weakness has been in the lack of a sufficient number of proof-readers in the composing room and in the scientific editorial department.

The Department has continued to coöperate with the various other Museum departments in an advisory capacity whenever advice on printing or on the preparation of printed matter was required, and during 1929 received and completed 651 requisitions for printed matter, ranging from the simplest to the most complicated of tasks, as compared with 625 requisitions received in 1928. Although the increase in the number of requisitions was not great, there has been a very marked increase in the size of a large number of these "jobs." The output of the Department during 1928 was about 33% greater than that of 1927. The output during 1929 has been about 50% greater than 1927, and while the Department still has sufficient elasticity to show a further increase, it is not likely that that increase can be made noticeably large without additions to the editorial, composing room, press room and bindery staffs.

Early in 1929 the bindery was transferred to new and larger quarters and was given some new equipment in the hope that it would not only be able to absorb the increased output of the press room but also that it would be able considerably to increase the number of books bound and rebound for the Library. So great,

however, have been the increases in the demands upon the bindery that despite its larger quarters, its new equipment, and its one additional employee, it has been impossible to increase the number of bound books to any noticeable extent. It is unlikely, furthermore, that under the conditions that now prevail the bindery will be able to increase this very important branch of their work. Nevertheless during 1930 the Department of Printing and Publishing hopes to be able to show a still further increase in other branches of its output.

PUBLIC INFORMATION (George N. Pindar, Chairman):—Following the custom established a number of years ago of issuing press bulletins on the activities of the Museum, sixty-two numbers have been distributed during the current year. This publicity included information bearing particularly upon the work of parties in the field and upon specimens or collections which were considered of unusual importance.

Supplementing this work, about the middle of the year this Committee undertook a series of meetings in the Museum at which representatives of the press were invited to be present to meet with the Committee and the returned field representative. At these meetings, copies bearing upon the general work of the expedition are distributed, and as an added feature they give an opportunity to the members of the press to formulate questions and secure replies from the field representative which they think will add to the interest of their articles. We feel that these meetings have proved exceedingly desirable and popular, and there is no doubt that many facts, particularly those having human interest, are brought out which would not otherwise come to light. Furthermore, as one reporter explained, after a personal interview they can feel reasonably sure of their scientific material which hitherto they had sometimes found it difficult to handle. It is very noticeable that the contact thus formed has been of advantage to the Museum and to the press alike.

Photographs have been in increasing demand, both by the press and by special writers, and we appreciate the attitude which has now become general among writers of presenting a "write-up" on scientific specimens in a popular style so that the public is in no doubt concerning the importance of any newly discovered material coming to our hands.

Fortunately, those expeditions which were privately financed during the year did not so generally impose restrictions on publicity as heretofore.

Without doubt, however, the most important development in publicity work during the year was the institution of radio talks given by Curators and other members of the Scientific Staff on natural history subjects. The value of this work can not be overestimated. The radio public, judging from the letters which have come to the speakers, appreciates this undertaking, and we expect this new channel of publicity to expand greatly in the future and become more and more recognized as a part of the Curators' work. We feel safe in predicting that the time is not very far distant when it will be possible for members of the Scientific Staff to give these talks direct from the Museum itself.

A very popular series of talks was arranged in connection with a page of pictures in the Sunday *Herald-Tribune* every first and third Sunday of the month from last October. An announcement accompanied the pictures to the effect that the Curator responsible for them would give an explanation by broadcasting a description at five o'clock in the afternoon. We feel that this form of publicity made a great stride forward in bringing the facilities and advantages of the Museum before the entire country.

For this privilege of distributing news over the air, we are highly appreciative to the broadcasting stations which have made it possible to effect this undertaking.

ACCESSIONS, 1929

ASTRONOMY

BY GIFT

DENEAU, MRS. KATE, New York City.

Copy of "Smith's Illustrated Astronomy."

LOCKYER, DR. WM. J. S., Sidmouth, England.

Photograph of meteor trail.

SEYDL, DR. OTTO, National Observatory, Prague, Czechoslovakia.

Photograph of trail of a bolide.

MINERALOGY

BY GIFT

BENITZ, PROF. R. LEROY, El Paso, Texas.

1 Orthoclase, 6 Cerussite, 2 Microcline in Quartz, 1 Smoky quartz, 1 Tourmaline, 1 Apophyllite and Epidote in Quartz, 1 Psilomelane and Barite, 1 Wulfenite, 1 Obsidian, 1 Tourmaline in Quartz, from New Mexico.

BERNHEIMER, MR. AND MRS. CHARLES L., New York City.

1 Kunzite, 46.24 carats, 1 Kunzite, 38.38 carats, 1 Kunzite, 6.36 carats, 1 Kunzite, 191.84 carats, 1 Kunzite, 71.85 carats, 1 Kunzite, 6.33 carats, 1 Kunzite, 5.52 carats, 1 Kunzite, 3.55 carats, 1 Kunzite, 46.22 carats, 1 Kunzite crystal, from Pala, Cal.; 1 Spanish topaz, 464 $\frac{1}{2}$ carats, 1 Spanish topaz, 492 carats; 1 Turquoise matrix, Cerrillos, New Mexico.

BLAKE, MRS. CHARLES F., New York City.

2 Gypsum (Desert Roses), from Biskra, North Africa.

BLUMENTHAL, MAURICE, New York City.

16 Polished agate ring stones, 4 Onyx ring stones, 4 Onyx

cameos, 4 Crocidolite (Tiger's Eye); 1 Muscovite from New York City.

CHASE, F. H., New York City.

1 Argente, Colorado, 1 Epidote, 1 Garnet on Albite, 4 Gold in Quartz, 1 Silver, 1 Galena and Gold, from Alaska.

CLARK, M. H., Newark, N. J.

1 Calcite, 1 Datolite on Prehnite, 1 Prehnite and Analcite, 1 Datolite, 1 Thompsonite, datolite and prehnite, from Paterson, N. J.

COOPER, MORRIS, New York City.

1 Serpentine covered jar, from Cornwall, England.

FABER, E. B., Grand Junction, Colorado.

1 Calcite, 1 Limestone, from near Delta, Grand Junction, Colorado.

GAGE, R. B., Trenton, N. J.

1 Vorhauserite, 1 Willemite, 1 Rhodonite, from Franklin, N. J.

GUITERAS, PROF. J. R., Laramie, Wyoming.

2 Specimens of Dumortierite from Wyoming.

HARSTAD, A. J., Wolf Creek, Montana.

100 Orthoclase crystals from Wolf Creek, Montana.

HAWKINS ALFRED C. New Brunswick, N. J.

1 Bornite, from Chimney Rock, Bound Brook, N. J.

HOADLEY, CHARLES W., Englewood, N. J.

2 Bismuth, from Monroe, Conn., 2 Garnets, from Holland, Pa., 1 Spodumene, from Auburn, Me., 1 Spodumene, Portland, Conn., 1 Calcite pseud. after Aragonite, from Ft. Collins, Colorado, 3 Staurolite, from Patrick County, Va.

JONES, WALDO H., Washington, D. C.

3 Muscovite (Serecite), from Ame-

- lia, Va., 1 Specimen of Deweylite, from Bare Hill, 12 miles North of Baltimore, Md.
- LABAW, J. P., Hopewell, N. J.
 1 Pyrophyllite, from near Troy, N. C.
- McMICHAEL, PAUL, New York City.
 2 Specimens of Brucite from Nye County, Nevada.
- MANCHESTER, JAMES G., AND WEIDHAAS, ERNEST, New York City.
 Group of exceptionally large and well formed Tourmaline crystals, from Bedford, N. Y.
- MORTON, JAMES F., Paterson, N. J.
 2 Aragonite on Prehnite, 1 Thaumassite, 1 Pectolite from Paterson, N. J.
 1 Pyrite from New Brunswick, N. J., 2 Bornite, 3 Brannerite, 1 Bornite and chrysocolla, from Prospect Park, N. J.
- POORE, C. G., New York City.
 4 Aragonite (Mexican onyx), from San Luis, Mexico; 1 Calamine, 1 Gypsum, 2 Hydrozincite and calamine, from Chihuahua, Mexico; 12 Calamine on limonite and hematite, 1 Fire opal, from Mexico; 1 Sphærocobaltite on malachite, Boleo, Lower California, Mexico; 1 Calcite, galena and fluorite, from Rosiclare, Ill.; 1 Smithsonite, from Kelly, New Mexico; 1 Turquoise, from Los Cerrillos, New Mexico; 1 Aragonite (Stalactite), 1 Aurichalcite on calcite, 2 Barite, 1 Calamine in smithsonite, 1 Cinnabar, 1 Pyrite and chalcopyrite, 1 Pyromorphite, 1 Sphalerite.
- RICKETTS, DR. L. D., Pasadena, California.
 1 Anglesite after Galena, from Los Lamentos, Chihuahua, Mexico.
- SILENZI, V. B., Buenos Aires, Argentina.
 1 Specimen of Fluorite, carved in architectural ornament, from Cordoba, Argentina.
- UNITED STATES GEOLOGICAL SURVEY, Washington, D. C.
 Series of 6 specimens of Potash mineral drill cores from Texas and New Mexico.
- VARNI, STEPHEN, New York City.
 3 Rock crystal star-shaped pendants, 6 Chalcedony (artificially colored) star-shaped pendants, 1 Selenite carved Easter egg, from Ural Mts., Russia.
- WOODHOUSE, C. V., Forest Hills, L. I.
 1 Dumortierite, Oreana, Nevada.
- BY EXCHANGE
- GAGE, R. B., Trenton, N. J.
 1 Calciovolborthite, from Franklin, N. J.
- KARLSSON, ALBERT F., New York City.
 1 Hematolite, 1 Manganpenninite, from Langban, Sweden.
- LABAW, J. P., Hopewell, N. J.
 1 Aurichalcite, 1 Malachite, Azurite and Smithsonite, from Toole County, Utah.
- MORTON, JAMES F., Paterson, N. J.
 1 Specimen of Pectolite, from Paterson, N. J.
- MUSEC, MRS. ALICE, Scarsdale, N. Y.
 1 Compact datolite, from Beroun, Czechoslovakia, 1 Garnet in matrix, from Merunice, Bohemia, 1 Boulangerite, from Příbram, Czechoslovakia.
- RIES, PROF. H., Ithaca, N. Y.
 1 Sphalerite, from Ship Canal, 180th Street, New York.
- TIDBALL, MISS EVELYN, Media, Pa.
 1 Gypsum, 1 Tourmaline, from Media, Pa.
- WOODHOUSE, C. V., Forest Hills, L. I.
 1 Anorthite, Vesuvius, Italy, 1 Sphalerite, from Dauphine, France, 1 Andalusite and 1 Partzite, from Mono Co., Cali-

fornia, 1 Cotunite, Anglesite and Galena, from Inyo Co., California, 1 Dumortierite, from Oreana, Nevada, 1 Gold in Quartz, from Nye County, Nevada.

BY PURCHASE

MATILDA W. BRUCE FUND

- 6 Carved amethyst pendants, 3 Carved lapis lazuli pendants, 1 Carnelian pendant, 2 Rose quartz pendants, 1 Turquoise figure and stand, carved figure of the "Goddess of Mercy," probable date 18th Century, 4 White jade buckles, 2 White jade drops, 1 Rock crystal, carnelian stopper snuff bottle, 1 Rock crystal snuff bottle decorated on inner surface, 2 Rose quartz elephants, 1 Malachite tray and stand, 1 Agate bottle and stand, from China, 1 Citrine seal, from Oberstein, Germany, 1 Inyoite, from Inyo County, California.

GENERAL FUND

- 1 Specimen of Calcite, 2 Laumontite and Prehnite, 1 Apophyllite, 1 Aragonite on Prehnite, 1 Calcite, 1 Calcite crusting manganopectolite, 2 Calcite on Prehnite, 2 Datolite, 1 Natrolite and Prehnite, 1 Natrolite and laumontite, 2 Pectolite on Prehnite, 1 Prehnite, 1 Thomsonite and Calcite, from Paterson, N. J.
- 1 Beryl, from Klein Spitzkopje, Southwest Africa, 1 Pharmacolite from Neurode, Silesia, 1 Tourmaline (Achroite), from Mesa Grande, California, 9 Crystallized gold, from Placer, California, 1 Chalcopyrite on Dolomite, from Cherokee County, Kansas, 1 Kleinite, and 1 Montroydite, from Terlingua, Texas, 1 Para-

bayldonite, from Otavi, Southwest Africa.

- 1 Pyrrhotite, from Kisbanya, Roumania, 2 Linneite, from Westphalia, Germany, 1 Sulphoborite, from Westeregeln, Saxony, 1 Rinneite, from Vesuvius, Italy, 1 Chrysoberyl (Dana type specimen) from Norway, Maine, 1 Hydroboracite, 1 Meyerhofferite, from Inyo Co., California, 1 Norbergite, from Norberg, Sweden, 1 Manganpennine, 1 Trigonite, from Langban, Sweden, 1 Rossite, Thompson, Utah, 1 Usbekite, from Fergana, Russian Turkestan.

BY EXPEDITION

CENTRAL ASIATIC EXPEDITIONS

- 2 Gypsum (Desert Roses), from Shara Murun region, Inner Mongolia.

GEOLOGY

BY GIFT

AMERICAN UNIVERSITY, Beirut, Syria (Through Dr. Day).

- 14 Shells, Coral limestone, from Syria.

ANTHROPOLOGY, DEPARTMENT OF, Museum (Transfer).

Fossil fern impressions, from Otumwa, Wapello Co., Iowa.

Fossil shell, from Texas.

BENITZ, PROF. R. L., El Paso, Texas.

Fossil *Productus*, 15 Obsidian, mica schist, from New Mexico.

BRAZILIAN GOVERNMENT, Rio de Janeiro, Brazil.

250 Specimens, including corals, gastropods, pelecypods, unios, from Brazil (Received in April, 1925).

BRIGHAM, DR. EDWARD M., Battle Creek, Michigan.

17 banded rock specimens.

BROWN, BARNUM, New York City.

- 25 Specimens of Cretaceous shale,
from Folsom, New Mexico.
- CLARK, M. H., Newark, N. J.
Cast of interior, *Hipparionyx*
proximus.
- CLAUSEN, CARL, New York City.
Fossil mollusk, from France.
5 Fossil shark teeth.
- COLORADO MUSEUM OF NATURAL
HISTORY, Denver, Colo.
Granitic gneiss, from Moffat Tunnel
under James Peak, Colo.
- DAUB, WALTER T., Havana, Cuba.
Shark's tooth, from near Havana.
- DEMING, WALTER D., Helmetta, N. J.
6 Geodes.
- EHRLER, GEO. L., Richfield, N. J.
Schoharie Grit, containing cephalo-
pods, pelecypods, brachiopods,
corals, and tail of a trilobite.
- EVANS, S. C., Riverside, Calif.
Pelecypod, from Calif.
- EVERHART MUSEUM, Scranton, Pa.
(Through Mr. Kelly).
Coal, from Scranton, Pa.; iron
pyrites: coin, one cent dated
1834.
- FALK, J., New Brunswick, N. J.
30 Specimens, including malachite,
galena, quartz, copper-stained
rhyolite, petrified wood, smelter
slag, rocks, from Silver Reef
Mine, Arizona.
- FENTON, DR. CARROLL LANE, Tren-
ton, N. J.
21 Metatypes.
- FRYZNA, A., ELIZABETH, N. J.
Glacial boulder.
- HARPENDING, JOHN L., Smithville,
Okla.
16 Rocks from site of Meteorite
from Zaffra, Okla.
- HOWE CAVERNS, Inc., Cobleskill,
N. Y.
Stalagmite incrustation, piece of
calcite, from Howe Caverns.
- ICHTHYOLOGY, Department of, Mu-
seum (Transfer).
- 19 Fossil plants, from Syria.
- LITTLEFIELD, ARTHUR, New York
City.
Oolitic limestone (Jurassic Age),
from Rushden, England.
- MAMMALOGY, Department of, Mu-
seum (Transfer).
Rare cephalopod.
- MAX, E., New York City.
Yonkers gneiss.
- MELLEN, FREDERICK F., A. and M.
College, Mississippi.
800 Specimens of fossils, Selma
chalk, from Mississippi.
- POOLE, SIDNEY W., New York City.
Schoharie grit.
- POORE C. G., New York City.
Polished pebble containing fossil
imprints.
- ROBERTS CYRUS S., St. Louis, Mo.
Echinoderm and Bryozoa from Red
Rock, Little Rock, Mo.
- SAKELLARIOS, J., New York City.
Weathered quartzite, "Effigy skull,"
from East bank of Hudson at
Verplank Point.
- SOUTHWESTERN BELL TELEPHONE
Co., Dallas, Texas.
4 Ammonites.
- STAMM, F. C., Corpus Christi, Texas.
39 Shells, 11 Oyster shells, from
Texas.
- THOMAS, MASTER ELMER, Dickson
City, Pa.
Obsidian, from Rio Grande River
in Texas.
- VAN RIEP, NEWLAND J., Long Island
City, L. I.
27 Specimens, Belemnites and
Shells, from Marlboro, N. J.
- VERTEBRATE PALEONTOLOGY, De-
part of, Museum (Transfer).
2 Trays of fossil plants from Bear
Creek, Montana; fossils, natural
casts (chalcedony) nut meats, 2
Specimens of wood, from Nebras-
ka; invertebrate fossils (Creta-

ceous), from west of Clark, Wyoming.

WARRENS, FRANK, New York City.
Pelecypod, from Williamsburg Bridge excavation.

BY EXCHANGE

AMERICAN UNIVERSITY, Beirut, Syria.
19 Fossil plants from Syria.

EVERHART MUSEUM, Scranton, Pa.
(R. N. Davis).

Carboniferous fossils, from Scranton and vicinity, 52 Fossil ferns, from Pittston, and Scranton, Pa.

GEOLOGICAL SURVEY AND MUSEUM, London, England.

26 Iron ores, from England.

BY PURCHASE

Meteorite (1414 grams) from Zaffra, Oklahoma.

7 Meteorodes (Brenham) 900 grams

1 Set of 30 lantern slides of volcanoes.

Key map to the Grand Canyon by Dr. Nelson H. Darton.

74 Pre-Cambrian rocks, from New York State.

1 Fulgurite from George County, Mississippi.

BY EXPEDITION

REEDS, DR. CHESTER A.

6 Samples of sand and clay from Mauer, 13 Samples of clay from Zehdenick, 20 Rocks from Leipzig and Mauer, Germany, and Badgastein, Austria.

VERTEBRATE PALÆONTOLOGY

BY GIFT

ABEL, PROF. O., Vienna, Austria.

Skull of *Hyracodon nebrascensis*, from Coryell County, Texas.

ANDERSON, PERRY AND SON, Yuma, Colo.

Indian scraper from Sand blow-out near Yuma, Colo.

BARBOUR, DR. E. H., Lincoln, Nebr.
Casts of crowns of 2 Proboscidean teeth, cast of Proboscidean tooth, from Campbell and Butler Counties, Nebraska.

BARTON, OTIS, New York City.
Collection of fossil mammals from Lower Pliocene, from Maragha, Persia.

BULLWINKEL, J. T., New York City.
3 Specimens of fossil mammals from Lower Pliocene of Florida.

DOUGHTY, GEORGE D., Post, Texas.
30 Triassic fossils, from Crosby County, Texas.

FOSTER, DR. ELLIS EDWIN, Fort Lauderdale, Fla.

Second phalanx of a fossil horse, *E. complicatus*, from Wrightsville Beach, N. C.

GEOLOGICAL PALÆONTOLOGICAL INSTITUTE OF THE UNIVERSITY OF BERLIN, Germany (Dr. W. O. Dietrich).

1 Sectioned molar 3 of *Stegodon airāwana*, from Trinil, Java.

GEOLOGICAL SURVEY OF CHINA, Peiping, China.

Cast and model of the first tooth of *Sinanthropus pekingensis*, described by Dr. Black, from Chou Kou Tien District, China.

GEOLOGICAL SURVEY OF INDIA, Calcutta, India.

Plaster cast of geological specimen — *Tetrabelodon* tooth.

GREENE, H. F., Coronet, Fla.

Lower molar tooth of Sirenian.

HARAM, HANS, New Bedford, Mass.

Upper molar 3 of *Mastodon americanus*, found near Ambrose Light Ship.

ICHTHYOLOGY, Department of, Museum (Transfer).

2 Fossil shark teeth *Carcharodon megalodon*.

MATSUMOTO, PROF. HIKOSHICHIRO,
Sendai, Japan.

Cast of cheek tooth of *Prostegodon latidens*, from Japan.

PERISTANES, I. C., Paphos, Cyprus.
Fragmentary limb bones of *Hipopotamus minutus*, from Cyprus.

REID, JOHN T., Lovelock, Nev.
Mesozoic concretion, from Lander County, Nevada.

SHAW, IKE, Fort Myers, Fla.
1 Cougar skull, 1 Worm, from Florida.

WALKER MUSEUM, University of
Chicago, Chicago, Ill.

6 Slabs containing Amphibian footprints from the Permian, near Castle Peak, Abilene, Texas.

BY EXCHANGE

BERCKHEMER, DR. F., Stuttgart, Germany.

Cast of skull of *Proganochelys quenstedti*, fossil turtle, from Sandstones of Keupers.

FIELD MUSEUM OF NATURAL HISTORY, Chicago, Ill.

Cordillerion andium skull and jaws, from Bolivia.

UNIVERSITY OF CALIFORNIA, Berkeley, California (Dr. W. D. Mathew).

Pleistocene mammal material from Rancho la Brea, including *Taxidea*, *Mustela*, *Citellus*, *Mephitis*, *Thomomys*, *Sylvilagus*, *Gymnogyps*, *Geococcyx*, *Asio*, from California.

UPSALA UNIVERSITY, Upsala, Sweden (Dr. C. Wiman).

Fossil mammals from Mongolia.

BY PURCHASE

Palate and lower jaw, right of *Elephas imperator*, from near Sonora, Mexico.

Pleistocene elephant skull, *Palaeoloxodon antiquus*, from Pignataro, Italy.

BY EXPEDITION

BROWN, BARNUM

50 Specimens—Pleistocene and recent fossils, consisting of Mammals, Reptiles and Fishes, from near Sarasota, Florida.

16 Specimens—Mineral samples, fossils, Indian work, from Nevada.

CENTRAL ASIATIC EXPEDITIONS (W. F. Collins).

3 Pleistocene eggs—2 *Struthiolithus* eggs, 1 unknown species, from China.

36 Cases Mongolian fossils.

3 Fossil specimens *Amebelodon* incisors, from Mongolia (Walter Granger).

FLORIDA GEOLOGICAL SURVEY, Tallahassee, Florida (Dr. G. G. Simpson).

About 30 specimens of Miocene mammals, from Florida.

HOLMES, WALTER W. (Dr. G. G. Simpson).

About 10 specimens Pliocene vertebrates, from near Bradenton, Florida (Carl Sorensen).

7 Boxes Pleistocene mammals, from near Bradenton, Florida.

JOHNSON, AL, Buffalo Lake, Montana.
Washed-out fragments of specimen No. 5464, 1916 Collection, from Montana.

SILBERLING, ALBERT C., Harlowton, Mont.

About 150 specimens, small mammal, reptile, and invertebrate material, from Ft. Union beds, Sweetgrass, Montana.

SIMPSON, DR. GEORGE GAYLORD.

Fossil mammals, from Farmington, New Mexico.

WILLIAMS, COLEMAN S., Quercy, France.

Several dozen jaws and palates of mammals from the Phosphorites of Quercy, France; Limb bones and specimens in matrix.

LOWER INVERTEBRATES

By GIFT

ANONYMOUS

Parasitic isopod *Livoneca ovalis*
(Say) 1818, from Bellport, L. I.

ANTHONY H. E., New York City.

Myriapod, from Maguinas, Ecuador.

BOONE, MISS LEE, New York City.

Specimen of the crustacean *Lysiosquilla glabruiscula* Lamarck,
from Palm Beach, Fla.

BRADY, M. K., New York City.

25 Specimens of crawfish, *Cambarus diogenes* Girard, 1852, from Gates Co., near Winton, N. C.

BROOKLYN MUSEUM, Brooklyn, N. Y.

Collection of 1404 invertebrates
from various localities.

BURT, C. E., New York City.

Specimen of leech, from Pine Ridge, S. D.

CHAMBERS, LESLIE A., Princeton,
N. J.

9 Specimens of nudibranchs, *Embletonia fuscata* Gould, 1870,
from Barnegat Bay, N. J.

CHENEY, DR. LYMAN A., Lockport,
N. Y.

34 Specimens of land shells, from
Lockport.

COCKERELL, MRS. T. D. A., Boulder,
Colo.

4 Specimens identified land shells
(2 species), from New Caledonia.

CONSTABLE, LOUISE (Estate of),
Mamaroneck, N. Y.

Frederick A. Constable Collection
of Shells, including about 35,000
named specimens, among which
are many rare species and excep-
tionally fine examples of other
species; also series of corals,
gorgonians, echinoderms.

DAMON, MRS. A. C. (Estate of), New
York City!

Collection of about 4,000 land and

marine shells and other inverte-
brates.

DIXON, C. C.

Bottle of bottom samples, from
plateau between New Zealand
and Antipodes Is., Australia.

ETTMAN, SPENCER, Neponsit, L. I.

Pecten shell, from Neponsit.

FERGUSON, MISS LUCY R., Fernan-
dina, Florida.

5 Specimens of *Amphinome rostrata*
Pallas, from Cumberland I., Ga.

FERGUSON, ROBERT, South Dart-
mouth, Mass.

1 Annulate, from Cumberland I.,
Ga.

FISHER, MRS. E., Ithaca, N. Y.

Collection of land and marine
shells, echinoderms, approxi-
mately 2,000 specimens.

GAGNE, ANTHONY, New York City.

Hair worm, from Peekskill, N. Y.

GEE, DR. NATHANIEL GIST, Peking,
China.

47 Specimens identified fresh-water
sponges (39 species), from vari-
ous localities.

HERPETOLOGY, DEPARTMENT OF, Mu-
seum. (Transfer).

2 Centipedes, from Honda, Japan.

HOFFMANN, PROF. W. H., Havana,
Cuba.

2 Specimens parasitic isopods.

HOLZWARTH, F. A., Amityville, L. I.

8 Young clam shells, from Amity-
ville.

HUNTLEY, R.

92 Specimens of marine shells.

ICHTHYOLOGY, DEPARTMENT OF,
Museum. (Transfer).

20 Specimens identified crustacea
—echinoderms and shells (8
species).

IVES, H. DAVIS, Southampton, L. I.

2 Vials pink beach sand containing
minute mollusk shells, from
Bermuda.

- JOHNSON, R. D. O.
1 Crab, 1 myriapod, from Atrato River, Colorado.
- KELSENER, MRS. W. W., New York City.
Collection of 350 marine shells, 3 corals, 1 sponge, 2 sea urchins.
- MARSHALL, BYRON C., Imboden, Arkansas.
Land shell with animal expanded, from San Marcos, Texas.
- MILLER, CAPTAIN THOMAS I., Staten Island, N. Y.
3 Fresh-water jellyfish *Craspedacusta sowerbyi* Lankester, from Indian Lake, Ky.
- MYERS, FRANK J., Ventnor, N. J.
33 Slides mounted and identified rotifers, including 2 types, 31 species.
- OLDROYD, MRS. IDA S., New York City.
2 Specimens identified shells—2 species—*Siliqua alta* Brod and Sow, *Siliqua patula* Dixon, from Kurkak Bay, Kadiak I., Alaska.
- RANSON, ROBERT, St. Augustine, Florida.
1 Specimen *Macrobrachium jamai-cense* Herbst, from St. Augustine, Fla.
- RICHARDS, HORACE G., Philadelphia, Pa.
8 Specimens identified ascidians (3 species), from Cape May, N. J.
- SCHELLBACH, LOUIS, New York City.
3 Specimens of fresh-water mussel, *Gonidea angulata* Lea 1838, from Snake River Canyon, Owyhee Co., Idaho.
- SHAW, IKE, Fort Myers, Florida.
1 Specimen of the lug-worm *Arenicola cristata*, from Fort Myers, Fla.
- SHEN, CHARLES J., Peking, China.
42 Specimens of shrimps.
- SLOAN, COL. A. B., New York City.
2 Giant clam shells *Tridacna gigas* Lamareck, from Philippine Is.
- SMITH, MRS. F. A., Troy, N. Y.
5 Specimens marine shells.
- TITUS, C. P., East Orange, N. J.
16 Specimens of ascidians from the coasts of France, Massachusetts and New York.
- TREADWELL, PROF. A. L., Poughkeepsie, N. Y.
67 Identified annulates, 20 species, including 1 specimen *Acetes magnifica* Treadwell (type), from Puget Sound, Washington, West Indies, Bermuda, Florida.
220 Specimens identified annulates, including 1 type and 13 species, from Puget Sound, Washington.
- 10 Fresh-water annulates *Manayunkia speciosa* Leidy, from Duluth Harbor Stream, Minn.
- 11 Identified annulates—10 species, from Bar Harbor, Maine.
- 8 Identified annulates—8 species, from California.
- 6 Identified annulates—2 species, from Nova Scotia.
- VAN NAME, DR. W. G., New York City.
1 Specimen of *Balanus balanus* Linnaeus on *Modiolus modiolus* Lamareck, from Port Clyde, Maine; collection of 30 Invertebrates from Cold Spring Harbor, L. I., 2 Fresh-water shells *Planorbis trivolvis* var. *fallax*, from Troy Marshes, N. Y.
- WATSON, FRANK E., New York City.
Colony of worm tubes *Hydroides dianthus* Verrill, 1873, from Long Beach, L. I.
- WELCH, d'ALTI, New York City.
19 Specimens identified land shells, 4 species, from Cuba.
- WILDER, GERRIT P., Honolulu, Hawaii.
Starfish, from Raratonga, Cook Islands.

WILLIAMS, R. S., New York City.

- 1 Specimen *Antipatheia* sp., from Santa Cruz, Philippine Is.

By EXCHANGE

PETERSEN, MISS WALBURGA, Chicago, Ill.

- 3 Specimens shrimps, *Ortmannia mexicana* de Sanssüre, 1858, from Barro Colorado I., Canal Zone.

UNIVERSITY OF MICHIGAN, Ann Arbor, Mich. (Prof. E. P. Creaser).

- 2 Specimens of isopods, *Cubaris gigas* Miers from Fundacion, Colombia.

By PURCHASE

- 200 Specimens of brine shrimps, *Artemia salina* Linnæus, from Epsom Lake, Oroville, Washington.

By EXPEDITION

CHAPIN, DR. JAMES P.

- 9 Specimens of myriapods, from Pará, Brazil.

DE SOLA CUBA EXPEDITION. (Ralph De Sola).

- 75 Specimens land and marine shells, 2 sea urchins, from Cuba.

GULF OF GUINEA EXPEDITION. (J. G. Correia).

- 3 Shells, 1 slug, from São Thomé Island, Gulf of Guinea.

LEE GARNETT DAY RORAIMA EXPEDITION. (G. H. H. Tate.)

- Collection of invertebrates, 70 specimens, from Mt. Roraima, British Guinea.

NOBLE, DR. G. K., AND B. C. MARSHALL.

- 62 Specimens identified crustaceans, 9 species; 25 specimens unidentified crustaceans, from Texas and Missouri.

RUWENZORI-KIVU EXPEDITION. (Dr. James P. Chapin, DeW. L. Sage, and F. P. Mathews).

- 1 Land shell with animal expanded, from Njega's, Kenya Colony, East Africa.

TYLER DUIDA EXPEDITION. (G. H. H. Tate and T. Donald Carter).

- 2 Crabs, 10 shells, 5 myriapods, from River Surumo, Brazil.

VERNAY-BUTLER EXPEDITION. (A. S. Vernay and A. E. Butler.)

- 1 Crustacean, 2 holothurians, from Burma.

ENTOMOLOGY

By GIFT

AINSLIE, C. N., Sioux City, Iowa.
50 Flies.

ARKENBURGH, MISS GLADYS S., New York City.

Nest of Trapdoor spider.

AVON COLLEGE, Avon Old Farms, Conn.

120 Lepidoptera, 3 Coleoptera, from West Indies and Trinidad.

BECK, MRS. R. H., San José, Calif.

160 Insects of various orders from New Guinea.

BELL, E. L., Flushing, N. Y.

648 Lepidoptera, from various localities, 91 Lepidoptera, from Nebraska, 110 Lepidoptera, from Trinidad, S. A.

BEQUAERT, DR. JOSEPH, Boston, Mass.

17 Meliponid bees, from Chichen Itza, Yucatan; 1 paratype of *Pepsis bequaerti*, from Texas.

BERNHEIMER, CHARLES L., New York City.

Nest of Trap-door spider.

BRITISH MUSEUM (NATURAL HISTORY), London, England.

Paratype of fly, *Edwardsina nigra* Edwards, from Patagonia.

BROWN, F. MARTIN, Avon, Conn.

250 Lepidoptera, from various localities.

CANADIAN GOVERNMENT, Ottawa, Ontario, Canada.

- More than 1,000 named Diptera, from North America.
- COCKERELL, PROF. T. D. A., Boulder, Colo.
- 4 Meliponid bees, 2 cotypes *Augochlora*, from British Guiana; 53 Melipondæ, 10 miscellaneous named Hymenoptera, 26 Diptera, 1 lepidopteron, from British Guiana and elsewhere; about 60 insects, including *Trigona*, from Siam; *Andrena* and other Hymenoptera, unnamed flies, from South America; 130 Specimens of Lepidoptera, from Chiangmai, Siam; type and paratype of *Chionaspis asparagi*, scale insect, from Natal, Africa; Atlas moths, flies, beetles, sphingids, from Chiangmai, Siam; 33 Insects, chiefly Lepidoptera, from Chiangmai, Siam; 24 Named insects of different orders, mostly Diptera and Coleoptera, from Philippine Is., India, Arizona, etc.
- COOPER, K. W., Flushing, N. Y.
- 1 Beetle.
- CRANDALL, L. S., New York City.
- 21 Insects and spiders from New Guinea.
- CURRAN C. H., New York City.
- 11 Type specimens including *Mesogramma nigriventris* Curran ♂; *Mesogramma nitis* Curran ♀; *Mesogramma vierecki* Curran ♀; *M. Productus* Curran ♂ and ♀; *Eristalis vierecki* Curran ♂; *Baccha macer* Curran ♂; *Baccha mentor* Curran ♂; *Volucella aricia* Curran; *Ornidia major* Curran; *Copestylum salti* Dobrosky.
- DAVIDSON, W. M., Vienna, Va.
- Diptera, from Europe.
- DAVIS, JOHN L., New York City.
- About 25 live specimens of Beetles, *Gibbium psylloides*, from New York City.
- DE VILLIERS, G. F. E., Broken Hill, N. Rhodesia, Central Africa.
- 21 Insects, from Broken Hill, Central Africa.
- DUNCAN, MISS M. V., Richmond Hill, N. Y.
- Collection of about 162 insects, chiefly Lepidoptera.
- FRASER, DONALD, Johnstown, New York.
- Butterfly, *Choranthus* sp., from Porto Rico.
- GUNDER, J. D., Pasadena, Calif.
- 12 Butterflies, from California.
- HOFFMAN, DR. W. A., San Juan, Porto Rico.
- 9 Beetles, 42 other Insects, from Porto Rico.
- HUNTINGTON, E. I., New York City.
- 260 Lepidoptera, from Trinidad, S. A., and West Indies.
- JOHNSON, FRANK, Glen Ridge, N. J.
- 499 Lepidoptera, 3 Hymenoptera from Cauca Valley, Colombia, S. A.
- KELCHNER, MRS. WM. W., New York City.
- 1 Breeding cage, 1 Butterfly net.
- KLOTS, A. B., Ithaca, N. Y.
- 49 Lepidoptera, including 3 types; 60 named Lepidoptera from Colorado and Wyoming.
- KNOWLTON, GEORGE F., Logan, Utah
- 10 Diptera, from Utah.
- LA TOUCHE, R. W. D., New York City.
- Collection of about 400 insects, chiefly Lepidoptera, from Angola, West Africa.
- LEMMER, FREDERICK, Irvington, N. J.
- 2 *Catocola herodias gerhardi* and 2 eggs of same, Lakehurst, N. J.
- LUDER, MISS MAUDE, New York City.
- 1 Dragon fly, from New York City.
- LUNDELL, C. L., New York City.
- 250 Insects and spiders, from British Honduras.
- MANK, MISS E. W., Lawrence, Mass.

- Beetle, *Tilea longipalpus*, from Glacier Park, Montana.
- MATHIAS, W. C., Portland, Oregon.
79 Insects of various orders, from Oregon.
- MEADOWCROFT, KIRK, New York City.
60 Insects, from Cuba.
- MOLLER, T. FRED, Hasbrouck Heights, N. J.
Live spider and egg sac, from Hasbrouck Heights, N. J.
- OLSEN, CHRIS E., New York City.
Type of *Guayaquila olseni*, from Prieta Republic, Honduras.
- RICHARDS, A. G., JR., Ithaca, N. Y.
3 Lepidoptera, 1 from Georgia, 2 from California.
- SCHOFF, CHAS. O., Brooklyn, N. Y.
3 Beetles, from New Guinea.
- SCULLEN, PROF. H. A., Corvallis, Ore.
9 Anthidiine bees, mostly from Oregon.
- STOLLMAYER, C. REX, Trinidad, B. W. I.
7 Lepidoptera from Trinidad.
- SWYNNERTON, C. F. M., Tanganyika, East Africa.
30 Tse-tse flies, *Glossina swynner-toni*, from Tanganyika.
- WAINWRIGHT, COLBRAN J., Birmingham, England.
300 European Tachinidæ.
- WALKER, PROF. E. M., Toronto, Canada.
Grylloblatta campodeiformis, from Jasper Park, Canada.
- WOOD, WM. C., New York City.
About 280 Lepidoptera.
- ZAPPE, M. P., New Haven, Conn.
20 Insects, 6 Beetles, from Connecticut.
- adult, from Kalahari, S. W. Africa.
- CANADIAN GOVERNMENT, Ottawa, Canada. (Through Mr. W. J. Brown).
44 Specimens of beetles, including 29 paratypes.
- CUSTER, C. P., Denver, Colorado.
4 *Coelioxys*, 6 *Perdita*, from the West.
- ROGERS, CHARLES H., Princeton, N. J.
23 Insects, from Alaska.
- UNITED STATES NATIONAL MUSEUM, Washington, D. C.
1 Beetle, *Ababa tantillus* Lec. from near Liberty, Texas.
- UNIVERSITY OF KANSAS, Lawrence, Kans.
13 Specimens of *Clastoptera* (Hemiptera), including 3 paratypes.
- BY EXPEDITION
- CURRAN, C. H.
7,500 Insects of all orders from Panama and Canal Zone.
- DEPARTMENTAL FIELD WORK (C. H. Cuiran and F. E. Watson).
10,000 Insects, various orders, from Tuxedo, N. Y.
- GULF OF GUINEA EXPEDITION (J. G. Correia).
6 Arachnids, more than 54 insects, from São Thomé.
- LEE GARNETT DAY RORAIMA EXPEDITION (G. H. H. Tate).
1,100 Insects and spiders, from Mt. Roraima, British Guiana.
- RUWENZORI-KIVU EXPEDITION (Dr. James P. Chapin).
8 Hippoboscidæ, from Africa.
- TYLER DUIDA EXPEDITION (G. H. H. Tate).
3,100 Specimens of insects and spiders, from Mt. Duida and vicinity.
- WHITNEY SOUTH SEA EXPEDITION.
6 Orthoptera, from Goodenough Is.
- BY EXCHANGE
- BRITISH MUSEUM (Natural History), London, England.
8 Specimens *Diamphidia nigro-ornata*, larva, pupal cases and

ICHTHYOLOGY

BY GIFT

BECKMANN, CHARLES D., Brooklyn, N. Y.

World record channel bass, *Sciaenops ocellatus*, from near Chincoteague, Va.

CORSON, R. H., Jersey City, N. J.

2 Young *Rhinoptera bonasus*, from Myrtle Bay, Virginia.

CRANDALL, A. J., Ashaway, R. I.

1 Fish hook, 1 "Zane Grey" deep sea reel line.

DAVIES, MRS. FREDERICK MARTIN, New York City.

African pompano (very fine mount), from Long Key, Florida.

EVANS, SILVANUS G., New York City.

Fossil fish *Dictyopyge*, from Australia.

FISH, MRS. CHARLES, Buffalo, N. Y.

2 Eel tails.

FRIENDS AND COLLEAGUES OF DOCTOR BASHFORD DEAN.

Bronze portrait tablet of Bashford Dean.

GERMANN, MR. AND MRS. JOHN C., New York City.

1 Black bass roe, from Kensico Lake, N. Y.

GREY, DR. ZANE, Altadena, California.

1 Black Marlin skin from New Zealand, and commission to mount same at Dr. Grey's expense for the Zane Grey Fish Collection.

HARBICHT, DARWIN, Ingomar, Mont.

Pharyngeal bone, 2 Vertebrae *Mylocyprinus*, from Idaho.

HERPETOLOGY, DEPARTMENT OF, Museum. (Transfer).

10 Small fishes, from Texas.

JANSON, ARTHUR A., New York City.

1 Trout, 1 Herring, from Lake Keuka, N. Y.

KELLY, H. A., Baltimore, Md.

Small fish, from Esmeralda Swamp,

Eustis, Fla.

KENNEDY, DONALD G., Oamaru, New Zealand.

2 Quarts Ruvettus oil (fish oil) from Ellice Islands.

KOERNER, H., Boulder, Colo.

3 Fossil fishes, *Pholidophorus americanus*, from New Mexico.

LOWER INVERTEBRATES, DEPARTMENT OF, Museum. (Transfer).

About 35 dried fishes (Gift of estate of A. C. Damon).

Set of fish (trout) egg models.

MAMMALOGY, DEPARTMENT OF, Museum. (Transfer).

2 Dried shark heads, 1 dried barracuda head, from coast of Africa.

NEW YORK ZOOLOGICAL SOCIETY, New York City.

2 Electric eels.

PETERSON, MISS WALBURGA, Chicago, Ill.

2 Vials, about 20 specimens, of fishes, *Gambusia*, from Barro Colorado I., Canal Zone.

SMITH, DR. HOMER, New York City.

Head of lung-fish *Protopterus*, from Africa.

TAYLOR, DR. C. S., New York City.

2 Photographs of sea drum.

THURSTON, HENRY, New York City.

1 Sturgeon (*Acipenser sturio*), from Montrose, N. Y.

TORRANCE, DR. HERBERT W., Tiberias, Palestine.

6 Cichlid fish with eggs in their mouths, from waters of Merom, Palestine.

U. S. BUREAU OF FISHERIES, Washington, D. C.

Pug-headed sea bass, from Washington Fish Market.

VANDERBILT, W. K., New York City.

17 paintings by William Belanske, with reproduction by Rudge, of fishes taken on the 1928 world cruise of Mr. Vanderbilt's yacht "Ara."

BY EXCHANGE

AMERICAN UNIVERSITY Beirut, Syria
(Dr. Alfred E. Day).

About 170 slabs of fossil fishes,
from Mt. Lebanon district, Syria.

BROOKLYN MUSEUM, Brooklyn, N. Y.
About 600 fishes in preservative.

INDIAN MUSEUM, Calcutta, India
(H. L. Hora).

3 Fresh-water fishes, from Cherrapunji, India.

MUSEO CIVICO DI STORIA NATURALE,
Milano, Italy (Prof. Dr. Luisa
Gianferrari).

2 Aegean fishes, from Rodi Island.

BY PURCHASE

Siamese twins of the piked dog-
fish, *Squalus acanthias*, from
mouth of Shark River, New
Jersey.

BY EXPEDITION

CARLISLE-CLARK AFRICAN EXPEDI-
TION.

10 Alcoholic specimens of fish, from
Tanganyika Territory.

TYLER DUIDA EXPEDITION.

About 150 South American fishes.

HERPETOLOGY

BY GIFT

ANDERSON, WALTER, Bergenfield,
N. J.

2 Living frogs, from Bergenfield,
N. J.

ANONYMOUS.

1 Salamander; 2 Tadpoles, from
Africa.

BURT, CHARLES E., New York City.

3 Skinks, from Bermuda; 21
Salamanders, 9 Frogs, 2 Toads,
206 Lizards, 17 Snakes, from
United States.

CARNOCHAN, F. G., New York City.

3 Frogs, 11 Lizards, 13 Snakes,
from Africa.

CARR, WILLIAM H., New York City.

50 Salamanders, 20 Toads, 2 Black
snakes, 19 Musk turtles, from
Bear Mountain, New York.

DRS. MRS. ALICE, Berkeley, Calif.

2 Living salamanders, from Berke-
ley.

HADLEY, CHARLES E., West Orange,
N. J.

4 Lizards, from Bermuda.

HEILNER, VAN CAMPEN, New York
City.

1 Boa, from Bahamas.

HOWES, PAUL G., Greenwich, Conn.

8 Frogs, from Mount Diablotin,
Santo Domingo.

HYDE, B. T. B., New York City.

2 Lizards, from New Mexico.

JACKSON, RALPH W., Cambridge, Md.

1 Garter snake, 1 Hog-nosed snake,
from Cambridge, Md.

KLAUBER, L. M., San Diego, Cal.

5 Salamanders, from San Diego,
Cal.

KLINGEL, GILBERT C., Baltimore, Md.
Motion picture film of "Lizard-life
in Haiti."

KOPSTEIN, FELIX, Vienna, Austria.

1 Albino turtle, from Tji Mannk,
West Java.

KUNZE, E. A., Jersey City, N. J.

2 Fence lizards, from Peekskill,
N. Y.

LA BRUCE, J. L., Georgetown, S. C.

9 Snakes, 7 Snake eggs, 6 Turtle
eggs, from Hasty Point Planta-
tion, Georgetown, S. C.

LANDHOLM, MRS. EARLE M., Bris-
tow, Neb.

10 Frogs, 11 Garden toads, from
Bristow, Nebraska.

LUTZ, FRANK E., New York City.

4 Frogs, from West Indies.

MARSHALL, BYRON C., Imboden,
Arkansas.

33 Salamanders, some eggs and
tadpoles of the narrow-mouthed
toad, 40 Eggs of the fence lizard,
33 Snakes, from Imboden, Ark.

MARX, J. B., Cincinnati, Ohio.

- 2 Watersnakes, 1 Grass snake, from Tomioka-Kanazawa, near Yokohama, Japan.

MILLARD, OLIVER, San Francisco, Cal.

- 3 Salamanders, 1 Frog, 1 Toad, 2 Spiny swifts, 1 Snake, from San Francisco County, Cal.

MILLER, W. DEWITT, New York City.

- 1 Grass snake, from Moe, N. J., 1 Water snake, from Warren Co., N. J., 1 Hog-nosed snake, from Plainfield, N. J.

MOHR, ERNA, Ahrensburg, Germany.

- 3 Salamanders, 10 Frogs from Lohr a. M., Bavaria, Germany.

MURPHY, ROBERT C., New York City

- 3 Geckos, from Dominica.

NEW YORK AQUARIUM, New York City.

- 5 Turtles, from Galapagos Archipelago.

NEW YORK ZOOLOGICAL SOCIETY, New York City.

- 2 Salamanders, 2 Toads, 9 Lizards, 55 Snakes, 4 Turtles, 1 Crocodile egg.

PARKS, H. B., San Antonio, Texas.

- 1 Gecko, San Antonio, Texas.

SCHIFFER, PINNY, New York City.

- 1 Black snake, 1 Worm snake, 10 Garter snakes, from Westchester Co., N. Y.

SNYDER, CHARLES E., New York City.

- 1 Rattlesnake, 2 Copperheads, from vicinity of New York City.

STONE, GEORGE C., New York City.

- Shell of a snapping turtle.

STOTSKY, ISIDORE, New York City.

- 26 Salamanders, from Long Island, 23 Salamanders, from Westchester Co., N. Y.

THORNTON, J. T., Watsonis, Alabama.

- 1 Snake, from Bigbee River Swamp, Ala.

TURNER, MRS. C. L., New York City.

- 4 Snake skins, from Nevada.

VAN HYNING, T., Gainesville, Fla.

- 1 Cluster of salamander eggs (Congo eel), from Gainesville, Fla.

WEBER, J. A., Leonia, N. J.

- 19 Salamanders, from New Jersey and Pennsylvania; 1 Set of frog eggs, from New Jersey.

WOLTERSTORFF, W., Magdeburg, Germany.

- 4 Newts, from Bosnia.

ZAVADOVSKY, BORIS, Moscow, U. S. S. R.

- 1 Lot of fowl skins showing effect of thyroid feeding upon plumage.

BY EXCHANGE

BRITISH MUSEUM (NATURAL HISTORY), London, England.

- 2 Frog tadpoles, from Siam, 2 Frog tadpoles, from Annam; 1 Adult and 2 tadpoles of a Chinese toad, 1 Turtle from China.

BROOKLYN MUSEUM, Brooklyn, N. Y.

- 600 Specimens of reptiles and amphibians.

CALIFORNIA ACADEMY OF SCIENCES, San Francisco, Calif.

- 6 Salamanders, from South Farallone Island.

DRS. MRS. ALICE, Berkeley, Calif.

- 60 Salamanders, from California.

GEYER, HANS, Regensburg, Germany.

- 11 Pyrenean newts, from southern France, 21 Sardinian cave salamanders, Lanusa, Sardinia, 14 Italian cave salamanders, Genoa, Italy, 18 Spanish newts, from Cadiz, Spain, 15 Common newts, from Dalmatia, 8 Common newts, from Regensburg, Germany.

HANSEN, E. E., Iron Wood, Mich.

- 39 Red-backed salamanders, Four-toed salamander, from near Traverse City, Mich.

KLAUBER, L. M., San Diego, Cal.

- 50 Frogs, 17 Lizards, from San Diego Co., Calif.

MARHERR, E., Schmalkalden, Germany.

9 Frogs, from Bavaria, Germany.

MELL, R., Berlin-Steglitz, Germany.

5 Frogs, from China.

BY PURCHASE

1 Lizard, from Arizona.

216 Salamanders, some larvæ and eggs of the leopard frog, 45 Snakes, from Imboden, Arkansas.

60 Salamanders, 117 Lizards, from Ashburn, Ga.

42 Salamanders, from Leonia, N. J.

359 Salamanders, from Bayside, L. I.

61 Salamanders, from Nepperhan Park, Westchester Co., N. Y.

1 Amphibian and 104 Reptiles, from Cameroon, West Africa.

Series showing life history of a frog, from South Africa.

45 Lizards, from Vinales, Cuba.

1 Frog, from Brickaville District, Madagascar.

832 Lizard eggs, 12 Young geckos, from Samaná, Santo Domingo.

BY EXPEDITION

ACKLAND, MYRON.

3 Frogs, 1 Toad, 7 Lizards, 2 Snakes, from Okefinokee Swamp, Ga.

BRADY, MAURICE K.

4 Salamanders, Darien, Fairfield Co., Conn.; 59 Salamanders, from Rock Creek Park, D. C.; 6 Salamanders, Newark Water Shed, N. J.; 35 Salamanders, 1 Snake, from Grassy Sprain Reservoir, N. Y.; 298 Salamanders, 7 Frogs, 3 Lizards, 2 Snakes, from northeast of Winton, Gates Co., N. C.; 280 Salamanders, 3 Frogs, from Winton, Hertford Co., N. C.; 39 Salamanders, 10 Frogs, 1 Toad, 1 Lizard, 3 Snakes, 4 Turtle eggs, Lake

Phelps, Tyrell Co., N. C., 41 Salamanders, Giles Creek, Fairfax Co., Va.

BURT, CHARLES E., AND BURT, MAY DANHEIM.

510 Amphibians, 40 Reptiles, from Mississippi Valley; 43 Frogs, 7 Toads, 50 Lizards, 22 Snakes, 2 Turtles, from Nebraska and South Dakota; 1 Box Turtle, from Mount Holly, N. J.; 224 Amphibians, 65 Lizards, 24 Snakes, 6 Turtles, from Texas.

BURT, C. E., AND BRADY, M. K.

58 Salamanders, 6 Frogs, 15 Lizards, 1 Snake, from Lakehurst, N. J., and Staten Island, N. Y.

CARLISLE-CLARK AFRICAN EXPEDITION.

1 Frog, 3 Chamaeleons, 2 Snakes, from Tanganyika Territory, Africa.

DALEO, ANTHONY.

53 Salamanders, 7 Salamander egg clusters, 78 Frogs, 8 Frog egg clusters, 1 Snake, from near New York City.

DE SOLA, C. RALPH.

1 Toad, 320 Lizards, 12 Lizard eggs, 3 Snakes, from Cuba.

EVANS, GERTRUDE.

15 Salamanders, from Washington Valley, near Morristown, N. J.

FARRIS, E. J.

128 Salamanders, 156 Frogs, 205 Amphibian egg clusters, 7 Snakes, 3 Turtles, 11 Turtle eggs, from vicinity of New York City.

FARRIS, E. J., AND DALEO, ANTHONY.

33 Salamanders, 6 Frogs, 1 Snake, from near New York City.

GULF OF GUINEA EXPEDITION (J. G. Correia).

1 Frog, 5 Lizards, 2 Snakes, from São Thomé Island, West Africa, 5 Lizards, Fernando Po, West Africa.

HASSLER FLORIDA EXPEDITION.

347 Salamanders, 49 Frogs, 5 Lizards, 33 Snakes, 3 Turtles, from Gainesville, Fla.; 3 Lizards, 12 Snakes, from Kanapha Prairie, Fla.

HASSLER, WILLIAM G., FARRIS, E. J., AND RICHARDS, LEAH.

138 Salamanders, 84 Frogs, 1001 Amphibian egg clusters, 12 Snakes, near New York City.

HEILPRIN-HASSLER EXPEDITION.

817 Lizards, 2603 Lizard eggs, 35 Snakes, from Samaná, Santo Domingo.

KLINGEL, GILBERT C.

114 Lizards, 109 Lizard eggs, 2 Snakes, from San Marc, Haiti.

MARSHALL, BYRON C.

4 Snakes, 1 Turtle, from Imboden, Arkansas.

NOBLE, G. KINGSLEY.

55 Salamanders, 17 Turtles, from vicinity of New York City; 25 Salamanders, 3 Snakes, from Bear Mountain, N. Y.; 926 Salamanders, 4 Frogs, from Woods Hole, Mass.

NOBLE, G. K., AND BRADY, M. K.

140 Salamanders, 5800 Salamander eggs, 7 Frogs, 8 Toads, 1 Lizard, 8 Snakes, from Mt. Vernon, Fairfax Co., Va.

OLALLA BROS.

2 Lizards, 2 Snakes, from Brazil.

RUWENZORI-KIVU EXPEDITION (Dr. J. P. Chapin, DeW. L. Sage, F. P. Mathews).

4 Frogs, 3 Toads, 6 Lizards, 1 Snake, from Africa.

SANFORD-LEGENDRE ABYSSINIAN EXPEDITION (T. Donald Carter).

4 Lizards, 2 Snakes, from Abyssinia.

TYLER DUIDA EXPEDITION.

72 Frogs, 10 Tadpoles, 39 Lizards, 26 Snakes, 12 Turtles, from Brazil and Venezuela.

VERNAY-BUTLER EXPEDITION (A. S. Vernay and A. E. Butler).

2 Frogs, 2 Tadpoles, 6 Lizards, 1 Snake, 1 Turtle, from Burma.

VERNAY-FAUNTHORPE EXPEDITION.

1 Dried snake skin.

WHITNEY SOUTH SEA EXPEDITION.

34 Frogs, 20 Lizards, 55 Snakes, from South Sea Islands.

ORNITHOLOGY

BY GIFT

BACON, MRS. C. G., Stockbridge, Mass.

1 Downy woodpecker, 1 Thrush.

BARTELS, HENRY, New York City.

1 Tinamou.

BEALS, MRS. M. V., Elmhurst, L. I.

1 Hermit thrush.

BOGART, PROF. MARSTON, New York City.

12 Eggs of *Corvus americanus* and *Myiarchus crinitus*.

BRINK, MISS LOUISE, Astoria, L. I.

1 Love-bird.

BROWNING, W. H., New York City.

1 Bishop bird.

CARNOCHAN, F. G., New York City.

379 Birdskins from East Africa.

CHAPMAN'S ZOOLOGICAL ANIMAL CORPORATION, New York City.

1 Maguari stork.

CHRISTMAN, W. W., Delanson, N. Y. Virginia rail from Schenectady, N. Y.

CITY LIBRARY ASSOCIATION OF SPRINGFIELD, Springfield, Mass.

187 Mounted birds from India.

CONSTABLE, F. A., New York City.

1 Ostrich egg.

CRUICKSHANK, ALLAN, New York City.

1 Bald eagle from Maryland.

CUMMINGS, DUNCAN R., Jackson Heights, L. I.

1 Gyrfalcon from Rhode Island.

CURTIS, K. P., Ancon, Panama.

2 Eggs of *Crax panamensis*.

- DE RIEMAECKER, J., Elisabethville,
Belgian Congo.
13 Birdskins from Belgian Congo.
- DWIGHT, DR. JONATHAN (Bequest).
Dwight Collection of Birds, con-
taining about 55,000 specimens,
largely from North and Central
America.
- FISHER, E. L., New York City.
1 Saw-whet owl.
- FOWLER, MR., Beechhurst, Long
Island.
1 Brown thrush.
- GEURTS, L., Luena, Katanga, Belgian
Congo.
1 Specimen of *Cosmetornis vexil-
larius*.
- GRANSTEDT, E., Engelholm, Sweden.
1 Mounted *Falco pelegrinus* ♂,
from Sweden.
- HARRIS, ANNA, New York City.
1 Brown creeper.
- HELMUTH, JR., W. T., New York
City.
1 Godwit from Shinnecock Bay,
Long Island.
- JOSEPH, ELLIS S., New York City.
1 Cockatoo, 1 emu, 1 peacock, 1
New Zealand sheldrake, 1 eared
vulture.
- KLEIN, A. J., Nairobi, Kenya Colony,
E. Africa.
1 Comb duck, *Sarkidiornis melanon-
otus*, from East Africa.
- KUERZI, RICHARD, New York City.
1 Loon, 1 Razor-billed auk.
- METCALF, JESSE, Georgetown, South
Carolina.
1 Whip-poor-will, *Antrostomus vo-
ciferus*.
- NAUMBURG, MRS. ELSIE M. B., New
York City.
3,618 Birdskins, 293 Specimens in
alcohol, from Brazil. Collected
by Emil Kaempfer.
- NEW YORK ZOOLOGICAL SOCIETY,
New York City.
1 Bulbul, *Chloropsis zosterops*, 2

Birds of paradise, 1 *Paradisæa
rubra*, 1 Cassowary, *Casuarus
papuanus*, 1 Chachalaca, 1
Cockatoo, 3 Colies, 1 Cactus
conure, 1 Haitian conure, 1 West
African crowned crane, 2
Crowned cranes, 1 White-necked
crane, 1 Demoiselle crane, 1
Harpy eagle, 1 European golden
eagle, 1 Iceland falcon, 1 Prairie
falcon, 1 Fantail flycatcher, 1
European flamingo, 1 Long-
billed Francolin, 3 Geese, 1
Alopochen jubata, 1 Grosbeak, 2
Sand grouse, *Pterocles s. sene-
galensis*, 1 *Gypætus barbatus
grandis* from Tian Shan, Asia, 1
Night heron, 2 Malayan pied
hornbills, 1 Wreathed hornbill,
1 Jabiru, 1 Lammergeyer, 1
Macaw, 1 Great horned owl,
1 Horned manucode, 1 Mynah,
1 Owl, 1 Giant eagle owl, 1
Great horned owl, 1 West Afri-
can owl, 1 Parrakeet, 1 Parra-
keet, *Platycercus venustus*, 1 King
parrakeet, *Aprosmictus cyanopy-
gius*, 1 Black-capped parrakeet,
1 Blue-rumped parrakeet, 1
Yellow-rumped parrakeet, 1
White-winged parrakeet, 1 Pen-
nant's parrakeet, 1 Parrot, 1
Parrot, *Amazona imperialis*, 1
Parrot, *Platycercus elegans*, 2
Partridges, 1 Brown-breasted
partridge, 1 Crested wood par-
tridge, 1 Java peacock, 1 Pelican,
1 Brown pelican, 1 American
white pelican, 1 Humboldt pen-
guin, 2 Common peacock pheas-
ants, 1 Silver pheasant, *Gen-
næus nychthemerus*, 2 Pigeons, 1
Wonga wonga pigeon from Syd-
ney, N. S. W., 2 Fruit pigeons, 1
White-fronted amethyst pigeon,
1 Pitta, *Pitta novæguineæ*, 2
Rails, 1 Virginia rail, 1 Rhea, 2
Yellow-breasted robins, 1 Black-

- necked screamer, 1 Shrike, 1 Sparrow, 1 Sparrow hawk, 2 Starlings, 1 Emperor starling, 1 Saddle-bill stork, 1 *Struthidea*, 1 Wood swallow, 1 New Guinea wood swallow, 1 Swan, 1 Tanager, 1 Western toucan, 1 Inca tern, 1 Tinamou, 1 Spotted tinamou, 1 Brown-faced touraco, 1 Touraco, 1 Ruppell's vulture, 1 Bearded vulture, 1 Weaver bird, 1 Superb blue wren.
- OGDEN, CHARLES W., New York City.
- 2 Ringneck ducks, *Marila collaris*, from vicinity of Barnegat Light, N. J.
- PARKS, DEPARTMENT OF, New York City.
- 1 Bird of Paradise, *Parotia sefilata*, 1 Thrush.
- PEABODY MUSEUM, Yale University, New Haven, Conn.
- 21 Birdskins from Liberia.
- PHELPS, DR. GOUVERNEUR M., New York City.
- 1 Greater snow goose from Great South Bay, L. I.
- POST, CHARLES K.
- 1 Dovekie from Great South Bay, L. I.
- PUBLIC EDUCATION, DEPARTMENT OF, Museum. (Transfer).
- 20 Mounted birds, including a passenger pigeon.
- RAVEN, H. C., New York City.
- 1 Saw-whet owl.
- RITCHIE, ROBERT, Islip, L. I.
- 1 Rail, *Coturnicops noveboracensis*, from Great South Bay, Long Island.
- RUHE, LOUIS, New York City.
- 1 African flamingo, 2 African touracos, 1 *Rollulus roulroul*, 1 black cockatoo, 1 hornbill, 2 *Ptilononyx cinereus*.
- ST. JOHNS, DR. AND MRS. CHARLES ELLIOTT, Westport, Conn.
- 1 Mounted passenger pigeon from Worcester, Mass. (before 1875).
- SANFORD, DR. L. C., New Haven, Conn.
- 225 Birdskins from Islands between Flores and Celebes Is.; 33 Birdskins, from Old World; 463 Skins of birds, mainly from Old World, including many rarities such as: *Gennæus williamsi*, *Phasianus ijimæ*, *Melanoperdix nigra*, *Monias benschi*, *Falco concolor*, *Neophema pulchella*, *Ceyx basilanica*, *Cranorrhinus leucocephalus*, *Calyptomena whiteheadi*, *Smithornis c. medianus*, *Ixocincla crassirostris*, *Bernieria tenebrosa*, *Pseudozosterops muelleri* and *squamiceps*, *Anthoscopus musculus*, *Heteralocha acutirostris* and *Paradisæa rubra*.
- 2 Specimens of *Atlantisia rogersi* in alcohol.
- 53 Birdskins, from Java and Australia.
- SEAMAN, G. A., Santa Cruz, West Indies.
- 6 Birdskins, including 4 Flycatchers, 1 Vireo, 1 Finch, from West Indies.
- SETON, ERNEST THOMPSON, Greenwich, Conn.
- 1 Swan, *Cygnus olor*.
- STRYKER, CAROL, St. George, Staten Island, N. Y.
- 1 Screech owl.
- TOMARS, ADOLPH S., New York City.
- 1 Starling, *Spreo superbus*.
- WALKER, ROBERT C., Scarsdale, N. Y.
- 1 Golden-eye, 1 cowbird, 2 sparrow hawks.
- WEBER, JAY A., Leonia, N. J.
- 2 Song sparrows, 1 oyster-catcher from Virginia, skin of sunbird *Arachnothera*, 1 red-winged hawk, *Heterospizias meridionalis*, from Pacora marshes, Panama.

BY EXCHANGE

ACADEMY OF NATURAL SCIENCES,
Philadelphia, Pa.

1 *Melanospiza richardsoni* from St.
Lucia, W. I.

BROOKLYN MUSEUM, Brooklyn, N. Y.
203 Birdskins and a number of
skeletons.

BROOKS, ALLAN, Okanagan Landing,
B. C., Canada.

Skins of 2 *Hesperiphona v. brooksi*
♂ and ♀.

CALIFORNIA INSTITUTE OF TECHNOL-
OGY, Pasadena, Calif. (Mr.
Donald R. Dickey.)

2 *Colinus leucopogon hypoleucus* ♂
and ♀.

CLEVELAND MUSEUM OF NATURAL
HISTORY, Cleveland, Ohio.

505 Birdskins (Blossom Collection).

COLUMBIA UNIVERSITY, New York
City.

Skin of 1 *Tetrao u. urogallus* ♀
from Esthonia.

DERBY MUSEUM, Liverpool, England.

6 Birdskins, from Australia and
Norfolk Islands, including *Palæ-
ornis wardi*, *Polytelis barrabandi*,
Neophema petrophila, *Neophema*
chrysogastra, *Neophema splendida*,
Hemiphaga spadicea.

FIELD MUSEUM OF NATURAL HIS-
TORY, Chicago, Ill. (Through
H. B. Conover.)

5 Birdskins, including 2 *Excal-
factoria lineata*, 1 *Turnix ocellata*,
1 *Rallina eurizonoides*, 1 *Sarco-
grammus atrinuchalis*. Skin of
1 Titmouse, *Cephalopyrus f. flam-
miceps* ♂ from Baltal, Kashmir,
India.

MUSÉE NATIONAL D'HISTOIRE NAT-
URELLE, Paris, France.

Skin of 1 Glossy starling, *Coccycolius*
iris.

MUSEO NACIONAL DE HISTORIA NAT-
URAL, Buenos Aires, Argentina.

(Through Dr. Roberto Dabbene.)

Skins of 2 *Otus choliba choliba* from
Paraguay.

MUSEUM FÜR TIERKUNDE, Dresden,
Germany.

Skin of 1 *Rhamphomantis megar-
hynchus* from Passim, New
Guinea.

MUSEUM OF COMPARATIVE ZOOLOGY,
Cambridge, Mass.

1 *Oreopelia lawrencii* ♂, 2 *Passerina*
rositæ ♂ and ♀.

NATURHISTORISCHES MUSEUM, Vi-
enna, Austria.

Skins of 1 *Oxypelia cyanopsis*, 1
Taoniscus nanus, 1 *Ceratotriccus*
furcatus, 1 *Eleothreptus anomalus*
from Brazil.

PRINCETON MUSEUM, Princeton, New
Jersey.

1 *Eophona personata magnirostris*, 1
Pitta brachyura, *Crypturus noc-
tivagus*.

UNITED STATES NATIONAL MU-
SEUM, Washington, D. C.

1 *Rupornis ridgwayi* from Hayti.

ZOOLOGICAL MUSEUM, Academy of
Sciences, Leningrad, U. S. S. R.

Skins of 2 *Urocynchramus pylzowi* ♂
and ♀, 2 *Koslowia roborowskii* ♂
and ♀, from China and Tibet.

ZOOLOGISCHES MUSEUM DER UNI-
VERSITÄT, Berlin, Germany.
(Through Dr. E. Stresemann.)

18 Birdskins, including *Hæma-
tortyx sanguineiceps*, *Perdix hodg-
soniæ*, *Ptilinopus roseicollis*, *Ptil-
inopus pelewensis*, *Puffinus hein-
rothi*, *Montifringilla arctoa*, *Carp-
odacus rubicillodes*.

BY PURCHASE

18 Birdskins from Eastern Panama.

7 Birdskins from Mombolo, Angola.

2 Young coucals in alcohol from
Cameroon, West Africa.

BY EXPEDITION

GULF OF GUINEA EXPEDITION. (J. G. Correia.)

1,429 Birdskins, 18 Nests, from São Thomé I., Príncipe, and Fernando Po.

MORDEN-GRAVES ASIATIC EXPEDITION. (Mr. George G. Goodwin).

36 Birdskins from Russian Turkestan.

NEW GUINEA EXPEDITION. (R. H. Beck.)

1,745 Birdskins from New Guinea.

OLALLA BROS.

4,046 Birdskins from Amazonia

6 Birds in alcohol from Brazil.

TANGANYIKA EXPEDITION. (Messrs. J. S. Rockefeller, C. B. G. Murphy and A. L. Moses.)

664 Birdskins from Tanganyika Territory and Marungu District, Belgian Congo.

SANFORD-LEGENDRE ABYSSINIAN EXPEDITION. (T. D. Carter.)

45 Birdskins from Abyssinia: Arussi, Addis Ababa, Sidamo.

STRAUS, MRS. OSCAR, African Expedition. (R. Boulton.)

25 Birdskins, 9 Skeletons, from Kenya Colony and Sudan.

TYLER DUIDA EXPEDITION. (G. H. H. Tate.)

6,748 Birdskins from Mt. Duida.

VERNAY-FAUNTHORPE EXPEDITION. (Arthur S. Vernay.)

12 Birdskins from Lower Burma.

WHITNEY SOUTH SEA EXPEDITION. (Hannibal Hamlin.)

2,258 Birdskins from Louisiade Archipelago, New Guinea, and Solomon Is.

MAMMALOGY

BY GIFT

ARCHBOLD, RICHARD, New York City.

6 Small mammals, from Con-

necticut; 1 Raccoon, from Georgia.

BECK, ROLLO, New York City.

1 Phalanger skin from New Guinea.

BEECHER AND BOWDISH, Demerest, N. J.

1 White-footed mouse.

BERGIN, S. J., New York City.

1 Reindeer skin.

BISHOP, C. W., Kent, Conn.

1 Mole shrew, 1 Flying squirrel, from Connecticut.

BRITTON, DR. W. E., New Haven, Conn.

1 Mole shrew, from Connecticut.

BROOKLYN MUSEUM, Brooklyn, N. Y.

240 Specimens—Skulls and skeletons of Mammals of the World.

BUCHINGER, FRANK, Kent, Conn.

1 Masked shrew, from Connecticut.

BULKLEY, DR. L. C., Trang, Siam.

1 Cat skin, 1 Monkey skin, 1 Bat skull, 1 Galeopithecus skull, from Siam.

BUTLER, ALBERT, New York City.

Skin of earth rat, from Angola.

CAMPBELL, JOHN C., Waterbury, Conn.

Skull of wildcat, from Norfolk, Conn.

CARNOCHAN, F. G., New York City.

Skins and skulls of mammals, including 4 Wildcats, 1 Hare, 2 Hyrax, 1 Bush pig, 1 Civet, 2 Shrews, 2 Squirrels, 3 Rats, 2 Porcupines, 3 Bats, 1 Duiker, 2 Maned rats, 2 Mongooses, 1 Aard Wolf, Skins of 3 Bats, 1 Hyrax, 2 Lemurs, 1 Shrew, 1 Rat, 2 Caracals; from Kenya and Tanganyika Territory, Africa.

CARR, WILLIAM H., New York City.

1 Otter, from New York.

CHAMBERLIN, JR., P. AMMERLY, Verona, N. J.

1 Elephant skull, from Africa.

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

- 1 Rice mouse, from Barro Colorado.
 CHAPMAN'S ZOOLOGICAL ANIMAL CORPORATION, New York City.
- 1 Kudu.
 DAY, GEORGIE WAYNE, New York City.
- 1 Pair horns, 2 Pair antlers.
 FAVRE, THEODORE, Tompkins Cove, N. Y.
- 2 White mink skins.
 FLYNN, JOHN, Clinton, Conn.
- 1 Bat, from Connecticut.
 FRICK, CHILDS, New York City.
- 1 Masked shrew, from Raquette Lake, N. Y.
 GOODWIN, GEORGE G., New York City.
- 1 Field mouse.
 GREEN, MORRIS M.
- 1 Lemming mouse.
 HATT, ROBERT T., New York City.
 Skull of muskrat, from Watertown, Conn.
- HENRY, DR. A. W., New York City.
- 1 Common mole, from New Jersey.
 INGERSOLL, ERNEST.
- 1 Flying squirrel, from Canada.
 JACKSON, SETH, Jamaica, L. I.
 Skins and skulls of small Labrador mammals.
- JANES, ARTHUR, New York City.
- 1 Mounted male moose head, from Maine.
- JOSEPH, ELLIS S., New York City.
- 1 Woolly monkey.
 KENT, H. W., Norwichtown, Conn.
 Pelt of duckbilled platypus, from Australia.
- LEGENDRE, MORRIS, New Orleans, La.
 Skin and skull of Fannin sheep, from British Columbia.
- MONAD, DR. TH., Paris, France.
 Cotype of *Chærophon nigris* Hatt, from Niger River, French Sudan.
- MOORE, JR., PAUL S., Convent, N. J.
 Skeleton of Manatee, from Lake Worth, Fla.
- MORGAN, JR., J. S., New York City.
- 1 Masked shrew, from Raquette Lake, N. Y.
 NEW YORK PARK COMMISSION, New York City.
- 1 Elk.
 NEW YORK ZOOLOGICAL SOCIETY, New York City.
- 1 Goldenagouti, 1 Oribi antelope, 1 Six-banded armadillo, Skin and skull of Alaskan brown bear, 1 American bison, 1 Pigmy buffalo, 1 Civet, 1 White-nosed coati, 2 Fennec foxes, 1 Dorcas gazelle, 1 Kudu, 1 Langur, 1 Lioness, 1 Marmoset, 1 Monkey, 1 Spider monkey, 1 Raccoon, Skin and skeleton of sea lion, 2 Prevost squirrels, 1 South American red squirrel, 1 Tahr, 1 Wallaroo, 1 Albino woodchuck, 1 Mountain zebra.
- O'MOLLEY, THOMAS, New York City.
- 1 Big brown bat.
 OUTERBRIDGE, MRS. A. EMELIUS, New York City.
- 3 Narwhal tusks, from Labrador Coast.
- OXTRA, ANDREW T., Ponsford, Minn.
 Scalps and antlers of 2 deer, from Minnesota.
- PARKS, DEPARTMENT OF, New York City.
- 1 American black bear (Jimmie Walker), 1 Hippopotamus, 1 European red deer, 2 California sea lions, 1 Yak.
- ROCKEFELLER FOUNDATION, New York City.
 Heads of 5 South American monkeys.
- RUHE, LOUIS, New York City.
- 1 Gelada baboon, 1 Camel, 1 Zebra.
- TATE, G. H. H., New York City.
- 3 Marmosets, 1 Woodchuck.
- THURSTON, HENRY, New York City.
- 1 Virginian opossum, from Mont-

- rose, N. Y., 17 Small mammals, from Lake Charlotte, N. Y.
- TOWNSEND, DR. C. H., New York City.
Skin and skeleton of fur seal.
- VAN VLECK, ERNEST A., New York City.
Mounted Rocky Mountain wapiti head, from Eastern British Columbia.
- VERNAY, ARTHUR S., New York City.
Skins and skeletons of 3 wild dogs, skull and leg bones of 1 Sambar, skins and skulls of 3 squirrels, from India and Lower Burma.
- WHITE, PORTER, New York City.
Porpoise skull, from Bellport, L. I.
- WINTHROP, BEEKMAN, New York City.
6 Heads of mountain sheep, Head of mule deer.
- BY EXCHANGE
- ACKLAND, MYRON, New York City.
8 Small mammals, from Crawford, N. Y.
- CLARK, JAMES L., New York City.
10 Rhino skulls, from Africa.
- U. S. NATIONAL MUSEUM, Washington, D. C.
2 Proboscis monkeys, from Borneo.
- BY PURCHASE
- 36 Local mammals, from New York and New Jersey.
Collection of Brazilian mammals (54 specimens).
Skins and skulls of 86 small mammals, from Wisconsin.
Skins and skulls of 48 small mammals, from North Dakota.
- BY EXPEDITION
- ACKLAND, MYRON.
35 Small mammals, from Okefinokee Swamp, Georgia.
- CENTRAL ASIATIC EXPEDITIONS.
(R. C. Andrews.)
Skins of 1 Murad, 4 Lemmings, 8 Gerbils, 17 Jerboas, Skins and skulls of 3 Gazelles, 1 Fox, from Mongolia.
- HEILPRIN-HATT EXPEDITION. (Robert T. Hatt. Marcelle Roigneau).
142 Mammals and 15 lots of fossils, from Yucatan
- MORDEN-GRAVES ASIATIC EXPEDITION. (George G. Goodwin.)
Skins and skulls of 81 mammals.
- OLALLA BROS.
Approximately 831 assorted mammals, from Venezuela and Brazil.
- ROCKEFELLER-MURPHY TANGANYIKA EXPEDITION.
(Messrs. J. S. Rockefeller, C. B. G. Murphy, A. L. Moses.)
58 Mammals from Tanganyika Territory, Belgian Congo.
- SANFORD-LEGENDRE ABYSSINIAN EXPEDITION. (T. Donald Carter.)
Many specimens, including Nyala, Dogs, Klipspringers, Antelopes, Monkeys, Rabbits, Mice, Gazelle, Oryx, Kudu, Gerenuk, Duiker, Dikdik, Warthog, Hyena, Hunting dog, Wild cat, Mongoose, Jackal, Ground squirrel, Hares, Rats, from Abyssinia.
- TYLER DUIDA EXPEDITION. (Olalla Bros. and G. H. H. Tate.)
Collection of 869 South American mammals, from Mt. Duida, Venezuela.
- VERNAY-FAUNTHORPE EXPEDITION.
(A. S. Vernay.)
2 Indian lions, 2 Sambar deer, 2 Chinkara (2 extra skulls), skin of Wild dog, from India.
- WHITNEY SOUTH SEA EXPEDITION.
(Rollo H. Beck.)
85 Specimens of mammals, chiefly bats and phalangers.

COMAPARATIVE ANATOMY

BY GIFT

- BROOKLYN MUSEUM, Brooklyn, N. Y.
Anatomical preparations, including rat, dissection of circulatory system; cat, dissection of digestive system and circulatory system; cat, dissection of nervous system; 38 Specimens of miscellaneous skeletal material.
- BURRELL, HARRY, Kensington, N. S. W., Australia.
Rabbit skull with abnormal teeth; Platypus, skull and skeleton; from Australia.
- CHAPMAN'S ZOOLOGICAL ANIMAL CORPORATION, New York City.
1 Baboon, 1 Cassowary, 1 Chapman zebra, 2 Macaques, Young female orang from Sumatra.
- GEISLER, MAX, BIRD COMPANY, New York City.
1 Male orang.
- GOODWIN, GEORGE G., New York City.
White mouse with embryos at term.
- GUDGER, DR. E. W., New York City.
3 Haddock heads.
- HERBERT, JACOB, Newton, Mass.
Body of German police dog, "Fellow."
- JOSEPH ELLIS S., New York City.
1 White swan, 1 Foetal reedbuck from Africa; 1 Woolly monkey.
- LUCAS, MISS JANNETTE MAY, New York City.
Skull and mandible of man, mandible of man.
- MAMMALOGY, DEPARTEMNT OF, Museum. (Transfer).
Some of the soft parts of young whale.
- MEISTER, GEORGE, New York City.
Calf stomach.
- MINER, DR. ROY WALDO, New York City.

Salamander, *Amblystoma maculata*.
NEW YORK ZOOLOGICAL SOCIETY,
New York City.

- Barbary ape, Nine-banded armadillo, Binturong, 1 Golden cat, 4 Coati-mundis. Dromedary, Gray fox, Guenon, 1 White-browed guenon, Baby pygmy hippopotamus, Iguana, Jaguarundi from South America, Kangaroo, 3 Kinkajous, 1 Lemur, 1 Ring-tail lemur, Blue-tongued lizard, Spix macaw, Red-headed mangabey, Australian monitor, Black howler monkey, Saki monkey, Spider monkey, Squirrel monkey, Indo-Malayan otter, Albino porcupine, Canadian porcupine, Coypu rat, Western raven, 1 Crested sapajou, Wild turkey, *Varanus*, Black swamp wallaby.
- PARKS, DEPARTMENT OF, New York City.
2 Raccoons, 1 Kinkajou, 1 *Cebus* monkey, 1 Peccary.
- RINGLING BROTHERS, New York City.
1 Male Chimpanzee.
- SMITH, R. M., Sheffield, Mass.
6 New-born star-nosed moles.
- BY EXCHANGE
- SCHULTZ, DR. ADOLPH H., Baltimore, Md.
Cast of right hand of orang; cast of right foot of orang.
- THOMSON, PROF. ARTHUR, Oxford, England.
Cast of skull of Neanderthal child from Gibraltar.
- BY PURCHASE
- Young gorilla ♀, from Africa.
Mounted skeleton of *Galeopithecus*.
Cast of skull and jaw of *Homo sapiens fossilis*.
Cast of design of bison.

Cast of design of reindeer.
Stomach of calf.

BY EXPEDITION

CARLISLE-CLARK AFRICAN EXPEDITION.

3 Foetal lions, from Tanganyika Territory, Africa.

ANTHROPOLOGY

BY GIFT

ABSOLON, DR. KARL, Landes Museum, Brünn, Czecho-Slovakia.

Casts of 4 archaeological specimens from Czecho-Slovakia.

AMERICAN UNIVERSITY, Beirut, Syria.

About 125 miscellaneous archaeological specimens from Antilvas, Ksar-Akil.

BECK, R. H., San José, Calif.

Ethnological collection, made while on Whitney South Sea Expedition in Southern Melanesia.

BERNHEIMER, CHARLES L., New York City.

83 Archaeological specimens from various parts of the United States, Cuba and Mexico.

BRYANT, L. E., Roberta, Tenn.

23 Projectile points from Pulaski Co., Kentucky.

BULKLEY, DR. L. C., Trang, Siam.

Inlaid match box, manuscript, wooden specimen, three rods, from Siam.

BURDEN, DOUGLAS, New York City.

Ethnological specimens and models from the Ojibway Indians.

CLAUSEN, CARL, New York City.

150 Projectile points and a hematite ball from Page and Shenandoah Counties, Va.

CRAWFORD, M. D. C., New York City.

Green stone celt from West Indies.

DE LA RUE, S., Washington, D. C.

Metate from Lovelocks, Nevada.

DROWNE, FREDERICK P., Warren, R. I.

3 Decorated skulls from a burial deposit on Island of Vella Lavella, Solomon Islands.

ELDRIDGE, MARTIN, Greenwood, R. I. Arrowpoint from Rhode Island.

EMMONS, LT. G. T., Princeton, N. J. 2 Stone specimens from Alaska.

EVERHART MUSEUM, Scranton, Pa. (Through Mr. M. G. Kelly).

8 Arrowpoints from Scranton, Pa.

GRAESER, CHARLES P., Monte Vista, Colo.

Chipped jasper and chert from Monte Vista, Colo.

GUTMANN, DR. LEONARD L., New York City.

5 Specimens of pottery from Ecuador.

HATCH, JOE, Montezuma Creek, Colo. Large double-bladed stone ax.

HAY, CLARENCE L., New York City. Gold horned toad, piece of gold foil, from Panama.

JACKSON, CAPTAIN EDWARD S., Lakehurst, N. J.

Kava bowl from Pago Pago, Tutuila, Samoa.

KAHN, MORTON C., New York City.

1 Pottery vessel, 1 Lot pottery fragments, 3 Lots stone artifacts, from ruin on top of a butte, near Prescott, Arizona.

11 Ethnological specimens from Bush Negroes, Dutch Guiana.

KAWAGUCHI, K., Company, New York City.

Folder showing processes in making Japanese prints, from Japan.

KINGSLEY, DARWIN P., New York City.

Cheyenne war bonnet.

KNAUTH, F. W., Cambridge, Mass.

Kaross, or robe, of Zambesi lynx fur, from Zululand.

LOOMIS, MRS. JESSIE Y., Peekskill, N. Y.

(Given in the name of Ernest Yates Loomis, deceased).

- About 200 skulls, 60 casts of faces and heads, 60 busts, 10 casts of brains, 4 jars containing brains, and miscellaneous objects. Collection of the American Institute of Phrenology.
- MAMMALOGY, DEPARTMENT OF. (Transfer.)
- 4 Casts made at the direction of Dr. F. A. Lucas, of large paleolith, bed of Oxe River near Leeds, where it was found in the 1860's
- MANN, PERCY L., Grant, Mich.
Skull from Mound Builder remains, Michigan.
- MARCONNIER, BYRNE, New York City.
5 Specimens—skull and some bones from New Mexico.
- MAYNTZHUSEN, FEDERICO C., Colonia Mayntzhusen, Paraguay.
Chipped stone implement from Alto Parana, Paraguay.
- MORRIS, S. M., Jackson Heights, L. I.
Ethnological collection (about 30 specimens) from Rhodesia.
- MOTLEY, JAMES M., New York City.
Feather headdress, poncho, necklace, from Peru; 1 pot, Mayapan
- NELSON, N. C., New York City.
Ground stone celt, 3 Chipped stone objects from Canada, stone implements and potsherds, southern United States.
- NEW YORK HISTORICAL SOCIETY, New York City.
Grooved stone axe from Catskill Mts.
- NORTON, E. HOPE, Darien, Conn.
206 Archaeological specimens from Ecuador—mostly pottery, some stone and metal work.
- OLSON, R. L., New York City.
Model of a Northwest Coast canoe.
- OTS, MRS. M., New York City.
Pick for musical instrument from Japan.
- PENNRICH, CARL, New York City.
Oil lamp from near Bingen, Germany.
- PHILLIPS, LAWRENCE, New York City.
2 Carved heads of Kauri gum from New Zealand.
- REID, JOHN T., Lovelocks, Nevada.
Skulls and femur.
- ROOSEVELT, NICHOLAS, New York City.
Samples of types and processes in batik work, mounted on a mat, from Java.
- RUGG, MASTER BILLY, Red Bank, N. J.
Arrowpoint from Red Bank, N. J.
- SCHOENHAUT, H., Brooklyn, N. Y.
Bushman stone carving, cut from summit of a mountain wall from South Africa.
- SLOAN, COL. A. B., New York City.
4 Basketry hats, probably from Malaysia.
- SPURGEON, JULIAN, Ottumwa, Iowa.
Stone axes, projectile points, potsherds, from Iowa.
- STEELE, HEATH, New York City.
Figurine, State of Guerrero, Mexico.
- STEVENS, H. H., Lavalette, N. J.
258 Projectile points, 1 Fragment of a steatite vessel, 69 Potsherds, from Guilford and Yadkin Counties, North Carolina.
- STEWART, DOUGLAS H., New York City.
Wooden carved fetish from Central Africa.
- VAN ENGLER, DR. A. H. C., The Hague, Holland.
2 Dayak wooden carved figures from Berouw, Northeast Borneo.
- VAN LOON, HENDRIK WILLEM, Veere, Holland.
1 Woman's fur coat from Lapland.
- VERTEBRATE PALÆONTOLOGY, DEPARTMENT OF, Museum (Transfer).
12 Shell artifacts from Saint Petersburg, Florida.

WATKINS, MORGAN, Binghamton,
N. Y.

Stone spear point.

WHITEHOUSE, NORMAN DE R., New
York City.

26 Archæological specimens of
pottery, stone, obsidian, from
Honduras.

WILDER, GERRIT P., Cook Islands.

Bow for sharpening fish-hooks, from
Pukapuka.

YAMAMOTO, KATSUJI, New York City.

Ornamented copper teapot, 1 Cop-
per ornament in form of a bivalve,
from Japan.

BY EXCHANGE

BECK, R. H., San José, Calif.

1 Tongan pillow from Polynesia.

EMMONS, LT. G. T., Princeton, N. J.

37 Ethnological and archæological
specimens, from Northwest Coast.

NATIONAL MUSEET, Copenhagen,
Denmark.

90 Specimens, East Greenland Es-
kimo ethnology and West Green-
land archæology.

PEABODY MUSEUM, Cambridge, Mass.

6 Pieces of pottery from Holmul, 1
Piece of pottery from Copan,
Central America.

4 Hopi pottery vessels—2 Jeddito
yellow, 2 Sikyati, from South-
western United States.

BY PURCHASE

Painted pebble from Mas d'Azil,
France.

2 Painted house boards from Noot-
ka, Vancouver.

Cast of bas relief figure of a woman
from Laussel Rock Shelter,
France.

Gibbon skeleton *Hylobates lar*,
from Sumatra.

2 Disarticulated skeletons; gorilla,
adult male from Africa; human,
adult.

Tortoise shell bowl decorated with
lacquer work.

BY EXPEDITION

CENTRAL ASIATIC EXPEDITIONS.

(Alonzo W. Pond.)

5 Cases of archæological specimens
from Mongolia.

12 Miscellaneous archæological
specimens.

CLARENCE L. HAY FUND (Dr. George
C. Vaillant).

Archæological specimens from Zaca-
tenco, Valley of Mexico.

MEAD, DR. MARGARET.

Ethnological collection from Manus
Island, New Guinea.

OGDEN MILLS FUND (Earl H. Morris).

Archæological material from Canyon
del Muerto, Arizona.

MRS. PAYNE WHITNEY FUND (R. M.
Snodgrass).

Archæological specimens from vi-
cinity of Yuma, Colo.

MRS. PAYNE WHITNEY AND PHYSICAL
ANTHROPOLOGY FUND (Ronald
Olson).

Archæological specimens from vari-
ous parts of Southwestern United
States.

PHYSICAL ANTHROPOLOGY FUND (H. L.
Shapiro).

Pottery and skeletal remains from
Santo Domingo.

PICTOGRAPH FUND (Ann Axtell
Morris).

15 Paintings and drawings copied
from wall paintings at Canyon
del Muerto, Arizona.

SEVENTH BERNHEIMER EXPEDITION.

Archæological collection from Moki
Canyon and vicinity.

PUBLIC EDUCATION

BY GIFT

AMERICAN RELIEF ADMINISTRATION,
New York City (Through Mr.
W. R. Sawtelle).

- 4 Reels motion picture positive, "Master of Emergencies."
- AMERICAN SOCIETY FOR THE PREVENTION OF CRUELTY TO ANIMALS.
90 Colored and 12 plain slides on "Kindness to Animals"; 141 Colored slides, 4 Plain slides.
- ANDERSEN, MISS MARIAN, Rockaway Beach, N. Y.
1 Junco.
- ASHLEY, JAMES T., New York City.
51 Colored and 9 Plain slides.
- BERMUDA TRADE DEVELOPMENT BOARD, Hamilton, Bermuda.
29 Plain slides on Bermuda.
- BURCH, M. D., New York City.
50 Negatives on "Work of the Department of Preparation."
- BUTTREE, EDWARD G., Greenwich, Conn.
1 Black bear.
- CANADIAN PACIFIC RAILWAY, New York City.
29 Colored slides.
- CARD, MRS. JAMES VAN DYKE, New York City.
1 Mounted squirrel, 1 Bluejay, 1 Hummingbird.
- CARR, WILLIAM H., New York City.
321 Negatives.
- CLARK, JAMES L., New York City.
1 Pair of dissolving stereopticon lanterns, with extra condenser and lens.
- COMER, GEORGE, East Haddam, Conn.
1 Pheasant.
- COMMITTEE ON WORLD FRIENDSHIP AMONG CHILDREN, New York City (Through Miss Caroline Bahr).
"Miss Japan," a Japanese doll with many beautiful accessories.
- COOK, THOMAS, AND SONS, New York City (Through A. K. Dawson).
11 Colored slides and 7 plain slides on North Africa.
- COOLEY, E. S., New York City.
1 Robin's nest and 4 eggs.
- CORTICELLI SILK COMPANY (Through H. L. Hancock).
24 Colored and 38 plain slides.
- CREESE, MRS. JAMES, Hoboken, N. J.
1 Mounted lyre-bird tail.
- CURTIS MANUFACTURING COMPANY, St. Louis, Mo. (Through Mr. E. H. Steedman).
50 Feet motion picture positive: Head of giraffe, Lion up a Tree.
- DAIRYMEN'S LEAGUE COOPERATIVE ASSOCIATION (Through Miss Elizabeth Beye).
62 Colored slides.
- DEVOE, MISS HARRIET, New York City.
1 Mounted snowy owl, 1 Dovekie.
- DIXON, MRS. F. J., Hackensack, N. J.
90 Mounted birds, 3 Squirrels, Collection of butterflies.
- DOLLAR STEAMSHIP LINE, San Francisco, Calif. (Mr. Hugh McKenzie).
130 Colored lantern slides on "Trip Around the World."
- DWIGHT COLLECTION, Museum. (Transfer).
2 Humming birds, 1 Great-horned owl, 1 Sandhill crane, 1 Bird's nest.
- FAR ROCKAWAY HIGH SCHOOL, Far Rockaway, N. Y.
1 White-throated sparrow, 1 Hermit thrush, 1 Blackpoll, 1 Towhee, 4 White-throated sparrows, 1 Swamp sparrow, 1 Woodcock.
- GENERAL ELECTRIC COMPANY, Schenectady, N. Y.
1 Set of 37 plain slides on "Magnetism."
- HAMILTON, JR., MR. AND MRS. ROBERT P., New York City.
1 Parrot, from Honduras.
- HANCOCK, ALLAN, Los Angeles, Calif.
7 Reels motion picture positive of "Galapagos," 2 Reels motion picture positive, "Death Trap of Ages."

- HART, SCHAFFNER AND MARX, New York City (Through Mr. Alexander M. Levy).
160 Colored lantern slides with manuscript, "How Men's Clothing is Made."
- HORN, MISS MARY A., Arverne, N. Y.
1 Towhee.
- JANSEN, WM., New York City.
37 Text books, 19 Pamphlets on geography, 1 Bound copy—Year Book of the Department of Agriculture.
- JOHNSON, MR. AND MRS. MARTIN, New York City.
40,000 Feet of motion picture positive on "Lions" taken on 1928-29 expedition.
- KNIGHT CORPORATION, B. B. AND R., Providence, R. I. (Through Mr. Robert Anthony).
15 Sets of colored slides on "Cotton," with manuscript.
- LAMM, MISS LINA, New York City.
1 Nest of Baltimore Oriole.
- MANGES, DR. MORRIS, New York City.
88 Large photos, 331 Pictures, 3 Booklets of pictures, 5 *Natural History*, 1 *Geographical Review*.
- MEYERS, MISS BERTHA, New York City.
(Given in the name of her brother, Joseph E. Meyers, deceased).
Piece of hardtack from Para, Brazil, Rattlesnake skin from Middle Western United States, 1922.
- NAHMENS, MRS. A. P., New York City.
Mounted snowy owl in glass case (shot by Frank W. Lowndes at Newport, R. I., January, 1865).
- NEW YORK TELEPHONE COMPANY, New York City (Through Mr. Vlasius).
24 Plain slides with manuscript, and
30 Colored slides with manuscript, on "The Pathway of a Telephone Call."
- NEW YORK ZOOLOGICAL SOCIETY, New York City.
1 Pheasant, 1 Guan.
- NILSON, MISS, New York City.
1 Mounted horned owl.
- NORTHERN PACIFIC RAILWAY, New York City (Mr. H. M. Fletcher, Mr. E. E. Nelson).
64 Colored slides.
- ORNITHOLOGY, DEPARTMENT OF, Museum. (Transfer).
1 Box of birds' eggs, 1 European goldfinch.
- PATRICK, MISS RITA, Rockaway Beach, N. Y.
1 Junco.
- DEPARTMENT OF PHYSIOLOGY, Museum. (Transfer).
Dr. R. W. Tower's Models—Stomach of bee; Circulatory system of octopus; Stomach of octopus, Circulatory system of sea-lemon; Stomach of crawfish.
- PUBLIC SCHOOL 42, Queens, Arverne, N. Y.
1 Woodcock, 2 Warblers, 2 Towhees, 2 Juncos, 1 Hermit thrush, 1 Humming bird in flesh.
- PUBLIC SCHOOL 44-47, Queens, Rockaway Beach, N. Y.
2 Fox sparrows.
- RIZER, R. W., New York City.
4 Sample blocks of South American woods.
- ROHDENBURG, DR. GEO. L., New York City.
6 Feet of Motion picture film on "Walking Stick," 26 Feet motion picture film on "Sleeping Sickness of Africa."
- ROSS, MRS. HENRY C., New York City.
1 Mounted loon, 1 Rattlesnake skin
- RUBIN, HYMAN, Rockaway Beach, N. Y.
1 Junco.

RUPPERT, MRS. AMELIA, Elizabeth,
N. J.

6 Cases of mounted birds.

SCARLETT, ANDREW, South Orange,
N. J.

Young sharp-shinned hawk, 1
Hermit thrush.

SWISS FEDERAL RAILWAYS, New
York City (Through F. Dossen-
bach).

120 Colored lantern slides of scenes
on "Switzerland."

UNDERWOOD, WM. J., Belmont, Mass.

1200 Colored lantern slides on
natural history.

UNION PACIFIC SYSTEM, New York
City (Mr. J. B. De Friest).

110 Colored lantern slides, 18
Colored lantern slides on "Trip
from New York to San Fran-
cisco."

UNITED FRUIT COMPANY, Boston,
Mass.

12 Sets of colored lantern slides
on "Trip to Banana Land," (552
slides) with manuscript; 1 Reel
motion picture positive, "A Trav-
eler's Impressions of Jamaica,"
1 Reel film, "Banana Land."

UNIVERSAL MAP COMPANY, Inc.,
New York City.

8 Cards on instructive geography.

VERSTER, MRS. J., Beaufort West,
South Africa.

1 Negative.

WALKER, R. C., Scarsdale, N. Y.

1 Cooper's hawk, 4 Sparrow hawks,
1 Starling.

WATSON, FRANK E., New York City.

1 Pigeon.

YEATON, SAMUEL, New York City.

7 Screech owls, 8 Shrews, 18 White-
footed mice, 1 Starling, 1 Crow,
1 Saw-whet owl, 3 Meadow mice,
2 House mice, 36 Indian arrow
heads, 93 Butterflies (80 species),
50 Moths (45 species).

BY PURCHASE

175 Mounted birds.

ADMINISTRATION

BY GIFT

CHAMPION, F. W., Garhwal, U. P.
India.

4 Flashlights of Indian Tigers.

ORTENBLADE, C. A., New York City.
2 Small exhibition cases.

III. ADMINISTRATION, OPERATION AND BUILDING

GEORGE H. SHERWOOD, Director

WAYNE M. FAUNCE, Assistant to the Director

While the limitations of the 1929 budget forced on the scientific departments a period of relative inactivity, the operating and construction departments have been unusually busy, and the demands upon their resources and energies have been greater than usual. Not only have the routine requirements of the department been taken care of and a very considerable amount of general construction and equipment carried on, but in addition a vast amount of time of the department heads has had to be given to the study, preparation and finishing of plans and specifications for the three new buildings on the building program, namely, the African Hall, the Power and Service Building, and the Whitney Hall of Birds, and the coördinating of these plans with the Roosevelt Memorial being erected by the State of New York.

The Director desires to express his appreciation of the faithful and effective services rendered by these department heads, and for their excellent team work, which has been of such importance in advancing the administrative program. He desires especially to commend Mr. Frederick H. Smyth, Bursar, for his valuable services in watching our finances and for his assistance in the handling of many matters with the City authorities; to Mr. Wayne M. Faunce, Assistant to the Director and Assistant Secretary, who has relieved the Director of many details of general administration and who has given special attention to the technical matters pertaining to the new buildings; to Mr. George N. Pindar, Registrar, not only for his excellent and effective direction of the Registrar's office, but for his invaluable service to both the employees and the Trustees through his painstaking work on the Pension Board and Welfare Committee; to Mr. Harry F. Beers, Chief of Construction, and to Mr. Henry J. Langham, for the efficient manner in which they have administered their respective departments; to Mr. J. B. Foulke, for the courteous and satisfactory way in which he has met the innumerable demands upon his department both by the public and by the administration; to Mr. Frank Bushell, Assistant

Bursar, whose reliable performance of his duties has given Mr. Smyth more time to devote to other important financial matters.

All departments of the Museum are dependent in many respects on these service departments, and the visitor's impressions of the Museum may be shaped by the contacts with them, particularly with the Superintendent's department.

Public interest in the Museum is widespread and is constantly growing. More and more scientific organizations are seeking it as a meeting place, while the public at large is showing an equally growing interest. The following comparative figures of our activities for the past five years are evidence of the influence of the Museum:

STATISTICS OF NUMBERS REACHED BY THE MUSEUM AND ITS EXTENSION EDUCATIONAL SYSTEM					
	1925	1926	1927	1928	1929
Board of Education Lectures....	26,968	10,460	10,914	12,342	—
Lectures to School Children and classes visiting the Museum for Study.....	133,386	138,514	145,304	172,549	157,168
Meetings of Scientific Societies and Other Meetings and Lec- tures.....	37,389	34,976	47,680	27,461	45,936
Total.....	197,743	183,950	203,898	212,352	203,104
Attendance in Exhibition Halls..	1,578,147	1,886,315	2,088,978	688,879	712,529
Total attendance for all Purposes.....	1,775,890	2,070,265	2,292,876	901,231	915,633
Lectures to Pupils in the Schools.	27,055	33,255	20,421	45,718	26,456
Number reached by Motion Picture Service.....	333,097	530,955	1,123,704	1,576,249	1,725,865
Number reached by Lantern Slide Service.....	3,941,494	4,358,423	6,866,112	9,734,122	8,550,181
Number reached by Circu- lating Collections.....	977,384	798,382	1,679,589	2,282,272	1,857,729
Grand Total.....	7,054,920	7,791,280	11,982,702	14,539,592	13,075,864

PROGRESS OF CONSTRUCTION DURING 1929

Of uppermost importance in our construction program of 1929 was the completion of the plans and specifications for the new African Hall (Section 13) and the Power and Service Building (Section 17). Work on these additions to the Museum, which are being erected by the City of New York, was started in the early autumn, and it is expected that they will be ready for occupancy in 1931. Ground was broken for the Roosevelt Memorial (Section 12) during the same month, and the foundations for this building, which is a New York State project, are well advanced.

The members of the Buildings and Plans Committee have devoted a great amount of time to the preparation of plans for the new Whitney Hall of Birds, which is to be erected directly north of and adjoining the Roosevelt Memorial. The construction of this building, made possible by gift of Mr. Harry Payne Whitney and appropriation of the Board of Estimate and Apportionment in equal amounts, will begin next summer.

Much important work has been carried on in the exhibition halls and many installations brought to completion. One of our major tasks, the casing of the new Hall of African Ethnology, has been finished. The Dean Memorial Room of Fossil Fishes was opened on June 10 with appropriate exercises. The Japanese Room in the Hall of Asiatic Peoples has been newly cased and redecorated, and exhibition cases have been built for the South Sea Islands Room in the West Tower. The new Bering Sea Bird Group at the north end of the Hall of Habitat Groups of Birds of North America completes this fascinating series of groups begun in 1901.

Improvements in the floor-case lighting and the installation of wall cases in the Hall of Insects have done much to increase the exhibitional value of the insect collections. A number of additional habitat group cases for this hall have also been constructed and will shortly be ready for the preparation of the groups.

The exhibits in the Pro-Astronomic Hall have been rearranged and the hall repainted. An appropriation by the City of New York for special repairs also made it possible to paint the Chinese Hall, Hall of African Ethnology, the fifth floor corridor, the laboratory of the Department of Vertebrate Palæontology and several offices.

Installation in the Hall of Ocean Life has been advanced to the extent of completing the background framework of sixteen groups, and the work on the great Coral Reef Group is progressing well.

The South Asiatic Hall, which is to be opened in November, has presented a unique problem in construction. The architecture of the hall, the design of the habitat and free-standing cases and the lighting are in Indian style, requiring highly specialized treatment. Under the expert guidance of Assistant Director Clark, our artisans have risen to the occasion and are producing highly pleasing and satisfactory results.

We have prepared plans for a Shell Catalogue and Study Room to be built as an extension of the corridor between the Hall of Ocean Life and the Southeast Wing. The City of New York has provided funds for this addition which should be finished early in 1930. The fireproofing of the attic storage space has been completed and additional stackroom space provided for the Library. The Museum Bindery was moved to new and enlarged quarters in the basement convenient to the Print Shop. To provide a more efficient arrangement, the Shipping Room was remodeled, as was also the storeroom of the Superintendent of Buildings. The shop of the Geology Department was moved from the fifth floor to the basement in order that better fossil sectioning equipment might be installed. The public address amplifying system in the auditorium has been completely redesigned, after prolonged experimentation, resulting in marked improvement of the acoustics of the hall. In the interests of safety for our mechanics, much of the power-driven equipment in our shops has been fitted with automatic controls. The renewing of obsolete electric wiring in several exhibition halls of the older building sections and the installation of modern electric distribution cables have been some of the major activities of the engineer's force.

As the Museum building increases in size and the various operations within become more diversified, an ever-increasing demand is put on our mechanical force. Our financial means to provide for mechanics and the materials which they need have not kept pace with this demand and consequently the task of maintenance becomes a more trying one each year. While working under this severe strain our staff has carried on with remarkable equanimity, always in the hope that eventually adequate funds will be available.

REPORT OF THE REGISTRAR

GEORGE N. PINDAR

Despite the limitation of funds for the purchase of specimens and collections and for sending out field workers to secure supplementary and much needed study and exhibition material, the acquisitions during the past year have, through the continued interest of our friends, fully equaled those of preceding years both in number and in value.

Our records show that 913 accessions were received, as follows: 655 received as gifts, 77 by purchase, 92 through exchange, 56 through expeditions and 20 by transfer. To properly catalog these additions necessitated the preparation of more than 4,000 filing cards.

During the year, 14,032 packages were received and sent to their respective departments. Shipments totaling 4,668, ranging in size from small boxes of film to boxes weighing hundreds of pounds, were sent out. There is the further work of handling the bonded shipments received, which numbered 70 for the year. The department maintains a car for the delivery and collection of material for the Museum. This car covered 4,851 miles in 1929, on 595 trips. The personnel of this division consists of but three men, and their activity is most commendable.

To render the records usable in the departments and for the permanent files of the corporation, it is essential that the system in use be elastic, i.e., be able to provide for the creation of additional departments and of recording material desirable to retain but not assignable to existing scientific divisions. This factor requires the unstinted use of cross reference and subject cards in order that all collections and specimens may be readily available on call.

An important division of this department and one closely allied to the accession work is that embraced in the receiving and shipping department. Here all material either incoming or outgoing is under the control of the division head. All shipments are first approved and records kept of their disposition. This division constitutes one of the main arteries of the Museum activities and is an important factor in the mechanism of supply and demand of the various departments. Under Chris. J. Schroth's quiet but efficient guidance the frictionless operation of this portion of Museum work has been evident.

In closing this report the Registrar would express his appreciation of the cooperation of the Curators and others who, recognizing the need for an efficient and accurate recording system, have generously responded by giving full and careful details of material coming under their care. Acknowledgment is also made to Miss M. E. Graefe for her painstaking efforts to keep up the details of the accession work and to Miss E. L. Newman who by her efficiency and helpfulness has made possible the care and supervision of the varied activities and exacting details of the office generally.

IV. FINANCIAL ADMINISTRATION

JAMES H. PERKINS, Treasurer

FREDERICK H. SMYTH, Bursar

The Treasurer, as Chairman of the Finance Committee, has given a great deal of attention to the Permanent Endowment Fund of the Museum, and has acted with the other members of the Committee, Messrs. George F. Baker, Jr., George T. Bowdoin, A. Perry Osborn and Felix M. Warburg, and with assistance rendered by the Advisers to the Finance Committee, Messrs. Arthur M. Anderson, Everett B. Sweezy and Moreau Delano, all of whom have constantly given thought and attention to this most important fund in order to preserve its principal and income. To these members of the Board and to its advisers, the Trustees are grateful for the services given and express their appreciation.

On December 31, 1929, the Permanent Endowment Fund of the Museum amounted to a book value of \$13,860,000.80, an increase of \$401,540.38 during the year, which is invested as follows:

Railroad Bonds.....	\$8,468,778.75	
Public Utility Bonds.....	1,974,524.50	
Industrial Bonds and Stocks.....	1,365,205.50	
Government Bonds.....	25,423.44	
Investment Trust Bonds.....	296,052.50	
Real Estate Mortgages.....	<u>1,477,900.00</u>	\$13,607,884.69
Uninvested Cash.....		252,116.11
Total.....		<u>\$13,860,000.80</u>

The market value of the Museum securities on December 31, 1929, was \$13,993,800.25.

The annual income from Endowment Funds is \$673,868.62, an increase of \$8,588.50 since January 1, 1929. The direct rate of yield is .0495.

Bequests and Gifts paid in 1929:

Gift of W. R. Coe.....	\$5,000.00
Bequest of Margaret Olivia Sage.....	105.29
Gift of C. Alison Scully.....	50.00
Bequest of M. P. Rich.....	10,000.00
Bequest of Caroline B. Sellev.....	65,000.00
Bequest of Charles E. Rhinelander.....	1,000.00

Gift of Frederick Sturges, Jr.....	1,000.00
Bequest of Percy R. Pyne.....	25,000.00
Gift of Mrs. James McLean.....	1,000.00
Bequest of Bashford Dean.....	5,000.00
Gift of George F. Baker, Jr. [conditional: see below]....	250,000.00

Notwithstanding these generous bequests and gifts, the financial needs of the Museum are so pressing that the Trustees have now decided (February, 1930) to proceed at once with the campaign for the Sixtieth Anniversary Endowment Fund of \$10,000,000, plans for which were projected in 1929 but were temporarily delayed in the autumn by circumstances beyond our control. In December, 1929, Messrs. George F. Baker and George F. Baker, Jr., initiated contributions for this Fund by subscribing \$500,000, on the condition that at least \$2,000,000 of the \$10,000,000 required would be raised in the immediate future, to provide for the deficiency in operating budget for the year 1930. It is our hope with the aid of old and new friends to see this vitally necessary fund of \$10,000,000 of new Endowment substantially in hand or promised by the time of the next Annual Report.

We are grateful for the unsolicited gifts to Endowment, which include those of Mr. W. R. Coe, Mr. C. Alison Scully, Mr. Frederick Sturges, Jr., and Mrs. James McLean; and we acknowledge receipt of bequests from the estates of M. P. Rich, Caroline B. Sellew, Charles E. Rhineland, Percy R. Pyne, and Bashford Dean.

During 1930 the following bequests will probably be paid:

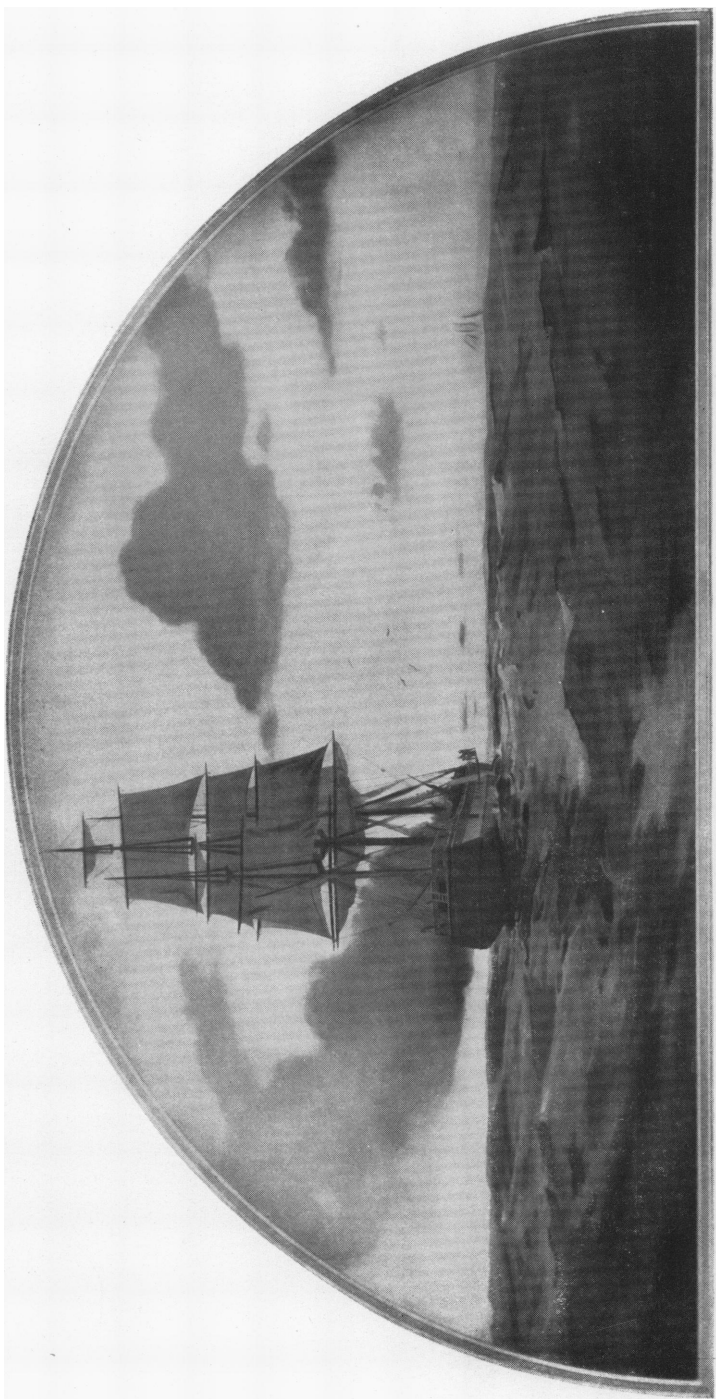
From the Estate of Ogden Mills, \$100,000 under the will, and \$400,000 which it is expected will be paid to the Museum by the heirs.

Estate of Caroline B. Sellew, the balance of one-seventh of the residuary estate (\$35,000), which will make the total of this bequest \$100,000.

Estate of Bonnie W. LeClear, \$15,000, to be known as the Wallace Memorial Fund, for the purchase of minerals.

Estate of Levi L. Gans, \$1,000 for the general purposes of the Museum.

Estate of Frederick G. Voss. Under this will the Museum is residuary legatee, and may receive ultimately \$575,000, this now subject to certain life interests. It is expected that a portion of this bequest will be paid in 1930. The income of this endowment is to be applied to research in Anthropology and Archæology.



BOILING

Fourth of murals of American Sperm Whaling for the Hall of Ocean Life
Painted by John Prentice Benson
Gift of George T. Bowdoin

Estate of Eugene W. Durkee. Under the will of Mr. Durkee, the Museum is residuary legatee, and a definite agreement has been reached whereby the Museum will accept \$400,000 as payment in full of the bequest. It is expected that this money will be received early in 1930.

Estate of George F. Halliday. The Museum has a one-third share, estimated at \$100,000, in the residuary estate of Mr. George F. Halliday. The payment will probably be made in 1930.

We have received such encouraging reports from many institutions that we continue the policy of a summarized statement of the operation of the Museum, combining the City Maintenance, General, Morris K. Jesup, and Special Funds Accounts, which has been much sought by foundations and others to obtain a clear and concise picture of our financial operations.

SUMMARY OF RECEIPTS AND DISBURSEMENTS FOR ALL PURPOSES, 1929

Receipts

City of New York for Maintenance.....		\$466,173.45
Trustees' Funds:		
Balance, January 1, 1929.....		168,816.76
Income from Endowment Funds.....	\$677,546.45	
Contributions of Trustees.....	166,066.41	
Contributions of Members and Friends....	194,403.82	
Membership Dues.....	80,707.00	
Sale of Publications and Exchanges.....	18,776.76	
Interest on Credit Balances.....	3,930.62	
Contributions of Foundations.....	20,000.00	
Total Income, Trustees' Funds.....		<u>1,161,431.06</u>
Total Income, all sources.....		<u>\$1,796,421.27</u>

Disbursements (Operating Costs)**Scientific and Research:**

Geology and Invertebrate Palæontology.	\$20,037.84
Mineralogy.....	10,905.00
Mammalogy.....	50,945.29
Central Asiatic Exploration and Research	40,680.47
Ornithology.....	91,451.31
Vertebrate Palæontology.....	51,703.78
The President's Science and Research Fund.....	26,155.69
Comparative Anatomy.....	16,732.76
Anthropology.....	51,769.04
Ichthyology.....	18,027.81
Herpetology and Experimental Biology.	32,289.60
Lower Invertebrates.....	16,594.44
Entomology.....	21,683.45
Library.....	32,124.76
Astronomy.....	3,071.77
	<u>\$484,173.01</u>

Printing, Books and Publications:

Printing and Publishing.....	\$108,384.32
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Preparation and Exhibition:

Preparation and Exhibition.....	\$159,554.76
Vertebrate Palæontology.....	26,604.64
	<u>\$186,159.40</u>

Educational, Public School Work:

Public Education.....	<u>\$93,474.35</u>
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Administration and Operation:

Administration.....	\$253,755.80
General Supplies and Expenses.....	69,481.59
Heating and Lighting.....	130,098.66
Repairs and Installation.....	85,339.61
Special Repairs.....	30,057.56
Museum Restaurant Equipment.....	638.07
Museum Restaurant Deficiency.....	648.62
Architects' Services.....	4,320.35
Pension Fund and Group Insurance.....	36,976.10
	<u>\$611,316.36</u>

Financial Administration:

Administration.....	\$70,947.38
General Supplies and Expenses.....	14,220.14
	<u>\$85,167.52</u>

Total, all costs..... \$1,568,674.96

Balance, December 31, 1929..... \$227,746.31

Following the custom of past years, the Trustees approved a budget for 1929 of \$1,350,822.75, which was \$101,966.64 in excess of income. On January 7 at the Annual Meeting it was voted to guarantee this deficiency of \$101,966.64, and the Director and Bursar were authorized to operate the Museum on this basis for the year. Towards this deficiency the Trustees contributed \$77,-750.00, and the balance was received from income of Endowment, gifts from friends, membership and sales.

At the close of the year, the General and Morris K. Jesup Funds showed balances of \$13,359.18, of which \$10,960.00 was required to take care of obligations contracted in 1929, and the balance, \$2,399.18, was carried forward to 1930 toward the budget receipts for the year.

Our appeals for funds for field work, preparation of groups, publication of our scientific research work, and for extension of educational facilities have been met by a generous response. To all our friends and contributors we extend our most hearty thanks for their generous cooperation.

Space does not allow of including this list in our regular financial statement, and it is shown as follows:

GENERAL PURPOSES, 1929

Anonymous.....	\$13.65	Jones, Helen S.....	1.00
Bonewitz, Joseph W.....	2.00	Luquer, Prof. Lea McL.....	15.00
Cooley, Francis B.....	4.00	MacVeagh, Mrs. Ewen	
Dwight, Mrs. E. F.....	75.00	Cameron.....	5.00
Grant, W. Henry.....	10.00	McMullen, R. W.....	2.00
Harkness, Mrs. Edward S.....	200.00	Parsons, W. U.....	25.00
Harriman, Mrs. J. Low.....	20.00	Scully, C. Alison.....	250.00
Henderson, A. I.....	2.00	Swan, Miss Harriet S.....	5.00
Hover, W. A.....	5.00		<u>\$1,134.65</u>
Iselin, Adrian.....	500.00		

CENTRAL ASIATIC EXPEDITIONS FUND, 1927

Mack, Arthur J.....	<u>\$10.00</u>
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CENTRAL ASIATIC EXPEDITIONS FUND, 1928

Chapin, Miss Cornelia Van A.....	\$20.00	Wightman, Henry Nicoll.....	3.00
Kellogg, J. H.....	25.00		<u>\$58.00</u>
Mack, Arthur J.....	10.00		

CENTRAL ASIATIC EXPEDITIONS FUND, 1929

American Museum of Natural History.....	\$5,000.00	Kirkham, William B.....	15.00
Bæyertz, J. T. F.....	25.00	Leonard, Ralph B.....	1,000.00
Baker, George F.....	5,000.00	Lundquist, Miss G.....	10.00
Barr, James H.....	100.00	Lyeth, John C.....	5.00
Battle, Geo. Gordon.....	25.00	MacCurdy, Mrs. Winifred....	100.00
Bernheimer, Mr. and Mrs. Charles L.....	500.00	MacMurray, Clarence F.....	100.00
Boise, Charles Watson.....	100.00	Mayer, Dr. Leo.....	10.00
Bond, Stephen Norman.....	10.00	McClintock, Gilbert S.....	200.00
Bowdish, Beecher S.....	5.00	Morris, Dr. H. H.....	10.00
Bowdoin, George T.....	250.00	Morris, Dr. Lewis R.....	500.00
Brill, Dr. A. A.....	25.00	Mosman, Philip A.....	10.00
Cannon, Gabriel.....	10.00	Newbold, Arthur E., Jr.....	500.00
Carpenter, C. L.....	50.00	Newburger, Morton J.....	10.00
Casamajor, Miss Martha.....	5.00	Nickels, L. H.....	5.00
Cheney, Miss Mary.....	100.00	O'Donel, C. M.....	5.00
Cheney, Paul H.....	100.00	Paxson, Owen Shoemaker.....	50.00
Colgate, Sidney M.....	1,000.00	Price, Charles R.....	5.00
Cook, Mrs. D. C.....	25.00	Ramsperger, H. G.....	5.00
Crabbe, Miss Louise G.....	10.00	Raymond, R. O.....	25.00
Dole, Elwyn H.....	10.00	Rosenberg, Max L.....	100.00
Dorr, John V. N.....	25.00	Roy, James Bryant.....	10.00
Dunbar, F. L.....	50.00	Sachs, Paul J.....	25.00
Durlach, Theresa Mayer.....	25.00	Sage, Henry M.....	50.00
Emerson, Miss Julia T.....	5.00	Severance, John L.....	2,000.00
Farr, Miss Shirley.....	1,000.00	Scholle, Howard A.....	10.00
Fuguet, Howard.....	1,000.00	Sharpe, Henry D.....	100.00
Gammell, William.....	100.00	Sherman, Miss Corinne A....	15.00
Garrett, John W.....	100.00	Simpson, Miss Jean Walker...	25.00
Goodwin, William B.....	50.00	Sleeth, R. L., Jr.....	50.00
Gribbel, Mrs. John.....	25.00	Smith, Daniel Cranford.....	10.00
Guillaume, Jules A.....	10.00	Smith, F. Drexel.....	5.00
Guiterman, Percy L.....	10.00	Straus, Mrs. H. Grant.....	10.00
Hale, P. C.....	100.00	Taber, Miss M.....	25.00
Hamilton, Claude.....	25.00	Thompson, William Boyce...	100.00
Harmon, Wm. E., Estate of...	100.00	Van Vleck, Ernest Alan.....	100.00
Hegeman, Gerard C.....	75.00	Weigert, Hugo.....	10.00
Hoe, Mrs. Richard March...	100.00	Wightman, Henry Nicoll.....	12.00
Houghton, John D.....	5.00	Williams, William.....	100.00
Howard, John K.....	10.00	Worcester, Wilfred J.....	20.00
King, Willard V.....	100.00	Wright, Mrs. Eva Edgar.....	25.00
			<u>\$20,632.00</u>

CENTRAL ASIATIC EXPEDITIONS FUND, 1930

Bæyertz, J. T. F.....	<u>\$25.00</u>
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CENTRAL ASIATIC EXPEDITIONS FUND CONTINUATION FUND

Abert, Benjamin.....	\$25.00	Brune, Fred. H.....	5.00
Adler, Mortimer C.....	10.00	Bumpus, Hermon C.....	25.00
Alexander, Mrs. Charles B. .	100.00	Burden, John.....	10.00
Alexander, Bart, Sir Douglas.	100.00	Butler, Miss B. M.....	2.00
Alvord, George B.....	100.00	Bryne, James.....	100.00
Appleby, Mrs. John Storm. .	25.00	Cady, Dr. Gilbert H.....	10.00
Arend, F. J.....	100.00	Caldwell, Edward T.....	10.00
Armstrong, Grace C.....	5.00	Caldwell, Prof. Otis W.....	10.00
Armstrong, S. T., M.D.....	100.00	Calkins, William H.....	10.00
Auchincloss, Mrs. E. S.....	10.00	Capron, Mr. and Mrs. C.	
Baker, Carrie Ethel.....	5.00	Alexander.....	10.00
Baker, Mrs. James McF.....	25.00	Carlebach, Mrs. Emil.....	10.00
Ballard, Mrs. Elizabeth B....	100.00	Carlin, Mrs. William E.....	25.00
Barbour, Rev. James E.....	250.00	Carpenter, C. L.....	50.00
Barnard, Frederic.....	50.00	Case, Theodore W.....	100.00
Barstow, Frederic D.....	10.00	Casey, Edward Pearce.....	25.00
Bayne, Mrs. Lawrence P.....	25.00	Chandler, Miss Alice G.....	5.00
Beach, Goodwin B.....	10.00	Chandler, W. F.....	200.00
Beardslee, Lisle R.....	100.00	Chapin, Charles M.....	100.00
Beardsley, Dr. E. J. G.....	10.00	Chapin, Miss Cornelia Van A.	25.00
Beck, K. C., Jr.....	5.00	Childs, S. W.....	50.00
Beckwith, Mrs. Daniel.....	500.00	Church, E. D.....	100.00
Beer, Mrs. J.....	5.00	Clark, Miss E. Mabel.....	40.00
Behre, Ellinor H.....	5.00	Clark, Harold T.....	25.00
Belknap, Henry Wyckoff.....	20.00	Clauder, Rudolph.....	10.00
Bell, Ed. A.....	10.00	Cleaver, Mrs. Albert N.....	25.00
Beller, Wm. F.....	25.00	Coburn, Miss Louise H.....	10.00
Benjamin, Henry Rogers....	100.00	Codman, Russell S.....	30.00
Benjamin, Lieut.-Col. Julian A.	100.00	Cole, Harry N.....	2.00
Bennett, Lawrence.....	10.00	Colgate, Henry A.....	200.00
Bent, Arthur Cleveland....	25.00	Colgate, Russell.....	100.00
Bernheim, Henry J.....	100.00	Cone, Bernard M.....	25.00
Berry, Ward Leonard.....	2.00	Congdon, Walter B.....	50.00
Blum, Mrs. H. L.....	25.00	Cooper, Mrs. James Fenimore	200.00
Boardman, Bradford.....	10.00	Cowles, John H.....	25.00
Boise, Charles Watson.....	250.00	Cox, Evelyn Quintard.....	5.00
Bole, B. P.....	250.00	Cox, J. D.....	100.00
Bolton, Charles C.....	100.00	Cox, John Lyman.....	50.00
Bond, Stephen Norman.....	10.00	Cox, James S.....	5.00
Borcea, Prof. R.....	2.00	Crosby, Albert H.....	20.00
Boyd, Mrs. James.....	50.00	Cullinan, J. S.....	100.00
Bradley, Leverett.....	3.00	Curtiss, Franklin.....	10.00
Brand, Edw. E.....	5.00	Dale, Mrs. Eben.....	10.00
Brewster, Frank.....	10.00	Dana, Paul.....	10.00
Brown, J. Alexander.....	25.00	Danforth, Mrs. E. H.....	100.00
Brownell, F. H.....	25.00	Davenport, E.....	5.00

CENTRAL ASIATIC EXPEDITIONS FUND CONTINUATION FUND

(Continued)

Danvenport, Mrs. Elizabeth B.	5.00	Grossman, Mrs. Edward A...	5.00
Davis, Gherardi.....	100.00	Haber, Vernon R.....	5.00
Davis, John W.....	100.00	Haldt, Harry Peale.....	5.00
Davis, Waters S.....	25.00	Hall, Geraldine C.....	5.00
Davis, W. T.....	10.00	Halliday, George E.....	100.00
Day, Margaret D.....	10.00	Harkness, William Hale.....	500.00
Day, Miss Sarah J.....	5.00	Hart, W. O.....	1.00
Dean, Gerald J.....	25.00	Harvey, Mrs. Elbert A.....	25.00
Desmond, Thomas C.....	25.00	Haskins, Caryl Parker.....	25.00
Dibblee, B. H.....	10.00	Hatheway, Mrs. C. P.....	100.00
Dickey, Mrs. Charles D., Jr..	10.00	Heermans, Miss Mary E....	5.00
Dodge, Cleveland E.....	250.00	Hellman, Henry.....	5.00
Dougan, Rose G.....	100.00	Hencken, Hancke.....	50.00
Drinker, Dr. Henry S.....	10.00	Henderson, A. I.....	100.00
DuBois, Miss Ethel.....	25.00	Henry, F. A.....	10.00
DuBois, Mrs. Matthew B....	20.00	Herr, Edwin M.....	100.00
Dudley, Harry C.....	25.00	Hess, George H., Jr.....	25.00
Eder, Charles J.....	100.00	Heydt, Herman A.....	5.00
Edge, Mrs. C. N.....	20.00	Higginson, Mrs. James J....	25.00
Edison, Mr. and Mrs. Thos. A	50.00	Hills, Mrs. George F.....	10.00
Ehrenclou, Alfred H.....	10.00	Holden, Guerdon S.....	2,000.00
Eimer, August.....	10.00	Holt, George C.....	10.00
Ellis, Ralph, Jr.....	10.00	Hooke, Robert G.....	10.00
Elsberg, H. A.....	10.00	Horr, A. R.....	10.00
Emerson, Miss Julia T.....	5.00	Hotchener, Bernard.....	2.00
Erbsloh, R.....	25.00	Hough, Edward B.....	25.00
Erickson, Mrs. A. Wentworth	100.00	Hubbard, Mrs. G. M.....	10.00
Esberg, Henry.....	50.00	Hudson, Marjorie V. L.....	100.00
Farlow, Lewis H.....	100.00	Hull, Mrs. A. G.....	10.00
Farrington, R. I.....	100.00	Hunt, Lucy.....	5.00
Ferguson, Miss Eleanor.....	10.00	Hunter, Roland Jackson....	25.00
Field, Wm. Osgood.....	10.00	Hüpfel, J. Chr. G.....	5.00
Foster, Miss Julia R.....	25.00	Hussey, Rear-Admiral C. L..	10.00
Fox, Noel Bleecker.....	10.00	Hutchinson, Charles F.....	25.00
French, W. H.....	25.00	Huxley, Prof. Julian S.....	10.00
Fuller, Mrs. Eugene.....	100.00	Ill, Edward J.....	10.00
Fuller, Richard Eugene.....	25.00	Jackson, Mrs. Charles.....	25.00
Gailor, Thomas F.....	5.00	Jacobs, Miss Sarah.....	5.00
Gallatin, Miss Beatrice.....	25.00	Jacoby, Henry S.....	5.00
Garver, John A.....	50.00	James, Arthur Curtiss.....	1,000.00
Gerry, Mr. and Mrs. Robert L.	500.00	Jarvis, N. S., M.D.....	25.00
Giffen R. B.....	10.00	Jeanes, Mrs. Isaac W.....	10.00
Goodenough, Robert J.....	50.00	Jenkins, Alfred W.....	25.00

CENTRAL ASIATIC EXPEDITIONS FUND CONTINUATION FUND

(Continued)

Johnston, J. W.....	5.00	McGregor, Tracy W.....	25.00
Jones, Livingston E.....	250.00	McMaster, Mrs. Philip.....	10.00
Kahn, Walter N.....	10.00	Mertzanoff, Andre.....	25.00
Keen, W. W.....	25.00	Metz, Herman A.....	100.00
Keep, Chauncey.....	10.00	Miller, Hoyt.....	10.00
Kellogg, J. H.....	50.00	Milliken, Arthur N.....	500.00
Kempf, E. J.....	5.00	Mitchell, Walter J.....	100.00
Kerr, R. C.....	50.00	Mitchell, Walter S.....	100.00
Kespohl, Julius.....	10.00	Molleson, George A.....	10.00
Kimball, Walter F.....	25.00	Moore, Edward C., Jr.....	500.00
Kirkham, George D.....	25.00	Morgan, J. P.....	7,500.00
Knapp Fund, The.....	1,000.00	Mosman, Philip A.....	10.00
Kranebell, Mrs. Cora E.....	2.00	Moulton, Miss Frances.....	10.00
Kress, Samuel H.....	25.00	Mudge, E. W.....	100.00
Kridel, Alexander H.....	25.00	Murray, Dr. Gilbert D.....	5.00
Kroll, Clifton H.....	50.00	Neustadter, L. W.....	25.00
LaDow, Stanley V.....	10.00	Niehaus, Dr. Herman R.....	5.00
Lagai, Dr. G.....	10.00	Nolan, L. J.....	25.00
Lambert, Alexander.....	25.00	Noyes, Winthrop G.....	100.00
Lamont, T. W.....	250.00	Ogle, Mrs. Ponsonby.....	50.00
Langley, E. P.....	10.00	Olmsted, Mrs. John C.....	100.00
Lawrence, Mrs. Annie W.....	10.00	Openhym, George J.....	25.00
Leaird, Byron.....	5.00	Osterhout, George E.....	10.00
Lerner, Michael.....	25.00	Ovington, Charles K.....	15.00
Leverett, Frank.....	25.00	Paine, Richard C.....	1,000.00
Lewis, Mrs. August.....	25.00	Park, F. A.....	100.00
Liebmann, Alfred.....	10.00	Parsons, Bertha R.....	10.00
Lilienthal, Dr. Howard.....	5.00	Peck, E. Stuart.....	25.00
Logan Museum, Beloit College	1,000.00	Pell, Walden.....	5.00
Lord, William S.....	2.00	Perkins, Mrs. George W.....	100.00
Lothrop, Dr. Oliver A.....	5.00	Perry, Mrs. Louise M.....	5.00
Ludlam, C. A.....	100.00	Peskind, Dr. Arnold.....	10.00
Lundquist, Miss G.....	10.00	Peters, Miss Alice R.....	20.00
Lyeth, J. M. R.....	10.00	Peters, W. R.....	25.00
Mabbott, Thomas Ollive, Ph.D	5.00	Pforzheimer, Walter.....	25.00
Mackenzie, Dr. George W...	5.00	Pierson, D. H.....	15.00
Madeira, Percy C.....	100.00	Plant, Dr. O. H.....	25.00
Manges, Dr. Morris.....	10.00	Poel, Frank.....	50.00
Mansfield, Howard.....	25.00	Pomeroy, Katherine.....	100.00
Marsh, John B.....	10.00	Portalis, Maurice Rousseau...	10.00
Masson, John G.....	5.00	Porter, Edward C.....	100.00
Matthews, Charles H., Jr...	10.00	Post, Abram S.....	10.00
Mayer, Mrs. John Adams...	10.00	Pratt, Mrs. John T.....	100.00
McAllister, M. Hall.....	10.00	Prescott, Dr. Henry D.....	10.00

CENTRAL ASIATIC EXPEDITIONS FUND CONTINUATION FUND

(Continued)

Prizer, Edward.....	500.00	Simpson, Miss Jean Walker..	100.00
Putnam, Helen C., M.D.....	25.00	Skeel, Mrs. H. Robertson.....	10.00
Raymond, R. O.....	25.00	Skeel, Mrs. Roswell, Jr.....	100.00
Rebmann, G. Ruhland, Jr....	25.00	Skougaard, Jens.....	100.00
Reed, Henry H.....	25.00	Smith, Arthur.....	25.00
Reed, L. B.....	5.00	Smith, F. Drexel.....	10.00
Renwick, Mrs. William.....	5.00	Smith, Mrs. F. Sullivan.....	10.00
Reyburn, Sam'l W.....	50.00	Smith, W. Hinckle.....	200.00
Rice, Grantland.....	25.00	Snyder, Harry.....	10.00
Richard, Miss Elvine.....	100.00	Sociedad de Estudios Biologi-	
Rives, F. Bayard.....	50.00	cos.....	5.00
Roberts, Horace.....	5.00	Stanley, Mrs. D. S.....	10.00
Robinson, Mrs. C. L. F.....	10.00	Starr, Howard W.....	25.00
Robinson, Karl H.....	10.00	Starr, Louis Morris.....	100.00
Robinson, Mark H.....	10.00	Stevens, James C.....	10.00
Rockefeller, John D., Jr....	7,500.00	Stewart, Colin C., Ph.D....	10.00
Rodie, Mrs. W. S.....	25.00	Stone, Thomas E.....	5.00
Rogers, Daniel W.....	5.00	Stubbs, O. T.....	5.00
Rogers, Dr. Oscar H.....	10.00	Stubner, L. M.....	25.00
Ross, Reuben J.....	25.00	Stump, H. Arthur.....	5.00
Rumsey, W. E.....	5.00	Sullivan, Mrs. James.....	20.00
Ryle, Arthur.....	100.00	Sultzberger, Arthur Hays...	100.00
Sachs, Mr. and Mrs. Paul J..	25.00	Sumner, Graham.....	100.00
Sage, Mrs. William H.....	250.00	Swan, James A.....	100.00
Sargent, H. E.....	100.00	Swan, Mrs. J. Andrews.....	100.00
Sargent, Miss Laura.....	100.00	Taggart, Rush.....	10.00
Satchell, George E. H.....	5.00	Taylor, C. Newbold.....	25.00
Satterlee, Mr. and Mrs.		Taylor, Charles H.....	100.00
Herbert L.....	100.00	Taylor, Mrs. E. A.....	5.00
Satterlee, Hugh.....	25.00	Taylor, Mrs. William Rivers.	5.00
Schiff, Mortimer L.....	1,000.00	Thacker, Mrs. T. D.....	100.00
Schmidt, Louis H.....	10.00	Thompson, A. W.....	25.00
Schmucker, S. C.....	10.00	Thompson, Ethan W.....	1.00
Schniewind, Ewald H.....	50.00	Thompson, Mrs. J. Todhunter	100.00
Scholle, William D.....	20.00	Thorne, S. B.....	10.00
Seale, Alvin.....	5.00	Torrey, Raymond H.....	10.00
Seward, Dr. F. W.....	10.00	Tower, Joseph T.....	50.00
Sewell, James W., Jr.....	8.00	Towner, Rutherford.....	25.00
Seymour, Edmund.....	100.00	Townsend, Edward.....	100.00
Seymour, Henry T.....	5.00	Turnbull, E. J.....	5.00
Sheldon, Mrs. J. M. Arms....	50.00	Untermeyer, Mrs. Eugene...	10.00
Shepard, Finley J.....	150.00	Vaillant, G. W.....	50.00
Shield, M. L.....	2.00	Van Santvoord, Seymour....	10.00
Simons, W. C.....	100.00	Veeder, Curtis H.....	10.00

CENTRAL ASIATIC EXPEDITIONS FUND CONTINUATION FUND

(Continued)

Verplanck, James DeLancey.	10.00	Wherry, Wm. B.....	10.00
Vhay, A. L. Murphy.....	50.00	Whitnall, Harold O.....	10.00
Vial, Mrs. George M.....	200.00	Wickham, Mrs. Delos O.....	200.00
Waid, D. Everett.....	100.00	Wiley, Lena C.....	2.00
Walker, Thaddeus.....	20.00	Willard, Frank C.....	10.00
Wanzer, W. G.....	15.00	Williams, Mrs. George R.....	25.00
Warren, George C.....	5.00	Wilsey, Frank D.....	25.00
Warriner, J. B.....	20.00	Wittmer, Henry.....	100.00
Webb, Mrs. George H.....	10.00	Woodin, Mrs. C. R.....	25.00
Webb, Lewis M.....	10.00	Woods, Robert S.....	20.00
Webster, Frank G.....	50.00	Woodward, Lemuel Fox.....	25.00
Weeks, Carl.....	10.00	Woolf, Florence K.....	10.00
Weeks, Warren B. P.....	25.00	Woolley, Park M.....	50.00
Weil, Frank L.....	10.00	Young, Mrs. A. Murray.....	25.00
Weir, Dorothy.....	10.00	Zucker, Arthur A.....	100.00
Westervelt, William D.....	100.00		
Wheeler, Stafford M.....	5.00		<u>\$39,716.00</u>

CHARLES L. BERNHEIMER PICTOGRAPH FUND

Asiel, Nelson I.....	\$100.00	Metz, Herman A.....	100.00
Bache, Jules S.....	100.00	Meyer, Walter E.....	100.00
Bernheimer, Charles L.....	100.00	Naumburg, Walter W.....	100.00
Berolzheimer, A. C.....	100.00	Reis, Arthur M.....	50.00
Gilman, I.....	25.00	Rossin, Alfred S.....	100.00
Gintzler, Morris.....	25.00	Straus, Jesse Isidor.....	100.00
Halle, Stanley J.....	100.00	Sulzberger, Arthur Hays.....	100.00
James, Darwin R.....	100.00	Talcott, J. Frederick.....	100.00
Kingsley, D. P.....	100.00		
Kraus, S. B.....	100.00		<u>\$1,700.00</u>
Loree, L. F.....	100.00		

EMERGENCY EXHIBITION AND EDUCATION FUND No. 1 — 1928

Osborn, Wm. Church.....	<u>\$100.00</u>
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EMERGENCY EXHIBITION AND EDUCATION FUND No. 1 — 1929

Battle, Geo. Gordon.....	\$100.00	Osborn, Wm. Church.....	100.00
Blackmer, James L.....	100.00	Pierrepont, Anna J.....	100.00
Boury, Louis J.....	100.00	Riegger, Arnold F.....	25.00
Carnegie, Mrs. Louise W.....	100.00	Savin, William M.....	100.00
Chapin, Charles M.....	100.00	Schieren, Chas. A.....	100.00
Davis, Gherardi.....	100.00	Schiff, Mortimer L.....	100.00
Dean, Mrs. Bashford.....	100.00	Schwarz, Miss Emilie E.....	100.00
Gould, Edwin.....	100.00	Shearson, Edward.....	100.00
Guggenheim, Murry.....	100.00	Simpson, Miss Jean Walker...	100.00
Guggenheim, Simon.....	100.00	Sulzberger, Arthur Hays.....	100.00
Guggenheim, S. R.....	100.00	Tucker, Carll.....	100.00
Harriman, E. Roland.....	100.00	Vanderbilt, F. W.....	100.00
Lamont, T. W.....	100.00	Vanderbilt, William H.....	100.00
Mallinckrodt, Edward, Jr.....	100.00	Vanderbilt, W. K.....	100.00
McMillan, Francis W.....	100.00	Weber, Orlando F.....	100.00
Newbold, Arthur E., Jr.....	100.00	Wehrhane, Henry H.....	100.00
Nichols, Acosta.....	100.00		<u>\$3,325.00</u>
Nichols, Wm. H.....	100.00		

GROUP PREPARATION FUNDS**GENERAL PREPARATION 1929**

Beckwith, Mrs. Daniel.....	\$500.00
Cheney, Paul H.....	100.00
Darwin, Major Leonard....	24.15
Douglas, Miss Elizabeth....	200.00
DuBois, Mrs. Matthew B..	10.00
Farmer, Edward I.....	50.00
Gribbel, Mrs. John.....	10.00
Ostrom, Mrs. Homer Irvin.	5.00
Parsons, W. U.....	25.00
Reagan, William James....	2.00
Sarmiento, Mrs. F. J.....	100.00
Satterlee, Mrs. Herbert L..	50.00

Sullivan, Mrs. James.....	50.00
Thayer, Mrs. Ezra Ripley..	1,000.00
	<u>\$2,126.15</u>

ACONCAGUA GROUP

Tucker, Mrs. Carll.....	<u>\$2,500.00</u>
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DEEP SEA GROUP

English, Mrs. J. Radford..	<u>\$25.00</u>
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SEA LION GROUP

Harriman, Mrs. E. H.....	<u>\$5,000.00</u>
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FINANCIAL STATEMENT, 1929

PERMANENT ENDOWMENT

	Par Value	Book Value
Morris K. Jesup Fund.....	\$6,471,600.00	\$5,956,629.22
General Endowment Fund.....	1,841,000.00	1,821,339.41
Sixtieth Anniversary Endowment.....	109,100.00	105,962.40
The Sage Fund.....	1,710,350.00	1,618,348.60
George F. Baker Fund.....	263,150.00	249,995.35
John D. Rockefeller, Jr., Fund.....	958,750.00	1,203,399.62
Collis P. Huntington Fund.....	49,900.00	49,986.05
Wood Fosdick Fund.....	988,800.00	1,002,757.72
Anna M. Harkness Fund.....	1,020,100.00	1,024,001.32
Special Endowment Funds:		
J. P. Morgan Fund.....	489,350.00	479,134.78
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.....	10,500.00	10,590.00
Anson W. Hard Library Fund.....	5,000.00	5,007.50
Ralph Winfred Tower Memorial Fund..	23,500.00	23,956.62
Osborn Palaeontologic Research Fund....	4,900.00	4,566.80
Sixtieth Anniversary Endowment:		
Bashford Dean Ichthyological Library Fund.....	4,900.00	4,907.30
	<u>\$14,003,900.00</u>	<u>\$13,607,884.69</u>
Uninvested Cash.....	252,116.11	252,116.11
	<u>\$14,256,016.11</u>	<u>\$13,860,000.80</u>

Contributors to the Permanent Endowment, 1884-1929:

Auchincloss, Hugh....	\$10,223.56	Huntington, C. P.....	5,000.00	Sands, William R.....	10,000.00
Babcock, Samuel D....	5,000.00	Huntington, Mrs. C. P..	50,000.00	Schermerhorn, Wm. C	5,000.00
Baker, George F.....	250,000.00	Iden, Henry.....	10,000.00	Scully, C. Alison.....	50.00
Baker, George F., Jr..	250,000.00	Inslee, Helen C.....	5,000.00	Sellew, Caroline B....	65,000.00
Baugh, Margaret L....	10,000.00	Iselin, Adrian.....	10,000.00	Sloane, William.....	50,000.00
Bliss, Mrs. William H.	5,000.00	James, Arthur Curtiss.	26,750.00	Stuart, Mrs. Mary....	50,000.00
Bondy, Emil C.....	10,000.00	James, D. Willis.....	5,000.00	Sturges, Frederick, Jr.	1,000.00
Bowdoin, George S....	5,000.00	Jesup, Mrs. Morris K..	1,225,000.00	Thorne, Phebe Anna..	30,000.00
Bridgman, Fanny.....	15,000.00	Juilliard, A. D.....	5,000,000.00	Tilford, Chas. E.....	25,070.37
Bruce, Miss M. W.....	10,000.00	Juilliard, Helen C....	100,000.00	Tod, J. Kennedy.....	10,000.00
Coe, W. R.....	5,000.00	Kitching, Frank W....	50,000.00	Trevor, Mrs. Emily....	30,098.90
Combe, Louisa.....	42,172.33	Landon, Charles.....	10,043.00	Vanderbilt, Cornelius.	25,000.00
Constable, Fred. A....	2,000.00	Lanier, Charles.....	5,000.00	Vanderbilt, William H	50,000.00
Constable, James M....	25,000.00	Loeb, Solomon.....	4,500.00	Villard, Henry.....	5,000.00
Cook, Frances Julia..	20,000.00	McLean, Mrs. James..	5,000.00	Warburg, Felix M.....	19,000.00
Davis, Benjamin P....	22,799.25	Mills, D. O.....	1,000.00	Watson, Emily A.....	10,010.52
Dean, Bashford.....	5,000.00	Mitchell, Albert M. P.	125,000.00	Wolff, Emil.....	1,405.50
Dodge, William E.....	5,000.00	Moore, Edw. C. Jr....	4,953.97	36 Contributors of	
Dodge, W. E.....	10,000.00	Morgan, J. Pierpont..	5,000.00	\$1,000.00 or less	
Douglas, James.....	100,000.00	Morgan, J. P.....	325,000.00	previously reported	
Eno, Amos F.....	246,033.33	Osborn, Henry F.....	127,187.50		22,564.38
Fiske, Mrs. Martha T.	10,000.00	Ottendorfer, Oswald..	5,000.00		\$13,416,053.34
Fosdick, Wood.....	995,984.88	Pratt, George D.....	30,000.00	Patronship Fees.....	28,000.00
Gade, Frederika.....	4,956.72	Pyne, Percy R. (No. 1)	50,000.00	Fellowship Fees.....	9,000.00
Goldenburg, Joel.....	1,900.00	Pyne, Percy R.....	45,000.00	Life Membership Fees	81,100.00
Hard, Anson W.....	5,000.00	Rhinelandler, Chas. E..	27,500.00	Subscriptions to Ralph	
Harkness, Anna M....	1,000,000.00	Rich, M. P.....	22,669.25	Winfred Tower Mem-	
Harkness, Edward S..	100,000.00	Rockefeller, J. D., Jr..	10,000.00	orial Fund.....	24,032.00
Havemeyer, H. O.....	25,000.00	Rockefeller, William..	1,025,000.00		
Hill, James N.....	9,702.50	Sage, Mrs. Russell....	10,000.00		\$13,558,185.84
Hitchcock, Miss S. M.	5,000.00		1,471,477.88		

ENDOWMENT AND INVESTMENT ACCOUNT

Receipts, 1929

UNRESTRICTED FUNDS

General Endowment Funds:

General Endowment Fund:

Balance.....	\$741.41	
Sale of Securities.....	44,303.29	
Bequest of Charles E. Rhinelanders.....	1,000.00	\$46,044.70

George F. Baker Fund: Balance..... 4.65

Anna M. Harkness Fund: Balance..... 257.58

Collis P. Huntington Fund: Balance..... 13.95

John D. Rockefeller, Jr., Fund:

Balance.....	\$57.44	
Sale of Securities.....	77,700.00	77,757.44

The Sage Fund:

Balance.....	\$710.97	
Bequest of Margaret Olivia Sage, final distribution....	105.29	
Sale of Securities.....	14,748.03	
Amortization Payments.....	1,400.00	16,964.29

Wood Fosdick Fund:

Balance.....	\$233.09	
Amortization Payments.....	1,200.00	1,433.09

Sixtieth Anniversary Endowment:

Gift of C. Alison Scully.....	\$50.00	
Gift of Frederick Sturges, Jr..	1,000.00	
Gift of W. R. Coe.....	5,000.00	
Gift of Mrs. James McLean..	1,000.00	
Gift of George F. Baker, Jr....	250,000.00	
Bequest of M. P. Rich.....	10,000.00	
*Bequest of Caroline B. Sellew	20,000.00	
Bequest of Percy R. Pyne....	25,000.00	
Sale of Securities.....	45,000.00	357,050.00

Total General Endowment..... \$499,525.70

RESTRICTED FUNDS

Special Endowment Funds:

Matilda W. Bruce Fund: Balance..... \$75.70

Anson W. Hard Library Fund: Balance..... 81.57

Morris K. Jesup Fund:

Balance.....	\$100.84	
Sale of Securities.....	182,880.87	182,981.71

J. P. Morgan Fund: Sale of Securities..... 330,000.00

Osborn Palæontologic Research Fund:

Balance.....	\$86.37	
Sale of Securities.....	4,495.28	4,581.65

Physical Anthropology Fund: Balance..... 55.53

Jonathan Thorne Memorial Fund: Balance... 77.00

Ralph Winfred Tower Memorial Fund:

Balance..... 78.00

Sixtieth Anniversary Endowment:

Bashford Dean Ichthyological Library Fund:

Bequest of Bashford Dean..... 5,000.00

Total Special Endowment..... 522,931.16

Interest on Credit Balances..... 829.65

\$1,023,286.51

ENDOWMENT AND INVESTMENT ACCOUNT

Disbursements, 1929

UNRESTRICTED FUNDS

General Endowment Funds:

General Endowment Fund:		
Purchase of Securities.....	\$45,990.15	
Anna M. Harkness Fund:		
Purchase of Securities.....	196.40	
John D. Rockefeller, Jr. Fund:		
Purchase of Securities.....	77,667.25	
The Sage Fund:		
Purchase of Securities.....	16,881.63	
Wood Fosdick Fund:		
Purchase of Securities.....	1,371.80	
Sixtieth Anniversary Endowment:		
Purchase of Securities.....	<u>105,962.40</u>	
Total General Endowment.....		\$248,069.63

RESTRICTED FUNDS

Special Endowment Funds:

Morris K. Jesup Fund:		
Purchase of Securities.....	\$182,881.78	
J. P. Morgan Fund:		
Purchase of Securities.....	329,915.24	
Osborn Palæontologic Research Fund:		
Purchase of Securities.....	4,566.80	
Sixtieth Anniversary Endowment:		
Bashford Dean Ichthyological Library Fund:		
Purchase of Securities.....	<u>4,907.30</u>	
Total Special Endowment.....		522,271.12
Interest on Credit Balances (to General Account).....		829.65
Cash on hand, December 31, 1929.....		<u>252,116.11</u>
		<u>\$1,023,286.51</u>

*Mortgages were received to the amount of \$45,000 on account of the bequest of Caroline B. Sellev.

CITY MAINTENANCE ACCOUNT***Receipts, 1929****Capital Fund:**

Cash on hand, January 1, 1929.....	\$15,000.00
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Department of Parks, City of New York, 1929:

Salaries, Regular Employees.....	\$398,607.73
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Expenses for Other Than Personal Service:

1. Fuel Supplies.....	\$19,413.00
2. Office Supplies.....	7,998.00
3. Laundry Cleaning and Dis-	
infecting Supplies.....	2,718.00
4. Motor Vehicle Supplies..	1,506.05
5. Educational and Recreational	
Supplies.....	1,942.00
6. General Plant Supplies...	3,688.00
7. Wearing Apparel.....	1,941.00
8. Office Equipment.....	776.50
9. General Plant Equipment	1,165.00
10. General Plant Materials..	11,066.00
11. Special Repairs (Building	
Materials).....	4,310.00
12. Repairs and Replacements	2,422.17
13. Telephone Service.....	2,330.00
14. Fixed Charges and Con-	
tributions.....	6,290.00

	<u>67,565.72</u>
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Total net receipts for the maintenance of all departments...	466,173.45
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	<u><u>\$481,173.45</u></u>
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*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 1929, amounting to \$373,755.31, has been met from the Trustees' General Account.

CITY MAINTENANCE ACCOUNT

Disbursements, 1929

Administration and Operation:

Administration.....	\$200,672.76	
General Supplies and Expenses..	23,589.28	
Heating and Lighting.....	74,239.11	
Repairs and Installation.....	45,458.37	
Special Repairs.....	<u>17,621.63</u>	\$361,581.15

Financial Administration:

Administration.....	23,300.00
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Scientific and Research:

Geology and Invertebrate Palæontology.....	\$1,593.91	
Mineralogy.....	3,698.10	
Mammalogy.....	4,356.84	
Ornithology.....	5,937.44	
Vertebrate Palæontology.....	4,167.50	
Comparative Anatomy.....	782.19	
Anthropology.....	5,850.00	
Ichthyology.....	2,666.86	
Herpetology and Experimental Biology.....	2,751.32	
Lower Invertebrates.....	5,160.53	
Entomology.....	3,550.00	
Library.....	<u>7,520.00</u>	48,034.69

Printing Books and Publications:

Printing and Publishing.....	8,304.22
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Preparation and Exhibition:

Preparation and Exhibition.....	1,921.50
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Educational — Public School Work:

Public Education.....	23,031.89
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Total net disbursements for maintenance of all departments

\$466,173.45

Capital Fund:

Cash on hand December 31, 1929.....	15,000.00
	<u><u>\$481,173.45</u></u>

GENERAL ACCOUNT**Receipts, 1929**

Cash on hand, January 1, 1929.....		\$7,200.20
Income from General Endowment Fund.....	\$93,250.58	
Income from The Sage Fund.....	88,031.58	
Income from George F. Baker Fund.....	13,157.50	
Income from John D. Rockefeller, Jr., Fund.....	61,936.25	
Income from Collis P. Huntington Fund.....	2,495.00	
Income from Wood Fosdick Fund.....	55,615.67	
Income from Charles M. Jesup Trust Fund.....	4,715.83	
Income from Anna M. Harkness Fund.....	49,705.50	
Income from Sixtieth Anniversary Endowment..	1,727.60	
Interest on Credit Balances.....	3,930.62	
Patrons, Fellows and Life Members.....	13,600.00	
Sustaining Members.....	5,825.00	
Annual Members.....	48,370.00	
Associate Members.....	12,912.00	
Sale of Publications.....	8,391.65	
Subscriptions to Natural History.....	2,677.20	
Sales and Exchanges.....	2,423.03	
Contributions of Trustees for General Purposes:		
George F. Baker, Jr.....	\$10,000.00	
George T. Bowdoin.....	2,000.00	
Frederick F. Brewster.....	2,500.00	
Cleveland Earl Dodge.....	1,000.00	
Chauncey J. Hamlin.....	250.00	
Oliver G. Jennings.....	2,500.00	
Roswell Miller.....	500.00	
Ogden Mills.....	20,000.00	
J. P. Morgan.....	20,000.00	
Junius S. Morgan, Jr.....	4,000.00	
Henry Fairfield Osborn.....	1,000.00	
S. Brinckerhoff Thorne.....	1,000.00	
Felix M. Warburg.....	10,000.00	74,750.00
*Contributions for General Purposes.....		1,134.65
Contributions for Special Purposes:		
Carnegie Corporation of New York.....	\$15,000.00	
Cleveland H. Dodge Foundation.....	5,000.00	20,000.00
Subscriptions for Emergency Exhibition and Education (transferred from Special Funds)..		4,625.00
Subscriptions for Group Preparation (transferred from Special Funds).....		10,286.15
Total net receipts for the development of all departments		<u>579,560.81</u> <u>\$586,761.01</u>

*See listing on page 131 of this Report.

GENERAL ACCOUNT

Disbursements, 1929

Administration and Operation:		
Administration.....	\$53,083.04	
General Supplies and Expenses.....	43,927.31	
Heating and Lighting.....	55,859.55	
Repairs and Installation.....	39,881.24	
Special Repairs.....	12,435.93	
Architects' Services.....	4,320.35	
Museum Restaurant.....	1,286.69	
Pension Fund.....	29,158.62	
Group Life Insurance.....	7,817.48	\$247,770.21
Financial Administration:		
Administration.....	\$47,647.38	
General Supplies and Expenses.....	14,220.14	61,867.52
Scientific and Research:		
Geology and Invertebrate Palaeontology.....	\$3,947.92	
Mineralogy.....	1,337.52	
Mammalogy.....	7,408.62	
Ornithology.....	6,386.92	
Central Asiatic Exploration and Research.....	1,822.90	
Vertebrate Palaeontology.....	9,349.84	
Comparative Anatomy.....	5,124.04	
Anthropology.....	11,213.22	
Ichthyology.....	3,048.20	
Herpetology and Experimental Biology.....	6,247.17	
Lower Invertebrates.....	4,529.02	
Entomology.....	7,929.79	
Library.....	10,486.68	
Astronomy.....	3,071.77	81,903.61
Printing, Books and Publications:		
Printing and Publishing.....		68,280.75
Preparation and Exhibition:		
Preparation and Exhibition.....		51,935.49
Educational—Public School Work:		
Public Education.....		68,291.19
Total net disbursements for the development of all departments		\$580,048.77
Balance December 31, 1929		*6,712.24
		<u>\$586,761.01</u>
*Orders and Contracts outstanding of 1929 Account.....		\$5,000.00
Cash available for 1930.....		1,712.24
		<u><u>\$6,712.24</u></u>

MORRIS K. JESUP FUND ACCOUNT*

Receipts, 1929

Trustees' Restricted Funds:

Cash on hand, January 1, 1929.....		\$13,227.01
Income from Morris K. Jesup Fund.....	\$281,233.27	
Sale of Publications.....	2,832.01	
Sales and Exchanges.....	246.85	284,312.13
Total net receipts for the development of all departments		\$297,539.14

Disbursements, 1929

Scientific and Research:

Geology and Invertebrate Palæontology.....	\$10,694.91	
Mineralogy.....	3,431.04	
Mammalogy.....	15,830.19	
Central Asiatic Exploration and Research.....	16,683.83	
Ornithology.....	22,855.00	
Vertebrate Palæontology.....	14,625.61	
President Osborn's Science Fund	9,655.69	
Comparative Anatomy.....	10,117.03	
Anthropology.....	20,927.11	
Ichthyology.....	11,480.50	
Herpetology and Experimental Biology.....	12,872.16	
Lower Invertebrates.....	6,904.89	
Entomology.....	9,988.18	
Library.....	11,838.08	\$177,904.22

Printing, Books and Publications:

Printing and Publishing.....	29,244.91
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Preparation and Exhibition:

Preparation and Exhibition.....	\$57,138.43	
Vertebrate Palæontology.....	26,604.64	83,743.07

Total net disbursements for the development of all departments

\$290,892.20

Cash on hand December 31, 1929.....

†6,646.94

\$297,539.14

*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 1929 Account \$5,960.00

Cash available for 1930 686.94

\$6,646.94

SPECIAL FUNDS ACCOUNT

Receipts and Disbursements, 1929

GEOLOGY AND INVERTEBRATE
PALAEONTOLOGY

	Receipts	Disbursements	Balance Dec. 31, 1929
Glacial Maps Fund:			
Carnegie Institute of Washing- ton.....	\$1,025.60		
	\$1,025.60	\$1,025.60	
World Map Fund:			
A. Hamilton Rice.....	2,775.50		
	\$2,775.50	\$2,775.50	

MINERALOGY

Matilda W. Bruce Fund:			
Balance.....	432.73		
Interest.....	616.00		
	\$1,048.73	\$333.00	\$715.73
J. P. Morgan Fund—Mineralogy:			
Transferred from Reserve.....	2,105.34		
	\$2,105.34	\$2,105.34	

MAMMALOGY

Abyssinian Expedition Fund:			
Balance.....	1,036.12		
	\$1,036.12	\$1,021.79	\$14.33
George S. Bowdoin Whale Model Fund:			
Balance.....	750.00		
	\$750.00		\$750.00
Angelo Heilprin Exploring Fund— Mammalogy			
Transferred from Reserve.....	1,050.00		
	\$1,050.00	\$1,050.00	
Morden-Graves North Asiatic Expedition:			
George Coe Graves, 2nd.....	15,000.00		
	\$15,000.00	\$12,523.57	\$2,476.43
Ottley-Anthony South American Expedition Fund:			
Gilbert Ottley.....	6,700.00		
	\$6,700.00	\$2,564.38	\$4,135.62
Tyler-Tate Expedition Fund:			
Balance.....	396.66		
Sydney F. Tyler, Jr.....	5,793.24		
	\$6,189.90	\$6,189.90	
Carried Forward.....	\$37,681.19	\$29,589.08	\$8,092.11

SPECIAL FUNDS ACCOUNT (Continued)

	Receipts	Disbursements	Balance Dec. 31, 1929
Brought Forward.....	\$37,681.19	\$29,589.08	\$8,092.11
ASIATIC EXPLORATION AND RESEARCH			
Central Asiatic Expeditions Fund:			
*Subscriptions 1927.....	10.00	10.00	
Balance 1928.....	10,713.94		
*Subscriptions.....	58.00	10,771.94	
Balance 1929.....	4,865.00		
*Subscriptions.....	20,632.00		
Sales.....	130.00	11,291.80	\$14,335.20
*Subscriptions 1930.....	25.00		25.00
*Continuation Fund,			
Subscriptions.....	39,716.00	100.00	39,616.00
Sale of Publications, 1928			
Balance.....	1,943.69		1,943.69
Sale of Publications, 1929.....	1,464.24		1,464.24
	\$79,557.87	\$22,173.74	\$57,384.13
ORNITHOLOGY			
Amazon Field Fund:			
Balance.....	96.33		
Mrs. Walter W. Naumburg....	4,005.50		
	\$4,101.83	\$2,936.29	\$1,165.54
Archbold Madagascar Expedition Fund:			
Balance.....	9,567.35		
John F. Archbold.....	15,000.00		
	\$24,567.35	\$20,841.98	\$3,725.37
Gulf of Guinea Expedition Fund:			
Balance.....	87.98		
S. Brinckerhoff Thorne.....	3,000.00		
	\$3,087.98	\$3,069.19	\$18.79
Hudson Bay Bird Fund:			
Balance.....	103.73		
	\$103.73		\$103.73
New Guinea and Adjacent Islands Fund:			
Balance.....	1,787.15		
	\$1,787.15	\$1,669.79	\$117.36
Carried Forward.....	\$150,887.10	\$80,280.07	\$70,607.03

*See listing on pages 131-137 of this Report.

SPECIAL FUNDS ACCOUNT (Continued)

	Receipts	Disbursements	Balance Dec. 31, 1929
Brought Forward.....	\$150,887.10	\$80,280.07	\$70,607.03
Ruwenzori-Kivu Expedition Fund:			
Balance.....	230.17		
L. C. Sanford.....	25.00		
Sales.....	5.00		
	\$260.17	\$248.64	\$11.53
Margaret Olivia Sage Fund:			
Balance.....	1,537.97		
Interest.....	427.88		
	\$1,965.85	\$1,965.85	
Mrs. Oscar Straus African Expedition Fund:			
Balance.....	2,485.00		
Mrs. Oscar S. Straus.....	2,947.72		
	\$5,432.72	\$5,432.72	
Whitney South Sea Expedition Fund:			
Balance.....	5.64		
H. P. Whitney.....	20,102.62		
	\$20,108.26	\$20,107.49	\$.77
VERTEBRATE PALAEOLOGY			
Edward D. Cope Biography Fund:			
Balance.....	361.02		
Julia Cope Collins.....	100.00		
Elizabeth W. Garrett.....	100.00		
	\$561.02	\$561.02	
Florida Palæontology Research Fund:			
Walter W. Holmes.....	361.84		
	\$361.84	\$361.84	
Frick-Gregory-Fulda Mural Fund:			
Transferred from Pliocene Fund—			
Vertebrate Palæontology...	500.00		
	\$500.00	\$345.10	\$154.90
J. P. Morgan Fund—Vertebrate Palæontology:			
Transferred from Reserve.....	16,500.00		
	\$16,500.00	\$16,500.00	
Osborn Palæontologic Research Fund:			
Balance.....	207.50		
Interest.....	182.88		
	\$390.38	\$250.00	\$140.38
American Pliocene Fund—Vertebrate Palæontology:			
Balance.....	6,717.95		
Anonymous.....	13,500.00		
Mrs. Childs Frick.....	5,000.00		
	\$25,217.95	\$16,529.05	\$8,688.90
Carried Forward.....	\$222,185.29	\$142,581.78	\$79,603.51

SPECIAL FUNDS ACCOUNT (Continued)

	Receipts	Disbursements	Balance Dec. 31, 1929
Brought Forward.....	\$222,185.29	\$142,581.78	\$79,603.51
Siwalik Preparation Fund:			
Balance.....	139.30		
	\$139.30	\$139.30	
Vertebate Palæontology Fund:			
Balance.....	793.44		
	\$793.44		\$793.44
Western Field Funds:			
Balance.....	5,000.00		
Mrs. Adelaide H. C. Frick.....	5,000.00		
	\$10,000.00	\$5,374.52	\$4,625.48
COMPARATIVE ANATOMY			
Comparative Anatomy Fund:			
Transferred from Childs Frick			
Reserve.....	850.00		
	\$850.00	\$709.50	\$140.50
ANTHROPOLOGY			
Charles L. Bernheimer Pictograph Fund:			
*Subscriptions.....	1,700.00		
	\$1,700.00	\$986.16	\$713.84
Canon del Muerto Fund:			
Balance.....	1,375.81		
Ogden L. Mills.....	625.00		
	\$2,000.81	\$1,813.64	\$187.17
Carnegie Conference Fund:			
Carnegie Corporation of New			
York.....	1,213.00		
	\$1,213.00	\$1,213.00	
Mrs. Dorothy Whitney Elmhirst Fund:			
Mrs. Dorothy Whitney Elm-			
hirst.....	750.00		
	\$750.00		\$750.00
Folsom Project Fund:			
Mrs. Payne Whitney.....	1,500.00		
	\$1,500.00	\$1,359.89	\$140.11
Myron I. Granger Fund:			
Myron I. Granger.....	2,500.00		
	\$2,500.00	\$2,500.00	
International Congress of Americanists:			
Balance.....	856.02		
	\$856.02	\$856.02	
Carried Forward.....	\$244,487.86	\$157,533.81	\$86,954.05

*See listing on page 137 of this Report.

SPECIAL FUNDS ACCOUNT (Continued)

	Receipts	Disbursements	Balance Dec. 31, 1929
Brought Forward.....	\$244,487.86	\$157,533.81	\$86,954.05
Maya Hall Model Fund:			
Clarence L. Hay.....	1,519.46		
	\$1,519.46	\$1,519.46	
Middle American Research Fund:			
Balance.....	997.50		
Clarence L. Hay.....	1,103.45		
	\$2,100.95	\$1,904.95	\$196.00
Physical Anthropology Fund:			
Balance.....	523.19		
Interest.....	525.00		
	\$1,048.19	\$225.59	\$822.60
Physical Anthropology of Polynesia Fund:			
Bernice P. Bishop Museum...	1,000.00		
	\$1,000.00	\$1,000.00	
Special Physical Anthropology Fund:			
Mrs. William Bamberger.....	500.00		
	\$500.00		\$500.00
Mrs. William Boyce Thompson Archæological Expedition to the Lower Gila Fund:			
Mrs. William Boyce Thompson	400.00		
	\$400.00	\$400.00	
ICHTHYOLOGY			
Cleveland H. Dodge Ichthyology Fund:			
Balance.....	73.17		
	\$73.17		\$73.17
Fish Bibliography Fund:			
Balance.....	467.94		
	\$467.94	\$467.94	
Fish Exhibit Fund:			
Balance.....	364.31		
	\$364.31	\$364.31	
HERPETOLOGY AND EXPERIMENTAL BIOLOGY			
Angelo Heilprin Exploring Fund—Herpetology:			
Transferred from Reserve....	1,500.00		
	\$1,500.00	\$1,065.57	\$434.43
Special Biological Research Fund No. 1:			
Balance.....	921.68		
Transferred from Childs Frick Reserve.....	250.00		
Childs Frick.....	375.00		
Mrs. Henry White.....	1,000.00		
	\$2,546.68	\$1,200.00	\$1,346.68
Carried Forward.....	\$256,008.56	\$165,681.63	\$90,326.93

SPECIAL FUNDS ACCOUNT (Continued)

	Receipts	Disbursements	Balance Dec. 31, 1929
Brought Forward.....	\$256,008.56	\$165,681.63	\$90,326.93
Special Biological Research Fund No. 2:			
Balance.....	3,690.55		
George T. Bowdoin.....	1,000.00		
William Douglas Burden.....	1,000.00		
Katherine O. Butler.....	36.00		
Cleveland E. Dodge.....	2,000.00		
Clarence L. Hay.....	2,000.00		
Junius S. Morgan, Jr.....	1,000.00		
Percy R. Pyne.....	1,000.00		
A. Hamilton Rice.....	1,000.00		
Felix M. Warburg.....	500.00		
	\$13,226.55	\$8,153.38	\$5,073.17
ENTOMOLOGY			
Entomological Fund:			
Balance.....	1,316.55		
Herbert F. Schwarz.....	200.00		
	\$1,516.55	\$215.48	\$1,301.07
LIBRARY			
Anson W. Hard Library Fund:			
Balance.....	250.00		
Interest.....	250.00		
	\$500.00		\$500.00
Library Fund:			
J. P. Morgan.....	1,000.00		
	\$1,000.00	\$1,000.00	
Ralph Winfred Tower Memorial Fund:			
Alfred H. Crosby.....	50.00		
George H. Sherwood.....	50.00		
Interest.....	1,180.00		
	\$1,280.00	\$1,280.00	
PRINTING AND PUBLISHING			
Anthropological Handbook Fund:			
Balance.....	1,162.80		
Sales.....	556.78		
	\$1,719.58	\$75.00	\$1,644.58
Brewster-Sanford Publication Fund:			
Balance.....	269.69		
	\$269.69		\$269.69
Dryopithecus Publication Fund:			
Balance.....	107.15		
	\$107.15		\$107.15
Carried Forward.....	\$275,628.08	\$176,405.49	\$99,222.59

SPECIAL FUNDS ACCOUNT (Continued)

	Receipts	Disbursements	Balance Dec. 31, 1929
Brought Forward.....	\$275,628.08	\$176,405.49	\$99,222.59
Natural History Publication Fund:			
Balance.....	479.44		
	\$479.44	\$479.44	
Yakut Publication Fund:			
Balance.....	2,000.00		
	\$2,000.00	\$2,000.00	
PUBLIC EDUCATION			
Astronomic Fund:			
Balance.....	697.64		
	\$697.64		\$697.64
Bear Mountain Trailside Museum Fund:			
Miss Mary Parsons.....	40.00		
	\$40.00		\$40.00
Education Fund:			
Balance.....	200.00		
	\$200.00	\$200.00	
Lantern Slide Fund:			
Balance.....	305.00		
George C. Vaillant.....	25.00		
	\$330.00	\$330.00	
Lecture Fund:			
Fees.....	146.50		
	\$146.50	\$146.50	
Nature Study Fund, No. 1:			
Balance.....	23.31		
	\$23.31	\$23.31	
Nature Study Fund No. 2:			
Balance.....	120.00		
American Criterion Society....	50.00		
	\$170.00	\$170.00	
Special Education Fund:			
Felix M. Warburg.....	1,000.00		
	\$1,000.00	\$461.00	\$539.00
Jonathan Thorne Memorial Fund:			
Balance.....	320.00		
Interest.....	1,232.00		
	\$1,552.00	\$820.46	\$731.54
Carried Forward.....	\$282,266.97	\$181,036.20	\$101,230.77

SPECIAL FUNDS ACCOUNT (Continued)**PREPARATION AND EXHIBITION**

	Receipts	Disbursements	Balance Dec. 31, 1929
Brought Forward	\$282,266.97	\$181,036.20	\$101,230.77
African Hall Group Fund:			
Balance	51,480.20		
John Sanford	25,000.00		
Transferred from Carlisle-Clark African Expedition Prepara- tion Fund	2,000.00		
Transferred from Meredith H. Pyne Memorial Fund	25,000.00		
Transferred from African Hall Preparation Fund	11,383.00		
Sale of Photographs	180.00		
	\$115,043.20	\$32,300.71	\$82,742.49
Birds of the Pampas Group Fund:			
Balance	3,000.00		
	\$3,000.00		\$3,000.00
Carlisle-Clark African Expedition Preparation Fund:			
Balance	20,081.10		
	\$20,081.10	\$4,109.93	\$15,971.17
Ocean Life Mural Fund:			
Balance	1,273.83		
	\$1,273.83	\$562.29	\$711.54
Vernay Special Asiatic Fund:			
Arthur S. Vernay	12,000.00		
	\$12,000.00	\$9,391.50	\$2,608.50
Walrus Group Fund:			
Mrs. Louise W. Carnegie	5,000.00		
	\$5,000.00	\$2,194.91	\$2,805.09
American Association for the Advancement of Science:			
Balance	1,965.00		
	\$1,965.00	\$1,965.00	
Total net receipts for the develop- ment of specific departments . . .	\$440,630.10		
Total net disbursements for the development of specific depart- ments		\$231,560.54	
Balances, December 31, 1929 . . .			\$209,069.56
Carried Forward	<u>\$440,630.10</u>	<u>\$231,560.54</u>	<u>\$209,069.56</u>

SPECIAL FUNDS ACCOUNT (Continued)

	Receipts	Disbursements	Balance Dec. 31, 1929
Brought Forward.....	\$440,630.10	\$231,560.54	\$209,069.56
African Hall Preparation Fund:			
Daniel E. Pomeroy.....	11,383.00		
	\$11,383.00	\$11,383.00	
Meredith H. Pyne Memorial Fund:			
Percy R. Pyne.....	25,000.00		
	\$25,000.00	\$25,000.00	
J. P. Morgan Reserve:			
Balance.....	1,459.00		
Interest.....	21,263.91		
	\$22,722.91	\$18,605.34	\$4,117.57
Emergency Exhibition and Education Fund Reserve No. 1:			
*Subscriptions 1928.....	100.00	†100.00	
Balance 1929.....	1,200.00		
*Subscriptions.....	3,325.00	†4,525.00	
Balance 1930.....	1,200.00		1,200.00
	\$5,825.00	†\$4,625.00	\$1,200.00
Group Preparation Fund Reserve:			
General Preparation 1929 Balance.....	625.00		
*General Preparation 1929 Subscriptions.....	2,126.15	2,751.15	
*Aconcagua Group, Subscriptions.....	2,500.00	2,500.00	
*Deep Sea Group, Subscriptions.....	25.00	25.00	
Kidong Valley Group, Balance.....	10.00	10.00	
*Sea Lion Group, Subscription.....	5,000.00	5,000.00	
	10,286.15	10,286.15	
Childs Frick Reserve:			
Balance.....	1,600.00		
	\$1,600.00	\$1,600.00	
Angelo Heilprin Exploring Fund Reserve:			
Balance.....	1,500.00		
Paul J. Sachs.....	1,000.00		
	\$2,550.00	\$2,550.00	
Totals.....	\$519,997.16	\$305,610.03	\$214,387.13

*See listing on pages 137, 138 of this Report.

†Transferred to General Account.

THE AMERICAN MUSEUM OF NATURAL HISTORY
CORPORATE STOCK ACCOUNT

1929

Receipts:

Department of Parks, City of New York:

N. D. P. 3-1.....	\$3,443.75
N. D. P. 3-4.....	12,282.00
N. D. P. 3-8.....	<u>32,451.50</u>

\$48,177.25

Interest on Credit Balances.....

12.78

\$48,190.03

Disbursements:

Payroll of Mechanics, etc.....

\$48,177.25

Interest on Credit Balances (to General Account).....

12.78

\$48,190.03

TRUSTEES' BUILDING FUND ACCOUNT

1929

Receipts:

H. P. Whitney Gift of South Oceanic Wing:

H. P. Whitney.....

\$750,481.04

Interest on Credit Balances.....

113.67

\$750,594.71

Disbursements:

H. P. Whitney Gift of South Oceanic Wing:

Payment to the Comptroller of the City of New York.....

\$750,000.00

Cash on hand December 31, 1929.....

594.71

\$750,594.71

INCIDENTAL ACCOUNT

1929

Receipts:

Cash on hand January 1, 1929.....		\$568.64
Received from Individuals and Societies.....		32,007.44
Group Life Insurance:		
Employees' Premium Payments.....	\$7,347.82	
Loans.....	<u>3,616.54</u>	10,964.36
Interest on Credit Balances.....		<u>309.00</u>
		<u><u>\$43,849.44</u></u>

Disbursements:

Disbursements for Individuals and Societies.....		\$22,482.68
Group Life Insurance:		
Premiums:.....	\$7,830.61	
Loan Instalments.....	<u>3,133.75</u>	10,964.36
Interest on Credit Balances (to General Account).....		<u>309.00</u>
Cash on hand December 31, 1929.....		<u>10,093.40</u>
		<u><u>\$43,849.44</u></u>

All the foregoing accounts have been

Examined and	{	GEORGE T. BOWDOIN	}	<i>Auditing Committee</i>
Approved		FREDERICK TRUBEE DAVISON		
		OLIVER G. JENNINGS		

E. and O. E.

NEW YORK, *December 31, 1929.*

JAMES H. PERKINS, *Treasurer.*

PENSION FUND ACCOUNT

Receipts, 1929

Cash on hand, January 1, 1929.....		\$12,968.45
Contributions of Subscribing Employees:		
Deductions of 3% from Payrolls of		
City Maintenance Account...	\$5,486.48	
General Account.....	14,457.11	
Morris K. Jesup Fund		
Account.....	6,607.58	
Special Funds Account.....	861.67	
Corporate Stock Account....	918.26	
Museum Restaurant Account	71.92	
Incidental Account.....	3.96	
	<hr/>	
	\$28,406.98	
Personal Payments of Subscribing		
Employees.....	753.64	
	<hr/>	
		\$29,160.62
Contributions of Board of Trustees:		
To equal Contributions of Subscribing		
Employees.....		29,160.62
Return of Contributions (Previously Refunded)...		497.10
Interest on Contributions (Refund).....		36.57
Interest on Repayment of Contributions and		
Interest.....		2.49
Income from Investment Fund.....	\$22,633.23	
Income from Endowment Fund.....	50.34	
	<hr/>	
		22,683.57
Interest on Credit Balances.....		268.18
		<hr/>
		81,809.15
Sale of Securities:		
Investment Fund.....		6,000.00
Bursar's Account.....		1,000.00
		<hr/>
		<u>\$101,777.60</u>

Examined and { A. PERRY OSBORN }
 Approved { F. TRUBEE DAVISON } *Auditing Committee*

PENSION FUND ACCOUNT

Disbursements, 1929

Return of Contributions.....	\$5,742.28		
Interest on Contributions Returned...	355.31		
			\$6,097.59
Service Pensions "A".....	\$8,986.33		
Service Pensions "B".....	1,692.00		
Service Pensions "C".....	1,225.00		
Pensions in Event of Illness, Dismissals, etc.....	538.34		
			12,441.67
Death Gratuities Paid Under Section 13	\$10,958.26		
Death Gratuities Paid Under Section 18	2,573.72		
			13,531.98
Expenses.....		70.00	
			\$32,141.24
Purchase of Securities:			
Investment Fund.....			54,189.00
Loan Account.....			1,000.00
Cash on hand, December 31, 1929:			
Deposited with the United States Trust Com- pany of New York.....	\$13,447.36		
Deposited with The Bank of United States (Bursar's Account).....	1,000.00		
			14,447.36
			<u>\$101,777.60</u>

E. and O. E.

New York, December 31, 1929.

PENSION FUND — SPECIAL FUNDS ACCOUNT**Receipts, 1929****Welfare Fund:**

Balance, January 1, 1929.....	\$1,209.96
Contributions.....	250.00
Interest on Credit Balances.....	36.55
	<hr/>
	\$1,496.51
	<hr/>

Examined and { A. PERRY OSBORN }
 Approved { F. TRUBEE DAVISON } *Auditing Committee*

PENSION FUND — SPECIAL FUNDS ACCOUNT**Disbursements, 1929****Welfare Fund:**

Cash on hand, December 31, 1929:

Deposited with United States Trust Company of New York.....	\$1,496.51
	<hr/>
	\$1,496.51
	<hr/>

E. and O. E.

New York, December 31, 1929

JAMES H. PERKINS,
Treasurer.

V. MEMBERSHIP

S. BRINCKERHOFF THORNE, Secretary

WAYNE M. FAUNCE, Assistant Secretary

During 1929 there was a net addition of 929 to our membership roll. This increase, amounting to $8\frac{1}{2}$ per cent., is the largest in any one year of the Museum's history. It is very gratifying evidence of the increasing and ever-broadening interest in our activities. There were enrolled on December 31 a total of 11,822 Members of the Museum, residing in every state of the Union and sixty-six foreign countries. Each member is an important factor in the dissemination of new information made available through the efforts of our Scientific Staff. Each is a contributor to the support of our far-reaching program of research, exploration and education. We take this opportunity to thank our Members most heartily for their practical interest and generous assistance.

On April 24 the Museum held Members' Visiting Day. About six hundred Members and their friends took advantage of this opportunity to meet our Scientific Staff and to observe the work of our research and preparation laboratories. The Director addressed the visiting members in our auditorium, and exploration films were shown. This innovation was such a success that it is hoped to make Members' Day an annual event.

By classes our membership is made up as follows:

Founders.....	0	Fellows.....	92
Endowment Members.....	6	Honorary Life Members.....	61
Benefactors.....	14	Life Members.....	1180
Associate Founders.....	17	Corresponding Members	25
Associate Benefactors.....	33	Sustaining Members.....	249
Patrons.....	188	Annual Members.....	5092
Honorary Fellows.....	18	Associate Members	
		(Non-resident).....	4847
Total Membership, December 31, 1929.....			11,822

NEW MEMBERS

During 1929 the following new members were elected:

ENDOWMENT MEMBER

WOOD FOSDICK*

*Deceased

BENEFACTOR

GEO. F. BAKER, JR.

ASSOCIATE FOUNDER

JOHN SANFORD

ASSOCIATE BENEFACTORS

JOHN F. ARCHBOLD	CLARENCE L. HAY
MRS. WILLIAM H. BLISS	B. T. BABBITT HYDE
G. LISTER CARLISLE, JR.	O. G. JENNINGS
MRS. G. LISTER CARLISLE, JR.	J. S. MORGAN, JR.
CHARLES E. RHINELANDER*	

PATRONS

CHARLES W. BALLARD	JOHN L. SEVERANCE
EDWARD S. CLARK	KEITH SPALDING
MRS. ALFRED W. ERICKSON	MRS. KEITH SPALDING
MRS. SIDNEY J. LEGENDRE	MRS. OSCAR S. STRAUS
GLENN FORD MCKINNEY	FREDERICK STURGES, JR.
GILBERT OTTLEY	MISS RUTH V. TWOMBLY
MRS. GEORGE W. PERKINS	GEORGE F. TYLER
GEORGE N. RICHARD	SIDNEY F. TYLER, JR.
MRS. HENRY WHITE	

FELLOWS

H. F. BENJAMIN	W. H. PERKINS
F. KINGSBURY CURTIS	KATHERINE POMEROY
VAN CAMPEN HEILNER	RALPH PULITZER
HENRY HORNBLOWER	F. W. ROEBLING, JR.

HONORARY LIFE MEMBERS

H. H. GENERAL MAHARAJAH OF	HERMAN MUELLER
BIKANER, G.C.S.I.K.C.S.I.	HIS HIGHNESS THE NAWAB SAHIB OF
H. E. THE DESJAZMATCH IMERU	JUNAGADH STATE
H. M. NEGUS TAFARI MAKONEN	MAHARAJ KUMAR SADUL SINGH
MAJOR F. TINLEY	

LIFE MEMBERS

MRS. PAUL ABBOT	ALFRED H. COSDEN
MRS. ANNIE C. ATWOOD	ALLYN COX
HERMAN F. BALL	WATERS S. DAVIS
MRS. HAROLD BROWN	MRS. ROBERT LEFTWICH DODGE
CLAYTON I. CHANDLER	ALBERT DOUGLAS

*Deceased

ALBERT C. ELSER
WM. SHIRLEY FULTON
ROBERT J. GOODENOUGH
H. L. GOODHART
GEORGE E. HALLIDAY
ANTON G. HARDY
H. C. JACKSON
MRS. J. J. KERRIGAN
GORDON MACDONALD
JOHN MAGEE
ALONZO K. MARSH
B. F. MCGUCKIN
MISS MARJORIE FRENCH MCKAIG
MRS. GEORGE MOFFETT
FREDERICK OSBORN
JAMES S. OTTENBERG
F. R. PARRINGTON
MRS. CARL S. PETRASCH
BERNON S. PRENTICE
REDFIELD PROCTOR
JOSEPH PULITZER
MISS FLORENCE E. QUINLAN
MRS. ANNA L. REILLY
W. EMLÉN ROOSEVELT, 2D

MRS. WILLIAM H. SAGE
C. ALISON SCULLY
ERNEST THOMPSON SETON
JAMES A. SMITH
ROSCOE W. SMITH
LORILLARD SPENCER
EDGAR SPEYER
MRS. CHARLES A. SPOFFORD
CHAUNCEY D. STILLMAN
ROBERT G. STONE
A. VARICK STOUT, JR.
MRS. RUSH TAGGART
JOHN F. TALMAGE
MRS. MYRON TAYLOR
GERTRUDE S. THOMAS
MRS. SAMUEL THORNE
MRS. GRAHAM FAIR VANDERBILT
MRS. ORLANDO F. WEBER
MISS AMELIA ELIZABETH WHITE
GEORGE D. WIDENER
MRS. GEORGE D. WIDENER
MRS. HARRISON WILLIAMS
JOHN S. WILLIAMS
RUDOLPH H. WURLITZER

SUSTAINING MEMBERS

EDWARD P. ALKER
RICHARD J. BERNHARD
HOWARD BOULTON
DONALDSON BROWN
WILLIAM A. M. BURDEN
MRS. JOHN P. CHASE
AVERELL CLARK
JOHN WALTER CROSS
MISS ESTHER B. CUTLER
RUSSELL DOUBLEDAY
CHARLES E. DUNLOP
SAMUEL S. DURYEE
CHARLES C. GOODRICH
MRS. ROBERT GRANT, JR.
GEORGE W. HILL
OLIVER ISELIN
WAYNE JOHNSON
PERCY H. JOHNSTON
OSCAR R. LICHTENSTEIN
MRS. G. MACCULLOCH MILLER
ROBERT CRAIG MONTGOMERY

DONALD B. PERCY
MRS. DONALD B. PERCY
ARTHUR PFORZHEIMER
ROBERT PLAUT
MRS. HORACE F. POOR
MRS. GEORGE D. PRATT
JOHN T. PRATT, JR.
PERCY R. PYNE, JR.
MISS EDITH G. RICHARDS
JOHN M. SCHIFF
MRS. H. W. SIBLEY
L. CORRIN STRONG
C. NEWBOLD TAYLOR
MISS VIRGINIA THAW
DONALD F. TRIPP
RANDOLPH S. WARNER
MRS. THEODORE S. WATSON
MRS. M. W. WELD
EDWARD WELLES, JR.
JOHN E. WHITAKER
MARIE WHITNEY

MISS F. E. WICKHAM

DECEASED MEMBERS**BENEFACTORS**

OGDEN MILLS

PERCY R. PYNE

ASSOCIATE FOUNDERS

OGDEN MILLS

PERCY R. PYNE

ASSOCIATE BENEFACTORS

OGDEN MILLS

PERCY R. PYNE

PATRONS

HENRY BOOTH

LORD LEITH OF FYVIE

JOHN J. CROOKE

OGDEN MILLS

PERCY R. PYNE

FELLOWS

LOUIS T. HAGGIN

MRS. H. O. HAVEMEYER

COL. ANTHONY R. KUSER

HONORARY LIFE MEMBERS

COL. J. C. FAUNTHORPE

GENERAL HIS HIGHNESS MAHARAJA,

DR. FREDERIC A. LUCAS

SIR CHANDRA SHUMSHERE JUNG

BENJAMIN F. PANKEY

LIFE MEMBERS

FRANCIS R. APPLETON

MRS. BONNIE WALLACE LECLÉAR

JAMES BARNES

JAMES A. MACDONALD

C. L. CARPENTER

LOUIS MARSHALL

BANYER CLARKSON

A. G. MILLS

ALEXANDER SMITH COCHRAN

GEORGE NOTMAN

MISS ADELIA A. DWIGHT

FREDERICK T. PROCTOR

JESSE L. EDDY

HENRY ROWLEY

GEORGE EHRET, JR.

C. H. SANFORD

CORNELL EMERY

ROBERT J. F. SCHWARZENBACH

GEORGE M. GRAY

E. E. SMATHERS

J. HORACE HARDING

JAMES STREAT

ARCHIBALD HARRISON

MRS. THAW

McDOUGALL HAWKES

W. B. THOMAS

V. H. JACKSON, M.D., D.D.S.

CARL UPMANN

MRS. WILLIAM D. KEARFOTT

JOHN I. WATERBURY

WOODBURY G. LANGDON

SILAS D. WEBB

JOHN BURLING LAWRENCE

CASPAR WHITNEY

JAMES B. WILBUR

SUSTAINING MEMBERS

MRS. W. B. BOULTON

MRS. F. W. SENFF

BENJAMIN A. HEGEMAN, JR.

DR. EDWARD H. SQUIBB

MRS. WM. R. PETERS

WILLIAM R. STEWART

C. J. ULMANN

Respectfully submitted,

S. BRINCKERHOFF THORNE,
Secretary.

LIST OF MEMBERS

December 31, 1929

FOUNDERS

This class of members is composed of the Incorporators of the Museum

William T. Blodgett*	William A. Haines*	Howard Potter*
Joseph H. Choate*	Adrian Iselin*	Theodore Roosevelt*
Robert Colgate*	Morris K. Jesup*	Benjamin B. Sherman*
Charles A. Dana*	J. Pierpont Morgan*	D. Jackson Steward*
A. G. Phelps Dodge*	Henry Parish*	Robert L. Stuart*
Benjamin H. Field*		John David Wolfe*

ENDOWMENT MEMBERS

By contribution of \$100,000 or upward to the Endowment of the Museum

George F. Baker	Mrs. Stephen V. Harkness*	Darius Ogden Mills*
James Douglas*	Morris K. Jesup*	J. P. Morgan
Amos F. Eno*	Mrs. Morris K. Jesup*	J. Pierpont Morgan*
Wood Fosdick*	A. D. Juilliard*	John D. Rockefeller, Jr.
Edward S. Harkness		Mrs. Russell Sage*

BENEFACTORS

By contribution of \$50,000 or upward to the Museum

George F. Baker	Arthur Curtiss James	Percy R. Pyne*
Geo. F. Baker, Jr.	Morris K. Jesup*	Percy R. Pyne*
James M. Constable*	Mrs. Morris K. Jesup*	John D. Rockefeller, Jr.
Cleveland H. Dodge*	A. D. Juilliard*	Mrs. Russell Sage*
James Douglas*	Mrs. A. D. Juilliard*	William Sloane*
Geo. Eastman	Darius Ogden Mills*	Mrs. Robert L. Stuart*
Amos F. Eno*	Ogden Mills*	Cornelius Vanderbilt*
Childs Frick	J. P. Morgan	Wm. H. Vanderbilt*
Edward S. Harkness	J. Pierpont Morgan*	Felix M. Warburg
Archer M. Huntington	Henry Fairfield Osborn	Harry Payne Whitney
	Geo. D. Pratt	

ASSOCIATE FOUNDERS

By contribution of \$25,000 to the Museum

Geo. F. Baker, Jr.	William E. Dodge, 2d*	W. L. Hildburgh
George S. Bowdoin*	Childs Frick	Archer M. Huntington
Frederick F. Brewster	Mrs. Henry C. Frick	Adrian Iselin
James M. Constable*	Edward S. Harkness	Arthur Curtiss James
Cleveland H. Dodge*	Henry O. Havemeyer*	A. D. Juilliard*

*Deceased

Charles Lanier*
Ogden Mills*
William J. Morden
J. P. Morgan
Oswald Ottendorfer*
D. E. Pomeroy

Percy R. Pyne*
William Rockefeller*
John Sanford
William Sloane*
Miss Phebe Anna Thorne*
Charles E. Tilford*
Mrs. John B. Trevor*

Cornelius Vanderbilt, 1st*
Arthur S. Vernay
Felix M. Warburg
D. B. Wentz*
Harry Payne Whitney
William C. Whitney*

ASSOCIATE BENEFACTORS

By contribution of \$10,000 to the Museum

John F. Archbold
Hugh Auchincloss*
George F. Baker
Geo. F. Baker, Jr.
Mrs. William H. Bliss
Emil C. Bondy*
George S. Bowdoin*
Frederick F. Brewster
Douglas Burden
G. Lister Carlisle, Jr.
Mrs. G. Lister Carlisle, Jr.
Joseph H. Choate*
Robert Colgate*
Frances Julia Cook*
Thomas DeWitt Cuyler*
Benjamin P. Davis*
Henry P. Davison*
Dr. Bashford Dean*
Cleveland H. Dodge*
William E. Dodge, 2d*
Mrs. William E. Dodge*
Walter Douglas

Miss Margaret H. Elliot
Mrs. Josiah M. Fiske*
James B. Ford*
Childs Frick
Henry C. Frick*
Mrs. Henry C. Frick
Anson W. Hard*
Clarence L. Hay
Archer M. Huntington
B. T. Babbitt Hyde
Henry Iden*
Adrian Iselin*
Adrian Iselin
Arthur Curtiss James
D. Willis James*
Dr. Walter B. James*
O. G. Jennings
A. D. Juilliard*
Frank W. Kitching*
Mrs. Frank W. Kitching
Charles Lanier*

Joseph F. Loubat*
Ogden Mills*
J. P. Morgan
J. S. Morgan, Jr.
Henry Fairfield Osborn
Percy R. Pyne*
Charles E. Rhineland*
John D. Rockefeller, Jr.
William Rockefeller*
John A. Roebling
Henry W. Sage
Mrs. Russell Sage*
Wm. R. Sands*
Jacob H. Schiff*
Julius F. Stone
Robert L. Stuart*
Irving K. Taylor
John B. Trevor
Mrs. John B. Trevor*
Felix M. Warburg
Harry Payne Whitney
Harrison Williams

PATRONS

By contribution of \$1,000 to the Museum

Edward D. Adams
Mrs. Charles B. Alexander
George F. Baker
Geo. F. Baker, Jr.
Mrs. Guy Ellis Baker
Charles W. Ballard
Mrs. Harley Granville Barker
J. Sanford Barnes
Charles L. Bernheimer
Mrs. Charles L. Bernheimer

Miss Susan Dwight Bliss
Mrs. William H. Bliss
George T. Bowdoin
Frederick F. Brewster
Hermon C. Bumpus
Mrs. Carnegie
Hazel Doris Cartier
B. Preston Clark
Edward S. Clark
James L. Clark

Sidney M. Colgate
Mrs. D. C. Cook
Maunsell S. Crosby
Robert Fulton Cutting
Lee Garnett Day
Mrs. Bashford Dean
W. M. Dongan dePeyster
Julian A. Dimock
Mrs. Isaac H. Dixon
Cleveland E. Dodge

*Deceased

- Mrs. Geraldine R. Dodge
 Walter Douglas
 Mrs. Leonard K. Elmhirst
 Lieut. G. T. Emmons, U.S.N.
 Mrs. Alfred W. Erickson
 Dr. Evan M. Evans
 Miss Shirley Farr
 Prof. Auguste Forel
 Arthur A. Fowler
 John F. Fowler
 George Barton French
 Childs Frick
 Mrs. Childs Frick
 Miss Helen Clay Frick
 Howard Fuguet
 Thomas S. Gates
 Robert W. Goelet
 S. A. Goldschmidt
 Dr. Zane Grey
 Mrs. Clement Acton Griscom
 Ludlow Griscom
 Wm. Halls, Jr.
 Dr. James M. B. Hard
 Mrs. W. L. Harkness
 William Hale Harkness
 Mrs. E. H. Harriman
 William Averell Harriman
 Clarence L. Hay
 August Heckscher
 Mrs. Wm. Tod Helmuth
 W. L. Hildburgh
 James N. Hill
 Samuel V. Hoffman
 Guerdon S. Holden
 Walter W. Holmes
 Louis J. Horowitz
 Mrs. Louis J. Horowitz
 Archer M. Huntington
 B. T. Babbitt Hyde
 Dr. Frederick E. Hyde
 Frederick E. Hyde, Jr.
 James H. Hyde
 Adrian Iselin
 Arthur Curtiss James
 O. G. Jennings
 Mrs. Dwight A. Jones
 Mrs. Isabelle Field Judson
 Mrs. David J. Kelley
 L. D. Kellogg
 W. F. Kenny
 George F. Kunz
 Harvey S. Ladew
 T. W. Lamont
 Mrs. Sidney J. Legendre
 Adolph Lewisohn
 Charles J. Liebman
 Mrs. Charles J. Liebman
 Major C. A. M. Liebrechts
 Clarence H. Mackay
 Mrs. Elizabeth C. Marmon
 Dr. Frank S. Mathews
 Edward Matthews
 George B. McClellan
 J. Horace McFarland
 Glenn Ford McKinney
 Mrs. James McLean
 Herman A. Metz
 Dunlevy Milbank
 Jeremiah Milbank
 Roswell Miller
 Gerrish H. Milliken
 Mason Mitchell
 Edward C. Moore, Jr.
 J. P. Morgan
 J. S. Morgan, Jr.
 Frank J. Myers
 Mrs. Walter Wehle Naumburg
 Arthur E. Newbold, Jr.
 Thos. Newbold
 A. Perry Osborn
 Henry Fairfield Osborn
 Mrs. Henry Fairfield Osborn
 Wm. Church Osborn
 Gilbert Ottley
 James H. Ottley
 Mrs. James H. Ottley
 Dr. Frank Overton
 Kenyon V. Painter
 George Foster Peabody
 Mrs. George W. Perkins
 John H. Phipps
 John S. Phipps
 Gustavus D. Pope
 John Alexander Pope
 James F. Porter
 Philip H. Pratt
 Mrs. Philip H. Pratt
 David Binney Putnam
 Mrs. Dorothy Binney Putnam
 G. P. Putnam
 Alexander Hamilton Rice
 George N. Richard
 Clark Lombard Ring
 John D. Rockefeller
 John D. Rockefeller, Jr.
 William A. Rockefeller
 John A. Roebling
 Paul J. Sachs
 Mrs. Paul J. Sachs
 Henry M. Sage
 Henry W. Sage
 Wm. Schaus
 Herbert F. Schwarz
 Henry Seligman
 John L. Severance
 Charles S. Shepard
 Mrs. Forsythe Sherfese
 Charles Smets
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 Borden, Howard S.
 Borden, L. M.
 Borg, Sidney C.
 Borgia, D.
 Borgman, Chas. W.
 Borie, A. E.
 Bose, Edward
 Boston, Charles A.
 Bosworth, Mrs. Newton
 Bottome, Mrs. B. S.
 Bouvier, M. C.
 Bowden, W. C., Jr.
 Bower, Grace C.
 Bower, J. A.
 Bowers, Henry S.
 Bowers, Spotswood D.
 Bowers, Thomas W.
 Bowling, Otho S.
 Bowmall, L. W.
 Bowman, John Hall
 Bowman, John McE.
 Bowman, W. P.
 Boyd, Jackson H.
 Boyd, Mrs. James
 Boyers, J. C.
 Boyle, Mary Nammack
 Brace, Mrs. Robert N.
 Braden, Welcome W.
 Bradley, Frederick William
 Bradley, Mrs. Judson S.
 Bradley, Mary T.
 Bragg, Caleb S.
 Brahdy, Leopold
 Brainin, Mrs. C. S.
 Braman, Chester A., Jr.
 Branch, Miss Laura
 Brand, Albert R.
 Branower, William
 Bray, Mrs. H. F.
 Brecher, Leo
 Breckinridge, Mrs. John C.
 Brehaut, Ernest
 Brennan, Dr. Robert Emery
 Brereton, Mrs. Denny
 Brettauer, Dr. Joseph
 Brevoort, Wm. H., Jr.
 Brewer, Charles D.
 Brewer, George E.
 Brewer, Mrs. George E., Jr.
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 Briggs, Russell E.
 Brigham, Storrs
 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.
 Broderick, Arthur F.
 Brodman, Nettie
 Brody, Miss Gertrude
 Brokaw, Clifford V.
 Bromley, Chester
 Brookfield, Frank
 Brookfield, Henry Morgan
 Brooks, C. Arthur
 Brooks, Frederick
 Brooks, Dr. Harlow
 Brooks, Mrs. Harlow
 Brooks, J. Arthur
 Brooks, W. B.
 Brooks, Wm. G.
 Brosseau, A. J.
 Brower, Wm. L.
 Brown, Mrs. Addison
 Brown, Alfred Lockwood
 Brown, Mrs. Archer
 Brown, Chas. F.
 Brown, Charles Hilton
 Brown, Charles S., Jr.
 Brown, Edward M.
 Brown, Elmer Ellsworth
 Brown, Franklin Q.
 Brown, Mrs. Franklin Q.
 Brown, Mrs. Helen Parrish
 Brown, Mrs. Hobart B.
 Brown, J. Alexander
 Brown, J. Wright
 Brown, James M.
 Brown, Lathrop
 Brown, Dr. Lawrason
 Brown, R. R.
 Brown, Mrs. Raymond G.
 Brown, Thatcher M.
 Brown, Mrs. Thatcher M.
 Brown, Vernon C.
 Brown, Vernon H.
 Brown, Warren D.
 Brown, Wm. Adams
 Browne, Dr. Charles
 Browne, Charles Angus
 Browne, Gilbert G.
 Brownell, F. H.
 Brownell, George F.
 Brownell, Kenneth C.
 Browning, Mrs. J. Hull
 Browning, Mrs. Wells
 Browning, Wm. H.
 Bruce, Mrs. Julia Andrews

- Bruce, Miss Sarah E.
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 Bruns, Edwin G., Jr.
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 Bryant, Chas. E.
 Bryant, Mrs. Martha L.
 Bryce, Miss Mary Tileston
 Buch, Miss Emily
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 Buck, Helen I.
 Buckingham, John
 Buckle, Lewis M.
 Buckley, B. Lord
 Buckner, M. N.
 Buckner, Thos. A.
 Buckner, Walker
 Buckstaff, Ralph N.
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 Buechner, C. Fred
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 Bulkley, J. O.
 Bulkley, Jonathan
 Bulkley, Joseph E.
 Bulkley, Robert J.
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 Bunker, William
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 Burden, John
 Burden, Mrs. W. A. M.
 Burdett, Mrs. Frederick T.
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 Burgess, Herbert L.
 Burgess, Thornton W.
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 Burghardt, F. A.
 Burgi, Oscar
 Burhorn, Edwin
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 Burkhard, Thomas
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 Burleigh, Mrs. George W.
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 Burlingham, Mrs. Charles C.
 Burlingham, Hiram
 Burnham, Gordon W.
 Burnham, John B.
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 Burton, Mrs. J. H.
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 Bushnell, Douglas S.
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 Butler, Joseph G., 3d
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 Butler, Maxwell Evarts
 Buttles, Paul J.
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 Byrne, James
 Byrne, Mrs. James
 Cable, Geo. W.
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 Cabot, William B.
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 Cahn, Mrs. S.
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 Mrs. Mildred Bedard
 Caldwell, Prof. Otis W.
 Caldwell, R. J.
 Caldwell, Dr. W. E.
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 Calkins, William H.
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 Cammann, H. H.
 Cammann, Henry L.
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 Cannon, H. W.
 Cannon, Mrs. H. W.
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 Carlton, Newcomb
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 Carpenter, Charles C.
 Carpenter, Mrs. J. Norman
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 Chapin, Miss Cornelia Van A.
 Chapin, Elizabeth G.
 Chapin, L. H. Paul
 Chapin, Miss Maria Bowen
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 Chapman, Mrs. Clarence E.
 Chapman, John Jay
 Chapman, Mrs. John Jay
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 Clark, Harold Benjamin
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 Cohen, Wm. N.
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- Cohn, Sigmund
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 Cook, Ralph
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 Corbin, Austin
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 Coriell, William W.
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 Cory, Robert H.
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 Cotting, C. E.
 Coulter, E. D.
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 Cowan, Harold
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 Cowdin, Mrs. Winthrop
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 Cowl, Mrs. Clarkson
 Cowles, Dr. Edward S.
 Cowles, Mrs. Percival W.
 Cowperthwait, J. H.
 Coxe, Mrs. Alfred C., Jr.
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 Craig, Dr. Gerald S.
 Craig, Gladys M.
 Crain, Miss Christobelle
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 Crandall, John Low
 Crane, Charles R.
 Crane, Mrs. Clinton H.
 Crane, Mrs. W. Murray
 Crane, Mrs. Winthrop M., Jr.
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 Crawford, Douglas J.
 Crawford, H. L.
 Crawford, Mary M., M.D.
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 Crile, George W., M.D.
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 Crimmins, Mrs. Thomas
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 Crocker, Mrs. Frank
 Crocker, W. T.
 Crocker, William H.
 Crockett, Mrs. Stuart
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 Cromwell, Jarvis
 Cromwell, Lincoln
 Crone, S. A.
 Cross, Miss Emily
 Cross, George D.
 Cross, Miss M. R.
 Cross, W. R.
 Crossley, G. R.
 Crow, Chas. S.
 Crozier, Maj.-Gen. William
 Cruft, Dr. Armistead C.
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 Cullman, Jos. F.
 Cullman, Mrs. Joseph F., Jr.
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 Cunningham, Francis de L.
 Cunningham, Mrs. Frederic,
 Jr.
 Cunningham, W. de L.
 Curie, Chas.
 Curiel, H.
 Curran, Guernsey
 Currie, Mark Douglas
 Curtis, Mrs. James Brecken-
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 Curtis, Mrs. James F.
 Curtis, Ronald Eliot
 Curtiss, Franklin
 Curtiss, Roy
 Cushing, Grafton D.
 Cushing, Mrs. H. A.

Cushing, Howard G., Jr.
 Cushman, Burritt A.
 Cushman, James Stewart
 Cushman, Merton L.
 Cutcheon, F. W. M.
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 Cutler, J. Warren
 Cutting, Mrs. Fulton
 Cypra, Anton

Daily, George M.
 Dakin, Mrs. Henry D.
 Dale, Chester
 Dale, Mrs. Eben
 Dall, C. W.
 Dall, Mrs. Curtis B.
 Dallett, Frederic A.
 Dalziel, Alexandra
 Damrosch, Frank
 Dana, Denison D.
 Dana, Edward S.
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 Danforth, Mrs. Francis J.
 Daniel, Annie S., M.D.
 Daniels, Lorenzo
 Danziger, Virginia
 Darlington, Mrs. Gilbert
 Darlington, Mrs. Harry
 Darlington, Rev. Henry, D.D.
 Dashew, Jacob
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 Daum, Warren
 Davenport, Chas. B.
 Davenport, Miss Fanny
 Davenport, Frederick
 Morgan, Jr.
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 Davidson, DeWitt A.
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 Davie, Mrs. Preston
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 Davis, Mrs. Aaron
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 Davis, George S.
 Davis, Horace A.

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 Davis, Leonard M.
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 Davis, Mrs. Robert C.
 Davis, Samuel D.
 Davis, Warren J.
 Davison, Miss Alice M.
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 Davison, George W.
 Davison, Mrs. Louis V.
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 Dawson, William E.
 Day, Clarence M.
 Day, Dwight H.
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 Day, Miss Sarah J.
 Dazian, Henry
 Dean, Mrs. E. Clarence
 Dean, Miss F.
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 Dean, Miss Harriet M.
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 Dearborn, D. B., Jr.
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 de Bonneval, Mrs. A.
 De Buys, A.
 Decker, Elizabeth
 Decker, Evelyn F.
 deCoppet, Miss Juliette
 de Forest, Johnston
 de Forest, Lockwood
 de Forest, Robert W.
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 Degener, John F., Jr.
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 de Gersdorff, Mrs. Carl A.
 de Ghika, George
 De Golyer, E.
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 Deknatel, F. H.
 deKosenko, Stepan
 Delacorte, Geo. T., Jr.
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 Delafield, Lewis L., Jr.
 Delafield, Robert H.
 Delamar, Alice A.
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 Deming, L. C.
 Demorest, Mrs. William J.
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 Denby, Edwin H.
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 Denton, Dr. Myron P.
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 De Sola, Solomon, D.D.S.
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dos Passos, Cyril F.
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Eckstein, Alfred
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 Fabbri, Ernesto G.
 Fabbri, Mrs. Ernesto G.
 Fabbri, Mrs. Sheperd
 Fabyan, Mrs. Everett W.
 Fahnstock, Harris
 Fahnstock, William
 Fahs, Louis A.
 Faile, Kenneth C.
 Failla, G.
 Fairbank, Wallace
 Fairchild, Mrs. Chas. S.
 Fairchild, Mrs. S. W.
 Fairfax, Mary Cecilia
 Falahee, John J.
 Fales, Frederick S.
 Falk, Dr. K. George
 Falk, Myron S.
 Falls, Mrs. DeWitt Clinton
 Farley, Robert E.
 Farley, W. T.
 Farnam, Thomas W.
 Farnham, Frances
 Farnsworth, William
 Farr, Mrs. F. Shelton
 Farr, John, Jr.
 Farrand, Mrs. Max
 Farrel, Mrs. Franklin
 Fatman, Morris
 Faxon, Wm. Bailey
 Fay, Charles J.
 Feingold, M. W.
 Felbel, Jacob
 Feldman, Dr. George
 Feldman, Herman
 Fellows, Mrs. Earle W.
 Felsenthal, Ben.
 Fenton, Marion E.
 Ferguson, Alfred L.
 Ferguson, C. V.
 Ferguson, Miss Eleanor

Ferguson, Harry L.
 Ferguson, Mrs. Robert C.
 Ferguson, Mrs. Roy K.
 Ferguson, William C.
 Férier, Albert Jean
 Ferris, M. Douw, Jr.
 Ferriss, J. M.
 Ferry, Mansfield
 Fetzner, Frank
 Fichtel, Frederic
 Fiedler, Geo. A., M.D.
 Field, Mrs. A. B.
 Field, Henry
 Field, Wm. B. Osgood
 Field, Mrs. Wm. B. Osgood
 Fielding, Eugenie M.
 Fields, Harold
 Figgatt, Mrs. T. C.
 Filley, F. H.
 Filley, Oliver D.
 Finch, Mrs. Gertrude K.
 Fink, E. C.
 Finn, Mrs. James A.
 Finn, Mrs. James Wall
 Fischer, Hermann, M.D.
 Fischer, L. J.
 Fischer, T. Tasso
 Fish, Erland F.
 Fisher, Howell
 Fisher, Joel Ellis
 Fisher, Samuel H.
 Fisher, Walter G.
 Fitzhugh, John L.
 Flagg, Mrs. Thyra Benson
 Flanigan, Horace
 Fleischmann, Udo M.
 Fleishman, Marco
 Fleitmann, Fred. T.
 Fleitmann, H. C.
 Fleming, Dr. H. C.
 Fleming, Matthew C.
 Flender, E. W.
 Fletcher, E. Marguerite
 Fletcher, Harry G.
 Fletcher, Henry
 Fletcher, Mrs. James, Jr.
 Flexner, Bernard
 Flexner, Mrs. Simon

Florsheim, James
 Flower, O. P.
 Fobes, Mrs. J. Warner
 Fogg, Edward C.
 Fogg, Julius H. B.
 Foley, H. S.
 Foot, Sandford D.
 Ford, Mrs. Edward
 Forman, Mrs. G. Lisle
 Forsch, Mrs. F.
 Fosburgh, Mrs. James B. A.
 Fosdick, Raymond B.
 Foshay, P. Maxwell
 Foster, Frank B.
 Foster, H. V.
 Foster, Howard Crosby
 Foster, J. Hegeman
 Foster, J. Taylor
 Foster, John H.
 Foster, Macomb G.
 Foster, Pell W.
 Foster, W. Edward
 Fountain, Gerard
 Fowler, Carl H.
 Fowler, Emily A.
 Fowler, Northrup
 Fowler, Dr. Robert H.
 Fowler, Russell S., M.D.
 Fowler, Mrs. Thomas Powell
 Fowler, William Eric
 Fox, Miss Alice Bleecker
 Fox, Frederick P.
 Fox, Mrs. Horace E.
 Fox, Mrs. Irving J.
 Fox, Lyttleton
 Fox, Mortimer J.
 Fox, William
 Francis, Robert T.
 Franck, Ernst T.
 Francklyn, Mrs. Cyril
 Frank, Edgar E.
 Frank, Mrs. Harold
 Frank, Miss Helen
 Frank, Isaiah, M.D.
 Frank, Jerome W.
 Frank, Joseph S.
 Frank, Mrs. Laurence
 Frank, Mrs. Leo E.

Frank, Mrs. Robert M.
 Frank, Walter
 Franke, Julius
 Frankel, Jacob L.
 Franken,
 Sigmund W. A., D.D.S.
 Frankenberg, Henry E.
 Frankenberg, Werner V.
 Frankenstein, Edwin
 Frankfort, Maurice
 Franklin, George S.
 Franklin, Lindley Murray
 Franklin, Walter S., Jr.
 Frantz,
 Angus Macdonald, M.D.
 Franzen, August
 Fraser, Mrs. A. V.
 Fraser, Alex. V.
 Fraser, George C., Jr.
 Fraser, Miss J. K.
 Fraser, Miss S. Grace
 Frederick, Karl T.
 Fredrick, Mrs. Leopold
 Freed, Joseph D. R.
 Freedley, Vinton
 Freeman, Mrs. Blanche W.
 Freeman, Edward 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, Leigh, Jr.
 French, W. H.
 Frew, Walter E.
 Frew, Mrs. William N.
 Fréy, Arthur G.
 Fried, Dr. Gustav A.
 Friedenbergh, Chas.
 Friedlander, Louis
 Friedlander, Victor
 Friedman, Elisha M.
 Friedman, H. G.
 Friedman, Stanleigh P.
 Friedrichs, Rose

Friend, Mrs. S.
 Fries, Miss Emilie
 Fries, Harold H.
 Frink, Mrs. Angelika W.
 Frissell, A. S.
 Frissell, Miss Leila S.
 Fritschy, Minnie B. Phelps
 Frobisher, Clinton L.
 Froelicher, Otto
 Frothingham, Major John W.
 Frothingham, Mrs. Randolph
 Frothingham, Robert
 Frothingham, William I.
 Frueh, Mrs. Alfred J.
 Fuerst, W. F.
 Fuld, Henry
 Fulle, Chas. A.
 Fulle, John H.
 Fullé, Richard Milton
 Fuller, Mrs. Charles F.
 Fuller, Mrs. Eugene
 Fuller, George A.
 Fulton, Elizabeth
 Fulton, Robert Edison
 Furman, Robert T.

Gabriel, Arthur R.
 Gaillard, Mrs. Wm. D.
 Galban, Eugenio
 Gale, Mrs. Thomas K.
 Gallatin, Albert
 Gallatin, Mrs. Albert
 Gallatin, Miss Beatrice
 Gallatin, Goelet
 Gallowhur, W. G.
 Gamble, Mrs. C. B.
 Gammell, R. H. Ives
 Gans, Howard S.
 Gantz, Aaron
 Gardiner, Miss Sarah D.
 Gardner, W. A.
 Garelick, Wm.
 Garlin, Louis F.
 Garnjost, F. W.
 Garrard, Miss Margaret H.
 Garrett, Miss Laura B.
 Garrett, Mrs. Thos., Jr.
 Garrison, Mrs. E. E.

Gartland, George E.
 Garvan, Mrs. F. P.
 Garver, John A.
 Gary, Mrs. Elbert H.
 Gary, I. C.
 Gaston, Wm. G.
 Gatti-Casazza, Giulio
 Gawtry, Lewis B.
 Gay, William O.
 Gaylord, Irving C.
 Gazan, Simone N.
 Geddes, John L.
 Geer, Francis H.
 Geer, Mrs. Langdon
 Geer, Walter
 Geier, Mrs. Frederick A.
 Geiger, J., M.D.
 Geissler, Mrs. A. R.
 Gemmell, John, Jr.
 Gennert,
 Clementine Plimpton
 Gerdau, Carl
 Gerdau, Mrs. Otto
 Gere, Helen B.
 Gerrish, Frank Scott
 Gerry, Mrs. R. L.
 Gerry, Robert L.
 Gerster, Mrs. A. G.
 Gerster, John C. A.
 Gibb, Mrs. H. E.
 Gibb, Dr. W. Travis
 Gibbons, Mrs. John H.
 Gibbs, George
 Gibson, Miss Florence Wier
 Gibson, Mrs. Harvey Dow
 Gibson, Jesse R.
 Gibson, W. Frazer
 Gifford, E. Garfield
 Gifford, Mrs. Malcolm
 Gifford, Walter S.
 Gilbert, Miss Ellen G.
 Gilbert, Mrs. M. B.
 Gilbert, Mrs. Riley Miles
 Gilchrist, George R. E.
 Gill, Kermod F.
 Gillette, Curtenius
 Gilman, Samuel P.
 Gilsey, Margaret

Gimbel, Mrs. Bernard F.
 Gintzler, Morris
 Given, Wm. B., Jr.
 Gladding, J. R.
 Glave, Mrs. G. Y.
 Glazier, Henry S.
 Glenn, John M.
 Glines, E. Stanley
 Gluck, Mrs. Edward
 Glyn, W. E.
 Goddard, Conrad G.
 Goddard, Frederic W.
 Goddard, Mrs. Morrill
 Goddard, Ralph
 Goddard, Mrs. Thomas J.
 Godfrey, Mrs. E. D.
 Godfrey, Mrs. William S.
 Godley, George McMurtrie
 Godwin, Miss Frances B.
 Goebel, J., Jr.
 Goetchius, Mrs. J. M.
 Goetz, Mrs. Joseph Addison
 Goldan, S. Ormond, M.D.
 Goldberg, Dr. Julius
 Gold Forb, Prof. A. J.
 Goldman, Alfred L.
 Goldman, Julius
 Goldmann, Nathan
 Goldmark, Mrs. Emil
 Goldsmith, Alfred N.
 Goldsmith, Frederick
 Goldsmith, Mrs. H. B.
 Goldsmith, James A.
 Goldsmith, Kate A.
 Goldsmith, Mrs. Maurice
 Goldstone, Abraham L.
 Goldstone, Lafayette A.
 Goldwasser, I. Edwin
 Goldwater, Henry
 Gonzales, Thomas A., M.D.
 Good, Dr. Robert
 Goodfriend, Mrs. Jacob
 Goodfriend, Simon
 Goodhue, Chas. E.
 Goodman, Mrs. S. A.
 Goodwin, Walter L.
 Goodwin, Mrs. Walter L.
 Gordon, Albert H.

- Gordon, Fred W.
 Gordon, Mrs. Richard E.
 Gordon, Walter R.
 Gordon, Mrs. Wm. S.
 Goss, Mrs. George A.
 Gossler, Mrs. Philip G.
 Götberg, Miss Anna S.
 Gottheil, Mrs. Paul
 Gotthold, Arthur F.
 Gottschaldt, M. Chas.
 Gould, Edwin
 Gould, Harry
 Gould, Lyttleton B. P.
 Gove, Marguerite
 Graam, Alexis G.
 Graeb, Victor
 Graff, Abner
 Graham, Arthur Butler
 Graham, Charles V.
 Graham, Miss Doris Ann
 Graham, George A., Jr.
 Graham, Mrs. George A.
 Graham, James Varnum
 Graham, Dr. John C.
 Grandin, George Wilbert
 Grant, Adolph
 Grant, Mrs. David E.
 Grant, De Forest
 Grant, E. R.
 Grant, R. M.
 Grant, William T.
 Gratz, Anderson
 Gratz, Frank W.
 Graupner, William
 Graves, Henry, Jr.
 Graves, Henry S.
 Gray, Albert Z.
 Gray, Henry G.
 Gray, Miss Ida M.
 Gray, Prentiss N.
 Graydon, Mrs. Clendenen
 Greeff, Bernhard, Jr.
 Greeley, Harold Dudley
 Green, Mrs. A. L.
 Greenbaum, Mrs. Geo. E.
 Greenbaum, Lawrence S.
 Greene, Miss Augusta Borland
 Greene, Carleton
 Greene, Jerome D.
 Greenebaum, Fred. H.
 Greenfield, Arthur D.
 Greenhall, Arthur
 Greenhut, Benedict J.
 Greening, Alfred C.
 Greenlaw, R. W.
 Greenough, Mrs. Wm.
 Greenough, William Bates
 Greenwald, Isidor
 Greenwood, Mary M.
 Greer, Louis M.
 Gregory, Alfred
 Gregory, Dr. Alice
 Greist, Mrs. Alva O.
 Griffin, W. V.
 Grigg, Harry K.
 Grinnell, E. Morgan
 Grinnell, Mrs. George Morton
 Grinnell, Dr. Robt. S.
 Griscom, Lloyd C.
 Griscom, Mrs. Ludlow
 Griswold, Wm. E. S.
 Groff, Mrs. William Morgan
 Gross, Moritz
 Grossmann, Mrs. Edward A.
 Grueby, Mrs. W. H.
 Gruenstein, B. M.
 Grundner, Mrs. M.
 Gruner, William C.
 Grymes, Arthur J.
 Guardabassi, Mrs. F. M.
 Gude, Edward C.
 Guenther, Louis
 Guernsey, Miss Ruth
 Guertler, Rudolph
 Guggenheim, B.
 Guggenheim, Simon
 Guggenheim, Mrs. Simon
 Guggenheim, William
 Guggenheimer, Mrs. J. Caesar
 Guillaume, Jules A.
 Guinzburg, Mrs. Ralph
 Guinzburg, Mrs. Victor
 Guiterman, Percy L.
 Gulden, Mrs. Paul Immo
 Gulick, Archibald A.
 Gunari, Andrew P.
 Gushee, R. A.
 Guthrie, Mrs. Charles Strong
 Guthrie,
 Rev. William Norman
 Gutierrez, Valeriano
 Gutman, Abraham L.
 Gutman, J. W.
 Gwinn, Ralph W.
 Gwynne, Arthur C.
 Haas, Miss Edith
 Haas, George C.
 Haas, Sidney V., M.D.
 Hackett, Frank S.
 Hadden, Howard S.
 Hadley, D. F.
 Hadley, Mrs. Earl J.
 Hadley, Miss Edith M.
 Hadley, Morris
 Hage, John D.
 Hager, Robert, Jr.
 Haggerty, H.
 Haigh, George C.
 Haines, Charles D.
 Haldt, Harry Peale
 Hale, Dr. Henry E.
 Hall, Elizabeth C.
 Hall, Esther Wadsworth
 Hall, George Gilman
 Hall, Geraldine C.
 Hall, Henry B.
 Hall, Mrs. J. H. Jr.
 Hall, Henry J. S.
 Hall, Miss M. Winifred
 Hall, William Webster
 Halle, Mrs. Stanley J.
 Halsey, Chas. B.
 Halsey, Florence
 Halsey, Francis R.
 Halsey, Frederic M.
 Halsey, Frederick A.
 Halsey, Herbert D.
 Halsey, Miss Katherine T.
 Halsey, Robert H.
 Halsted, E. Bayard
 Hamann, Wm. A.
 Hamerschlag, Royal P.

Hamerslag, Howard J.
 Hamersley, Louis Gordon
 Hamilton, Alexander
 Hamilton, Edward P.
 Hamilton, Miss E. S.
 Hamilton, Mrs. George
 Hamilton, Mrs. Morgan
 Hamilton, Wallace, Jr.
 Hamlin, Mrs. Harry L.
 Hammar, F. V.
 Hammer, Dr. H. F.
 Hammer, Louis
 Hammesfahr, W. S.
 Hammond, Mrs. John Henry
 Hanauer, Jerome J.
 Hance, John A.
 Hanckel, Miss Mary A.
 Hancock, Charles Lea
 Hancock, F. Woodson, 3d.
 Hand, C. H., Jr.
 Handy, H. H. S.
 Handy, John L.
 Haney, John D.
 Hansen, Ferdinand
 Hanson, Henry Hall
 Harbison, Wm. Albert
 Hard, DeCourcy L.
 Hardart, Miss May
 Hardenbergh, Mrs. L. R.
 Hardenbergh, Mrs. T. E.
 Hardenbergh, Mrs. W. P.
 Hardie, Miss Mary E.
 Hardin, William B.
 Hardinge, Mrs. H.
 Hardon, Mrs. Henry W.
 Hardy, Charles J.
 Hardy, Dr. Sarah Belcher
 Hare, Mrs. C. W.
 Hare, Mrs. Montgomery
 Hare, William
 Harle's Academy
 Harley, Milton Price
 Harlow, Arthur H.
 Harmon, Mrs. Benedict
 Harmon, Rawson B.
 Harper, Miss Lillie H.
 Harrington, James T.
 Harris, Abraham

Harris, Albert H.
 Harris, Chas. C.
 Harris, Charles F.
 Harris,
 Rear Admiral Frederic R.
 Harris, Geo. A.
 Harris, Ida M.
 Harris,
 Mrs. Peyton Randolph
 Harris, Mrs. Victor
 Harris, Winifred S.
 Harrison, Bernard J.
 Harrison, Philip
 Harrower, Pascal R.
 Hart, Alfred S.
 Hart, Donald G. M.
 Hart, Henry
 Hart, Howard S.
 Hart, Mrs. John I.
 Hart, Lauribel L.
 Hart, Walter T.
 Harter, Isaac
 Hartmann, Waldemar
 Hartogensis, Alwyn M.
 Hartshorn, Mrs. S. H.
 Hartshorn, Dr. W. Morgan
 Hartshorne, James M.
 Hartshorne,
 Mrs. James Mott
 Harvey, Mrs. Elbert A.
 Harvey, Raymond
 Harwood, Paul H.
 Hasbrouck, Henry C.
 Haskell, Amory L.
 Hastings, Miss Grace
 Hastings, Mrs. T. Mitchell
 Hatch, Mrs. Harold Ames
 Hatch, T. A.
 Hauben, Saul S.
 Hauser, Samuel M.
 Hauswirth, Dr. Louis
 Havemeyer, Frederick C., 2d.
 Havemeyer, Henry O., Jr.
 Havemeyer, John F.
 Havemeyer, T. A.
 Haven, J. Woodward
 Hawkes, Forbes M.D.
 Hawkes, Mrs. Forbes

Hawkes, George Walter
 Hawkins, Mrs. Eugene D.
 Hawley, Samuel B.
 Hay, Randall G.
 Hayden, Warren S.
 Hayes, Alfred
 Hayes, Henry R.
 Hayes, Dr. Wm. Van Valzah
 Hayes, Mrs. Wm. Van Valzah
 Hayflich, Joseph
 Haynes, W. deF.
 Hays, David S.
 Hayward, J. B.
 Hazard, Frederick Rowland
 Hazard, Mrs. R. G.
 Hazard, Rowland
 Hazen, Allen
 Hazen, George H.
 Heald, Glen D.
 Healy, M. A.
 Hecht, Charles
 Heck, Dr. Edson B.
 Heck, George C.
 Hegeman, Albert Clarence
 Hegeman, Gerard C.
 Heide, Henry
 Heide, Henry, Jr.
 Heide, Herman L.
 Heide, Julius A.
 Heide, William F.
 Heilbroner, Mrs. L.
 Heilner, Julius
 Heilner, Mrs. Samuel
 Heim, Edward
 Heiman, Dr. Jacob
 Heiman, Dr. Max
 Heineman, Bernard
 Heisenberg, Karl
 Heller, Abraham A.
 Heller, Herbert C.
 Heller, Samuel
 Hellman, Edgar A.
 Hellman, Henry
 Hellman, Milo, D.D.S.
 Helme, Mrs. Geo. A.
 Helprin, Theodore D.
 Hemenway, Thomas
 Hencken, Mrs. Albert C.

- Henderson, A. I.
Henderson,
 Mrs. Alexander Iselin
Henderson, Mrs. E. C.
Hendrick, Josephine Pomeroy
Hendricks, Henry S.
Hengerer, Mrs. Charles A.
Henney, Keith
Henry, F. A.
Henry, Miss H. Maud
Henry, Miss Margaret
Henry, Mellinger E.
Henry, Philip W.
Henshaw, Franklin
Herman, George
Herman, Dr. Harold
Herman, I. C.
Hermes, Frank J.
Hernstadt, William L.
Herr, Edwin M.
Herreshoff, Francis Lee
Herrick, Harold
Herrick, Newbold L.
Herrick, Mrs. W. W.
Herrick, Dr. William W.
Herschman, Mrs. Walter R.
Hershey, Andrew H.
Herty, Chas. H.
Herz, Fred. W.
Herzog, Leo S.
Herzog, Miss Nina D.
Herzog, Samuel A.
Hess, Dr. Alfred F.
Hess, Arthur M.
Hess, Stephen G.
Hess, Victor R.
Hessberg, Lena
Hessel, Sidney P.
Hession, John W.
Hetteix, Jacques
Hetzler, Theo.
Hewitt, Ashley C.
Hewitt, Miss Caroline D.
Hewitt, Mrs. E. R.
Hewitt, Mrs. Henry M.
Hewitt, John Vance
Hewitt, Mrs. Lucy W.
Hewlett, Louis
- Hewlett, Walter Jones
Heydt, Charles E.
Heydt, Herman A.
Heye, Carl T.
Heyman, David M.
Heymann, Albert
Heymann, Benjamin
Heymann, Everett B.
Heymann, Seymour E.
Hibbs, Mrs. Russell A.
Hickox, Charles R.
Hicks, John M. W.
Higgins, R. H.
Hilder, Moritz
Hill, Miss Gertrude
Hill, Robert Carmer
Hilles, Mrs. Charles D.
Hillhouse, C. B.
Hills, Mrs. James M.
Hilyard, George D.
Hinchman, Ralph P.
Hindley, Chas. T.
Hine, Lyman N.
Hine, Thomas A.
Hines, Walker D.
Hird, John A.
Hird, Miss Mary E.
Hirsch, Angelo
Hirsch, Chas. S.
Hirsch, Leo H.
Hirsch, Mrs. Walter A.
Hirschhorn, Fred
Hirschland, F. H.
Hirschman, Mrs. Jesse
Hirsh, Harold M.
Hirshfeld, Irving B.
Hirshon, Mrs. Charles
Hitchcock, Claude N.
Hoch, Herman
Hochschild, Harold K.
Hodenpyl, Annie P.
Hodenpyl, Mrs. Eugene
Hodgdon, Frederick C.
Hodges, Miss Eleanor
Hodges, Geo. W.
Hoe, Geo. E.
Hoe, Mrs. Robert
Hoe, Mrs. Robert, Jr.
- Hoerber, Paul B.
Hoes, Ernest P.
Hoff, Frederick
Hoffman, Albert L., Jr.
Hoffman, Charles W.
Hoffman, F. Burrall, Jr.
Hoffman, Harry L.
Hoffman, Mrs. Joseph
Hoffman, W. W.
Hoffmann, Richard H., M.D.
Hofheimer, Lester
Hogan, Mrs. Jefferson
Hoguet, Mrs. Ramsay
Holbrook, Mrs. Edward
Holden, Mrs. Arthur C.
Holden, Mrs. Edwin B.
Holden, Laurence C.
Holden, Mrs. L. Dean
Holden, Milton
Holden, Richard C.
Holland, Nelson C.
Hollenback, Miss Amelia B.
Hollister, Frank C., M.D.
Hollo, Edmund
Holmes, Burton
Holmes, Frederick T.
Holt, Mrs. Henry
Holt, Mrs. L. Emmett
Holt, R. S.
Holter, Mrs. E. O.
Holton, Charles W.
Holz, Julius
Holzmaister, L. V.
Holzman, A.
Holzman, Elkan
Homan, B. H.
Homan, Mrs. B. H.
Homes, Mrs. Henry
Hooke, Robert G.
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, John J.

- Hopkinson, Ernest
 Hopkinson, John N.
 Hoppin, G. Beekman
 Hoppin, Mrs. W. W., Jr.
 Horch, Louis L.
 Hord, John H.
 Horn, John, M.D.
 Horne, Hon. W.E., M.P.
 Horner, J. W.
 Horowitz, Dr. Philip
 Horr, L. Wm.
 Hoskier, H. C.
 Hotchkiss, Miss Esther S.
 Hotchner, Bernard
 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
 Howells, William White
 Howes, Mrs. Reuben
 Howland, Miss Abby R.
 Howland, Silas W.
 Howson, Mrs. Roger S.
 Hoyer, F.
 Hoyt, Mrs. Anson P. S.
 Hoyt, C. Sherman
 Hoyt, Geo. H.
 Hoyt, Geo. S.
 Hoyt, Henry R.
 Hoyt, Mrs. John Sherman
 Hoyt, Mrs. Richard F.
 Hoyt, Sherman Reese
 Hoyt, Miss Virginia Scott
 Hubbard, Mrs. Charles W.
 Hubbard, Mrs. G. M.
 Hubbard, Louis B.
 Huber, Mrs. J. M.
 Huber, Kathryn Louise
 Huberth, Harry G.
 Huddleston, Carrol H.
 Hudson, Marjorie V. L.
 Hudson, Paul H.
 Hudson, Miss Sara K.
 Huffman, Dr. Otto V.
 Huger, Daniel E.
 Hughes, Charles E., Jr.
 Hughes, John C.
 Hughes, Mrs. John Chambers
 Hulskamp, Helena A.
 Hulswit, Frank T.
 Humphrey, Martha K.
 Humphreys, Frederic E.
 Humphreys, Mrs. George H.
 Hunt, Henry T.
 Hunt, Lucy
 Hunt, Richard H.
 Hunt, Seth B.
 Hunt, Mrs. Thomas
 Hunter, Jeremiah
 Hunter, Stephen C.
 Huntington, Mrs. Francis C.
 Huntington, Henry Strong
 Huntington, Mrs. R. P.
 Huntington, Robert P.
 Hüpfel, Adolph G.
 Hüpfel, Chris. G.
 Hüpfel, J. Chr. G.
 Hurd, Dr. Lee M.
 Hurd, R. M.
 Hurlbut, Miss Margaret C.
 Hurst, Mrs. Albert Edward
 Hurst, Mrs. Marjorie E.
 Hutcheson, Ernest
 Hutcheson, Wm. A.
 Hutchins, A. S.
 Hutchins, Harley D.
 Hutchins, R. G.
 Hutzler, George H.
 Huyler, C. D.
 Huyler, David
 Hyacintha, Sister M.
 Hyatt, A. M.
 Hyde, A. Fillmore
 Hyde, Courtney
 Hyde, E. Francis
 Hyde, Mrs. Francis de Lacy
 Hyde, Mrs. Frederick E.
 Hyde, Miss Hazel
 Hyde, Seymour Worrall
 Hyman, Abraham, M.D.
 Hyman, Edwin C.
 Hymes, Richard
 Hynard, William C.
 Ignazowski, Miss Josaphine
 Ill, Edgar A.
 Ill, Edward J.
 Imboden, Harry M.
 Ingalls, Fay
 Ingalls, Mrs. George H.
 Ingalls, Roscoe C.
 Ingersoll, Mrs. Marion Crary
 Ingraham, Mrs. George
 Ingraham, Geo. L.
 Ingraham, Mrs. Phoenix
 Ingram, Ernest S.
 Innes, O. G.
 Inislee, Edwin W.
 Irons, Robert Hatfield
 Irving, Mrs. Emmet W.
 Irving, Mrs. L. du Pont
 Irwin, William Fletcher
 Isaacs, Stanley M.
 Iselin, C. Oliver
 Iselin, Mrs. C. Oliver
 Iselin, Miss Georgine
 Iselin, Wm. E.
 Iselin, Mrs. William E.
 Iselin, Wm. O'D.
 Iseman, Percy R.
 Isham, Phillips
 Isham, Mrs. Wm. B.
 Ising, Charles Eugene
 Israel, Milton J.
 Jaches, Leopold
 Jackson, Mrs. C. D.
 Jackson, Francis DeMilt
 Jackson, Mrs. Frederic W.
 Jackson, Frederick W.
 Jackson, Percy
 Jackson, Robert A.
 Jackson, Robert F.
 Jackson, Samuel
 Jacob, Emanuel
 Jacobs, E. Louis
 Jacobs, Harold H.
 Jacobsen, Laura
 Jacobus, John S.
 Jacoby, Dr. Geo. W.

Jacoby, George W.
 Jaeckel, Albert F.
 Jaffray, Mrs. Robert
 Jais, Jacob D.
 Jalkut, Sydney S.
 James, Mrs. Ellerton
 James, Ellery S.
 James, Henry
 James, Mrs. Henry
 James, Oliver B.
 James, Mrs. Thos. Marshall
 James, Mrs. Walter B.
 James, Mrs. Wortham
 Jameson, Mrs. Edwin C.
 Jansen, Ed.
 Janvrin, Edmund R. P., M.D.
 Jarcho, Dr. Julius
 Jaretzki, Mrs. Alfred
 Jarvis, N. S., M.D.
 Jeffcott, R. C.
 Jefferson, John Percival
 Jenkins, A. C.
 Jenkins, Alfred W.
 Jenkins, William G.
 Jenks, Randolph
 Jenks, Mrs. Robert I.
 Jennings, Miss A. B.
 Jennings, Percy H.
 Jennings, Mrs. Percy Hall
 Jennings, Mrs. Philip B.
 Jennings, Walter
 Jennings, Mrs. Walter
 Jephson, George S.
 Jermain, Miss M. C.
 Jervay, Huger W.
 Jessup, Everett Colgate
 Jewett, Frank B.
 Jewett, George L.
 (In Memoriam)
 Jewett, Rutger Bleecker
 Jobling, James W., M.D.
 John, Robert
 Johnson, Prof. Douglas W.
 Johnson, Evangeline B.
 Johnson, F. Elmer, M.D.
 Johnson,
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 Johnson, George B.

Johnson, Gilbert H.
 Johnson, Julius M.
 Johnson, Leeds
 Johnson, Mrs. Oliver T.
 Johnson, Reginald M.
 Johnson, Mrs. S. Pitney
 Johnson, Ward L.
 Johnson, Wm. C., M.D.
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 Mrs. Wm. Templeton
 Johnston J. Herbert
 Johnston, Mrs. J. Herbert
 Johnston, Dr. Marius F.
 Jonas, Coloman
 Jonas, Ralph
 Jones, Mrs. Adam Leroy
 Jones, Mrs. Anna Clark
 Jones, Arthur J.
 Jones, Bassett
 Jones, Mrs. Cadwalader
 Jones, Daniel W., Jr.
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 Jones, Edwin Artimus
 Jones, Emily L.
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 Jones, Frank Morton
 Jones, Geo. Miller
 Jones, H. Kirkland, Jr.
 Jones, J. Frederick
 Jones, Mrs. Paul T.
 Jones, Robcliff V.
 Jones, Samuel B.
 Jones, T. Catesby
 Jones, W. Strother
 Jones, William B.
 Joost, Sherman B.
 Joseph, Brother James
 Joseph, Mrs. John A., Jr.
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 Jowett, Mrs. James H.
 Judson, Henry I.
 Judson, Mrs. Wilbur
 Judson, William D.
 Julian, R. L.
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 Kahn, Arthur J.
 Kahn, Chas. M.

Kahn, Gilbert W.
 Kahn, Mrs. Gilbert W.
 Kahn, L. Miller, M.D.
 Kahn, Montifiore G.
 Kahn, Otto H.
 Kahn, Walter N.
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 Kalbfleisch, Augusta S.
 Kallman, Max S.
 Calvin, Nathan
 Kane, Mrs. De Lancey
 Kane, Miss Sybil Kent
 Kann, N.
 Kanowitz, S. B.
 Kappes, Herman
 Karagheusian, Arshag
 Karelsen, Frank E., Jr.
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 Kaskel, Max
 Kassing, Edwin S.
 Kastor, Adolph
 Kates, Jerome S.
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 Kaufmann, Charles B.
 Kaufmann, Donald
 Kaufmann, Ernst B.
 Kaufmann, H. M.
 Kaufmann, Irma H.
 Kaufmann, Mrs. M. J.
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 Kean, John
 Kean, Mary Alice Barney
 Kean, Robert Winthrop
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 Keen, Mrs. Herbert Beers
 Keene, Charles S.
 Keep, C. H.
 Kehoe, Robt. P.
 Keith, Mrs. Minor C.
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 Keller, Fredk. C.

- Keller, Joseph F.
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 Kelley, Augustus W.
 Kelley, Cornelius F.
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 Kellogg, L. D.
 Kellogg, Mrs. Morris W.
 Kellogg, R. S.
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 Knowlton, Peter
 Knox, Samuel
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 Kohn, Sol
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 Lambert, Vitus C.
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 Lane, Wolcott G.
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 Larkin, Francis Yoakum
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 Lawrence, John L.
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 Lawrence, Townsend
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 Leach, Henry Goddard
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 Lee, Dr. Marguerite T.

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 Lehman, Irving
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 Leserman, Philip. Jr.
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 Lester, William C.
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 Levenson, Edward, D.D.S.
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 Levi, George
 Levi, Philip J.
 Levy, B. E.
 Levy, Edgar A.
 Levy, Ephraim B.
 Levy, Jacob
 Levy, John
 Levy, Leo
 Levy, Louis S.

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Lewis, Edward J.	Little, John W.	Low, Mrs. Paul H.
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Lewis, Fred. E.	Livingston, Archibald R.	Lowenstein, Solomon
Lewis, Mrs. Frederic Elliott	Livingston, Henry S.	Lowenthal, Alfred
Lewis, Liston L.	Livingston, Louis	Lowndes, M. E.
Lewis, Miss M. Frederica	Livingston, Philip	Lowrey, Mrs. G. C. W.
Lewis, Miss Margaret E.	Lloyd, Mrs. Francis G.	Lowther, Christopher M.
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Lewis, Mrs. Roger	Lobo, C.	Luckey, Charles P.
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Lewisohn, Sam A.	Lobsitz, Maurice	Ludlow, Mrs. Banyer
Lewisohn, Mrs. Samuel A.	Locherer, Agnes L.	Ludlum, C. A.
Lexow, Mrs. Allan	Locke, Mrs. Robinson	Ludvigh, Elek John
Lichtenberg, Samuel	Lockwood, Dr. George Roe	Lueder, C. G.
Lichtenstein, Louise Boyd	Lockwood, Mrs. Mary Isabel	Lueder, E. L.
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Lieber, Dr. Hugo	Loeb, C. M.	Lufkin, E. C.
Liebert Chas. H.	Loeb, J.	Luithe, C. F.
Liebmann, Alfred	Loeb, Mrs. Morris	Luke, Adam K.
Liebmann, Robert E.	Loeb, Mrs. William	Luke, David L.
Liebmann, Samuel	Loebl, Andrew W.	Lumb, Henry A.
Lilienthal, Albert M.	Loewenthal, Walter	Lummis, Benjamin Rush
Lilienthal, Dr. Howard	Logan, Lorens	Lundquist, Miss G.
Lilienthal, Jos. L.	Logan, Mrs. Victor W.	Lupu, Irving
Lillibridge, Harrison	Logan, Mrs. W. J.	Luquer, Prof. Lea McI
Limburg, Herbert R.	Long, Miss Emilie O.	Luquer, Lea Shippen
Lincoln, Frederic W.	Long, Mary Fraser	Lusk, Miss Anna H.
Lincoln, Jackson Steward	Longfellow, Frederick W.	Lusk, Graham
Lincoln, Mrs. Lowell	Look, Edward Townsend	Luykx, Mrs. N. G. N.
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Lindenmeyr, Fritz	Lord, Chester S.	Lyeth, John C.
Lindley, Allen L.	Lord, Daniel M.	Lyman, Grace Greenleaf
Lindsey, Edward	Lord, Miss Dorothy C.	Lyman, Robert H.
Lion, Oscar	Lord, Wm. G.	Lynch, Mrs. John H.
Lipman, Walter L.	Lorenz, Mrs. Leo	Lynch, M. H.
Lippincott, Miss M. T.	Lorsch, Arthur	Lynn, Francis
Lippman, Richard W.	Lorsch, Henry	Lyon, Elinor L. P.
Lisman, Frederick J.	Lough, W. H.	Lyon, Theo. E.

- Lyon, Tracy
- Maas, Milton A.
- Mabon, J. B.
- MacCracken,
Mrs. George Gere
- MacCurdy, George Grant
- MacDonald, George
- Macdonald, Ranald H.
- MacDowell, F. M.
- Maddowell, W. G.
- MacFadden, C. Kendrick
- Mack, Arthur C.
- Mack, Arthur J.
- Mack, Fred. A.
- Mack, Harry
- Mack, Julian W.
- MacKee, Geo. M.
- Mackenzie, Kenneth K.
- MacLay, Mrs. Alfred Barmore
- Maclea, Joseph B.
- Macleod, William P.
- MacMurray, C. F.
- MacVeagh, Ewen Cameron
- Macy, T. Ridgway
- Macy, W. Kingsland
- Maddaus, Ingo, Jr.
- Maddaus, Paul
- Madden, William Jay
- Madeira, Percy C.
- Mager, F. Robert
- Magnin, E. John
- Mainzer, Mrs. Herbert R.
- Mainzer, Robert H.
- Mairs, Mrs. Edwin H.
- Malburn, Wm. P.
- Maliet-Prevost S.
- Mallory, Mrs. Charles
- Malone, L. Wm.
- Maloney, Robert W.
- Manchester, Percival
- Mandell, K.
- Manges Dr. Morris
- Manheims, Perry J., M. D.
- Manley, Mrs. H. D.
- Mann, Otto
- Mann, S. Vernon
- Mansfield, Howard
- Manship, Paul
- Mantle, J. G. C.
- Manville, H. Estelle
- Manville, H. E., Jr.
- Manz, Gustav
- Mapes, Eugene E.
- Marble, William A.
- Marbury, Miss Elisabeth
- Marckwald, A. H.
- Marcus, B. K.
- Marcus, Mrs. W. E., Jr.
- Marcuse, Alexander J.
- Marino, A. J.
- Marion, Pierce
- Marker, Dr. J. P. H.
- Markle, John
- Markoe, Mrs. James W.
- Marks, Lawrence H.
- Marsh, Charles Capron
- Marsh, John B.
- Marshall, Mrs. Caroline Clark
- Marshall, Charles A.
- Marshall, Charles C.
- Marshall, Robert P.
- Marshall, Mrs. Wm. W.
- Marston, Edgar J.
- Marston, Edgar L.
- Marston, Mrs. W. L.
- Martin, Alexander T., M.D.
- Martin, Bradley
- Martin Mme Cecil Camille
- Martin, Edward J.
- Martin, Mrs. George W.
- Martin, Mrs. Grinnell
- Martin, Henry C.
- Martin, Mrs. Howard T.
- Martin, Robert W.
- Martin, Thomas W., M.D.
- Martin, Walton, M.D.
- Marty, Jemuel G.
- Marvin, Langdon Parker
- Marwig, Carl H.
- Marx, Charles
- Masback, Robert J.
- Mason, Charles N.
- Mason, Miss Fanny P.
- Mason, James
- Mason, M. D.
- Mason, Mrs. Thomas A.
- Massey, Mrs. George
- Massey, Miss Harriet F.
- Masters, Sarah W.
- Mastin, Mrs. J. Edward
- Mather, Samuel
- Mathesius, Fredk. Jr.
- Matheson, Wm. J.
- Mathewson, Charles E.
- Mattison, Mrs. E. D.
- Mausloff, Mrs. Paul
- Maxwell, Henry L.
- Maxwell, Howard W.
- May, George O.
- Mayer, Albert
- Mayer, Charles
- Mayer, Mrs. John Adams
- Mayer, Joseph L. B.
- Mayer, Josh W.
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- Mayer, M. R.
- Mayer, Nelson B.
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- Mayhoff, Monroe
- Maynard, Robert W.
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- McAdoo, William
- McAfee, William R.
- McAlpin, B. B.
- McAlpin, Dr. D. H.
- McAlpin, Mrs. Geo. L.
- McAlpin, Kenneth R. M.D.
- McBride, Geo. C. D.D.S.
- McBride, Mrs. Herbert
- McBride, John S.
- McBride, Thomas J.
- McBride, Wm. M.
- McCafferty, Lawrence K.
- McCagg, Louis B.
- McCagg, Louis B., Jr.
- McCall, Leo H.
- McCanliss, Lee
- McCarthy, J. M.
- McCarthy, Harry C.
- McCloy, John J.
- McClure, Samuel G.

- McCook, Philip J.
 McCormick-Goodhart, L.
 McCourt, James
 McCourt, W. Frank
 McCrea, Nelson G.
 McCrea, W. S.
 (In Memoriam)
 McCready, Robert L., M.D.
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 McCulloh, Charles S.
 McCulloh, James S.
 McCullough, W. G.
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 McDonald, C. Eric W.
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 McElheny, Victor K., Jr.
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 McFarland, Warren C., M.D.
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 Miss Sophie Hoffman
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 Melson, Ralph
 Melville, Ward
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 Montgomery,
 Mrs. Henry Eglinton 2d

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 Moody, William F.
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 Moore, E. A.
 Moore, Mrs. Edward S.
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 Morgan, Hubert S.
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 Morgan, Shepard A.
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 Morris, Ray
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 Morse, Perley

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 Mulford, Stockton
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 Muller, Carl L.
 Muller, Erhart
 Muller-Schall, Fred
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 Munroe, Vernon
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 Munson, Frank C.
 Munson, S. L.
 Murchison, Miss Lucile W.
 Murnane, George
 Murphy, Charles F., Jr.
 Murphy, Deas, M.D.
 Murphy, Franklin
 Murphy, G. M.-P.
 Murphy, Henry Killam
 Murphy, James B.
 Murphy, John J.
 Murphy, Sarah Neely

Murphy, Wm. C.
 Murray, J. Archibald
 Murray, R. D.
 Murtaugh, Mrs. E. M.
 Muschenheim, Fred. A.
 Mutterperl, Sol.
 Myers, L.
 Myers, Winter W.
 Myles, Robert C., Jr.
 Myrick, Julian S.

 Nadelman, Elie
 Nadelman, Mme. Elie
 Nash, Leo
 Nathan, Mrs. Frederick
 Nathan, Harold
 Nathan, Dr. Philip W.
 Nathan, Royden L.
 Naumburg, Walter W.
 Naumburg, William
 Necarsulmer, Henry
 Necarsulmer, Mrs. Henry
 Neely, Robert T.
 Neergaard, Dr. A. E.
 Neeser, John G.
 Neitzel, August
 Nelson, Theodora
 Nelson, Walter H.
 Nesmith, James
 Nesmith, James, 2d
 Neugass, Isidore
 Neuhoof, Dr. Harold
 Neuman, Leon
 Neumann, Julie W.
 Neumoegen, M. L.
 Neustadt, Mrs. S.
 New, Mrs. Sidney
 Newberry, Truman H.
 Newbold, Fredc. R.
 Newborg, M.
 Newborg, Sidney
 Newburger, Alfred H.
 Newburger, Mrs. Lester M.
 Newbury, F. A.
 Newcomb, H. H.
 Newcomb, H. T.
 Newcomb, Mrs. James E.
 Newcomb, James F.

Newcomb, James G.
 Newcombe, Mrs. Charles M.
 Newhouse, Leo
 Newlon, Jesse H.
 Newman, A. L.
 Newman, Harry S.
 Newsom, William Monypeny
 Newton, Mrs. Francis
 Newton, Samuel P. S.
 Nichols, C. W.
 Nichols, Mrs. Charles Walter
 Nichols, Edward T.
 Nichols, Edward T., 4th
 Nichols, Francis T.
 Nichols, S. Van B.
 Nichols, William B.
 Nicholson, John E.
 Nickerson, Hoffman
 Nickerson, Mrs. John
 Nicklas, C. Aubrey
 Nicoll, Mrs. Benjamin
 Nicoll, Charles D.
 Nicoll, Mrs. Fancher
 Nightingale, Miss Frances N.
 Niven, John Ballantine
 Noble, Francis L.
 Nobles, Charles C.
 Nodine, Miss Marguerite L.
 Noell, Carl
 Nolan, L. J.
 Nones, Walter M.
 Noonan, W. T.
 Norcross, Grenville H.
 Norman, Mrs. Bradford
 Norman, Bradford, Jr.
 Norman, Edward A.
 Norrie, Lanfear B.
 Norrie, Van Horne
 Norris, Beverly A.
 Norris, Charles
 Norris, Miss Fanny
 North, George B.
 Northrop, Chas. P.
 Norton, Mrs. Charles D.
 Norton, Mrs. N. R.
 Norton, Mrs. Sheridan
 Norton, W. P.
 Noyes, Mrs. D. Chester

Noyes, D. Raymond
 Noyes, Winthrop G.
 Nuckols, Henry Wade
 Nute, Mrs. John W.

 Oastler, Dr. F. R.
 Obermeyer, Jos.
 O'Brien, Mrs. M. J.
 O'Brien, Morgan J.
 Obrig, Mrs. Adolph
 Ochs, Adolph S.
 O'Connor, Patricia
 Odell, William R., Jr.
 O'Donohue, Joseph J., Jr.
 Offerman, John
 Ogden, Charles W.
 Ogden, Mrs. David B.
 Ogden, Geo. B.
 Ogden, J. Edward
 Ogden, James
 Ogle, Mrs. Ponsonby
 Ohmes, Arthur K.
 Oldroyd, Ida S.
 Olds, George S.
 Olds, Margaret A.
 Ollesheimer, Henry
 Olmsted, Fayette S.
 Olmsted, M. E.
 Olney, Elam Ward
 Olwell, Lee E.
 Oman, Rear-Admiral J. W.
 O'Neil, Mrs. James
 Opdycke, Mrs. Leonard E.
 Openchowski,
 Mrs. Mieczyslaw
 Openhym, George J.
 Oppenheim, Laurent
 Oppenheim, Robert
 Oppenheimer, Dr. B. S.
 Oppenheimer, David E.
 Oppenheimer, Harry C.
 Oppenheimer, Julius
 Opper, Edwin M.
 O'Reilly, John B.
 Orne, Henry M.
 Orr, William C.
 Orteig, Raymond
 Orton, Dr. S. T.

Orvis, Edwin W.
 Osborn, Earl Dodge
 Osborn, Mrs. Frederick H.
 Osborn, Wm. H.
 Osborn, Mrs. William H.
 Osborne, Lester
 Oshima, Dr. M.
 Osterholt, Ehler
 Osthoff, Henry, Jr.
 Otheman, Mrs. Francis W
 Otis, Charles
 Otis, Mrs. George L.
 Otis, Harold
 Ott, Alexander J.
 Ottenberg, Mrs. Irving S.
 Ottenberg, Dr. Reuben
 Outhwaite, Leonard
 Ovington, Charles K.
 Owens, Wm. E.

Pace, Homer S.
 Pack, Mrs. Charles Lathrop
 Packard, Elizabeth H.
 Paddock, Mrs. Eugene H.
 Paddock, Mrs. Robert L.
 Page, Mrs. Arthur W.
 Page, F. Palmer
 Paine, A. G., Jr.
 Paine, Edward S.
 Paine, Mrs. George Eustis
 Painter, Dr. H. McM.
 Palmenberg, Emil T.
 Palmer, Edgar
 Palmer, Franklin Wheeler
 Palmer, Herman
 Palmer, Howard
 Palmer, Hugh Archer
 Palmer, Laura A.
 Palmer, Lowell M., Jr.
 Palmer, Miss Luella A.
 Palmer, S.
 Pantaleoni, Mrs. Guido, Jr.
 Pappenheimer,
 Alvin M., M.D.
 Paquette, Percy C.
 Pardee, Ario
 Pardee, Mrs. Harold E. B.
 Paret, Dick

Parish, Mrs. Henry
 Parish, Wainwright
 Parish, William F.
 Park, Charles F., Jr.
 Park, F. A.
 Parker, A. W.
 Parker, Frank S.
 Parker, Junius
 Parker, Winthrop
 Parkhurst, Miss Helen
 Parks, Elton
 Parmentier, Mrs. Elsbeth
 Pabst
 Parodi, Dr. Teofilo
 Parson, Hubert Templeton
 Parsons, Argyll R.
 Parsons, Bertha R.
 Parsons, Chas. W.
 Parsons, Frank H.
 Parsons, H. de B.
 Parsons, Henry
 Parsons, Mrs. J. Graham
 Parsons, Katharine de B.
 Parsons, Miss M.
 Parsons, Schuyler L.
 Parsons, W. U.
 Parsons, Wm. Barclay
 Parsons, Wm. Barclay, Jr.
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 Paskus, Benj. G.
 Paton, Dr. Stewart
 Patterson, Edward C.
 Patterson, Mrs. George W.,
 Jr.
 Patterson, Henry S., M.D.
 Patterson, Joseph Read
 Patterson, Mrs. Rufus L.
 Patterson, Stuart H.
 Paulding, Charles C.
 Pavenstedt, Adolf J.
 Payne, Robert G.
 Payne, Mrs. W. T.
 Payson, Charles S.
 Peabody, Lincoln R.
 Peabody, Stephen
 Peabody, T. K.
 Peacock, Charles A.
 Pearsall, Leigh M.

Pearsall, Samuel
 Peaslee, Mrs. Edmund W.
 Peck, Charles E.
 Peck, E. Stuart
 Peck, Morton R., M.D.
 Peck, Newton T.
 Peckham, Mrs. Wheeler H.
 Pedersen, Dr. James
 Peierls, Siegfried
 Pelican, C.
 Pell, Mrs. Alfred Duane
 Pell, James D.
 Pell, Mrs. Stephen
 Pell, Walden
 Pels, Walter
 Pelzer, B. Henry
 Pennoyer, Paul G.
 Pennoyer, Miss Virginia M.
 Perera, Lionello
 Perine, William D. N.
 Perkins, Miss Elizabeth
 Perkins, F. Curtis, Jr.
 Perkins, G. Lawrence
 Perkins, George W.
 Perkins, James H.
 Perrine, Mrs. F. A. C.
 Perrow, Jesse
 Perry, Henry P.
 Perry, Mrs. Louise M.
 Perry, O. B.
 Peskind, Dr. Arnold
 Peter, Mrs. Armistead, 3d
 Peters, Miss Alice R.
 Peters,
 Madame Edward McClure
 Peters, Miss Elizabeth
 Peters, Miss Isabel M.
 Peters, William Y.
 Peterson, Andrew
 Peterson, Frederick, M.D.
 Pettengill, Jason Seabury
 Peyton, William C.
 Peyton, Mrs. William C.
 Pfeiffer, Timothy Newell
 Pfender, W. S.
 Pforzheimer, Walter
 Phelps, Dr. G. M.
 Phelps, Mrs. Sheffield

- Philipp, Philip B.
 Phillips, Mrs. Alfred Noroton
 Phillips, Edna K.
 Phillips, Frank
 Phillips, Geo. W., Jr.
 Phillips, Lawrence
 Phillips, T. W. S.
 Phillips, W. Stanwood
 Phipps, Henry
 Phipps, Michael
 Phraner, Miss Mary Sumner
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 Pickhardt, William Paul
 Pier, Roy
 Pierce, Alice R.
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 Pierrepont, Robert Low
 Pierrepont, Seth Low
 Pierson, Mrs. C. W.
 Pierson, D. H.
 Pierson, J. Fred
 Piez, Ernestine
 Pilat, Mrs. F.
 Pilliod, James J.
 Pincus, Alfred
 Pinkerton, Allan
 Pitkin, William Taft
 Pitman, Gen. John
 Pitney, Mrs. J. O. H.
 Platt, Mrs. Charles H.
 Platt, Mrs. Frank H.
 Platt, Frederick Putnam
 Platt, Henry B.
 Platt, Livingston
 Platzek, M. Warley
 Plaut, Edward
 Plaut, Joseph
 Pless, Martin
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 Rt. Rev. George Winslow
 Plunkett, Mrs. Charles T., Jr.
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 Pohlmann, Mrs. Emmy
 Poillon, Mrs. Arthur
 Poillon, Clara L.
 Polachek, John
 Polk, Frank L.
 Polk, Mrs. William M.
 Pollak, Bernard E.
 Pollitzer, Miss Margaret
 Pollitzer, Dr. S.
 Poltchaninoff, Nicholas J.,
 M.D.
 Pomeroy, Mrs. D. E.
 Pomroy, H. A.
 Pond, Miss Florence L.
 Poole, Mrs. Ernest
 Poor, Hustace H.
 Poor, Ruel W.
 Pope, Mrs. James E.
 Popham, Henry Meigs
 Popper, A. W.
 Popper, Mrs. Wm. C.
 Porter, Mrs. Rachel Lenox
 Posner, L. S.
 Post, Abram S.
 Post, Andrew J.
 Post, Mrs. Carroll J., Jr.
 Post, Charles K.
 Post, Robert C.
 Post, Sylvester
 Post, Mrs. Wm. S.
 Postnikoff, Leonid
 Potter, Miss Blanche
 Potter, Frank H.
 Potter, Frederick A.
 Potter, Dr. Mary Goddard
 Potter, Mrs. Orlando B.
 Potter, R. Burnside
 Pottier, Auguste Ruffin
 Potts, William B.
 Powell, Miss Rachel Hopper
 Powell, S. C.
 Powers, Dr. Lillian Delger
 Prall, Rev. Dr. William
 Pratt, Fletcher
 Pratt, Mrs. Richardson
 Preckett, Russell
 Prentice, Wm. M.
 Prentiss, Edmund A., Jr.
 Prentiss, Marshall
 Presbrey, Frank
 Prescott, Dr. Henry D.
 Prescott, John O.
 Prescott, Sherburne
 Preston, Stuart D.
 Preston, Veryl
 Pretzfeld, Edgar S.
 Price, Mrs. Clarence
 Price, Joseph M.
 Price, Walter W.
 Priddy, Lawrence
 Prime, Mrs. Edward
 Prince, Benjamin
 Prince, Theodore
 Procter, Frederic W.
 Procter, Rodney
 Procter, Mrs. Sanford
 Procter, William
 Proctor, Wm. Ross
 Proskauer, Joseph M.
 Prosser, Robert W.
 Pruyn, Erving
 Pruyn, Francis L.
 Pugsley, Cornelius A.
 Pulsifer, Harold T.
 Pulaifer, N. T.
 Puppe, Helene C.
 Purcell, Elizabeth
 Purves, Robert Ogden
 Putnam, Mrs. Edward H.
 Putnam, Helen C., M.D.
 Putnam, Lyonel H.
 Putnam, P. T. L.
 Putney, Miss Eva C.
 Pyle, D. H. McAlpin
 Pyle, James McAlpin
 Pyle, Mrs. Wm. Scott
 Pynchon, George M.
 Pyne, Mrs. M. Taylor
 Quackenbush, Timothy A.
 Quick, Douglas
 Quinn, Martin J.
 Quintard, Dr. Edward
 Rabinowitz, Mrs. Aaron
 Rachlin, Abraham
 Rader, Mrs. Louis B.
 Radway, John O.
 Rafferty, Mrs. Ewing L.
 Rahlson, K. J.
 Raiman, Robert Insall
 Raisler, Samuel

- Ramage, Samuel Young
 Ramsay, H. H.
 Ramsperger, H. G.
 Randolph, Evan
 Randolph, Mrs. Francis F.
 Randolph, Wm. F.
 Ranger, Stanley G.
 Ransom, Miss Maud
 Ransom, William L.
 Raska, Miss Clara
 Rau, Eugene A.
 Rauch, William
 Rawlins, Herbert N.
 Rayher, Edward R.
 Raymond, Frank T.
 Raymond, H. H.
 Raymond, Irving E.
 Raymond, Mrs. William
 Raynes, George W.
 Read, Norman
 Read, R. Bartow
 Read, Wm. A., Jr.
 Read, Mrs. Williams
 Ream, Mrs. Norman Putnam
 Reckford, John King
 Redman, Wilbur M.
 Redmond, Miss Emily
 Redmond, Mrs. Henry S.
 Redmond, Roland L.
 Redwood, W. D.
 Reed, Mrs. Chester T.
 Reed, Floyd Orten, M.D.
 Reed, Henry H.
 Reed, Robert R.
 Reed, Wm. E.
 Rees, Mrs. R. Llewelyn
 Reese, Miss M. M.
 Reese, Mrs. Robert Grigg
 Reese, W. Willis
 Reichard, Gladys A.
 Reichenbach, L.
 Reid, Mrs. Ogden Mills
 Reid, Wallace
 Reid, Mrs. Whitelaw
 Reilly, Frances S.
 Reimann, Vilhelm
 Reinhardt, E. Allan
 Reischmann, Henry R.
 Reisinger, Curt H.
 Remick, Mary Moore
 Remington, Franklin
 Remsen, Miss Margaret S.
 Remsen, William
 Rennie, Robt.
 Reulbach, Edward J.
 Revell, Fleming H.
 Reyburn, Saml. W.
 Reynal, Mrs. E. S.
 Reynolds, Miss Emma C.
 Reynolds, Geo. W.
 Reynolds, Herbert B.
 Reynolds, Shaw H.
 Reynolds, Thos. A.
 Reynolds, Mrs. Walter S.
 Rheinauer, Daniel
 Rheinstein, Alfred
 Rhoades, John Harsen
 Rhoades, Mrs. Lyman
 Rice, Arthur
 Rice, Mrs. Elmer L.
 Rice, Elwood E.
 Rice, Dr. Frederick W.
 Rice, Grantland
 Rice, Louis W.
 Rice, Oran Winthrop
 Rice, Philip B.
 Rich, Charles A.
 Rich, Johanna E.
 Rich, Jos. S.
 Richard, Miss Elvine
 Richard, Harold C.
 Richard, Oscar L.
 Richards, Archie M.
 Richards, George
 Richards, Mrs. George H.
 Richardson, C. Tiffany
 Richardson, Mrs. C. Tiffany
 Richardson, Sinclair
 Richardson,
 Thomas de Quartel, Jr
 Richter, Max
 Ricker, Mrs. Eleanor A.
 Ricketts, Miss H.
 Ridder, J. E.
 Ridder, Victor F.
 Riddle, Mrs. Theodate Pope
 Ridgway, Robert
 Riegelman, Mrs. Charles
 Riem, Simon R.
 Ries, Hugo
 Riesenber, Adolph
 Riglander, Mrs. M. M.
 Riley, Cathryn V.
 Riley, Henry Alsop, M.D.
 Riley, Mrs. J. W.
 Rinelli, Peter
 Rinschede, Charles A. W.
 Rippenbein Morris
 Risch, Otto Carl, M.D.
 Rives, George Barclay
 Robert, Samuel
 Roberts, Erastus T.
 Roberts, George
 Roberts, Mrs. Henry Steele
 Roberts, Owen F.
 Roberts, William
 Robins, Thomas
 Robinson, A. G.
 Robinson, Beverley R.
 Robinson, Mrs. C. L. F.
 Robinson, Charles B., Jr.
 Robinson, Edward
 Robinson, Mrs. Edward
 Robinson, Mrs. F. I. W.
 Robinson, James H.
 Robinson, Dr. John A.
 Robinson, Karl H.
 Robinson, Mark H.
 Robinson, Miss Pauline
 Robinson, Mrs. T. Douglas
 Robson, Herman
 Rockefeller, Percy A.
 Rockefeller, Mrs. William A.
 Rockefeller, Mrs. Wm. G.
 Rockwood, Miss K. C.
 Rodie, Mrs. W. S.
 Roelker, Alfred
 Roelker, Miss Anna E.
 Roesler, Edward
 Roethlisberger, Otto
 Rogers, Edmund P.
 Rogers, Francis
 Rogers, Mrs. Francis
 Rogers, H. Pendleton

- Rogers, Henry W.
 Rogers, Hubert E.
 Rogers, Mrs. Jas. Gamble
 Rogers, John S.
 Rogers, Dr. Oscar H.
 Rogers, Saul E.
 Rohdenburg, G. L.
 Rohe, Charles
 Rokenbaugh, H. S.
 Rolle, Augustus J.
 Roller, Emil
 Rollinson, Mrs. Helen M.
 Ronalds, Miss Thora
 Roome, Howard LeC.
 Roos, Mrs. M.
 Roos, Mrs. William
 Roosevelt, A. B.
 Roosevelt, G. Hall
 Roosevelt, Mrs. J. West
 Roosevelt, Philip J.
 Roosevelt, Mrs. Philip J.
 Roosevelt, W. Emlen
 Root, Elihu
 Ros, Miss Emilia
 Rose, Mrs. A. Sumner
 Rose, C. C.
 Rose, Mrs. George
 Rose, Sister M.
 Rosenbaum, Selig
 Rosenbaum, Sol. G.
 Rosenberg, Abraham
 Rosenberg, Daisy L.
 Rosenberg, Irwin G.
 Rosenberg, Mrs. J. N.
 Rosenberger, Heinz
 Rosenfeld, Ernst
 Rosenfeld, F. M.
 Rosenfeld, J.
 Rosenheim, Mrs. Bertha
 Rosensohn, Mrs. S. J.
 Rosenstiel, Mrs. Lewis S.
 Rosenthal, Mrs. Arthur J.
 Rosenthal, Leon W.
 Rosenthal, Sylvan E.
 Ross, F. J.
 Ross, Mrs. Henry C.
 Ross, Miss Marguerite E.
 Ross, Reuben J.
 Rossano, Augusto T., M.D.
 Rossbach, Mrs. L.
 Rossin, Alfred S.
 Rossmoore, Sara
 Rothbart, A.
 Rothman, Arnold
 Rothman, Richard J.
 Rothschild, Clarence G.
 Rothschild, Simon F.
 Rothschild, Mrs. V. Sydney
 Rothschild, Walter N.
 Rounds, R. S.
 Rounds, Ralph Stowell, Jr.
 Rousmaniere, John E.
 Rowe, Wm. V.
 Rowell, George P.
 Rowland, Mrs. Chas. B.
 Rowland, Thos.
 Rowley, H. S.
 Roy, James Bryant
 Rubel, C. Adrian
 Rublee, Juliet Barrett
 Rubsam, C. William
 Ruckman, Miss Marjorie
 Campbell
 Rudderow, E. Douglas, M.D.
 Rudolph Henry
 Ruhlender, Henry
 Rulison, Mrs. Luenna v. E.
 Rumbough, J. Wright
 Rumbough, Stanley M.
 Rumely, Mrs. Edward A.
 Rumsey, Mrs. C. C.
 Runsheim, Joseph
 Runyon, Edward Wheelock
 Ruperti, Justus
 Rupprecht, Frederick K.
 Rusch, Adolphe, Jr.
 Rusch, Henry A.
 Russek, Isidor H.
 Russell,
 Mrs. Charles Howland
 Russell, Mrs. Henry P.
 Russell, Dr. John F.
 Russell, Marshall
 Russell, Thos. F., Jr.
 Rust, Edgar C.
 Rust, H. N.
 Rutherford, John
 Rutherford, Livingston
 Ryan, Mother
 Ryle, Miss Julia
 Sabin, Charles H.
 Sabin, Florence R.
 Sachs, Arthur
 Sachs, Bernard, M.D.
 Sachs, Harry
 Sachs, Howard J.
 Sachs, Julius
 Sachs, Miss Miriam
 Sachs, Walter E.
 Sackett, Charles A.
 Sage, Miss Elise E.
 Sage, Mrs. Henry W.
 Sage, Mrs. William H.
 St. Clair, Stuart
 St. Damase, Sister
 Sakolski, A. M.
 Saks, Isadore
 Salant, Aaron B.
 Salisbury, Lucius. A, M.D.
 Salm, Countess Maud
 Salmon, Mrs. Walter J.
 Salterini, J. B.
 Saltus, R. Sanford, Jr.
 Sampson, Charles E.
 Samuel, Ralph E.
 Sanborn, Bernice
 Sanborn, Jas. F.
 Sanborn, William A.
 Sand, Alice Low
 Sandford, Mrs. Lisa W.
 Sands, Mrs. B. Aymar
 Sanford, Edwards S.
 Sanford, Francis B.
 Sansome, Mrs. Frederick A.
 Sarafian, S. A.
 Sard, Mrs. Russell E.
 Sarg, F. A.
 Sargent, C. S.
 Saril, August
 Sasaki, Y.
 Satterlee, Mrs. Herbert L.
 Satterlee, Hugh
 Sauer, Rudolph

Saul, Charles R.
 Saunders, Goddard Weld
 Saunders, Helen E.
 Saunders, William Lapham
 Sauter, Fred
 Savage, Theodore F.
 Saxl, Josef, M.D.
 Sayles, Robert W.
 Sayles, Mrs. Robert W.
 Saylor, James C.
 Sayre, Mrs. Wolcott
 Scarborough, Wm. B.
 Schaefer, Mrs. Edward C.
 Schafer, Mrs. Edward
 Schanck, George E.
 Scharmann, Herman F.
 Schauffler, Mrs. A. F.
 Scheel, Henry Van Riper
 Scheel, William H.
 Schefer, A. H.
 Schelling, Ernest H.
 Schelling, Lucie How
 Schepp, Miss Florence
 Scheuer, Arnold L.
 Scheuer, Mrs. Sidney H.
 Schey, Robert
 Schieffelin, Barbara
 Schieffelin, W. J., Jr.
 Schieffelin, Wm. Jay
 Schiele, Lewis
 Schiffer, Jack W.
 Schimmel, Clarence C.
 Schippell, Carl F.
 Schlesinger, Armin A.
 Schleussner, Philip
 Schley, Evander B.
 Schley, Grace V. C.
 Schley, K. B.
 Schlichter, Charles A.
 Schling, Max
 Schmelz, Herman
 Schmelzel, James H.
 Schmelzel, Miss Jane E.
 Schmidt,
 Mrs. Charles Frederick
 Schmidt, Mrs. Mott B.
 Schmidt, Mrs. Wm. H.
 Schmitt, George

Schmuck, Thomas K.
 Schnakenberg, H. Ernest
 Schnepel, Dr. George A.
 Schniewind, Mrs. Elma M.
 Schniewind, Mrs. Ewald H.
 Schniewind, Henrich, Jr.
 Schniewind, Mrs. Henry
 Schoenberg, Mrs. Herman B.
 Scholle, A. H.
 Scholle, Howard A.
 Scholle, William D.
 Schoonmaker, Herbert S.
 Schowe, C. H.
 Schramm, W.
 Schroeder, Henry A.
 Schuler, Charles
 Schüllinger, J.
 Schultz, Mrs. Albert B.
 Schultz, Oswald R.
 Schurman, Mrs. J. G., Jr.
 Schuster, Lionel
 Schuster, R.
 Schwab, Miss Emily
 Schwab, Mrs. H. C.
 Schwab, Katharine Fisher
 Schwartz, H. J.
 Schwarz, Arthur A.
 Schwarz,
 Mrs. Helen Manning
 Schwarz, Dr. Herman
 Schwarz, Max
 Schwarzmann, Marguerite E.
 Schweitzer, Mrs. H.
 Schweitzer, Isidor S.
 Schweizer, Mrs. Raymond J.
 Schwerdtfeger, Otto M.
 Scofield, Miss Marion
 Scott, Charles R.
 Scott, Miss Delia G.
 Scott, Donald
 Scott, Mrs. Frank Hall
 Scott, James R.
 Scott, Major R. T. M.
 Scott, Mrs. Russell
 Scott, Thos. B., Jr.
 Scott, William
 Scovill, Margaret
 Scoville, Herbert

Scoville, Mrs. John H.
 Scoville, Robert
 Scribner, Arthur H.
 Scribner, Charles
 Scripps, Miss E. B.
 Scudder, Antoinette Q.
 Scudder, Edward M.
 Scudder, Hewlett
 Scudder, Myron T.
 Scudder, Willard
 Seabeck, Mrs. M. M.
 Seabrook, H. H.
 Seabury, Miss Eugenia R.
 Seaman, Joseph H.
 Seaman, Louis L., M.D.
 Searles, A. R.
 Seasongood, Clifford
 Seasongood, Edwin A.
 Seckels, Richard
 Seed, Miss R.
 Seeley, Miss Helen
 Seeley, Nathaniel Stevens
 Seeman, Carl
 Seeman, Joseph
 Seibels, Mrs. Edwin G.
 Seibert, Jacob, Jr.
 Seidenberg, Otto
 Seixas, Alice L.
 Selig, Arthur L.
 Seligman, A. J.
 Seligman, Edwin R. A.
 Seligman, Eustace
 Seligman, George W.
 Seligman, Jefferson
 Seligmann, George A.
 Seligsberg, Albert J.
 Seligsberg, Alfred F.
 Semken, Dr. George H.
 Semler, Geo.
 Serpell, Miss Alethea
 Seton, Henry
 Seward, J. Perry, M.D.
 Seymour, Edmund
 Seymour, Henry T.
 Sforza, Miss Christine
 Shailer, Sumner
 Shallcross, Cecil F.
 Shannon, Wm. P.

Shapiro, Simon
 Sharlit, Dr. Herman
 Shattuck, Frank G.
 Shattuck Howard F., M.D.

Shaw, Mrs. James F.
 Shaw, Miss Mary W.
 Shaw, Robert Alfred
 Shaw, Mrs. Wm. N.

Shea, Mrs. William P.
 Sheets, Dr. Elmer A.
 Sheffield, Mrs. James R.
 Shepard, Mrs. Finley J.

Shepard, Marguerite D.
 Shepardson, Whitney H.
 Sheridan, Donald H.

Sherman, Miss Corinne A.
 Sherwin, O. K.

Sherwin, Robert W.
 Sherwood, Mrs. J. K. Ogden

Shibley, Fred. W.
 Shields, William

Shiman, Abraham
 Shipman, Miss Mary L.

Shoemaker, Ernest
 Shoemaker, Henry W.
 Shonk, Herbert B.

Short, Livingston L.
 Shreve, R. H.

Sicard, Hugh Charles
 Sichel, Mrs. Eugene A.

Sicher, Dudley D.
 Sidenberg, Geo. M.

Sidenberg, Richard
 Sidenberg, William R.

Siedenburger, Mrs. R.
 Siegel, Mrs. Alexander B.

Siegel, Benjamin
 Siegel, Jacob

Siegel, William
 Silberstein, Abraham

Sillcocks, Mrs. Henry
 Silver, Rev. H. Percy, D.D.

Silverstein, Al. M.
 Silverstein, Joshua

Sime, Miss Violet Birse
 Simmons, Chas. H.

*Simmons, Mrs. Elizabeth E.
 Simon, Alfred L.

Simon, Clarence K.
 Simon, Franklin

Simon, Horatio S.
 Simon, Leo L.

Simon, Leon Gilbert
 Simon, R. E.

Simonds, Louis B.
 Simonds, Mrs. William R.

Simons, Miss Kate R.
 Simons, Minot

Simonson, Lee
 Simonson, Miss Lucy C.

Simpson, Mrs. Ernest L.
 Simpson, J. A.

Simpson, J. L.
 Sinclair, Charles G., Jr.

Sinclair, Mrs. John
 Singer, Rose M.

Sinkler, Wharton, Jr.
 Sinnigen, Mrs. W. C.

Sisson, William W.
 Sittenfield, Milton M.

Sizer, Mrs. Robert Ryland
 Skeel, Mrs. H. Robertson

Skeel, Mrs. Roswell, Jr.
 Skillin, Augustus H.

Skinner, Alburn E.
 Skinner, Norton

Skinner, William
 Slade, Miss Augusta P.

Slade, Francis Louis
 Slade, Marshall P.

Slater, Mrs. William A.
 Slaughter, Rochester B.

Sleigh, Arthur H.
 Sloan, Benson Bennett

Sloan, Samuel
 Sloan, Mrs. Samuel

Sloane, Henry T.
 Sloane, John

Slocum, H. Jermain, Jr.
 Slocum, Capt. Myles Standish

Slocum, Thomas W.
 Sloss, A. M.

Sloss, Arthur J.
 Smadbeck, Arthur

Smadbeck, Warren
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