

THE SIXTIETH ANNIVERSARY ENDOWMENT OF THE AMERICAN MUSEUM



NEW YORK ACADEMY
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"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."

SIXTIETH ANNUAL REPORT OF THE TRUSTEES
FOR THE YEAR 1928 :: THE AMERICAN
MUSEUM OF NATURAL HISTORY
MAY 1, 1929

SERIAL SCIENTIFIC PUBLICATIONS

BULLETIN of The American Museum:

Volumes I-LVIII, 1881-1928. 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-XXX, 1906-1928. 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. 1-337, 1921-1928. 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.

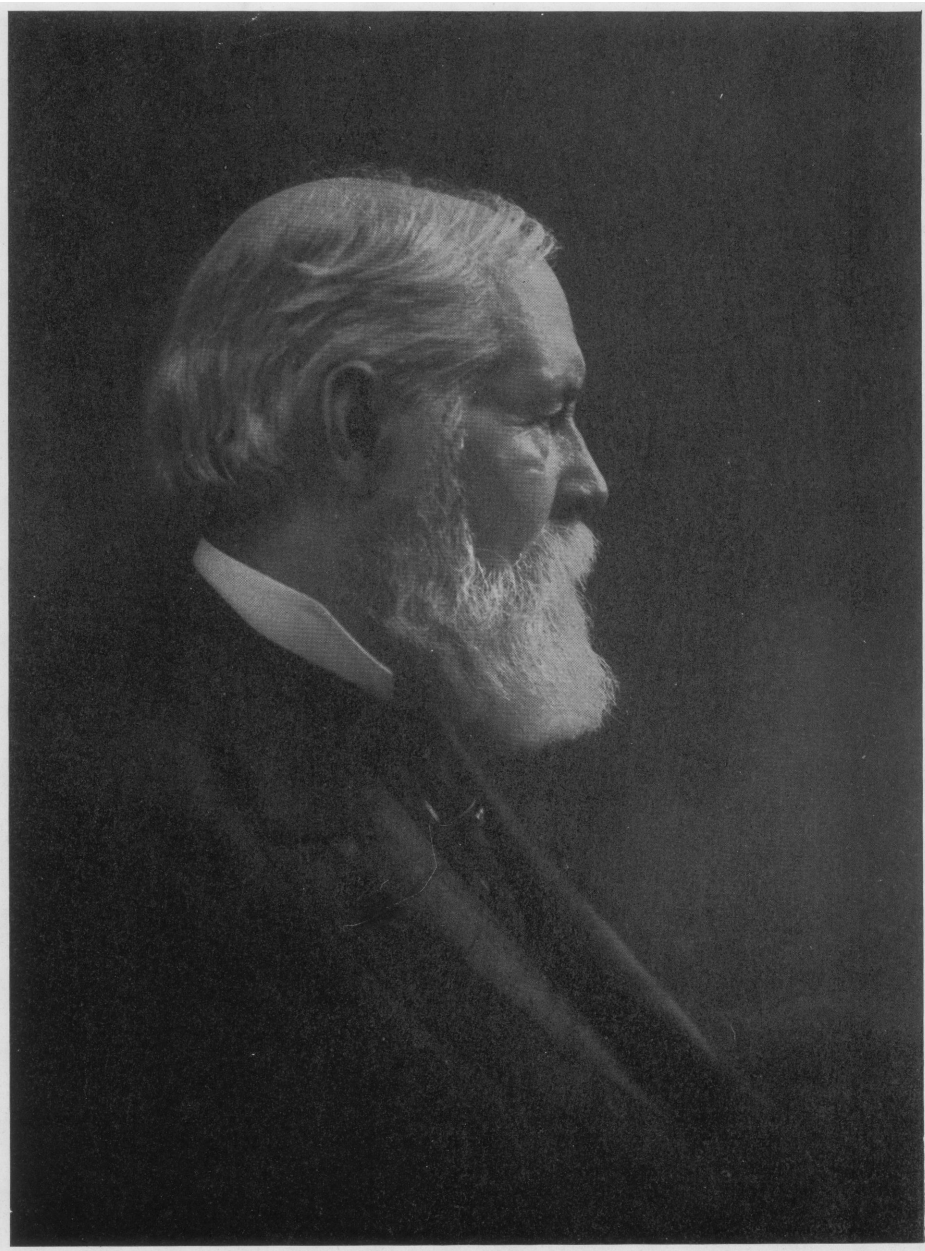
Volumes II, IV, V, VII, VIII and X-XIV constitute the Jesup North Pacific Expedition Series.

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:

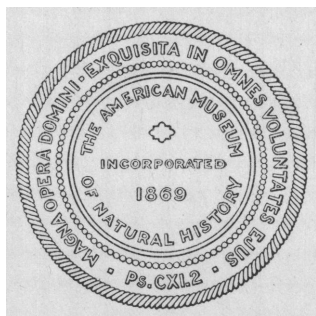
Volumes I-XXVIII, 1900-1928. An illustrated bimonthly magazine devoted to records of scientific research, exploration and discovery, of the development of museum exhibitions and of museum influence on education. Contributors include the scientific staff, explorers and Members of the American Museum and other eminent naturalists. Issued free to all classes of membership, or on subscription \$3.00.

(Publications continued on third page of cover)



ALBERT S. BICKMORE
Organizer of the Plan of the American Museum in 1868
Trustee 1885-1914

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**THE CITY OF NEW YORK
Issued May 1, 1929**



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 1928, 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).

PERMANENT ENDOWMENT

The Endowment Fund was established in 1884. It now amounts to \$13,458,460.42 (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
		BENEFACTOR 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, 1884-1928

In Amounts of \$10,000 and Upwards to \$1,461,372.59

1886	Vanderbilt, William H.....	\$50,000.00
1890	Constable, James M.....	25,000.00
1890	Dodge, W. E. (No. 2).....	10,000.00
1890-1904	Jesup, Morris K.....	225,000.00
1890-1910	Mills, D. O.....	125,000.00
1890-1901	Ottendorfer, Oswald.....	30,000.00
1890-1895	Pyne, Percy R. (No. 1).....	45,000.00
1890	Stuart, Mary (Mrs. R. L.).....	50,000.00
1890	Vanderbilt, C.....	25,000.00
1891	Auchincloss, Hugh.....	10,223.56
1899-1910	Trevor, Emily N. (Mrs. John B.).....	30,098.90
1900	Fiske, Martha T. (Mrs. Josiah M.).....	10,000.00
1904	Havemeyer, H. O.....	25,000.00
1904	Rockefeller, William.....	10,000.00
1907	Davis, Benjamin P.....	22,799.25
1909	Sands, William R.....	10,000.00
1911	Tilford, Charles E.....	25,070.37
1913	Iden, Henry.....	10,000.00
1916	Bondy, Emil C.....	10,000.00
1917	Kitching, Frank W.....	10,043.00
1919	Douglas, James.....	100,000.00
1920	Bridgham, Fanny (Mrs. Samuel W.).....	15,000.00
1920	Juilliard, A. D.....	100,000.00
1920	Juilliard, Helen C. (Mrs. A. D.).....	50,000.00
1920-1928	Sage, Margaret Olivia (Mrs. Russell).....	1,461,372.59
1921	Combe, Louisa (Mrs. William).....	42,172.33
1921-1928	Rhineland, Charles E.....	21,669.25
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
1884-1928	59 contributors less than \$10,000.....	134,483.07
1890-1926	Patronship Fees.....	28,000.00
1890-1926	Fellowship Fees.....	9,000.00
1912-1926	Life Membership Fees.....	81,100.00
		<hr/> \$6,653,811.05

ENDOWMENT FOR SPECIAL PURPOSES, 1890-1928

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 Palæontologic Research Fund</i>	5,000.00
1926-1928	65 contributors: <i>Ralph Winfred Tower Memorial Fund</i>	24,032.00
	Total Endowment December 31, 1928.....	<u>\$13,195,030.55</u>

CASH GIFTS EXCLUSIVE OF ENDOWMENT, 1869-1928

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
1891-1928	Osborn, Henry Fairfield.....	73,795.06
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
	Carried forward.....	<u>\$999,936.26</u>

CASH GIFTS EXCLUSIVE OF ENDOWMENT, 1869-1928
(Continued)

	Brought forward	999,936.26
1898-1918	Juilliard, A. D.	36,143.75
1898-1915	Schiff, Jacob H.	19,250.00
1899-1904	Havemeyer, H. O.	12,400.00
1901-1913	Bowdoin, Geo. S.	28,350.00
1901-1928	Huntington, Archer M.	98,008.94
1901-1928	James, Arthur Curtiss	91,400.00
1901-1928	Pyne, Percy R. (No. 2)	59,343.79
1902-1912	Jesup, Maria DeWitt (Mrs. Morris K.)	83,466.52
1904-1926	Dodge, Cleveland H.	113,180.26
1907-1928	Morgan, J. P., Jr.	293,667.47
1908-1928	Iselin, Adrian, Jr.	27,100.00
1908-1925	Trevor, John B. (No. 2)	20,145.06
1910-1919	Douglas, James.	110,500.00
1910-1928	Mills, Ogden.	149,199.65
1910-1928	Warburg, Felix M.	112,850.00
1911-1922	Cuyler, Thomas DeWitt.	14,750.00
1911-1926	James, Walter B.	11,522.54
1913-1928	Brewster, Frederick F.	40,842.59
1913-1928	University of Illinois.	11,500.00
1914-1928	Baker, George F.	156,200.00
1914-1918	Frick, H. C.	16,875.00
1915-1928	Dean, Bashford.	16,224.05
1915-1927	Ford, James B.	12,951.00
1915-1928	Frick, Childs.	144,893.83
1916-1924	Davison, Henry P.	20,500.00
1920-1926	Douglas, Walter.	10,395.06
1920-1928	Frick, Adelaide (Mrs. H. C.)	37,000.00
1920-1928	Whitney, H. P.	170,000.00
1921-1926	American Asiatic Association and Asia.	30,000.00
1921-1928	Baker, George F., Jr.	56,000.00
1921-1928	Rockefeller, John D., Jr.	70,000.00
1922-1928	Pomeroy, Daniel E.	30,279.22
1922-1928	Pratt, George D.	25,787.65
1923-1927	Vernay, Arthur S.	25,503.00
1924-1928	Field Museum of Natural History.	20,000.00
1925-1928	Carnegie Corporation of New York.	60,000.00
1925-1928	Hay, Clarence L.	11,585.31
1925-1928	Morgan, Junius Spencer, Jr.	12,700.00
1925-1927	Sage, H. W.	23,500.00
1925-1928	Taylor, Irving K.	16,539.41
1926	Burden, Mr. and Mrs. James A.	10,000.00
1926	Eastman, George.	100,000.00
1926-1928	Jennings, Oliver G.	11,400.00
1926	Williams, Harrison.	10,000.00
1927-1928	Dodge Foundation, Inc., Cleveland H.	10,000.00
1927	Stone, Julius F.	10,000.00
1927	Wentz, Daniel B.	25,000.00
1927	Cook, Frances Julia.	20,000.00
1928	Archbold, John F.	10,000.00
1928	Carlisle, G. Lister, Jr.	25,000.00
1928	Carlisle, Leila Laughlin (Mrs. G. Lister, Jr.)	25,000.00

Total cash gifts \$10,000 and upward, 1869-1928. . . . \$3,556,890.36

CORRESPONDING FOREIGN MEMBERSHIP*

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

(Limited to 25)

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

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

†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
SCHOOL NATURE LEAGUE.....	1917
MUSEUM OF THE AMERICAN INDIAN.....	1920
JOHN BURROUGHS MEMORIAL ASSOCIATION.....	1921

INSTITUTIONS WITH WHICH THE MUSEUM IS COOPERATING

ACADEMY OF NATURAL SCIENCES, Philadelphia, Pennsylvania
AGRICULTURAL AND MECHANICAL COLLEGE OF TEXAS, College Station, Texas
ALEXANDER MCGREGOR MEMORIAL MUSEUM, Kimberley, South Africa
AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE
AMERICAN ASSOCIATION OF MUSEUMS
AUSTRALIAN MUSEUM, Sydney, Australia

BISHOP MUSEUM, Honolulu, Hawaii
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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).

SIXTIETH ANNIVERSARY ENDOWMENT

BY PRESIDENT HENRY FAIRFIELD OSBORN

In the midst of suffering and privation and anxiety the pious hand of William Bradford here set down in ample detail the history of the enterprise [Plymouth Colony] from its inception to the year 1647. From him we may learn "that all great and honourable actions are accompanied with great difficulties, and must be both enterprised and overcome with answerable courages."

PLIMOTH PLANTATION, p. lxxii.

"Blessed is the true worker, the creative man, great hearted, clear seeing, lover of light and not of darkness, of order and not of chaos, of truth, of justice and withal of labor."—THOMAS CARLYLE.

"Observation, originality, the moral and intellectual foundations of creative ability do not begin in the life of the university, college or high school, but in the dawn of the original powers of the mind, in the early years of life, to be encouraged and cultivated as life goes on in order to attain the fullest and highest development for the advancement of the physical, moral, intellectual and spiritual welfare of man. This is the new and unique program of the American Museum, to foster these powers from the period of school life into the most advanced periods of the university and higher research phases of education. It is for this program that the American Museum needs its Sixtieth Anniversary Endowment."—HENRY FAIRFIELD OSBORN.

APRIL 6th, sixty years ago, the American Museum of Natural History came into being by an Act of the Legislature of the State of New York. Eloquent testimony to the vision, wisdom and patriotism of its founders is afforded by the remarkable growth of the institution from its temporary quarters in the old Arsenal on Fifth Avenue to its present building of fifty exhibition halls equipped or planned, its fifteen acres of floor space, its educational influence in all parts of the civilized world, its field explorations and published researches, and the ever increasing public appreciation and response both at home and abroad. We now find ourselves in the condition of growth which the French aptly characterize as *embarras de richesse*, riches not of the pecuniary sort but riches of nature, of scientific personnel, of the mind, and of educational resources which we are unable to make even half effective because of want of capital or working funds. The present 60th Annual Report is devoted to the matter of most pressing concern—namely, the increase of our endowment funds to yield an income adequate to make our present vast educational equip-

ment fully effective instead of about half effective as it is at the present time. The growth of endowment has by no means kept pace with the growth of our collections or of our educational responsibilities.

THE NEW INTENSIVE EDUCATIONAL PROGRAM

From the early years of our history, men of scientific eminence have strengthened the staff of the American Museum and in recent years appointments and advances have been made to men not only of high field exploration and Museum standing but of high college and university scholarship and training as educators. Nation-wide appreciation of American Museum scholarship is evidenced by the calls which our curators are constantly receiving from leading educational institutions of the land—Columbia University, New York University, the University of California and the University of Chicago. Members of our staff are now giving lecture and laboratory courses in and out of the exhibition halls to advanced students of Columbia University, of New York University and of the College of the City of New York. Under our contract of 1878 it was agreed: That the City shall establish, build and maintain; 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 and on the same terms and conditions as any other persons are admitted to such advantages, as aforesaid.

Not only has this agreement been carried out but through our Museum educational extension system, as reported below by Dr. Sherwood, our educational influence has been extended through the elementary and high schools on a scale hitherto undreamt of, not only within the City of Greater New York but to the surrounding cities and villages within the thirty-mile radius. On the average the mind and life of every school

boy and school girl in this city are touched fourteen times every year by Museum influence in nature, in civics, in public health, and in the arts which draw their inspiration directly from nature.

Intensive high school and college work to qualified, promising and advanced students is the next great step toward which we are reaching. As our colleges all over the country are introducing the honor course system, we are planning with the Board of Education to offer Museum honor courses for several hours weekly of quiet and deliberate observation, drawing and study, within the exhibition halls, temporarily shut off from the public. This intensive system will replace the present brief, hurried examination and casual observation in certain of our more popular exhibition halls such as the Darwin Hall of Biology, the new Hall of Reptiles and Amphibians, the Hall of the Age of Man, and the Hall of Minerals and Gems. The most universal fault in American educational systems of the present day is superficiality. Time is not allowed for prolonged, quiet, intensive study, original observation and note-taking. The easiest route to pass grade examination is through text book and a good memory, but this is in no sense *education*. Whereas direct original observation and draughtsmanship leave a permanent record in the mind, train the eye and hand and are of an enduring character, the pass-examination system is purely a temporary brain exercise. Overtures are now in progress between Dr. Sherwood and Dr. Straubenmüller, Associate Superintendent of Schools of the City of New York, and between President Osborn and President Ryan of the Board of Education to establish *observational* Museum courses as special rewards to exceptional students entitling them to more rapid promotion in their school and college standing.

The third great step forward is to extend similar opportunities in our exhibition halls and smaller lecture rooms for graduate students rising to the Master's and Doctor's degrees in science.¹ The lectures of high university grade

¹It is not suggested that the American Museum shall award degrees. It is suggested that the American Museum shall extend and enlarge its present system of cooperation in qualifying students for the higher degrees to be awarded by Columbia University, New York University, the College of the City of New York, and other degree-conferring institutions.

which have been given in the Laboratories of Palæontology and Comparative Anatomy by Professor Osborn and his successor in Columbia University, Professor Gregory, also those by Professor Boas and the late Curator Goddard have been productive to an extraordinary degree of original research and training of highly qualified Doctors of Science who are in great demand by higher institutions of learning throughout the United States as teachers and heads of departments. It is now proposed with the approval of the State University to extend this cooperative higher educational system of the Doctor of Philosophy grade in anthropology, in palæontology and in biology, to be followed by intensive advanced instruction in other departments as rapidly as the facilities can be afforded and very high grade instruction organized. This plan is not entirely new in the United States. It has already been instituted in some of the museums attached to the great universities, notably, the Museum of Comparative Zoology of Harvard, the Peabody Museum of Yale, the Museum of Geology and Palæontology of Princeton, and the Museum of the University of Chicago. But in New York entirely new conditions have arisen. It is impossible for even a great and wealthy institution like Columbia to maintain museums of its own, and under President Low the policy was established of withdrawing from the museum field and transferring collections to the American Museum, as in the case of the great Newberry collection of fossil fishes, which is now a memorial to the late Bashford Dean.

The Museum as a higher educational center has its most distinguished and ancient prototype in the *Musée National d'Histoire Naturelle* of Paris which from the period of its foundation under the first French Republic has been a strong consort to the University of Paris, then numbering among its curators and professors some of the most distinguished names in the scientific history of France, such as Buffon, Cuvier and Lamarck. Through the inspiration given by these great foundations of natural history in the western world, France rapidly rose to the leadership in natural sciences. Even to the present day numerous courses of important lectures in palæontology, in archaeology and in

other branches of science, illuminated by the collections of this famous old museum, are being given by such eminent men as Dr. Marcellin Boule. The wonderful impulse which France gave through these direct observational courses in natural history within the very walls of her museums has now been repeated in our own American Museum during the past thirty-eight years, especially in the fields of comparative anatomy and palæontology and to a less extent in the field of anthropology.

Through its world-wide exploration in every subject embraced within the broad field of natural history and in its well arranged and planned exhibition halls, the American Museum offers opportunities infinitely superior to those of the ancient museum of Paris and fully equal to those of any museum in the world today. In all the branches embraced within the pre-history of the earth, our educational facilities are without rival. Eminent zoologists who attended the recent meeting of the American Association for the Advancement of Science remarked, "We can do no better than to send our students in to the Darwin Hall to learn their zoology." They might have added, "to the great Halls of Vertebrate Palæontology to learn the principles of evolution as displayed among extinct animals, to the newly arranged Hall of Reptiles and Amphibians to learn the principles of evolution as displayed among living animals."

Of the fifty exhibition halls now planned, the greater number present a well-ordered epitome of a century of exploration and research, the actual arrangement of which has occupied from ten to fifteen years of highly trained curatorial supervision, for example, the Hall of the Age of Man has actually been fifteen years in preparation, bringing it up to its present high point of educational efficiency, of great popular interest as well as of profound scientific interest to students. It is regarded by experts as the best exposition of this great subject, the evolution of man, in the world today.

In the morning hours when the number of visitors is limited, special arrangements may be made for advanced observational instruction independently conducted by instructors of the American Museum staff, from the College of the City of New York, New York University, Columbia

University, Hunter College and the many high schools of the city in any one of the following exhibition halls:

SUBJECT ARRANGEMENT OF EXHIBITION HALLS

(Floor numbers in Roman numerals. Section numbers in Arabic numerals)

ASTRONOMY

- *Meteorite Hall, Floor I, Section 7.
- Astronomy Corridor, I, 2.

HISTORY OF THE EARTH

Minerals and Gems, IV, 4 (Morgan Hall).

Geology of America, IV, 1.

Age of Invertebrates, IV, 1.

*Age of Fishes, IV, 13.

*Age of Amphibians, IV, 13.

First Age of Reptiles, IV, 9.

Age of Dinosaurs, IV, 9.

Age of Marine Reptiles, IV, 5.

Age of Mammals, IV, 3.

(Osborn Hall).

Age of Man, IV, 2.

Age of the Horse, IV, 2. (Corridor)

BIOLOGY, BOTANY AND ZOOLOGY

Woods and Forests of North America, I, 3.

Darwin Hall of Biology, I, 5.

Mollusca, I, 10.

Fishes of the World, I, 9.

Reptiles of the World, III, 9.

Insects of the World, III, 5.

BIRDS AND BIRD LIFE

Birds of the World, Systematic, II, 1.

Bird Groups of the World, II, 2.

Bird Groups of North America, III, 1.

Audubon Gallery, II, III, 2.

Birds of the Vicinity of New York, II, 2. (Burroughs Corridor)

*South Oceanic Birds, II, III, 19.
(Whitney Hall)

MAMMALS

Mammals of the World, III, 3.
(Buffon Hall)

*Land Mammals of the World, I, 13.

North American Mammals, II, 3.
(Allen Hall)

North Asiatic Mammals, II, 5.

South Asiatic Mammals, II, 9.

*African Mammals, II, III, 13.

*Oceanic Mammals, Sub. I, 10.

Primates, III, 2.

ARCHÆOLOGY, ANTHROPOLOGY, ETHNOLOGY, HUMAN ANATOMY

*Aztec and Toltec, I, 14.

*Maya, II, 14.

*Central American Culture, III, 14.

Ancient Peru, II, 8.

Prehistory of South America, II, 6.

Prehistory of North America, II, 4.

Northwest Coast Indians, I, 1.

*California and Plateau Indians, I, 15.

Indians of the Southwest, I, 8.

Indians of the Plains, I, 6.

Indians of the Eastern Woodlands, I, 4.

*South American Tribes, II, 15.

*Australia, III, 15.

South Seas, IV, 6.

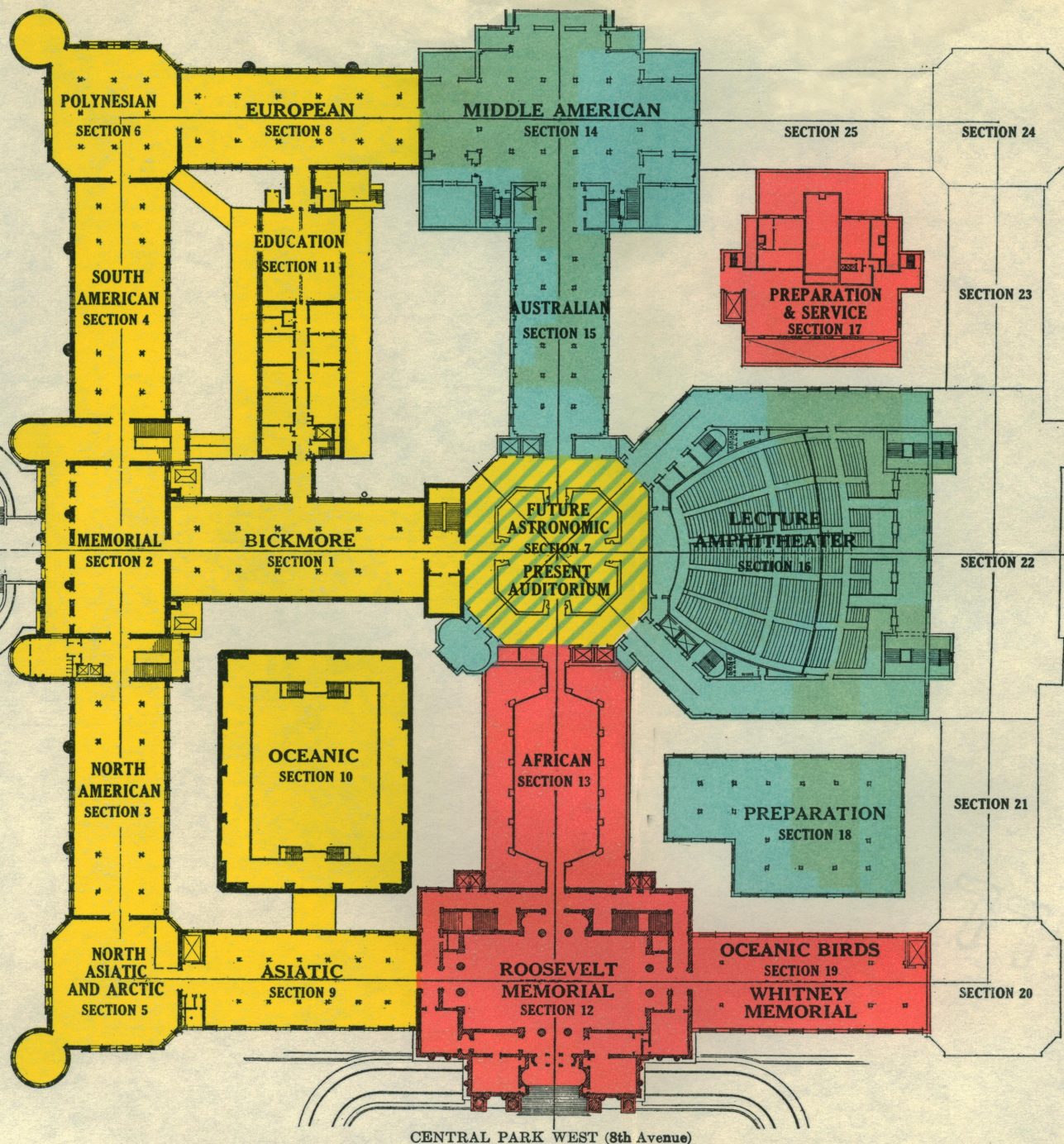
Philippines, IV, 8.

China and Japan, III, 6.

*Siberia, IV, 15.

African Ethnology, III, 8.

*New Sections in Course of Construction. The same subjects of instruction are at present accessible to instructors and students in the older sections of the Museum.



THE AMERICAN MUSEUM OF NATURAL HISTORY
and THE NEW YORK STATE ROOSEVELT MEMORIAL

Yellow; Eleven American Museum Building Sections Completed. Red: Four Building Sections Ready for Construction by the City and State of New York. Blue and Blue-hatched: Five Sections Partly Planned, Awaiting Donations as Gifts to the City of New York, or Future Appropriation by the City of New York.

To carry out this new intensive system of education from the high school to the highest university grade and to afford the fullest facilities in the way of equipment, assistance to the instructors, tables and note-taking facilities to the students, will require a very considerable sum of money which is included in the plan of expenditures of the Sixtieth Anniversary Endowment Fund inserted below (page 10). This is properly a Trustee expenditure, since the city will be called upon to support the rapidly increasing expenditures in the extension of Museum work to the secondary schools.

THE SIXTIETH ANNIVERSARY ENDOWMENT

The City maintenance appropriations have risen from \$12,500 in 1878 to \$455,956.66 in 1929. This increase in the City's maintenance appropriations is partly proportional to increased size of the Museum, increased exhibition halls now rising to an unprecedented large area open to the public, and they must steadily increase, as new sections are added, at the rate of about \$25,000 annually per section. These increases have been willingly granted by the City because of our rapidly increasing public service, our vast public educational extension system and the intense public interest and attendance aroused by new collections and expeditions and by the opening of new exhibition halls. During this first period the City authorities were not thoroughly aroused to the fact that the Museum is an integral part of the City's great educational system. Even now the amount contributed to the Museum annually for education is a mere fraction of the \$120,000,000 allotted to the annual free school and college system of the City.

During the first thirty-eight years of the life of the American Museum—namely, between 1869 and 1908, terminating with the decease of President Jesup in January, 1908—the chief financial burdens of the Museum, including operating expenses, gifts of collections and additions to the endowment, were almost entirely borne by the Trustees with relatively limited aid from the City for maintenance funds. At the close of President Jesup's administration the income from endowment was only \$49,905 but starting with the superb bequest of President Jesup increased by Mrs. Jesup to a total

of over six million dollars the annual income from endowment has risen in the year 1928 to \$635,073.30.

The Total gifts to endowment by Trustees, friends and members of the Museum in this twenty-one year period amount to \$11,410,303.81. Meanwhile the total gifts to expeditions, to collections, and miscellaneous donations by the Trustees, friends and members of the Museum amount to \$3,786,669.52.

Our present endowment is not sufficient to take care of these gifts. Whereas, as stated, up to the close of President Jesup's administration the chief financial burdens of the Museum were borne by the Trustees with relatively limited aid from outside sources, during the present administration, under a very broad, liberal, progressive scientific and business policy, under incessant publicity in the daily and weekly news and in the illustrated press extending over the entire world, the interest of friends and members in all parts of the United States and many parts of the civilized world has been aroused to an extraordinary degree. Thus the gifts of friends and members during the period 1908 to 1928 now considerably exceed the gifts of Trustees, generous as the latter have been:

1908-1928 Gifts by friends and members of the Museum.....	\$2,009,282.46
1908-1928 Gifts by Trustees of the Museum.....	<u>1,777,387.06</u>
Total gifts to the collections, exhibitions, publications of the twenty-year period.....	\$3,786,669.52

These munificent gifts by friends, members and Trustees, however, involve greatly increased expenditures both for custodianship and for preparation and exhibition. But the increased expenditure really most essential for the progress of science and the real underlying welfare of the institution is for *the essential scientific research and publication of materials new to science contained within these vast collections*. It is most essential, in order to relieve men capable of brilliant additions to human knowledge, that increased financial provision be made, to secure curatorial aid of younger men

December 31, 1928

ANNUAL FINANCIAL RECEIPTS 1908-1928 (OTHER THAN GIFTS OF COLLECTIONS, OF NEW ENDOWMENT AND MUNICIPAL CORPORATE STOCK)

	Contribu- tions of Trustees	Contribu- tions of Members and Friends	Total Financial Contribu- tions	Member- ship Fees	Sale of Publica- tions etc.	Income from Endowment	Other Income	City of New York	Total Annual Receipts
1908	31,142.63	36,700.40	67,843.03	18,325.00	1,776.58	49,905.00	1,261.31	159,930.62	299,041.54
1909	31,700.00	32,818.73	64,518.73	25,745.00	2,056.09	99,851.25	4,657.80	179,999.60	376,828.47
1910	50,225.00	13,408.33	63,633.33	23,215.00	3,887.25	92,832.52	5,649.41	185,757.00	374,974.51
1911	60,314.39	23,991.39	84,305.78	24,000.00	1,857.90	107,050.63	2,724.23	189,757.00	409,695.54
1912	91,975.00	33,144.25	125,119.25	25,265.00	3,714.58	108,239.72	3,071.31	195,000.00	460,409.86
1913	75,186.85	22,893.12	98,079.97	26,535.00	7,313.58	109,935.95	2,466.91	200,000.00	444,331.41
1914	62,993.75	7,964.50	70,958.25	27,220.00	5,287.79	107,860.79	2,599.67	200,000.00	413,926.50
1915	56,500.00	16,350.00	72,850.00	28,690.00	3,814.77	174,586.29	6,312.30	200,000.00	486,253.36
1916	165,627.50	11,497.73	177,125.23	29,344.00	4,698.62	238,762.95	8,716.04	212,999.00	671,645.84
1917	73,508.94	2,515.00	76,023.94	32,084.00	5,309.57	325,968.92	8,713.16	212,700.00	660,799.59
1918	53,530.00	2,350.00	55,700.00	30,508.00	8,967.29	334,993.73	8,180.71	225,000.00	663,349.73
1919	23,350.00	8,005.97	31,355.97	37,665.00	12,798.36	332,520.49	9,630.19	200,000.00	623,970.01
1920	48,650.00	27,964.17	76,614.17	36,326.00	11,639.14	416,612.13	15,612.43	310,983.13	867,787.00
1921	155,724.48	50,585.28	206,309.76	39,619.00	12,561.35	385,130.21	23,891.43	351,547.46	1,019,059.21
1922	90,050.00	55,598.61	145,648.61	43,235.00	10,361.99	450,512.12	37,053.70	344,498.77	1,031,310.19
1923	60,850.78	49,181.00	110,031.78	47,316.00	11,812.53	495,949.35	36,325.13	342,313.36	1,043,748.15
1924	121,533.96	102,130.78	223,664.74	48,095.50	13,946.87	521,560.32	33,420.42	342,320.28	1,183,008.13
1925	123,195.08	90,250.82	213,445.90	53,058.00	14,961.56	497,242.31	35,886.27	350,940.96	1,165,335.00
1926	124,750.00	248,787.03	373,537.03	55,296.00	16,447.74	577,530.06	48,286.72	368,547.22	1,439,644.67
1927	108,264.26	182,980.17	291,214.43	70,036.00	15,023.01	581,645.61	47,056.90	410,121.29	1,415,097.24
1928	168,494.44	192,769.68	364,264.12	75,848.00	17,949.48	635,073.30	25,304.88	452,374.12	1,567,813.90
	<u>1,777,387.06</u>	<u>1,211,856.96</u>	<u>2,992,244.02</u>	<u>797,425.50</u>	<u>186,186.05</u>	<u>6,643,763.65</u>	<u>366,620.82</u>	<u>5,634,789.81</u>	<u>16,618,229.80</u>

to conduct the more or less mechanical scientific care and cataloguing of these great collections.

Thus our present total endowment of \$13,458,460.42 at the close of the year 1928 falls very far short of the endowment absolutely essential to properly take care of these magnificent new gifts of \$3,786,669.52 from friends, members and Trustees. The essential new sum at present estimated by the Treasurer with the aid of the Bursar and the Director is \$10,000,000 in addition to the present endowment and recent bequests which have not already come into the hands of our Treasurer.

*Estimated Disbursements of Annual Income from New Sixtieth
Anniversary Endowment of \$10,000,000*

1. For the restoration of a balance in existing operating expenses of the Museum and thereby eliminating the annual deficiencies which for several years it has been necessary to raise by subscription.....	\$150,000
2. 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
3. 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
4. For <i>permanent</i> support of exploration, research and publication now largely dependent on special gifts.....	50,000
5. For the purchase of books new and old for the library. Books are essential tools for carrying on all researches.....	15,000
6. For additional assistance for curators and other highly trained productive research workers so that their time may be given to research and publication.....	25,000
7. 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.....	75,000
8. For preparation of exhibitions and collections to render the highest educational service to students and to the visiting public.....	50,000
9. Reserved for the development of future plans in connection with the addition of four new building sections to the institution.....	60,000
	\$500,000

SERIOUS DELAY IN SCIENTIFIC PUBLICATION

The President is very seriously concerned about the delay in the preparation of the reports upon the scientific work of the Museum, especially the reports of expeditions which have been donated with great liberality and in good faith with the expectation that important and permanent scientific results would flow out from them. In fact, the first and most important of these series of reports are those of the Jesup North Pacific Expedition which was projected by Professor F. W. Putnam under President Jesup's administration, to which Mr. Jesup devoted the closing years of his life and for which he provided amply in his great gift to our Endowment Fund. It was expected that this expedition would settle the question of the peopling of North America by Asiatic tribes.

There are now five major series of special serial publications which have not yet been completed, as follows:

1. *The Jesup North Pacific Expedition Publications*. Volumes I to XI, nine volumes complete, one paper remaining for Volume IV, and the general summary by Professor Boas for Volume XI. The gift of Morris Ketchum Jesup.

2. *The Zoology and Natural History 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 Expeditions for the Collection of Oceanic Birds*. Volumes I to II, in preparation. The gift of Mr. Frederick F. Brewster and Dr. Leonard C. Sanford.

4. *The Central Asiatic Expeditions*. Volumes I to XII projected; Volume II, "Geology of Mongolia," completed; Volume III, "Geology of Mongolia," and Volume V, "The Permian Fauna," manuscript nearly ready for the printer.

5. *The Whitney South Sea Expeditions*. The gift of Mr. Harry Payne Whitney, resulting in one of the most superb collections of oceanic birds in the world and awaiting scientific description and publication.

With the completion of these various Series and the advancement of our Bulletins and Memoirs, the full scientific

value of our priceless collections from all parts of the world will be realized. Scholars in every country are awaiting these reports. While in certain cases it is found that the delay is due to lack of energy and concentration on the part of those who have undertaken to write these missing volumes, in other cases it is found that the time of the curators has been too much taken up with the details of departmental administration and with the care of vast incoming collections and that men of great talent as writers and investigators are doing work which should be delegated to assistants.

A real and very serious emergency exists in the scientific progress of the Museum which it is essential to remedy by an immediate increase of endowment. To meet the present emergency, however, in the present year of 1929, a special research and publication fund must be raised to give our curators the clerical and departmental assistance which they need.

While this delay in the publishing of certain of the researches is a very serious matter and is depriving workers in science of these important results of the Museum's expeditions, the Museum on the other hand has been distributing a vast store of new knowledge to four hundred libraries and institutions of science and learning throughout the world through its regular publications.

These researches are issued in the following types of publications:

1. The BULLETIN. A publication 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-LVIII.

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-XXX.

3. MEMOIRS of the American Museum. 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 thirty-seven 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-eight 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.

Through these media the Museum is yearly making valuable contributions which are increasing the fund of human knowledge.

INTRODUCTION OF EXPERIMENTAL BIOLOGY

A serious crisis in the history of the American Museum arose last year when Curator G. Kingsley Noble, who had just completed the admirable arrangement of the Hall of Reptiles and Amphibians along entirely novel biological lines to illustrate principles of adaptation and of evolution, received in succession calls to two of the most important universities of the country—Columbia and Cornell—to head the instruction and research in the branches of experimental biology and physiology which have made such strides in America and throughout the world during the last few years. The Trustees were faced with the alternative of losing the services of Dr. Noble or of creating within the Museum a new Department of Experimental Research. The sentiment, among the younger members of the Board especially, was unanimous, and by means of very active effort, aided by the President, this new division of the work was planned and proper provision was made for future experiment and research in the Department of Herpetology. Under these circumstances Dr. Noble decided to decline these very tempting offers and to continue within the Museum the lines of experimental work in which he has already achieved very important results.

Provision is being made to insure not only the equipment

but the adequate endowment for assistants. At the same time it is felt by the younger members of the Board and by the President as well as by several members of the scientific staff that the biological value of the exhibitions in many of our halls can be enhanced by very careful coordinated study. The visitor to the Museum, confronted by the vast display of natural phenomena, finds himself continually asking why and how all these wonders have come into existence. Why is the zebra striped; the whale enormous; the insect always small? Why are some birds brilliantly garbed in both sexes, and other species only in one? What processes have made any species different from any other? Such fundamental problems are being attacked by zoological laboratories, especially those in universities, and revolutionary advances have been made during recent years in this general biological field.

As these problems apply to every Department of the Museum, and yet require a special technique of investigation, the President and the Trustees have changed the scope and name of the Department of Herpetology to cover Experimental Biology as well. The new Department has already made important discoveries concerning the relation of the endocrine glands to certain species of Amphibia, and has extended the work to fish. Within the year the great importance of the stimulus of light in maintaining the well-being of the eyes has been clearly demonstrated in the case of certain cave animals. Many species of animals are defined by differences of dentition, and the new Department has taken up a study of the factors controlling tooth forms. The dependence of some of these differences on certain hormones has been demonstrated during the year. A specialized type of piercing tooth was made to give rise to a more primitive crushing tooth by removing the sex hormone from an adult animal. The Department is extending such studies and experiments to other animals and to other structures. It has been established, for example, that the secretion of the anterior lobe of the pituitary gland controls the growth of the long bones. Does, therefore, a giant species of mammal or salamander differ from its nearest relatives of smaller size merely in having inherited a large pituitary? By applying the results of the Museum and the university laboratories

to wild species of animals, important contributions to our knowledge of the mechanism of life and evolution may be expected.

**TRIUMPH OF THE TWENTY-YEAR BUILDING PROGRAM,
1910-1929**

See the enfolded color map, facing page 6

Nineteen years ago the President laid before the Trustees¹ the plan of the African and Grand Entrance Halls facing Central Park West. Fifteen years ago² the future African Hall plan of Carl E. Akeley was presented to the Trustees. Ten years ago, January 6, 1919, Theodore Roosevelt passed away and shortly thereafter two leading newspapers, the *Times* and the *World*, suggested a memorial connected with the Natural History Museum. The President immediately took up this project with the political leaders of the City and State, resulting in the appointment of the Roosevelt Memorial Commission, June 3, 1920, by Governor Smith, who nominated President Osborn as Chairman. The ensuing years were crowded with difficulties which often seemed insurmountable, with repeated delays and disappointments, ending finally, as in the case of the Plymouth Colony quoted at the beginning of this Sixtieth Report, in the complete triumph of the American Museum building program as first set forth in the year 1910.

The difficulties besetting the African Hall plan also seemed insurmountable; after years of delay and disappointment the President had the satisfaction of seeing Mr. Akeley's great million-dollar scheme crowned with appreciation and success, but there still remained the political concurrence necessary to provide the building. Meanwhile two very important advances in the building program remained. First, it was found absolutely necessary to erect a Preparation and Power Building in the west court, since our present service plant is crowded to its full capacity; plans for this building were nearly two years in preparation. Second, and

¹"The American Museum of Natural History, its Origin, its History, the Growth of its Departments," February 14, 1910, page 138.

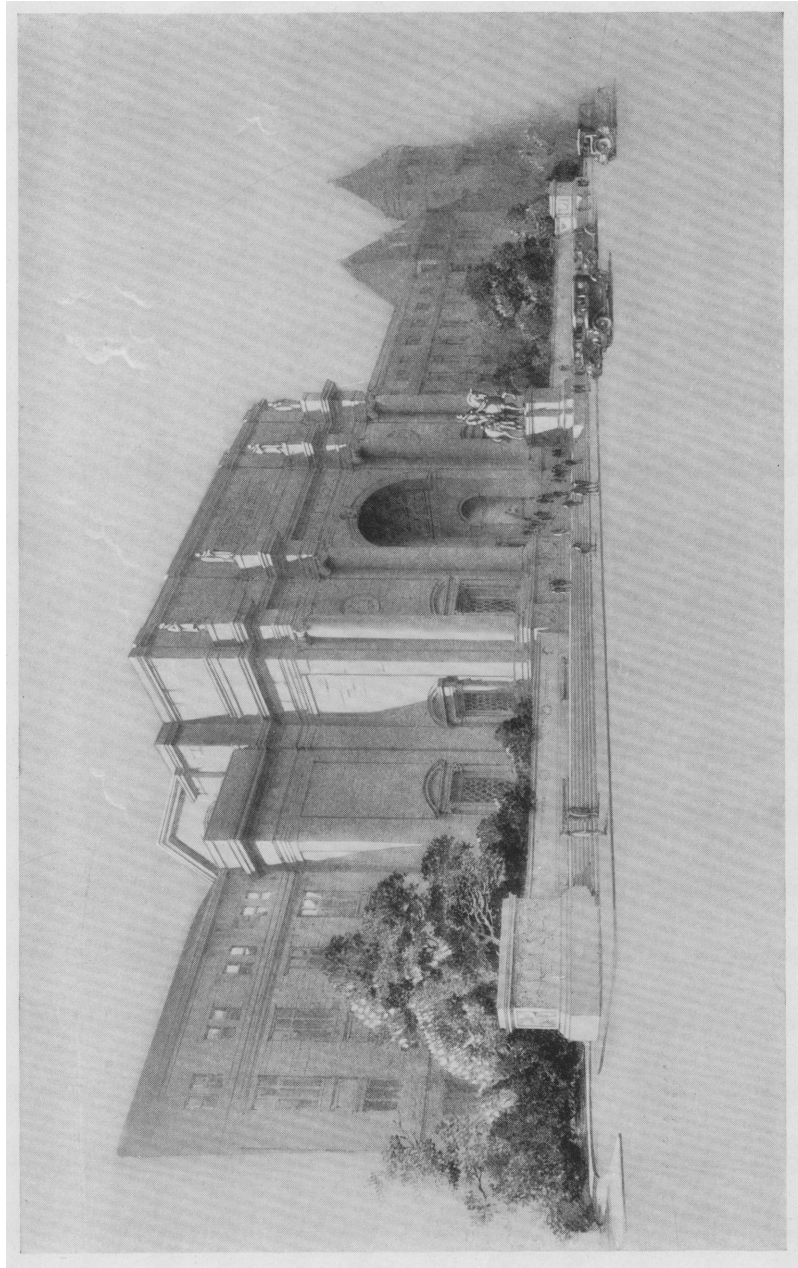
²Forty-sixth Annual Report of the President, page 30.

of far greater scientific moment, there came the offer of Mr. Harry Payne Whitney of \$750,000, conditional on a similar amount being contributed by the City, to erect the South Oceanic wing as a memorial to his father, Mr. William C. Whitney, a former Trustee of the Museum. This generous offer proved to be most opportune, for it awakened in the City a new interest in the twenty-year Museum building program.

Finally the President, as Chairman of the Board of Trustees of the New York State Roosevelt Memorial, held a series of conferences (January 3 to January 15, 1929) with Governor Franklin D. Roosevelt, and the four leading officers of the State Legislature: Senator John Knight, Temporary President of the Senate; Senator Charles J. Hewitt, Chairman of the Finance Committee of the Senate; Honorable Joseph A. McGinnies, Speaker of the Assembly, and Honorable Eberly Hutchinson, Chairman of the Ways and Means Committee of the Assembly. After a full history and discussion of the Roosevelt Memorial movement, Governor Roosevelt and the legislative leaders unanimously agreed that the sum of \$1,000,000 be placed in the 1929 budget to be used to start construction, and that additional moneys for continuing the work be included in the budgets of 1930 and 1931. Furthermore, the opinion was expressed by those present that it might be possible to allocate the entire amount needed for completion in 1930.¹

Meanwhile President Osborn had carried forward the concurrent construction plan of the City and State buildings put forward by Mayor Walker at a full meeting of the Board of Estimate and Apportionment January 8, 1928; the architects and engineers of the Roosevelt Memorial and of the African and Power and Service Buildings completed both sets of plans

¹These agreements were reached in the State Capitol on January 15, 1929, at a formal conference. At this conference Chairman Osborn of the Roosevelt Memorial Board of Trustees made it very clear, first, that the City of New York had on January 8, 1928, adopted the policy of concurrent construction; second, that whereas the original Roosevelt Memorial design without subway connections could have been constructed for \$2,500,000, the present design, while of the same cube, could not be constructed for less than \$3,250,000, owing to advances in cost of materials, and the subway connections and other essential features not embodied in the original plan.



THE NEW EAST FAÇADE OF THE AMERICAN MUSEUM
THE NEW YORK STATE ROOSEVELT MEMORIAL
To be erected by the State of New York

so as to make a harmonious whole both in measurement and in administrative detail. These plans will soon be ready for letting and contracts to the extent of the respective appropriations by the City and by the State.

The following figures show the splendid results of a union of liberal and generous citizenship with wise statesmanship:

Total Contributions by Trustees and Members of the American Museum to the African Hall, 1910-1932.....	\$866,000	
Contributions of Mr. Harry Payne Whitney to Bird Collections from the South Oceanic Islands, 1917-1929.....	180,000	
Bird Preparation Work by the Morris K. Jesup Fund.....	50,000	
Gift of Mr. Harry Payne Whitney toward the Building of the South Oceanic Section to contain the Whitney Hall of Birds.....	750,000	
Prospective Appropriation by the State of New York for the Roosevelt Memorial.....	3,250,000	
Grand Total of Contributions.....		\$5,096,000
Present and Prospective Appropriations by the City of New York toward the Construction of the South Oceanic Section in addition to the Gift of Mr. Harry Payne Whitney.....	750,000	
For the Construction of the African Hall (Section 13).....	1,450,000	
For the Construction of the Power and Service Building (Section 17).....	1,050,000	
For Case Construction and Equipment.....	110,300	
Total Present and Proposed Appropriations by the City.....		3,360,300
Grand Total of Gifts and Appropriations for the Advancement of the American Museum Building Program.....		<u>\$8,456,300</u>

Thus by entirely harmonious and concurrent action between the State of New York and the City of New York, stimulated by munificent gifts to the African Hall collections between the years 1910 and 1929, including also contributions from the Morris K. Jesup Fund for the preparation of these collections rising to a total of \$866,000, the whole twenty-year movement initiated in the year 1910 comes to a triumphant close and marks the greatest single advance made in provision for nature education in the history of this country.

FIELD EXPLORATION OF THE YEAR 1928

There were twenty-eight expeditions in the field during the 1928 season, donated wholly or in part by friends who wish to assist in varying degrees in the world-wide work for education, science and culture which our institution is carrying on. The President briefly summarizes these expeditions as follows:

1. *The Central Asiatic Expeditions.* Under the leadership of Roy Chapman Andrews, the Central Asiatic Expedition is in the eighth year of its brilliant work, two of these having been interrupted by civil war in China. During 1928 the expedition covered 5,000 miles in Mongolia, mapped a large portion of new country, discovered new geological formations and fossil deposits. Residence sites of Dune Dwellers were located with thousands of stone and bone implements. Noteworthy among the finds was the skull of an exceedingly large rhinoceros-like animal and the lower jaw of a mastodon having huge lower tusks flattened in a shovel effect which measured thirteen inches across. At the end of the season ninety cases of fossils were shipped from the field. Preparations for the season of 1929 are now going forward.

2. *Stoll-McCracken Siberian-Arctic Expedition.* This expedition left in April, 1928, and visited Alaska and the Aleutian Islands, collecting some fine specimens of brown bear, caribou, Sitka black-tailed deer, study skins and the material for the Pacific Walrus Group for the Museum. Among the objects of popular interest brought back were four mummified bodies of Aleutian natives found buried according to ancient rites. The expedition was financed by Mr. Charles H. Stoll.

3. *Vernay Expeditions.* The Faunthorpe-Vernay Expedition went to India in 1923 to collect large mammals for the Asiatic Groups. The expeditions continued during 1924, 1925, 1926, and in 1927 Mr. Vernay sent Messrs. Butler and Rosenkranz of the Department of Preparation to India to secure field studies and, if possible, specimens of the *Rhinoceros sondaicus* to complete Museum groups. On the return from India, Messrs. Butler and Rosenkranz stopped in Angola, East Africa, to make further field studies and obtain

specimens of the sable antelope for the African Hall. The Museum is greatly indebted to Mr. Vernay for his splendid efforts to supply the Asiatic Hall with the larger mammals of India.

4. *Carlisle-Clark African Expedition.* The members of this expedition left New York in May under the leadership of G. Lister Carlisle, Jr., accompanied by James L. Clark, Assistant Director in Charge of Preparation. The party started from Nairobi, spent four months in the field, returning through Uganda and the Soudan, then northward down the Nile to Cairo. Much of the time was spent in studying and photographing the wild life of Africa. A superb series of lions was obtained for the Lion Group of the African Hall; Mr. Leigh of the Museum staff went with the expedition to paint the backgrounds for groups.

5. *Lee Garnett Day Roraima Expedition.* Through the generosity of Mr. Lee Garnett Day, Messrs. G. H. H. Tate and T. Donald Carter of the Museum left New York in 1927 to collect indigenous mammals and birds on Mount Roraima in British Guiana. Practically the entire surface of Roraima, at an elevation of 8,600 feet above sea level, was explored, and collections totalling 1,260 birds, about 350 mammals, together with numerous plants and insects, were secured. The expedition returned in February, 1928.

6. *The Kahn-Granger Expedition.* Messrs. Morton C. Kahn and Myron I. Granger left New York in June to collect ethnological material and make a detailed study of the Djuka Tribe in Dutch Guiana. Mr. Granger is sponsoring the expedition.

7. *The Tyler Duida Expedition.* This expedition left New York for Duida, an isolated mountain mass near the headwaters of the Orinoco, where the chief subject of study will be zoology. The altitude of Duida is roughly estimated at 9,000 feet and it is hoped that the Expedition may be able to collect a large amount of data on other subjects as well. Because of the unusual opportunities offered, the party has no fixed date for return. The Expedition is financed by Mr. Sidney F. Tyler, Jr.

8. *The Sanford-Legendre African Expedition.* On November 30, Miss Gertrude Sanford and Messrs. Sidney and Morris Legendre, Gordon MacCreagh and T. Donald Carter left New York on an expedition to Abyssinia to collect a group of Nyala, a rare mountain antelope found only in the highlands of Abyssinia. The first three mentioned members of the party have provided the financial assistance necessary, and upon the return of the expedition, Miss Sanford's father, Mr. John Sanford, will donate \$25,000 for the mounting of the group for the African Hall.

9-13. *Expeditions in Vertebrate Palæontology.* Through the generosity of Mr. Childs Frick, a number of important palæontological expeditions went into the field during the summer in the west and southwest. Joseph Rak made several shipments of material from Barstow, California, and from Santa Fé, New Mexico; Mr. J. C. Blick collected fossils at Keams Canyon, Arizona; Mr. Barnum Brown collected associated arrow points and extinct bison material near Folsom, New Mexico. Mr. Gerhardt K. Laves went to the same locality and Dr. Clark Wissler examined the finds for their archæological importance.

Mr. Carl Sorensen collected fossil material in Florida, the expedition being made possible through the financial assistance of Mr. Walter W. Holmes.

14. *Whitney South Sea Expeditions.* In 1921 Mr. Harry Payne Whitney decided to send out an expedition to collect birds of Polynesia, the expedition to continue in the field for five years. The results, however, were so important that the work has been continued and the expedition has now been in the field for seven consecutive years. At the present time birds of the Pacific and the Solomon Islands are being collected under the leadership of Mr. Hannibal Hamlin.

15-20. *Ornithological Expeditions.* (15) Dr. Frank M. Chapman spent a part of the late winter and early spring at Barro Colorado Island in the Canal Zone, studying and collecting tropical birds of the locality. (16) Through the generosity of Mr. S. Brinckerhoff Thorne, Mr. José G. Correia is collecting birds for the Museum in the Gulf of

Guinea, off the west coast of Africa. (17) The Olalla Brothers are collecting the birds of Peru and Ecuador to supply the Museum series from those localities. (18) Under the auspices of Mrs. Walter Naumburg, Mr. Emil Kaempfer is continuing his work of collecting birds in Brazil. Mr. Kaempfer has been collecting birds for four consecutive years and has sent in some very fine material for the department. (19) Mr. Rollo H. Beck is collecting birds, and his base of operations is at present New Guinea. (20) Dr. Leonard C. Sanford spent the summer months in Europe arranging for exchanges of bird specimens.

21-22. *Expeditions for Mammalogy.* (21) Mr. William J. Morden spent some time in Siberia making arrangements for an expedition this year to collect Siberian tigers and saiga antelope, a continuation of the Morden-Clark Expedition of 1926. (22) Mr. George G. Goodwin, working in co-operation with the Connecticut Geological and Natural History Survey, spent the major part of the summer collecting mammals and brought 325 specimens to the Museum.

23-25. *Expeditions for Herpetology.* Mr. Byron C. Marshall made an investigation of the caves of southwestern Missouri and Arkansas and completed his study of the blind salamander. Mr. Jay A. Weber collected reptiles and amphibians in Panama. Dr. G. K. Noble spent two months at Woods Hole, Mass., to continue the investigations which he began last spring.

26-28. *Expeditions for Entomology.* Mr. Herbert F. Schwarz spent several weeks in Europe during the summer pursuing his study of insects, and upon his return, brought an unusually fine collection of bees from localities in many different parts of the world. Dr. F. E. Lutz and Messrs. Curran and Watson spent a large part of the summer at the department's Station for the Study of Insects near Tuxedo, New York, actively engaged upon their work.

**DONATION OF HABITAT GROUPS OF FISHES, REPTILES,
BIRDS, MAMMALS AND INVERTEBRATES**

By far the most important undertaking ever set before our Department of Preparation, under the able direction of Mr. James L. Clark aided by a very capable staff of preparators and artists, is the preparation of the exhibits for eight great exhibition halls. Altogether the Museum is now expending \$140,000 a year on preparation for the exhibition halls new and old. For many years past the American Museum has been receiving superb gifts of mammals collected in the wild in the various parts of the world accompanied by photographic or painted records of scenery and of background to form a series of ideal habitat groups. In previous reports and by separate action of the Trustees from time to time, acknowledgment has been made of these magnificent gifts and of the cordial governmental and local support we have received in various countries. It now seems fitting to bring the entire preparation program before our members, to acknowledge the generous collective gifts our members have made from time to time to this great work of preparation. It seems appropriate, however, only to mention the total sum contributed for this purpose—approximately \$500,000—rather than detailed sums set aside for each group.

South Asiatic Hall, Groups Planned and Presented. The indebtedness of the Museum to Mr. Arthur S. Vernay and Colonel J. C. Faunthorpe for the gift of the splendid series of mammals of Southern Asia makes it imperative that our South Asiatic Hall should be opened at as early a date as possible. With this end in view, the preparation of these superb groups is being pushed forward rapidly under the direction and supervision of Assistant Director Clark and Mr. Butler.

Not only has Mr. Vernay financed the entire field work for collecting the groups and specimens for this hall, but he has made a special contribution of \$12,000 to expedite the mounting of them, conditioned upon the Museum's applying an equal amount to this purpose. When this hall is completed it will be the finest representation extant of the large mammalian fauna of Southern Asia. The hall will contain the

following specimens, collected in India, Burma and the Oriental region by Mr. Arthur S. Vernay and Colonel J. C. Faunthorpe, of the Faunthorpe-Vernay Expeditions, presented by Mr. Arthur S. Vernay and prepared for the South Asiatic Hall by the Morris Ketchum Jesup Endowment Fund and Mr. Vernay:

The Banting, two adults	Hog Deer and Boar Group, four specimens.
Sloth Bear, two adults, one young	Indian Rhinoceros, two adults
Black Buck, two adults, two yearlings	Smaller One-horned Rhinoceros, <i>Rhinoceros sondaicus</i>
Axis Deer (Chital), four adults, one young	Indian Buffalo, two adults
Indian Sambar Deer, two adults, one young	Indian Wild Dog, three specimens
Swamp Deer, two adults, one young	Leopard, two adults
Thamin Deer, three adults, one young	Gaur, two specimens mounted
Nilgai, two adults, two young	Indian Lion, two adults collected in 1929
Four-horned Antelope, four adults	White-handed Gibbon, eight specimens collected
Bengal Tiger, two adults, two young	Sumatran Rhinoceros, one adult and one young.
Indian Elephant, two adults	

According to present plans, the South Asiatic Hall will be ready for formal opening in the month of April, 1930. Through Mr. Arthur S. Vernay and Colonel J. C. Faunthorpe, invitations to attend this opening are being extended by the Trustees to the Princes and to the officials of the Indian Government who have so actively and generously cooperated in enabling the American Museum to secure these superb examples of the vanishing wild life of India.

The Trustees have elected to Honorary Life Membership the following persons:

His Excellency Sir Harcourt Butler, G. C. I. E.,
 General His Highness Maharaja, Sir Chandra Shumshere Jung,
 Kunwar Dillipat Shah Rai Bahadur,
 The Marquis of Reading,
 Mr. D. Stewart, Divisional Forest Officer, North Kheri Forest Division,
 His Highness the Nawab Sahib of Junagadh State,
 Major F. Tinley, M. C., Chief Secretary of Junagadh State,
 Maharaj Kumar Sadul Singh of Bikanir.

African Hall.—The great African Hall, which is to be a memorial to Carl Akeley, whose vision launched this beautiful plan for an adequate representation of the animal life of Africa, is beginning to take tangible shape. While structural plans are being provided for by the City, generous friends have provided for the collection and preparation of thirteen of the thirty-six great habitat groups which will occupy this hall.

Thirteen habitat groups collected in Africa by the Carl E. Akeley and succeeding expeditions, enumerated in the present and preceding reports, have been provided for, as follows:

AFRICAN GROUPS PLANNED AND PRESENTED

African Elephant from Kenya Colony, two males, cow, and calf. Mounted as the Meredith H. Pyne Memorial. Gift of Mr. and Mrs. Percy R. Pyne.

Gorilla of Kivu, two males, two females, young. Collected and mounted by Carl Akeley. Gift of Ogden Mills and the Morris Ketchum Jesup Fund.

Buffalo of Kenya Colony, two males, one female, one young. Gift of George Eastman.

Klipspringer from Kenya Colony. Containing Klipspringer, Reedbuck, Baboons, and Hyrax. Gift of George Eastman.

Wild Dog and Roan Antelope of Tanganyika Territory, nine specimens. Gift of George Eastman.

Water Hole Group of Kenya Colony. Reticulated Giraffe, Grévy's Zebra, Oryx, Grant's Gazelle, and Eland (15 specimens). Gift of George Eastman.

Greater Koodoo of Tanganyika Territory, two males, one female and young. Gift of Daniel E. Pomeroy.

Plains Group of Tanganyika Territory. Grant's Zebra, Gnu, Hartbeeste, Robert's Gazelle, Thomson's Gazelle, Topi (14 specimens). Gift of Daniel E. Pomeroy.

Lesser Koodoo and Gerenuk of Tanganyika Territory, six specimens. Gift of Daniel B. Wentz of Philadelphia.

Impalla Group, six specimens. Gift of Mrs. Martin Johnson.

Giant Sable Antelope from Portuguese West Africa, two males, two females and young. Gift of Mr. Arthur S. Vernay.

African Lion Group, two males, three females, one young. Gift of Mr. and Mrs. G. Lister Carlisle, Jr.

Nyala Group of Abyssinia. Gift of Miss Gertrude Sanford.

There are still twenty-three of these superb groups which have been planned and partly collected for the African Hall but are not as yet financed. Friends of the Museum are invited to have a share in this magnificent monument to Carl Akeley by contributing toward these groups.

AFRICAN GROUPS PLANNED, NOT AS YET PRESENTED

The Bongo (a white-striped Antelope) and the largest of the Wild Hogs, in dense tropical forest.

Congo River Group: Life in a dense jungle of the Congo River, featuring the Pigmy Elephant and the small Red Buffalo.

Okapi Group: The rare and beautiful Okapi, a close relative of the Giraffe, living in the Great Rain Forest of the Congo.

Sabre Antelope: A desert group on the border of the Sahara.

Giant Eland: The largest of all Antelopes, shown in the open thorn scrub and grasslands of the upper Sudan.

South African Gnu: Big game of the great South African plains.

Nile River Group, on the Upper Nile, featuring the Hippopotamus.

Water Birds, showing the remarkable concentration and variety of bird life on an East African lake.

Ratel and Honey Bird: The unusual association between the Honey Bird and Honey Badger.

Aard-Vark: A moonlight scene in South Africa, with the Aard-Vark or Ant Bear feeding upon a nest of ants.

Greater or Lesser Bustard: Game birds of the African Plains.

Vulture, Jackal and Hyæna: A typical group of carrion feeders, a common sight in the great game area.

Leopard, Red River Hog and Ibis: A tragedy in the depths of the dark forest.

Ground Hornbill: The largest of African hornbills, and unique in its terrestrial habits.

Pangolin or Scaly Anteater: A small group showing characteristic activities and attitudes.

Greater Otter: A bit of a small watercourse in which an African Otter is shown taking his toll of the river life.

Mongoose. These animals are shown hunting over the ground, feeding upon birds' eggs, reptiles and small mammals.

Duiker and Suni: Two tiny Antelopes among the great tree-trunks of the African forest.

Mandrill: A West African Group, showing this spectacular African Primate.

Cape Town Bay Group: A section of South African coastline, featuring Penguins and other bird life related to Antarctic fauna.

Lemurs and Insectivores, showing special adaptations of the Lemurs and Insectivores isolated in Madagascar.

Dik Dik: The smallest of the Antelopes of Africa.

Ostrich: On the open plains of Eastern Africa, side by side with the big game, graze the largest birds of the world.

North Asiatic Hall.—This hall joins the South Asiatic Hall, and has been especially designed to present the mammalian fauna of Central and Northern Asia. The following groups have already been collected as the gifts of William J. Morden or the Contributors to the Central Asiatic Expeditions:

COLLECTED BY THE MORDEN-CLARK ASIATIC EXPEDITION

Ovis poli: A statuesque group of in the mountains of Turkestan being
Marco Polo's Sheep will occupy the stalked by snow leopards.
center of this hall.

Roe Deer: A herd of Roe Deer
feeding on the grassy slopes of the
Thian Shan Ibex: A group of Ibex Thian Shan Mountains.

**COLLECTED BY THE CENTRAL ASIATIC EXPEDITIONS
UNDER THE LEADERSHIP OF ROY CHAPMAN ANDREWS**

Takin, Goral and Serow:

Wild Ass and Goitered Gazelle:

A composite group of these Asiatic
Mountain Antelopes in their moun-
tainous habitat.

A group of the Wild Ass and Goitered
Gazelle with a wide panorama of the
Mongolian plains as a background.

The Bird Halls.—The Habitat Bird Groups, conceived by Dr. Frank M. Chapman, rival the mammal groups in beauty and interest. The *Central Bird Hall* is designed for twelve groups, to represent typical bird fauna in various parts of the world. The groups that have been completed, or provided for, in these halls include: .

GROUPS PLANNED AND PRESENTED

Flying Birds: A unique exhibit
showing the birds in their native
element, the air. Gift of Mrs. Dwight
Arven Jones.

South Georgia Island Group: A
fascinating study of the flightless
birds of the Antaretic. Gift of Mr.
Glenn Ford McKinney.

Panama Bird Group: Tropical
Bird Life of Barro Colorado Island,
seventy specimens. Gift of Dr. Evan
M. Evans.

Pampas Group of South America:
The bird life of the wide plains of
Argentina. Gift of Mrs. Anne E.
Erickson, as a memorial to William
Henry Hudson.

Aconcagua Group: Bird life of the
High Andes. Gift of Mrs. Carl Tucker.

CENTRAL BIRD HALL—GROUPS PLANNED, BUT NOT
AS YET PRESENTED

Pheasants of the World: A group of these spectacular birds, based on studies of William Beebe.

Kidong Valley Group: A scene on the level floor of the Great Rift Valley showing the birds of these famous big-game fields: bustards, secretary bird, francolins, larks, starlings, sunbirds, and weavers.

West African Forest Group: The characteristic birds of the forested half of Equatorial Africa, such as are found in Southern Cameroon and Central Congo.

Water Birds of the Nile: The Sudd, or vast marshland of the Upper White Nile, is the home of vast numbers of aquatic birds, most famous among them being the whale-headed stork.

New Guinea Group: The great forested island north of Australia is famous as the home of the birds of paradise. With them live many other birds of brilliant color or striking form.

Bird Life of England: Made famous by Shakspeare and other masters of English literature, especially Gilbert White.

Hall of Ocean Life.—The Hall of Ocean Life, when the installations are completed, will be one of the most impressive Museum halls in the world. It was primarily designed to show the huge Cetaceans and their relatives. The dominating feature of the Hall will be the life-size model of a Humpback Whale in the attitude of diving. The Habitat Groups will also show the natural history of the great sea mammals, such as the Walrus, Seals, and similar species, while there will be an authentic reproduction of a Bahama Coral Reef, Pearl Fishery, and Sponge Fishery. Color will be introduced into the hall through a series of mural paintings recording whaling scenes and the natural history of these great sea beasts. Six of these murals, by John P. Benson, have been presented to the Museum, namely: Four panels showing the Day of the Yankee Whaler, presented by Mr. Oliver G. Jennings and Mr. George S. Bowdoin; and two murals depicting the life of the Humpback Whale and the Killer Whale, presented by Mr. Junius S. Morgan, Jr.

Already several of the oceanic habitat groups have been completed or provided for, as follows:

GROUPS PLANNED AND PRESENTED

Elephant Seal: Several of these huge seals on the beach of Guadaloupe Island, Lower California. Gift of Mr. Arthur Curtiss James.

Hooded and Harp Seals: Two characteristic species of the great seal herds shown on the drifting ice pans. Gift of George Palmer Putnam. Collected by Captain Robert A. Bartlett.

Steller's Sea-lion: A bull of this huge sea animal and his companions on an island in the Bering Sea. Gift of Mrs. Edward H. Harriman.

Fur Seal: A glimpse of domestic life in a Fur Seal rookery in the Pribi-

lof Islands. Gift of Messrs. D. O. Mills and Ogden Mills.

Pacific Walrus: Seven animals of this strange arctic species secured in the Arctic Ocean. Specimens collected and presented by Mr. Charles H. Stoll. Preparation the gift of Mrs. Andrew Carnegie.

Coral Reef Group: Natural section of Bahama coral reef. Specimens the gift of the Morris K. Jesup Fund, the Angelo Heilprin Exploring Fund, Mr. John S. Phipps and Mr. John H. Phipps.

GROUPS TENTATIVELY PLANNED, BUT NOT AS YET PRESENTED

Hair Seal Group.
Antarctic Group.
Australian Dugong.
Sea-otter.

Action group of Cetaceans under water.
Sea-Turtle Group.
Pearl Fishery.
Sponge Fishery.

In the *Hall of Reptiles*, the *Hall of Fishes*, the *Darwin Hall*, and the *Hall of Mammals of the World*, several habitat groups have been recently presented by friends of the Museum or provided for through the Morris K. Jesup Fund. These include:

GROUPS PLANNED AND PRESENTED

Komodo Lizard Group: Giant Lizards of the Island of Komodo in their native haunts. Collected and presented by Mr. W. Douglas Burden.

Sailfish Group: The mighty Sailfish with hook in mouth, leaping from waves off Cape San Lucas, California. Gift of Mr. and Mrs. Keith Spalding.

Shark Group: Presented by Mrs. George W. Perkins, Mr. Francis D. Rogers, Dr. James C. Ayer, and the Jesup Fund

Deep Sea Group: A unique presentation in seven sections of twenty-one species of strange fishes living a mile or more below the surface, the sole

light being due to the phosphorescence of the animals themselves. Provided for by the Jesup Fund.

Rotifer Group: The animal and plant life of one half inch of pond bottom, exquisitely modeled in glass, magnified one hundred diameters, or, cubically, one million times. Provided for by the Jesup Fund.

White-eared Cob: A group of four specimens of a characteristic antelope of the White Nile country, in the black and red color phases. Collected and presented by Irving K. Taylor.

Nile Lechwe: A pair of these very rare marsh-frequenting antelopes. Collected and presented by Irving K. Taylor.

GROUPS PLANNED, NOT AS YET PRESENTED

Monterey Sea-Star Group.

Santa Catalina Kelp-Garden Group.

Pacific Deep Sea Invertebrate Group.

VALUABLE GIFTS OF THE YEAR 1928

Among the many valuable gifts received during 1928 may be mentioned those from the following friends and members:

From Mrs. Carl E. Akeley—Nineteen birds from British East Africa, Asia, New Guinea and Borneo.

Dr. Robert Broom—Sixty-seven Neolithic and Palæolithic specimens; sixty-seven ground and chipped stone implements; Bushman face cast and two glacial stones from Douglas, South Africa.

Dr. L. C. Bulkley—Eighteen mammals; four ethnological specimens; several intaglio clay plaques from Siam; one marionette from Java; fourteen land and marine shells; one coral, two crustaceans; two myriapods; twenty-nine snakes from Siam.

E. W. Clapp—Colored lantern slides and two manuscripts on the southwest.

Colombia Emerald Development Company—One emerald from Colombia.

Mr. Clarence R. de Sola—645 Marine shells; four echinoderms; twenty-one pieces of coral; bones of *Testudo vicina*; iguana hides, all from Galapagos Islands.

Dr. Walter L. Hildburgh—About 5,000 specimens of archaeological material from Europe, Egypt and Japan and ethnological collections from China, Japan, India, Ceylon, Siam and Burma, forming the Walter L. Hildburgh collection for 1928.

From Chapman's Zoological Animal Corporation—Many specimens, chiefly mammals.

Mr. Walter W. Holmes—Twenty-three drawings by Mrs. Louise Nash.

Mr. Joseph S. Ellis—Bird and mammal specimens.

Brother Nicéforo Maria—13 Mammals and six mammal skins and skulls from Colombia.

Mr. Kakichi Mikimoto—Nine cultured pearls; one section of pearl; one sawed pearl; sixteen pearl oysters and fish and sixteen photographs from Japan.

Mrs. William H. Moore—Pair of Tong pottery camels from China.

Mrs. Max Neuberger—Eight mounted fish; four star fish; two alligator skins; one turtle head; one tortoise shell, all from Florida.

New York Zoological Society—Many specimens of mammals, birds and reptiles.

Mr. William H. Perkins—One buffalo robe from the Plains.

Mr. George D. Pratt—Forty-eight Japanese prints; 1,000 feet of motion picture film, "Life Cycle of an Oyster"; ninety-nine cricket gourds; three charcoal drawings of Swazi Tribe, by Alfred R. Martin; two wooden figures and one bronze figure from Africa; nine figures of Laplanders and reindeer carved from wood; fifteen crayon portraits of Plains and Southwest Indians, by A. E. Burbank; two archaeological specimens from Japan and Korea.

Mr. Herbert F. Schwarz—300–400 Megachilid bees from all parts of the world.

Mr. Ernest Thompson Seton—221 Colored slides, 653 plain slides and 482 glass negatives.

Dr. Charles H. Townsend—Two turtles from Galapagos Islands; six ethnological specimens from Terra del Fuego; four ethnological specimens from Eskimos of Bering Sea.

United States National Museum—Cast of *Lampris luna*.

From Mr. Arthur S. Vernay—2,208 Negatives and films of the wild life of India.

Mr. Warren J. Vinton—Seventy-nine specimens from an archæological collection, including six skulls.

Madame G. Lalanne—Two casts bas relief sculptures, Lauselle Rock-shelter, Dordogne, France.

William J. Morden—2,300 feet of film: Morden-Clark Asiatic Expedition.

For a complete enumeration of the gifts of the year, see the report of accessions on pages 65 to 90.

CHANGES IN THE BOARD OF TRUSTEES

At the Annual Meeting of the Board of Trustees, held January 9, 1928, the following Trustees, whose terms expired in the Class of 1927, were reelected to the Class of 1932: Messrs. Frederick Trubee Davison, Lincoln Ellsworth, Madison Grant, Clarence L. Hay, Ogden Mills and William K. Vanderbilt. Mr. S. Brinckerhoff Thorne was elected to the Class of 1930 to fill the vacancy caused by the death of Dr. Walter B. James, who passed away on April 6, 1927.

The Board of Trustees sustained an irreparable loss on January 29, 1929, through the death of Ogden Mills, who had been a Trustee since 1910. At a special meeting of the Board of Trustees held on February 20, 1929, the following resolution in tribute to Mr. Mills was adopted:

Resolved, That by the death of Ogden Mills on January 29, 1929, the Museum has lost a rare friend and a generous patron. He has been a Trustee since 1910 when he succeeded his father, Darius Ogden Mills, whose many enterprises and interests he so faithfully carried on. During 1912 and 1913 he served as a member of the Auditing Committee and in 1914 became a member of the Executive Committee. The Museum has successively elected him a Patron, an Associate Benefactor and an Associate Founder, in this way expressing esteem and gratitude to one who has been helpful in realizing the Museum ideal.

In building up an institution such as ours, with its wide scope and far reaching influence, much depends upon the unseen forces which guide and shape its growth. Vision is needed, coupled with unerring judgment in choosing for development those phases of Museum activity which will prove of greatest benefit. Mr. Mills has shown, through the many years of his useful life, just these needed qualities, and his fine discernment and square dealing in the field of capital and industry were carried over into the field of Museum administration. Known to his associates as a shy kindly man, he had the underlying strength and wisdom characteristic of all great men.

Besides subscribing generously of his resources as need arose, he also chose to give of his interest and support to certain definite projects. Thus his name is closely associated with the construction of the Fur Seal Group and with four of the Museum's expeditions, namely, the Crocker Land, the Fourth Akeley African, the Cañon del Muerto and the Java expeditions. The scientific results obtained by each of these have amply proven their worth. Another of Mr. Mills' gifts is the beautiful series of Catlin paintings, a number of which are now on exhibition in the Eastern Woodlands and Plains Indian Hall. When the opportunity arose to acquire these originals by the famous Indian painter Mr. Mills realizing their historic importance, at once made their purchase possible.

The Library too was favored by his interest. It had been his habit for some years to present, as they came into the market, rare volumes in Americana and in various branches of natural history, especially ornithology, including a number of first editions, among them

A collection of works by John Gould on the birds and mammals of Europe, Asia and Oceania, totaling 27 volumes.

de Bry, Theodorus—*Peregrinationes in Indiam Occidentalem*. First Edition. 1590-1602.

de Bry, Theodorus—*Peregrinationes in Indiam Orientalem*. First Edition. 1598-1613.

Kingsborough, Lord—*Antiquities of Mexico*. Colored Edition. 9 Folio Volumes. 1831-1848.

Spix, J. B. de—*Avium species novæ, quas in itinere per Brasiliam annis MDCCCXVII-MDCCCXX . . . collegit et descripsit . . . J. B. de Spix*.

By these gifts and finally by the gift of the collection of some twenty thousand volumes belonging to The New York Academy of Sciences, Mr. Mills brought the Library of this Museum to its present high rank among scientific institutions of the world. Having learned of the desirability of a permanent amalgamation of the Academy Library with that of the Museum, he paid a personal visit of friendly inquiry and shortly thereafter offered to purchase and present to the Museum the Library in question. It is due to his foresight, therefore, that the Museum now owns not only many rare monographs but also those early volumes of scientific periodicals around which it had for years been building up its files.

On January 4, 1926, Mr. Mills was appointed Chairman of the Trustees' Library Committee and he continued in this office until his death. Always a friend, he left as a final token of his high regard for the aims of the Museum a bequest which will greatly increase the present endowment fund.



OGDEN MILLS
Trustee, 1910-1929

CHANGES AND PROMOTIONS IN THE SCIENTIFIC STAFF

During 1928 the following appointments and promotions were made in the Scientific Staff: N. C. Nelson, M.L., was promoted to Curator of Prehistoric Archæology; Charles C. Mook, Ph.D., was promoted from Associate Curator of Fossil Reptiles to Associate Curator of Geology and Palæontology; George G. Simpson, Ph.D., was promoted to Associate Curator of Vertebrate Palæontology; C. H. Curran, M.A., was appointed Assistant Curator of Entomology; George G. Goodwin was promoted from Assistant in Mammalogy to Assistant Curator of Mammalogy; Francesca R. La Monte, A.B., was promoted from Assistant in Ichthyology to Assistant Curator in Ichthyology; Elizabeth A. Eckels, Ph.B., was promoted to Staff Assistant in Education; Marcelle Roigneau was promoted to Staff Assistant in Comparative Anatomy; Louis Hussakof, Ph.D., was appointed Research Associate in Devonian Fishes; George E. Brewer, M.D., was appointed Research Associate in Somatic Anthropology.

With a keen sense of sorrow and loss, we record here that on February 3 death removed from our Staff Charles W. Mead, Honorary Curator of Peruvian Archæology. Mr. Mead had been connected with the American Museum for more than thirty years. His scientific interests were many, but particularly in the field of Peruvian archæology was he recognized as an authority. His sterling personal qualities and tireless and cheerful devotion to his duties earned him the highest respect and admiration of his Museum colleagues.

It is with deepest sorrow that we record the death of Dr. Pliny E. Goddard, Curator of Ethnology, who passed away on July 12. Dr. Goddard came to the American Museum in 1909, serving the Department of Anthropology in various positions from that time until his death. He was one of the most prominent ethnologists in the United States and devoted himself to intensive research work in linguistics of the American Indian. Dr. Goddard's loyalty to the Museum, his self sacrifice in his work and his keen appreciation of the scientific value of material collected for the Museum, together with his broad interest and utilization of Museum facilities, made him a valued member of our Staff.

The Museum Staff also suffered an irreparable loss in the death of Dr. Bashford Dean, Honorary Curator of Ichthyology, who died on December 6. Dr. Dean, whose scientific interest in fishes began when he was seven years old, became Curator of the Department of Fishes in 1903. This position he held until 1910, during which time he planned and directed the installation of the remarkable series of mounted habitat groups illustrating the life and habits of ganoid fishes now on exhibition in our new Fish Hall. In 1910, owing to the pressure of other duties, Dr. Dean resigned as active Curator and was appointed Honorary Curator of the Department of Ichthyology by the Trustees of the Museum. As Honorary Curator he sponsored one of the greatest enterprises of his life, "The Bibliography of Fishes." Three volumes of this great index and reference to zoological papers on fishes have already been published and the fourth is in preparation. This bibliography will stand as a fitting monument to Dr. Dean's life-long devotion to the study of fishes. By the terms of Dr. Dean's will, the Museum comes into possession of his splendid library on fishes, together with funds to maintain it.



II. EDUCATIONAL AND SCIENTIFIC REPORTS

GEORGE H. SHERWOOD, Director

The Director has the honor to present herewith the reports of the department chiefs.

In line with the necessary retrenchment in expenditures, these reports are submitted in much briefer form than has been customary, but they present the most striking features of the work of the departments during the year. A glance at these reviews will show that in exploration, research, publication, exhibition and education, real progress has been made, although many activities have had to be curtailed or suspended because of lack of funds. That so much has been accomplished is due to the generous support of special projects by members and other friends, and to the earnest, devoted service rendered by all members of the staff.

As for several years past, Honorary Director Frederic A. Lucas* rendered invaluable assistance to the Director in taking direct charge of the Hall of Primates, the Hall of Synoptic Mammals, the Forestry Collections, the exhibit of Public Health, and the Popular Publications.

In the planning and care of these exhibits, Dr. Lucas brought to bear his thorough knowledge of Museum development and technique, and his valuable knowledge of illumination, dustproof cases, protection of specimens from daylight, etc. Dr. Lucas was also a master in the writing of labels. His service in supplying information to visitors and to the staff gave evidence of his astounding knowledge of natural history. In addition to the halls under his charge, was an invaluable adviser in the Hall of Ocean Life.

The following report for 1928 was prepared by Dr. Lucas:

"The most important work in the Hall of Primates has been the placing on exhibition of a series of photographs of mammals selected from those shown at the exhibition of 1922, and including examples of the work of some of our best known and most successful photographers of wild life.

"The few additions to the mounted mammals are noted in the report of that department.

*Deceased February 9, 1929.

"The principal work in the hall of Trees of North America has been the preparation and installation of a series of labels, thirty-six in number, noting important events in History, Art, Exploration, and especially Science, that took place during the lifetime of our Big Tree. These, added to Professor Huntington's labels, "Climate and History," constitute a small but comprehensive text book, which is much consulted by visitors, and classes from the schools.

"Mr. Narahara has continued the series of reproductions of leaves and flowers showing, when possible, the spring leaves and blossoms and the autumn foliage and fruit; the trees of this section are now quite fully represented.

"A few additions have been made to the series of photographs of unusually fine trees, and the removal of the exhibit of foods has permitted the transfer to this hall of the remarkably fine fossil trunk of an evergreen tree, forty-five feet in length.

"Few changes have been made in the exhibits of the Department of Public Health, but the transparencies have been reinstalled, many of them remounted, the relief maps protected with glass and the various labels added. This collection is one of those most studied by classes and many visitors."

ASTRONOMY (Clyde Fisher, Curator):—Astronomy, by its very nature, is a great inspirational science, and its appeal is universal. With a small hall and a smaller appropriation, we have made considerable strides toward developing a department in the American Museum. The exhibits, consisting of paintings and photographs of astronomical subjects, and of smaller apparatus, such as astrolabes, sun-dials and hour-glasses, have overflowed the confines of the astronomical hall into the corridor adjacent. The proposed Hall of Astronomy is needed to allow for normal growth and development into an adequate department commensurate with the aims and ideals of the American Museum.

The outstanding activity correlated with the Department is the Amateur Astronomers Association, which continues to grow and function in a most satisfactory and encouraging manner. During the year the programs have included a number of America's ablest astronomers, and the subjects discussed have embraced a number which are most appealing to the amateur, for example, "Life on Mars," "The Total Eclipse of the Sun of 1926," "What an Amateur

Astronomer Can Do," and "What of Sunspots?" Meetings are held twice a month and at the first meeting of each month, the telescopes are used on the lawn of the Museum, if the sky be clear. Several generous members have kindly made it possible for others to enjoy the thrilling experience of seeing the heavenly bodies through a telescope. Due to the influence of a lecture last year by the patron saint of amateur telescope-makers, Mr. Russell W. Porter, and to the enthusiasm of Mr. G. H. Lutz, one of our members who has made several telescopes, a few of our members have undertaken to grind their own mirrors and to build their own telescopes. It is believed that this phase of the Society's activity will grow.

Early in the year, Mr. Garrett P. Serviss was made an honorary member of the Amateur Astronomers Association,—the first one to be elected,—in recognition of his well-known service in popularizing the subject of Astronomy.

In response to an insistent demand, classes in various phases of astronomy have been organized and are well attended. Charts, stereopticon slides, blackboards, telescopes, and other apparatus are used. The leaders are members of the Society who generously give their services.

A periodical has been asked for ever since the founding of the Society, especially by groups in distant localities, who wish to affiliate with our organization. Not only these, but the active members who attend the meetings, have requested a publication which would contain abstracts of the lectures, and other astronomical items.

The following important exhibits were lent to the Museum for a part or all of the year: Tycho Brahe celestial globe from Baron Sigfried Rålamb of Stockholm; a stellite mirror and a reflecting telescope from Mr. G. H. Lutz of Philadelphia; sets of three telescope lenses from Boehmke Optical Co. of Philadelphia, and the following refracting telescopes: a five-inch Brashear from Mr. S. B. Grimson of New York City; a three-inch Bartou from Mr. B. T. B. Hyde of Santa Fe, New Mexico; a five-inch Alvan Clark from Mr. George A. Galliver of New York City; a three-inch Busch from Miss Laura B. Garrett of New York City, and a four-inch Mogyey from Mr. C. W. Elmer. In addition to these, several fine telescopes were brought to the meetings at various times for use by the members of the Amateur Astronomers Association.

To augment the collection of astrolabes, sun-dials, and hour-glasses which Miss Susan Dwight Bliss lent last year, she has added several more interesting instruments, among them a Chinese wooden sun-dial and a modern mariner's compass.

Twenty-seven oil paintings of the Aurora Borealis by Mr. Leonard M. Davis of New York City; one oil painting of an Aurora Borealis by Mr. Frederick K. Detwiller of New York City, and one very large photograph of the moon by Mr. Leon Barritt of Brooklyn, have been lent to the Museum.

The Annual Meeting of the American Association for the Advancement of Science was held in December in New York City, and this included the meeting of the American Astronomical Society. The American Museum was one of the hosts for these meetings, the Curator of Astronomy serving on the Committee on Arrangements. The lecture on Astronomy before the general meeting was entitled "Galaxies of Galaxies," and was given by Dr. Harlow Shapley, Director of Harvard College Observatory.

The dream of a proposed astronomical hall, to be the hub of the series of buildings of the American Museum of Natural History, is being more definitely formulated, but it still awaits some public-spirited benefactor to make it a reality. However, if those who have the project in charge believe in it themselves strongly enough, the dream will surely come true.

An octagonal-shaped building, five stories high, has been planned, which shall be, when completed, the finest thing of the kind in the world,—a project worthy of the ideals of the American Museum located in this great metropolitan city. The crowning feature of the Hall of Astronomy is to be the new Zeiss Projection Planetarium, which has been attracting so much attention among scientists and educators in Germany and other countries of Europe. The President and Board of Trustees look with favor upon the plan of establishing the Planetarium as a preliminary step in the realization of the greater dream. To bring one of these Planetariums to New York is an achievement whose educational value and inspirational effect would be immeasurable. For some great philanthropist, here is a real opportunity.

MINERALS AND GEMS (Herbert P. Whitlock, Curator):—The year 1928 has been an important one as marking an increase in the intelligent use of the displayed collections by the public and a corresponding increase in the equipment which renders this service to students more facile and illuminating. A count which was made during the year, of the various groups using the collections for *actual study*, showed a total of 7,677 individual students. These represented a very wide range in age, intelligence and field of interest, from University post-graduate students to the lower grades of the public schools.

In thorough accord with this increase in the efficient use of the educational resources of the Department, the office of the Curator has been moved from the Fifth Floor to the southern end of the West Corridor on the Fourth Floor. By this change the Department is placed in much closer touch with its public, and can render far more effectively the service of information on matters connected with its exhibits, which is one of its outstanding ideals.

The introductory series of atomic structure models has been supplemented by the addition of a suite illustrating the structure of diamond, of graphite and of water. There has also been added to this series a suite of fourteen models showing the crystallographic grouping known as space lattices according to Bravais.

The first of the series of eight mural paintings by Mr. Will Taylor has been completed, and has been temporarily placed in the panel which it will finally occupy (the right-hand panel of the east wall). The subject is "The Age of Iron." Four of the seven subjects for the additional panels are now represented by sketches to scale, placed in their appropriate position on the east and south walls.

During the year the Curator has contributed the following popular articles: "Some Carved Bowls from the Famous Morgan Collection," contributed to the *Jeweler's Circular*; "Symmetry in Nature" and "What is a Gem," both the latter contributed to *Natural History*.

In addition to the twenty-eight species new to the collection which have been acquired during the year, the mineral collection has received from the estate of the late Dr. Robert Abbe, a number of those interesting aggregates of gypsum crystals that are known in North Africa as "Desert Roses."

The gem collection acquired by purchase two unusual cut stones: a colorless pollucite and a light brownish cassiterite. Mr. K. Miki-moto has donated to the gem series a fine suite of cultured pearls, and through the Bruce Fund was acquired a carved elephant of rose quartz.

GEOLOGY AND INVERTEBRATE PALÆONTOLOGY (Chester A. Reeds, Curator):—Curator Reeds, with two assistants, spent fair-weather days in the nearby field collecting samples of the varved glacial clays. One hundred and sixteen samples were collected from Pleasantville, Meyersville, Logansville and Whitebridge, New Jersey.

With the aid of two assistants, marked progress has been made in sorting, cleaning, sectioning and identifying the species of a 1914 collection of invertebrate fossils from Oklahoma.

Doctor Reeds devoted a large part of his time during the year to editorial work. As Editor of Museum publications on Geography, Geology, Mineralogy and Palæontology, fourteen *Novitates* papers and five *Bulletin* articles were edited.

With the assistance of Miss Adela M. Pond considerable progress was made in editing the manuscript of the "Permian Fauna of Mongolia" by A. W. Grabau, which will constitute Volume V of the *Natural History of Central Asia*. Two four-page circulars on the publications of the Central Asiatic Expeditions were written, edited, printed, and 2,000 copies mailed to members of learned societies.

Doctor Reeds wrote five articles, four of which were published in *Natural History* during 1928, namely: "Underground Rivers," "Volcanoes in Action," "Living Glaciers," "Storms and Storm Tracks"; the fifth article, "Snow Crystals," appeared in the January-February, 1929, number of *Natural History*.

To celebrate the Centenary of the Glacial Theory, at the 1928 New York meeting of the American Association for the Advancement of Science, Professor Henry Fairfield Osborn, President of the Association, appointed a committee consisting of Professor Frank Leverett, Chairman, Chester A. Reeds, Secretary, Professor Charles P. Berkey and Doctor Isaiah Bowman. The committee secured the services of Dr. Ernst Antevs in September, as an assis-

tant, and with the support of a grant of \$1500. from the Carnegie Institution of Washington, the following six maps dealing with the Quaternary glaciations of the Northern Hemisphere were compiled and presented as a part of the symposium on glaciation held at the American Museum, December 27, 1928:

1. Map of United States of America in 1:2.5 million, showing the extent of the five probable glaciations.

2. Map of North America in 1:10 million, showing extent of the glaciated area and of the last glaciation north of the 49th parallel.

3. Map of Europe in 1:3 million, showing extent of the glaciated area and of the last glaciation.

4. Map of Asia in 1:10 million, showing extent of the glaciated area.

5. Map of the Northern Hemisphere, showing the maximum extent of the glaciated areas in the Northern Hemisphere.

6. Map of the Northern Hemisphere, showing the extent of the glaciated areas during the last, or Wisconsin, glaciation.

A committee, consisting of Dr. A. Hamilton Rice, Chairman, Doctor Chester A. Reeds, Secretary *pro tem*, Doctors Sherwood, Murphy and Noble, Mr. O. M. Miller and Mr. Weld Arnold, was appointed by President Osborn to prepare the following four World Maps:

Map A. A tilted Mollweide equal area projection of the World (A base map of continents for plotting geographical distribution.)

Map B. Complementary to Map A. (A base map for plotting marine distribution.)

Map C. Continental maps of equal area for plotting migration and zonal distribution.

Map D. Hemispherical map of the World on Lambert's equal area projection. (A base map for plotting glaciation and geographical distribution in the Northern Hemisphere.)

These maps also were exhibited at the meetings of the American Association for the Advancement of Science.

EXTINCT VERTEBRATES (Barnum Brown, Curator-in-charge):—The department has made many alterations in exhibition halls and storage of collections. Three important specimens have been placed on exhibition: a group of nine small Miocene camel skeletons, *Stenomylus*; a complete skeleton of the rare Triassic dinosaur *Plateosaurus*; and the skull and jaws of a Cretaceous dinosaur, *Hypacrosaurus*.

Many important specimens have been acquired, notably, a large Pleistocene collection from Florida; two skeletons of South African Permian reptiles; and a skeleton of the large Pleistocene buffalo, *Bison taylori*.

Expeditions have secured notable additions to our collection; in Colorado a dinosaur skeleton was found and re-covered for future excavation, also discoveries of unexplored fossiliferous badlands.

In coöperation with the Colorado Museum of Natural History, the Folsom, New Mexico, bison quarry was completed, where an area 80×60 feet square was excavated and several fossil skeletons, and partial skeletons, of the extinct buffalo, *Bison taylori*, with eleven associated arrowpoints of a previously unknown culture of people were secured. By archæologists this is considered to be one of the most important contributions in recent years, relating to prehistoric man in America.

An expedition to the Fort Union Eocene of Bear Creek, Montana, secured many additional jaws and teeth of primates and insectivores. Another to Florida made notable additions to the Pleistocene fauna.

Mr. Childs Frick's expeditions to Arizona, New Mexico, and Nebraska secured a wealth of camel material, including from New Mexico sufficient material to mount a composite skeleton of the largest known member of this family.

The Central Asiatic Expedition, accompanied by two members of this department, reports a successful season with important additional fossil mammals, including a new genus of Titanotheres, *Embolotherium*, and a new and unusual type of shovel-jawed Mastodon, *Amebelodon*.

Professor Henry Fairfield Osborn has completed his monumental Monograph on the Titanotheres, published by the U. S. Geological Survey, and his Memoir on the Proboscidea is two-thirds completed.

Other members of the department and associates have published fifteen scientific papers in the *Bulletin* and *Novitates*.

During the immediate preceding years, this department has contracted markedly in personnel, field work, and output, and it is recommended that an increase in funds be provided for its expansion in order that its prestige may be continued.

LOWER INVERTEBRATES (Roy Waldo Miner, Curator):—The most noteworthy addition to the exhibits in the Darwin Hall is the new Rotifer Group, which was formally opened to the public in October. This group represents the animal and plant life of one half inch of pond bottom, magnified one hundred diameters, or, cubically, one million times. The theme of the exhibit is a dramatic one, centering about the minute water creatures known as the rotifers, and the perils they, and other microscopic animals, encounter from the ingenious animal traps of the carnivorous water plant, the bladderwort. The group is a unique achievement in glass-modeling by Herman O. Mueller, and was constructed under the personal direction of the Curator with the cooperation of Research Associate Frank J. Myers. The delicate coloring is the work of Worthington Southwick.

The Coral Reef Group in the Hall of Ocean Life has been substantially advanced during the past year. Most of the largest specimens of coral, including the two-ton *Acropora palmata* and the ton-and-a-half *Siderastrea*, have been installed in the group on carefully fitted steel armatures. The modeling of the eroded submarine arches and overhanging coral shelves and caverns has progressed rapidly, and these features will soon be ready for the smaller and more delicate specimens which will cover them.

A series of eight carefully worked out models of typical annulates for the Darwin Hall has been nearly completed. These will illustrate the biological adaptation of structure to function, as exemplified in the segmental appendages of these forms, while, incidentally, the beauty and grotesqueness of sea worms are well brought out.

During 1928, the paper on the Trematodes of the Congo Expedition by Research Associate Stunkard, the publication of which was unavoidably postponed, was placed in the hands of the printing

department, and will appear shortly in the *Bulletin*. Research Associate Treadwell has published a paper in *Novitates* entitled, "*Lumbrinereis bicirrata*, a new polychætous annelid from Puget Sound," and has completed another paper on "*Acætes magnifica*, a new species of polychætous annelid from Montego Bay, Jamaica," which is about to go to press. Research Associate Myers is working upon Part V of the Harring-Myers monograph of North American rotifers, the types of which are to be deposited in this Museum. Associate Curator Van Name has progressed with his monograph on tropical and South America isopods, and has completed a report on the ascidians of Porto Rico and the Virgin Islands, which is to be published by the New York Academy of Sciences in connection with its biological survey of those islands. Curator Miner has progressed with his book on "Oceanic Life" and on a handbook to the invertebrate life of the sea-shore. He has also published in *Natural History* an article entitled, "A Thousand Miles of Coral Reef," and another, entitled, "A Drama of the Microscope."

About 4,200 invertebrates were catalogued during the year, including 2,129 lots of shells and 1,099 crustacea and other arthropods.

Just before the close of the year, the Museum received notice of the bequest of the Frederick A. Constable Shell Collection through the will of his widow, Louise Constable. This collection contains more than 50,000 named specimens, among which are many rare species and exceptionally fine examples of other species. A fine specimen of *Conus gloria-maris* is included.

Other noteworthy accessions are 8,325 specimens of invertebrates from the Whitney South Sea Expedition; a fine series of oriental pearl oysters and photographs showing the growth and development of cultivated pearls, and the methods of artificial cultivation; 100 specimens of land and fresh-water shells from the Solomon Islands, donated by Mr. Clarence E. Hart; 2 specimens of *Peripatus*, and a rare parasitic hydroid, *Hydrichthys boycei*, presented by Director E. C. Chubb of the Durban Museum, Natal; 670 marine shells and other invertebrates from Galapagos, presented by Mr. C. R. De Sola; a valuable collection of drawings, photographs and color sketches by the late Professor A. E. Verrill, purchased from his estate, and a collection of Anthozoa presented by Professor C. H. Edmondson of the Bishop Museum of Honolulu.

INSECTS AND SPIDERS (Frank E. Lutz, Curator):—The Station for the Study of Insects in Harriman State Park near Tuxedo, N. Y., was carried along under the supervision of Dr. Lutz on much the same lines as in other years, except that the transfer of the Nature Trail and the responsibilities of its maintenance to the Department of Public Education enabled the Station to devote more time to insects than heretofore. Mr. F. Martin Brown was assistant in charge. Mr. Curran, who joined our staff last spring as Assistant Curator in charge of Diptera, and Mr. Watson of the Museum staff spent most of the summer at the Station. In addition, six boys were guests for a great part of the season, and there were a number of transient guests, both adult and younger. Work at Tuxedo has now been discontinued as we have accepted the invitation of Avon Old Farms, a boys' school near Hartford, Connecticut, to make use of its facilities for our field station.

Dr. Lutz has continued gathering material in connection with a rather extensive report on the physiology of insects. This work is relatively new and requires for its most efficient prosecution the devising of new and frequently complicated, as well as delicate, apparatus. Fortunately he has been able to secure advice of expert physicists and chemists but it is necessary for him to make or at least assemble his own apparatus.

Messrs. Curran and Watson worked on flies and butterflies respectively. Mr. Brown worked on the bacteriology of insects.

On December 11, Mr. Curran departed on a field trip to the Panama Canal Zone to study the flies in that region. Dr. Lutz, too, expects to visit Panama to carry on during the winter months his work on the physiology of insects and their relatives.

Mr. Curran has completed his report on the Diptera of Porto Rico and the Virgin Islands, and Parts II and III of the Diptera collected by the American Museum Congo Expedition, also four shorter papers on Diptera from various localities. All of these have been published, in series of the Museum and the New York Academy of Sciences, and there have been issued in other channels additional scientific papers from his pen. Research Associate Schwarz has published elsewhere a paper on the Bees of the Subfamily Anthidiinæ. Several other valuable papers are being brought to completion by members of the department and scientists working on Museum material, and will, we hope, appear before long.

During the past summer, the meeting of the Fourth International Congress of Entomology took place at Cornell University, Ithaca, N. Y. While the foreign entomologists were in this city, Dr. Lutz acted as their host, and the entomologists of the Museum enjoyed the privilege of close contact with some of the more important specialists from other parts of the globe, many of whom visited the Museum to study the collections. The American Association for the Advancement of Science meetings also brought to the Museum many entomologists who took this opportunity to examine our collections.

The intracase lighting has been practically completed. It has transformed our Insect Hall and made possible its development as a unified treatment of insect biology. Messrs. Mutchler and Wunder are carrying out the plan which involves the placing of literally thousands of separate exhibits in a logical sequence that is expected to be both educational and interesting. A start has also been made in supplementing these static exhibits with a series of live insects. No habitat groups have been added to the exhibits during the past year but several groups of this series are approaching completion.

The most notable single collection was that received from the Vernay Angola Expedition, consisting of 13,000 insects and spiders. There were also numerous other additions to the collections during the past year, including a series of 10,000 specimens taken by Messrs. Curran and Watson at the Field Station near Tuxedo.

RECENT AND EXTINCT FISHES (William K. Gregory, Curator; Bashford Dean,* Honorary Curator):—The untimely death of our former Curator, Professor Bashford Dean, was a deep personal loss to every one of the staff members of this department, who have been connected with him by long-standing ties of friendship and loyalty. As founder of the Department of Ichthyology in 1909, Professor Dean brought to it all the high prestige of his name and all the creative energy of his unique personality. Among the signal achievements of his curatorship we may recall especially the founding of the Museum collections of fossil and recent fishes, the preparation of the synoptic exhibit of fossil fishes, including the "fossil aquarium" (a reconstruction of ancient fishes of the Old Red Sandstone), the publication of his important memoirs on fossil

*Deceased December 6, 1928.

sharks, arthrodires and chimæroids, and finally the publication of the great Bibliography of Fishes in three volumes. In these and other enterprises, Dr. Dean inspired his colleagues and assistants with his own almost reckless enthusiasm and determination to push to completion these great works of science and education.

The instant success of the Hall of Fishes of the World as an educational and scientific exhibit has been evidenced by a generous outpouring of appreciation and praise from the public press, from the general public, and from the visiting scientists of the American Association for the Advancement of Science. Much still remains to be done before this hall can begin to live up to its name. Among the special needs of the immediate future we may mention the following: (1) the further development of the exhibits illustrating the biology of fishes; (2) the development of the synoptic systematic exhibit and the gradual replacement of poorly colored or poorly modeled fishes by better ones; (3) the preparation of a group showing salmon leaping the falls of a river; (4) the securing of material for the Hawaiian Reef Group and its preparation; this involves an expedition to the Hawaiian Islands to secure necessary materials and studies for the background; (5) the painting of the six key murals for the alcoves of the systematic collection.

Curator Gregory has continued work on the preparation of an illustrated catalogue of the skulls of Ganoid and Teleost fishes. Mr. Nichols has been occupied chiefly with a provisional handbook to the Freshwater fishes of China. Dr. Gudger is continuing the Bibliography of Fishes, and edited the Fish Number of *Natural History*, besides publishing a number of papers on various subjects. Dr. L. Hussakof has been arranging and cataloging the large fossil fish collection. Some thirty articles have been published during the year by members of the department.

REPTILES, AMPHIBIANS AND EXPERIMENTAL BIOLOGY
(G. Kingsley Noble, Curator):—The event of greatest interest to the Department during the year was the recognition by the Trustees of experimental biology as one of the important activities of the Museum, and the change of the Department's name to include this field. Biology, the science of life, has been making revolutionary advances during the last three decades. The Museum by applying the results of this field to the study of animals in nature is in a position to un-

ravel many of the mysteries which have puzzled naturalists for centuries. For example, naturalists have speculated as to why the only blind salamanders should occur in caves. Mrs. S. H. Pope and the Curator have experimented with the Ozark Cave salamander during the year and found that its blindness is due to the absence of light during a critical stage of its life history. Individuals reared in the light have functional eyes. Thus blindness in these forms is not hereditary.

The varied activities of the Department are well shown in the papers published during the year. Mr. W. Douglas Burden published a report in *Novitates* on his observations of the habits and distribution of the giant lizards of Komodo. Dr. E. R. Dunn published a paper on the frogs collected by the Burden Expedition and another on the new species of Central American snakes in the American Museum. Mr. Pope published two papers on new species of reptiles from South China, and completed an extensive report on the reptiles collected in Fukien Province by the Central Asiatic Expeditions. He also published a paper on the habits of some rare Kentucky and North Carolina salamanders. The experimental studies of the year include a report by Mrs. Pope and the Curator on the effect of certain hormones on the development of teeth and on the cloaca of salamanders. A study of the structure and evolution of tree-climbing mechanism of Amphibia was published by Miss Jaeckle and the Curator. Two important fossil Amphibia were described by the Curator in *Novitates*. In addition, various popular articles were published in *Natural History* by Mr. Burden and Mr. Pope.

Early in the year the magnificent group of giant lizards collected by W. Douglas Burden on Komodo Island in the East Indies was opened to the public. The group shows a pair of giant lizards feeding on a wild boar which they have killed. A third is about to dispute ownership with the others. To the right of the group is installed a motion picture taken by Mr. Burden showing the feeding habits of the lizards. The film is shown automatically and has become so popular that it has been found necessary to suspend its use when the Museum is crowded. Near the group a large chart has been arranged showing the evolution of all backboned animals in outline. The visitor at a glance may visualize the relationships of the Komodo dragons to the great saurians of ancient days.

The collection of Reptiles and Amphibians in the Museum numbers over 70,000 specimens and comes from all parts of the world. This year we assisted five foreign institutions and eight American institutions with material needed for scientific investigations. No less than 574 reptiles and 55 amphibians were sent out of the Museum for study, while many hundreds were examined by students in our research rooms. During the year, 7,867 specimens were received and accessioned; of these 1,136 are reptiles, and 6,731 amphibians. A great number were received through Museum expeditions. One of the most important of these was organized and financed by Mr. Gilbert C. Klingel, to study the habits of Haytian reptiles. Byron C. Marshall visited Texas, Arkansas and Missouri on the Burden Fund to study and collect live cave salamanders. He also made a general collection of reptiles and amphibians. Mr. Hassler, on the same Fund, visited the Great Smokies of Tennessee and the mountains of West Virginia to collect salamanders for experimental study concerning the factors controlling the form of teeth. Several of the rare Amphibia have bred in the Museum's new laboratories of experimental biology during the year, and certain important stages in their life history were described for the first time.

BIRDS (Frank M. Chapman, Curator-in-Chief):—For the Department of Birds the year 1928 was characterized by extension of field work and extension of the ornithological collections rather than by the progress of research such as the richness of our museum material and the character of our departmental staff might ordinarily be expected to insure. Owing to the complicated nature of field work in many parts of the world, and of negotiations with many foreign institutions regarding exchanges of specimens, the time of the staff as a whole was devoted to administration rather than to science.

Field investigations, perhaps more extensive than ever before, covered many parts of the world, as the following brief tabulation will show:

Mr. F. L. Jaques, as a member of the Stoll-McCracken Expedition, obtained specimens for a marine group of North Polar bird life. In July, Mr. Sidney F. Tyler, Jr., sailed on an expedition supported by himself to Mt. Duida in the upper Orinoco region, zoologically the least known part of the Western Hemisphere. Mr.

G. H. H. Tate of the Museum staff is the leader, and he and Mr. Tyler were accompanied by Messrs. Hitchcock and Deck. They were later joined by Messrs. Olalla, South American collectors long in the service of the Museum. Mr. Emil Kaempfer has continued his work in southern Brazil and has sent large series of birds from relatively little-known regions.

Mr. Rollo H. Beck and his associates have continued the Whitney South Sea Expedition with important and surprising results among the Solomon Islands. By penetrating to the summits of hills from 3,000 to 5,000 feet in altitude, the party has obtained many unknown birds, even on supposedly well-known islands. In June, Mr. Beck severed his long connection with the Expedition in order to take up independent work in New Guinea under Dr. Sanford's patronage. Mr. Beck's associate, Mr. Hannibal Hamlin, was thereupon placed in charge of the Whitney Expedition and has since been at work in the Solomon Island region. Through arrangements made by Dr. Sanford with the authorities of the Tring Museum, Dr. E. Mayr has also been collecting in the highlands of Dutch New Guinea.

Working with funds supplied by Mr. S. Brinckerhoff Thorne, Mr. José G. Correia made during the year a thorough ornithological survey of the islands of São Thomé and Príncipe in the Gulf of Guinea, Portuguese West Africa. His material is of extraordinary importance, and, together with his notes, will form the basis for a thorough report on the birds of the region. In June Messrs. J. Sterling Rockefeller and C. B. G. Murphy, accompanied by Allan L. Moses as collector, began field work in the Museum's interest in East Africa. They plan to traverse the continent by way of the Belgian Congo before returning.

Additions through collections and exchange have been almost unprecedented during 1928, with the result that the American Museum now possesses a more nearly complete representation of the known genera of birds than any other institution in the United States. As a consequence, the chief problem in the department is now one of over-crowding.

Other departmental work has included the storage and cataloguing of the large new collections and the publication of several South and Central American studies by Dr. Chapman, of Polynesian papers by Dr. Murphy, of notes on various African birds by Dr. Chapin, and on birds of eastern Brazil by Mrs. Naumburg.

MAMMALS (H. E. Anthony, Curator):—During 1928 the outstanding activity of the Department of Mammalogy was its field work for exhibition and study material. Research and publication based upon the collections in the department were practically at a standstill because of the absence of so many of the personnel in the field. The routine cataloguing, arranging and storing of material, however, went forward without any serious interruption throughout the year.

Five expeditions returned or set out from the Museum during 1928. Mr. Arthur S. Vernay returned early in the year from an expedition to India and southern Asia, where he made an unsuccessful attempt to secure the rare *Rhinoceros sondaicus*. He took with him Messrs. Butler and Rosenkranz of the Museum Department of Preparation, and they secured accessory material and made background studies for groups in the new Hall of South Asiatic Mammals. Late in the year Mr. Vernay left again for Asia to follow a clew which promised *Rhinoceros sondaicus* and to try for other desiderata.

Curator Anthony was absent from April to October on the Stoll-McCracken Arctic Expedition. This party secured a splendid group of Pacific walrus, a group of Arctic bird life, and good material of the Alaska brown bear, Grant caribou, Sitka deer, et cetera, after a season in Alaska and the Arctic Ocean.

In Africa, exhibition material for the department was secured by the Carlisle-Clark Expedition. Messrs. Butler and Rosenkranz collected accessories and made studies for the group of giant sable antelope in Angola, the expenses of the undertaking being generously defrayed by Mr. Vernay.

On December first, an expedition, known as the Sanford-Patterson-Legendre Abyssinian Expedition, left New York for Abyssinia. Mr. T. D. Carter of this department accompanied the party as preparator and collector of small mammals. The primary purpose of the expedition was to secure a group of nyala for the new Akeley Hall of African Mammals.

Messrs. Tate and Carter returned early in the year from the Lee Garnett Day Roraima Expedition. They secured a large collection of mammals and birds from the Roraima sector in British Guiana.

In July, Mr. Tate departed on the Tyler Duida Expedition, an undertaking of great importance made possible by a generous dona-

tion from Sidney F. Tyler, Jr., who accompanied the expedition. Advices received from the field late in the year report that the expedition had arrived at the scene of operations on the watershed between the headwaters of the Orinoco and the Amazon.

Seven groups of mammals destined for the new Hall of South Asiatic Mammals were placed on temporary exhibition on the third floor. This has freed the Hall of South Asiatic Mammals for the construction of cases and the carrying out of installations in the hall.

Groups for the Akeley Hall of African Mammals, begun or completed during the year, include the giant sable antelope, buffalo, lesser koodoo, waterhole group and plains group. A fine reproduction of the narwhal has been installed in the Hall of Ocean Life. A Russian sheep dog and Belgian sheep dog have been added to the collection of mounted dogs, and a golden baboon has been placed in the Hall of Primates.

Research during the year has suffered because of expeditions and the absence of many of the staff. Curator Anthony has published a Field Book of North American Mammals, 625 pages, which was brought out by G. P. Putnam's Sons in their field book series. Assistant Curator Hatt has written one article for *Natural History* and one for *Ecology*. Assistant George G. Goodwin has published one article in *Natural History* and one in the *Journal of Mammalogy*. Two articles by Mr. William J. Morden were published in *Natural History*. Dr. Glover M. Allen has published one article in *Novitates* on the Asiatic collections.

The campaign for the \$10,000.00 J. A. Allen Memorial Fund was brought to a successful conclusion at the spring meeting of the American Society of Mammalogists. Curator Anthony has been the Secretary and Treasurer for this Fund, and the entire Department of Mammals has been greatly interested in the raising of this sum.

At the annual meeting of the American Society of Mammalogists, three members of the department attended and addressed the Society, Messrs. Morden, Hatt, and Tate.

COMPARATIVE AND HUMAN ANATOMY (William K. Gregory, Curator):—The year 1928 has been notable for the building up of the department's services and resources in five general directions: first, the steady strengthening of our study collection, which is the basis of nearly all our exhibition and research work; second, the constant development of the general exhibit of human and comparative anatomy in preparation for the opening of the *Introduction to the Study of Man* in collaboration with the Department of Anthropology; third, the pushing forward of many investigations bearing on the evolution and comparative anatomy of man and of studies on the anatomy and physiology of the whales; fourth, the beginning of an attempt to weave together the materials from the sciences of physiology, comparative anatomy and palæontology in order to follow the progressive rise of dominant physiological characteristics of man and other mammals, especially their superior adaptability to sharp environmental changes; fifth, the continued development of the collections and exhibits bearing on the study of the horse and its relatives by Associate Curator Chubb.

Thanks to the gifts of the New York Zoological Society, of Mr. Ellis S. Joseph and of Chapman's Zoological Animal Corporation, Associate Curator Raven has been enabled to add many carefully prepared specimens to the study collection, to the great advantage of those who are using and will use this material. Owing to the steady influx of new material, our already crowded laboratory became so congested that it was necessary to install a steel gallery to provide sufficient space for additional tanks. Numerous special dissections have been made in connection with researches in progress.

The synoptic exhibition of human and comparative anatomy, which is being prepared in coöperation with the Department of Anthropology, will, it is planned, be installed in the gallery now occupied by South American archæology. Meanwhile, the exhibition, as fast as it is completed, is temporarily installed in a long series of glass cases in the corridor of the offices on the top floor of the new southeast wing.

Many studies on the comparative anatomy of man and other mammals were conducted by the staff of the department and

other research workers. Of these, a considerable number were published during the year in various journals.

In conclusion, the present activities of the Department have grown largely through the contacts of its staff with the Departments of Zoology and Palæontology in our local universities and with our colleagues in the Johns Hopkins University, the University of Chicago and elsewhere. In a word, we are striving to supply the growing demand from these sources for exhibition and research material bearing on human and comparative anatomy.

EXISTING AND EXTINCT RACES OF MEN (Clark Wissler, Curator-in-Chief):—The most important accession during the year was a large collection of Asiatic religious objects and archæological material from Japan, Europe and Egypt, presented by Dr. Walter L. Hildburgh. Part of this collection was installed by the donor temporarily in the Philippine Hall and in the Japanese section of the Asiatic Hall. No other important installations were made, but all the exhibition cases were thoroughly overhauled and new labels added where needed.

Six field projects were undertaken, two in Mexico, one in South America, one in Asia, one in Alaska, and one in the United States:

Dr. George C. Vaillant left in February for Mexico and Guatemala to seek archæological sites where the stratigraphic method could be used in determining prehistoric culture horizons. In Guatemala, through the courtesies of the Carnegie Institution, chronological relations were determined for important monuments and buildings at Uaxactun. Dr. Vaillant then proceeded to the Valley of Mexico, where sites suitable for excavation were located. The work of the season returned a collection of pottery samples representing the various chronological horizons studied, thus adding to our knowledge of culture sequences in Middle America.

During the summer, Dr. Morton C. Kahn visited Dutch Guiana to study and collect among the Bush Negroes. This expedition was financed by Mr. Myron I. Granger and is known as the Morton C. Kahn-Myron I. Granger Expedition. The undertaking was successful, Dr. Kahn securing a collection representing the art and industries of these little-known tribes, a series of motion pictures, and numerous field-notes.

Mr. Edward M. Weyer, Jr., represented the Department on the staff of the Stoll-McCracken Expedition to Alaska, making archæological excavations on the Alaskan Peninsula near Hot Springs. The results of this preliminary exploration suggest an important lead to the archæology of Alaska.

In cooperation with the Carnegie Institution, Mr. S. Ichikawa visited Chichen Itza, Yucatan, to restore an unusual turquoise mosaic discovered during excavations at that site. The restoration was completely successful.

During the summer, the services of Mr. Gerhardt K. Laves of Chicago University were secured to cooperate with the Department of Palæontology in the exploration of Johnson's Mesa, New Mexico. Mr. Laves made an archæological exploration of Johnson's Mesa, especially the locality near Folsom, where the bones of extinct bison were found associated with chipped implements. The results of this exploration were in the main negative, in that no implements of the type found in association with the bison bones were discovered elsewhere in the locality.

In cooperation with the Central Asiatic Expeditions, the Department secured the services of Alonzo W. Pond as archæologist. Mr. Pond accompanied the Expedition to Mongolia, where he made a large collection of artifacts belonging to the period designated as Dune Dweller. This collection is now in the Museum and a report has been prepared for publication by Mr. Pond.

Of researches in the Museum, mention may be made of work upon the Von Luschan collection of crania resulting in a manuscript by Dr. Harry L. Shapiro on the racial characteristics of a collection of crania from Greifenberg, Austria. Dr. Waldemar Jochelson, former member of the Jesup Expedition staff, was engaged upon a study of our collections from the Yakut of Siberia. Finally a manuscript report on a study of racial characteristics of Polynesians in the Society Islands and elsewhere was completed by Dr. Shapiro.

ASIATIC EXPLORATION AND RESEARCH (Roy Chapman Andrews, Curator-in-Chief):—The two great branches of the work of the Central Asiatic Expeditions, namely, field work and publication, have progressed during the year.

In spite of disturbed political conditions, after delicate diplomatic negotiations the expedition was enabled to again take the field. In April, the motor caravan of eight cars left Kalgan, accompanied by the American Minister, Mr. J. V. A. MacMurray, and a convoy of Chinese soldiers.

The Staff of the Expedition in 1928 consisted of Roy Chapman Andrews, Leader and Zoologist; Walter Granger, Chief Palæontologist, second in command; Albert Thomson, Assistant in Palæontology; L. Erksine Spock, Geologist; Alonzo W. Pond, Archæologist; J. A. Perez, Surgeon; W. P. T. Hill, Topographer; J. B. Shackelford, Cinematographer; J. McKenzie Young, Chief Motor Transport; G. Horwath, Motor Transport.

The particular objects of the season's work were: the excavation of rich fossil beds at Shara Murun, discovered the previous year, and the exploration of Inner Mongolia westward to Turkestan. Walter Granger carried on the palæontological studies at Shara Murun, while Dr. Andrews and others set out on the search for a western trail. The western trip proved bitterly disappointing. Not only did we find no fossil deposits, but the country was so blanketed with loose sand that motor travel was impossible. The archæologist, the geologist, and the topographer found some things of interest, but it was a land of utter desolation. Thus the first two months of the expedition were a dismal failure.

Upon the return from the west, exploration was directed to a great area in eastern Mongolia. This proved to be one of the richest deposits yet located. New geological horizons were discovered to contain a new fossil fauna.

Before we started eastward, the expedition remained for two weeks at Urtyn Obo, Granger's locality. It yielded a series of amazing mammals. Most spectacular of all is a giant beast allied to the *Baluchitherium*.

The eastern exploration proved to be well worth while. A vast area of Pliocene deposits was discovered. Strata of this age are almost non-existent in the region of our previous exploration. In fossils, it yielded an extraordinary mastodon with a shovel-like jaw, which is one of the most amazing adaptations in the animal kingdom; also many other less spectacular but hardly less important specimens. Our topographer mapped thousands of square

miles of uncharted country. The archæologist discovered more than a hundred stations of the Dune Dweller culture, giving a very clear idea of the life story of these primitive people.

In 1929, it is planned to return to these fossil beds and to remove many specimens that had to be left in situ.

During the year, publication preparation has progressed satisfactorily under the editorship of Dr. Chester A. Reeds.

Volume II, "The Geology of Mongolia," by Professor Charles P. Berkey and Professor Frederick K. Morris, issued in 1927, has been distributed to one hundred deposits, and 292 copies have been sold. The work has brought forth many favorable comments. Professors Berkey and Morris have nearly completed the text for a second volume on the geology of Mongolia, and Dr. Reeds has nearly completed the editorial work on Dr. A. W. Grabau's volume on the Permian Fauna of Mongolia, which can be sent to the printer as soon as funds are available.

In addition, seven *Bulletin* and *Novitates* articles have been published during the year.

EDUCATION AND PUBLIC HEALTH (George H. Sherwood, Curator-in-Chief).—The Museum's School Service becomes more and more an integral part of the educational system of the city. This regular service includes the sending out of nature study collections, the lending of lantern slides and motion pictures, the giving of lecture courses for elementary and high schools, special instruction for the blind, exhibition hall talks for classes, and general guidance through the halls for children and adults. These activities have been maintained throughout the year, and through them hundreds of thousands of school children have been brought in contact with the Museum's treasures. The extent of this service and its growth are indicated by the following summary of comparative statistics.

	1926	1927	1928
High school students studying special collections.....		810	1,880
Visitors to Bear Mountain.....		23,000	42,000
Attendance at library loan exhibits.....	32,592	27,372	113,730
Attendance at lectures.....	171,769	212,917	218,267
Pupils viewing motion picture films.....	530,955	1,123,704	1,576,249
Pupils using nature study collections.....	765,790	1,679,589	2,282,272
Pupils viewing lantern slides...	4,358,423	6,866,112	9,734,122
Grand totals.....	5,859,529	9,933,504	13,968,520

This year (1928) special attention has been given to intensive instruction with small groups to supplement the mass instruction. To this end, study tables and reference books have been placed in several halls; indoor nature trails have been laid out, and we are now preparing courses on Museum facilities for teachers and other students.

The Board of Education, recognizing the value of the Museum School Service, has assigned three substitute teachers to assist in our educational work. One of these teachers the Museum has assigned to the School Nature League to assist in the nature instruction. The addition of these teachers to the department staff is enabling us to extend our facilities to larger numbers of pupils than would otherwise be possible.

Education of adults as well as of children has also been fostered through the operation of the Trailside Museum and Nature Trails at Bear Mountain, and by systematic guidance through the Museum halls.

The School Service Building was formally opened on January 17, and the William H. Maxwell Memorial was unveiled and presented to the Museum by the Maxwell Memorial Association. The exercises were held in Education Hall. City officials and prominent educators of city, state, and nation were present. President Osborn presided. Park Commissioner Herrick represented the Mayor. The speakers included Dr. John H. Finley, United States Commis-

sioner John J. Tigert, Superintendent O'Shea, William H. Green, and George H. Sherwood.

The usefulness of this building has been evidenced daily. Not only has it enabled us to care more adequately for visiting classes, but its facilities have made it possible to extend unusual hospitality to visiting scientific organizations, including the American Association for the Advancement of Science, the XXIII International Congress of Americanists, the New York Association of Biology Teachers, the New York Academy of Sciences and others. Education Hall has been used for special exhibitions and meetings, including five exhibits of paintings, two exhibits of biological apparatus and aids for teachers, an exhibit of handicraft material, and a contest between representatives of outdoor organizations, including the Woodcraft League, Boy Scouts, Girl Scouts, Campfire Girls, and others. The Aquarium Society held their annual exhibit there, as did the Horticultural Society. Education Hall housed the Children's Fair in the autumn, and the New York State Teachers Association of Visual Instruction met there. The classrooms are in continuous use for the accommodation of visiting classes, many of which bring their lunches.

Extensive as is our contact with the schools, we are obliged to deny more than 33% of the requests for aid because of lack of visual instruction material, nature collections, slides, etc. Our greatest need is a special fund of \$50,000 which can be applied exclusively to extending and duplicating our collections for school service.

THE LIBRARY (Ida Richardson Hood, Acting Curator):—As one of the most comprehensive in its specialty, the Library of The American Museum of Natural History is attracting an increasingly large number of readers. Not only the staff and visiting scientists avail themselves of its privileges, but its Reading Room is frequented by students from the schools and universities, newspaper men, authors, artists and many others, to all of whom the Library endeavors to give the attention and assistance that their individual problems demand.

In an attempt to reach an even larger public, reading tables, at President Osborn's suggestion, have been placed in the various exhibition halls. These tables have a specially designed case containing outstanding works on the specific subject.

Also, at President Osborn's request, cases have been installed in Memorial Hall in which are exhibited the publications issued by the Museum as well as books by authors who are members of the staff or who are closely associated with the work of the Museum. The exhibition has done much to bring before the public the extent and scope of this institution's contributions to scientific and natural history literature.

The rapid upward course of the Museum's growth, calling for service to the wider interests of an increasing staff and a larger public, has brought with it urgent need of readjustment. One new assistant, Miss Madeleine Curtis, has been added to the Library personnel. Additional stack room has been provided and many improvements in equipment have been made. The Osborn Library of Vertebrate Palæontology reports a year of gratifying progress.

The matter of new accessions is still a serious one. Much material is obtained through exchange, since the excellent quality of the Museum's publications easily establishes contacts with institutions and societies of similar interests throughout the world. There is, however, a large amount of scientific literature which can be secured by purchase only, and, with the vast increase in the price and number of standard periodicals, there remains little surplus from a limited budget for the acquisition of separate works and for the increasingly precious second-hand material.

The Library records, with deepest regret, the death of Mr. Ogden Mills whose friendly interest and generosity extended over the period of his Trusteeship.

The accessions for the year total 2,906, of which the following are of special note:—

The Vernay Collection, containing forty-three volumes on the fauna of India. Gift of Mr. Arthur S. Vernay.

Tilney, F. S.—The Brain from Ape to Man. Gift of President Henry Fairfield Osborn.

A collection of books on Arctic exploration. Gift of President Henry Fairfield Osborn.

Curtis, Edward S.—The North American Indian. Three volumes of text and plates. Part of series subscribed for in the name of the Library by the late J. Pierpont Morgan.

Ten original copper plates from which the first edition of Wilson's Ornithology was made. Gift of Dr. Thomas Barbour.

Voyage Zoologique de Henri Gadeau de Kerville en Syrie (Avril-Juin, 1908). Gift of Mr. Henri Gadeau de Kerville.

Levillier, Jean—Paracas. A contribution to the study of Pre-Incaic textiles in ancient Peru. Gift of the author.

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

The *Bulletin*, containing the larger scientific papers: 567 pages have been issued, with 39 plates, 24 maps and 98 text figures.

The *American Museum Novitates*, containing the shorter scientific papers: 396 pages have been issued, with 130 text figures.

The *Anthropological Papers*, concerned with results of research conducted under the auspices of the Department: 788 pages, with 166 text figures, and a title-page and index to Volume 29 have been issued.

The *Handbooks*. New editions have been issued of Numbers 3 and 8.

The *Guide Leaflets*. Three new Leaflets have been published, Numbers 71, 72 and 73, as well as new editions of Number 70, of the *General Guide* and of *An Hour in the Museum*.

Special Publications, not identified with any series. "Essentials of Anthropometry" by L. R. Sullivan, revised by H. L. Shapiro, and "Peoples of Asiatic Russia" by Waldemar Jochelson.

The sales of Popular Publications amounted to 19,311 copies, of which 1,498 *Handbooks* and 2,579 *Leaflets* were sold through the Library, and widely distributed over the United States, many going to schools, colleges and libraries. The most popular of the *Leaflets* were "The Hall of Dinosaurs," "Hall of the Age of Man," and "The Big Tree and Its Story."

Natural History has completed its twenty-eighth volume.

Central Asiatic Publications. A gratifying interest has been shown in the publications of the Central Asiatic Expeditions, both by the demand for the preliminary reports issued in the Museum *Bulletin* and *Novitates* and by the purchase of Volume II of *The*

Natural History of Central Asia, entitled "Geology of Mongolia," by Charles P. Berkey and Frederick K. Morris. A limited number of copies of this volume were secured for distribution to Deposits, since by agreement they receive all works published by the Museum. In addition, one hundred twenty-two copies have been distributed by sale.

PRINTING AND PUBLISHING (Hawthorne Daniel, Curator):—The Department of Printing and Publishing was organized in 1927, its serious work beginning about the first of the year, 1928. At that time *Natural History Magazine*, the largest individual task of the Department, was four and one half months late, and the scientific, popular, and job press work that the Department was called upon to do was similarly delayed. The first task of the Department, therefore, was to increase its output in order to make possible the prompt printing and publishing of such material as was required. By August 1, the magazine was on time, and during the year approximately 120,000 copies, constituting eight issues, were printed, bound, and mailed.

Although the printing of scientific papers was subject to a very great delay at the first of the year, by November 1 it was necessary for the Department to make a special request that more scientific work be supplied in order to keep the presses busy. Even the demands laid upon the Department by President Osborn's tremendous work, the Proboscidea Memoir, were met promptly after the middle of the year.

A cost-accounting and record system was installed, making it possible for the Department to produce printed matter at a reduced cost and to foretell the cost of each "job" when that is necessary. The work in hand also, because of this system, is now clearly classified and recorded so that at any moment it is possible to tell what work the Department has done, or is doing, for each Department in the Museum, and how far the work has progressed.

Owing to the pressure of last-minute rush work for the American Association for the Advancement of Science, the Department, for a few days prior to the meeting of the Association, reached its saturation point. Two days after the Association had met, however, this rush work had been completed and the Department was in a position to accept still more work.

The Department has made it a point to cooperate with the various other Museum Departments in an advisory capacity whenever advice on printing or on the preparation of printed matter was required, and it was able during 1928 to produce thirty-three and one-third per cent. more work than had ever been produced previously in the same length of time. The additional equipment that the Department was able to obtain for use during 1928 was negligible. Only three additional employees—an assistant editor for the scientific publications, an assistant to the Curator, and one employee in the composing room—were added. With this increase in the staff and with no additional equipment of consequence, the Department was finally able to absorb promptly the work that it was called upon to do. At the end of the year several new and inexpensive machines, particularly designed to eliminate handwork in the bindery, were obtained, and new quarters for the bindery were assigned. The equipment was not received in time for use during 1928, however, and the move to the new quarters could not be made before the end of the year.

Of the budget assigned to the Department, approximately ten thousand dollars was saved, despite the new members of the staff and the considerable increase in the output. Furthermore, the Museum's contribution of printed matter to the Children's Fair, the Twenty-third International Congress of Americanists, The American Association for the Advancement of Science, and several smaller items, were paid for out of the Department's budget.

With the present methods in force and with the new equipment purchased in 1928 for the bindery, the Department of Printing and Publishing is in a position at the end of the year to look forward to a further increase in its output during 1929.

PUBLIC INFORMATION (George N. Pindar, Chairman)—The large number of press bulletins issued by the Department of Public Information during 1928 is witness of the increased interest of the public in the affairs of the Museum. Of seventy-three bulletins and articles issued, 5,537 copies were sent to newspapers, magazines and individuals. The interest of the press has increased enormously in the scientific work of the Museum, as may be noted by the many special articles, the editorial comment and press notices appearing throughout the year. Members of the press and

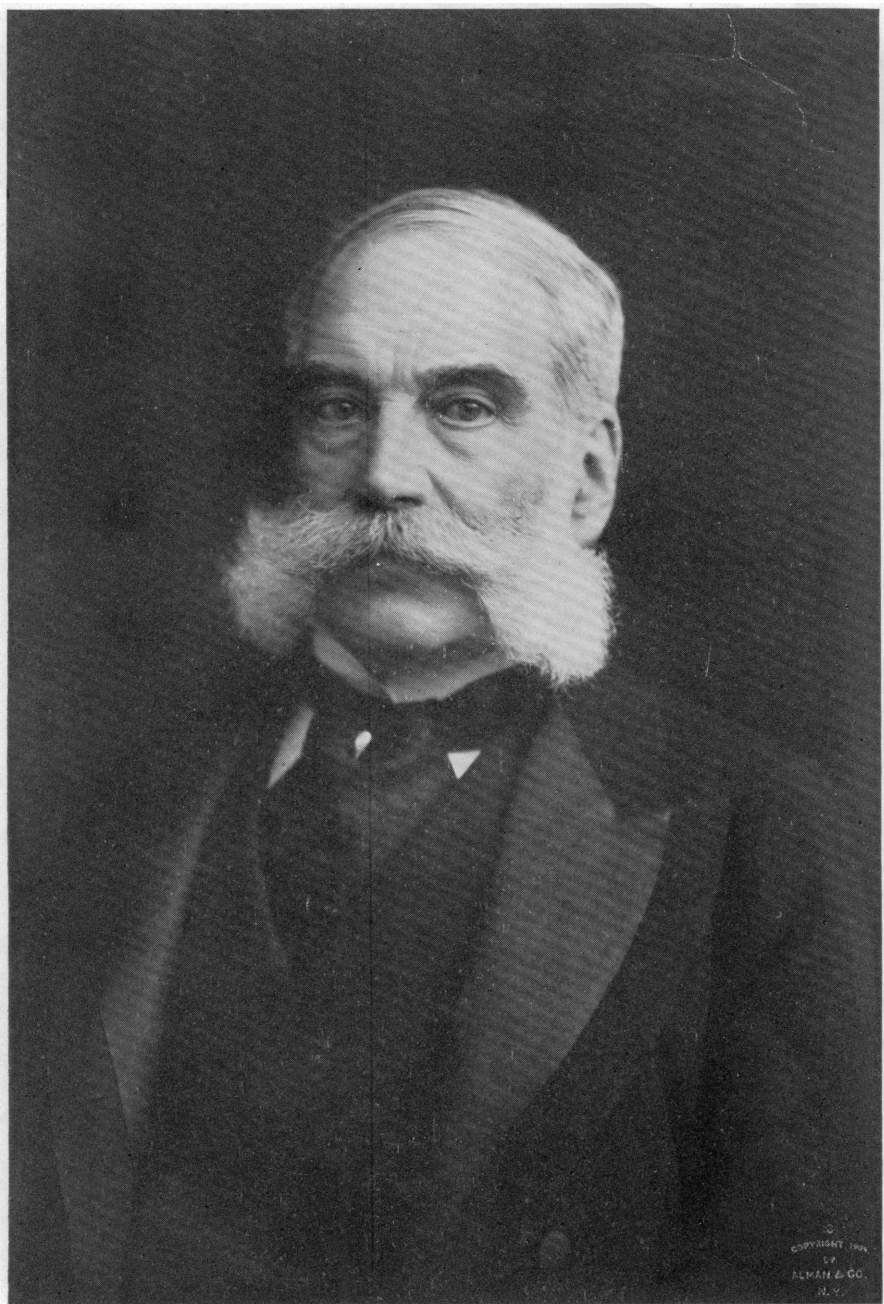
feature writers are frequent visitors at the publicity office, and their cooperation with us in the rendering of accurate accounts of Museum events is greatly appreciated.

This is distinctly a scientific age. So many and varied have been the discoveries and inventions in recent times that the mind of the citizen of to-day is fairly well stored with certain basic scientific facts which have been widely disseminated, and, having assimilated these, his appetite is whetted for more. The press is responding to this attitude on the part of the public by every means in its power. The latest scientific discoveries made by the members of our expeditions are carefully studied by the representatives of the press and special writers, and the reports published are rarely biased or incorrect.

Calls for photographic material have increased, and, in addition to making frequent requests of our richly stored photographic library, permission has often been granted to press representatives and film corporations to make their own photographs of the material to be used for illustration.

The meeting of the XXIII International Congress of Americanists, as well as the meetings of the American Association for the Advancement of Science, taxed the resources of the publicity office to a considerable extent, twelve thousand sheets having been mimeographed, but we were able to accomplish our portion of the work of preparing papers for the press, so that the meetings were most satisfactorily covered by the newspapers.

Our work with the press has been handicapped in a measure, for the reason that a number of individuals sponsoring various interesting expeditions have reserved the right to distribute their own publicity, and this has resulted in considerably cramping our work with the press, although in a number of instances our interest has later been enlisted in order to obtain a wider distribution for the work of these field parties. On this point we have received frequent expressions of regret from the members of the press that private publicity bureaus should have precedence over the open-handed freedom which we have always endeavored to give to those papers which have ever been ready to respond to our requests for a distribution of news.



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MORRIS KETCHUM JESUP
Third President
1881-1908

From Museum Portrait by Eastman Johnson

ACCESSIONS, 1928

ASTRONOMY

BY GIFT

- BENNER, HENRY DILL, New York City.
 1 Blueprint star-chart.
- BOEHMKE, R., Philadelphia, Pennsylvania.
 Optical parts for a modern telescope.
- EGNER, F. L., New York City.
 1 Copy "Guide to the Constellations," Barton & Barton.
 1 Copy "Relativity and Space," Steinmetz.
- FURTH, MR. A. L., New York City.
 2 Glass negatives.
- LICK OBSERVATORY, Mount Hamilton, California.
 2 Transparencies Mars and Jupiter;
 2 sets photographic prints of astronomical subjects.

MINERALOGY

BY GIFT

- ABBE, DR. ROBERT, Estate of, New York City.
 14 Gypsum crystals (Desert Roses): Sands of Eastern North Africa.
- ALMOND, W. RICHIE, New York City.
 2 Specimens of calcite, St. George, Bermuda.
- AMERICAN POTASH AND CHEMICAL COMPANY, Trona, California.
 5 Specimens of Trona, Trona, California.
- BROWN, BARNUM, New York City.
 1 Volborthite, Colorado; 2 Replaced barite crystals, Colorado.
 1 Amethyst, near Aripa, Mexico.
 1 Chalcopyrite, Cananea, Mexico.
 3 Chalcopyrite and bornite; 1 Chalcopyrite, bornite and molybdenite, Cananea, Mexico.

- 1 Molybdenite, Cananea, Mexico.
 1 Stephanite, near Aripa, Mexico.
- CAMPBELL, PRESTON W., Abingdon, Virginia.
 14 Staurolite twin crystals. Virginia.
- CAPAROSA, CARNETO, New York City.
 2 Aragonite. Villa Rosa, Sicily.
- COLOMBIA EMERALD DEVELOPMENT CORP., New York City.
 1 Emerald in matrix, Colombia.
- COLUMBIA UNIVERSITY (Department of Mineralogy), New York City.
 1 Alabandite, Tombstone, Arizona.
- COOPER, MORRIS, New York City.
 1 Rutile in quartz, St. Gotthard, Switzerland.
- CRANE, DR. F. D., Montclair, N. J.
 1 Aragonite (Mexican onyx), Chile;
 1 Silver, Mineral Park, Arizona.
- FERGUSON, C. B., Kent, Washington.
 2 Quartz twin crystals; 1 Garnet; 2 Orthoclase (Adularia): Alaska.
- HARSTAD, A. J., Wolf Creek, Montana.
 1 Azurite with chalcedony and jasper; 2 Rhodonite; 1 Serpentine; 1 Sodalite in Calcite: Wolf Creek, Montana.
- HAWKINS, DR. ALFRED C., New Brunswick, N. J.
 4 Calcites, New Jersey.
- HAWORTH, FRED J., Ralston, N. Mex.
 1 Staurolite, Taos, New Mexico.
- HILDBURGH, DR. WALTER L., New York City.
 1 Aragonite, carved panel, Nice, France; 2 Carved graphite elephants, Ceylon.
- HOADLEY, CHARLES W., Englewood, N. J.
 1 Chabazite in quartz, Prospect Park, N. J.
 1 Chalcopyrite on heulandite and pyrite, Prospect Park, N. J.
 1 Ilvaite, Owyhee County, Idaho.

3 Thaumassite, Englewood, N. J.
 JAFFRAY, MRS. ROBERT, New York City.

30 Small quartz crystals, Herkimer County, New York.

KOEBERLIN, F. R., New York City.

1 Aramayoite on galena; 1 Cassiterite and teallite from Chocaya, Bolivia.

LABAU, J. P., Hopewell, N. J.

1 Clinoclase; 1 Conichalcite; 1 Enargite; 1 Brochantite; 1 Wurtzite: Utah.

LEON, BROTHER, Habana, Cuba.

1 Calcite; 1 Chromite; 1 Limestone: Cuba.

MIKIMOTO, K., New York City.

9 Cultured pearls; 1 Section; 1 Sawn pearl: Japan.

MOOREHEAD, DR. WARREN K., Andover, Mass.

1 Fluorite bead, Posey County, Ind.

MILTON, CHARLES, New York City.

1 Canneloid; Apure, Venezuela.
 1 Libollite; Senza do Itombe, Angola, Africa.

MORTON, JAMES F., Paterson, N. J.

2 Opals (Hyalite), New Jersey.

MULLINEAUX, E. J., Gateway, Colo.

1 Carnotite, Dolores Canyon, Colo.

PEPPERS, RISOL, Ontario, Canada.

1 Actinolite; 1 Galena; 3 Gold in quartz; 1 Hornblende; 1 Magnetite in serpentine; 1 Microcline; 1 Pegmatite; 1 Pyrrhotite and Pyrite.

1 Pyrrhotite in decomposed gabbro, 1 Serpentine, 1 Sphalerite, Ontario, Canada.

ROSE, SIDNEY, New York City.

(Transfer from Department of Geology.)

Serpentine rock containing crystals.

UNITED STATES GEOLOGICAL SURVEY,
 Washington, D. C.

10 Potash mineral drill cores.

BY EXCHANGE

ACADEMY OF NATURAL SCIENCES,
 Philadelphia, Penn.

1 Jarosite; 1 Wavellite: Bolivia.

BRIGHAM, PROFESSOR EDWARD M.,
 Battle Creek, Mich.

6 Chalcedony, New Mexico.

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

1 Cerussite and pyromorphite,
 Missouri; 1 Iolite, Connecticut;
 1 Quartz, New Hampshire.

MAHLER, DR. EUG. WILLIAM, New
 York City.

6 Cut tourmalines, Ceylon.

MUSKOVA, MRS. ALICE, Scarsdale,
 N. Y.

1 Brooch, 51 cut garnets; several
 small rough garnets.

PFOEDTE, O. F., Cairo, N. Y.

1 Lollingite, South Dakota.

BY PURCHASE

GENERAL FUND.

1 Afwillite, Kimberly, South
 Africa.

1 Anemousite and Limosite, Island
 of Limosa, Italy.

1 Anglesite, Tsumeb, South West
 Africa.

13 Aquamarine beads, North Africa.

2 Avogadite, Vesuvius, Italy.

1 Backstromite, Langban, Sweden.

1 Baldaufite, Hagendorf, Bavaria.

1 Berthonite, Slata, Tunisia.

1 Beryl, Tougerson, S. W. Africa.

10 Calcites, Houghton, Mich.

1 Duftite, Tsumeb, S. W. Africa.

2 Eosphorite, Newry, Me.

1 Fizelyite, Kisbanya, Hungary.

1 Fluoborite with Ludwigite, Kall-
 mora, Norberg, Sweden.

1 Freirinite, San Juan, Department
 of Freirini, Chile.

1 Hillebrandite, Chihuahua, Mexico.

1 Halite, Prussia.

1 Indicolite in Quartz, Newry, Me.

- 1 Kolovratite, Fergana, Russian Turkestan.
 - 1 Kreuzbergite, Hagendorf, Bavaria.
 - 1 Loparite, Kola Peninsula, Russia.
 - 1 Mackintoshite, Wodgina, Western Austria.
 - 1 Mechernichite, Mechernich, Eifel, Germany.
 - 1 Merwinite with Spurrite, Crestmore, Calif.
 - 1 Pollucite (cut), Newry, Me.
 - 15 Quartz crystals, Saratoga Springs, N. Y.
 - 1 Quenselyite, Langban, Sweden.
 - 1 Rose Quartz, Newry, Me.
 - 1 Ramsayite, Kola Peninsula, Russia.
 - 1 Realgar, Roumania.
 - 1 Spurrite, Chihuahua, Mexico.
 - 1 Surassite, Canton, Graubundun, Switzerland.
 - 3 Faceted quartz balls.
 - 5 Vauxite and Paravauxite, Llalagua, Bolivia.
 - 1 Vonsenite, Riverside, Calif.
 - 1 Weinschenkite on Limonite, Auerbach, Bolivia.
 - 1 Wenzelite, Hagendorf, Bavaria.
 - 1 Weslienite, Langban, Sweden.
 - 1 Zircon, Siam.
 - 1 Millosevichite, Lipari Island, Italy.
 - 10 Topaz, S. W. Africa.
- MATILDA W. BRUCE FUND.
- 1 Cut Cassiterite, 13.40 carats, Araca, Bolivia.
 - 1 Cassiterite crystal from which the above was cut.
 - 1 Elephant, carved from Rose Quartz, Maine.
 - 1 Gadolinite, Tellar County, Colorado.
 - 6 Cut Tourmaline, 19.1 carats, Kashmir, India.

GEOLOGY

BY GIFT

ANDERSON, LORAIN.

- 1 Fossil specimen: *Cameroceras brainerdi* Whitfield; Lake Champlain, N. Y.

BEEDE, T. G., Youngstown, Ohio.

- 1 Lepidodendron (received through G. H. Lutz of Philadelphia).

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

Corals.

BERNHEIMER, CHAS. L., New York City. (Through Mr. Barnum Brown.)

- 2 Glaciated boulders; Ontario, Canada.

- 1 Chalcedony, Arizona.

BIRDSALL, JOHN M., Toms River, N. J.

- Sample of clay burned to cone 12, "artificial lithification" (approximately 1370° Centigrade).

BROOM, DR. ROBERT, Cape Colony, South Africa.

- 1 Specimen asbestos; 2 Specimens glacial "Dwyka" conglomerate.

BROWN, BARNUM, New York City.

- 1 Conglomerate; Colorado.

CARPENTER, DR. F. M., Harvard University, Cambridge, Mass.

- 159 Fossil ants, Florissant, Colorado.

CASE, P. E., Brooklyn, New York. (Transferred from Department of Mineralogy.)

- Collection of small fossils.

CHASE, MISS CATHERINE R., Youngstown, Ohio.

- 1 Specimen of *Arthraria*, Masury, Ohio.

EISENMAN, WILLIAM, New York City.

- 2 Specimens of Diatomaceous earth, Algiers.

GIBSON, FRANK B., Newark, Ohio.

- 3 Specimens of native copper, Cliff Mine, Houghton County, Michigan.

GILL, W. H., Melbourne, Australia.
(Received through Department
of Anthropology.)

3 Obsidianites, western Victoria
and central Australia.

HARPER, E. K., Manila, P. I.

15 Specimens of Billitonite, Island
of Billiton. (Received through
Mr. H. P. Whitlock).

HEADLEY, DAVID E., Georgetown,
British Guiana.

7 Specimens of Bauxite, diamondiferous
gravel, British Guiana.

HESTER, J. P., Avalon, Calif.

1 Colored photograph; 5 Pebbles
(concretions); Arizona and California.

HOLT, FRED, Brooklyn, New York.

1 Eroded quartzite.

HORNE, HON. H. E., Sydney, New
South Wales.

8 Fossil plants, Leadville, N. S. W.

LELAND, CHARLES, Moline, Kans.

1 Fossil (brachiopod of the genus
Spirifer enclosed in Topeka lime),
Moline, Kansas.

LEON, BROTHER, Habana, Cuba.

3 Rocks, Cuba.

MINERALOGY, DEPARTMENT OF, Museum.
(Transfer.)

2 Specimens (country rock, porphyry). 1 Native iron; 1 Fossil
in chalcocite, New Mexico. (Part
of Ottinger collection.) 1 Porphyry;
1 Calcite. Belgium. (Part of Destinez
collection.)

NELSON, N. C., New York City.

Gray granite, Stone Mountain,
16 miles northeast of Atlanta,
Georgia.

ROSALSKY, MAURICE, New York City.

2 Specimens of Basalt, Wyoming.

SANDERS, S. O., Hot Springs, S. Dak.

Calcareous concretionary mass,
Hot Springs, S. Dak.

SCHNAKENBERG, H. E., New York
City.

1 Fossil; Larrabee's Point, Vt.

5 Fossils; Atlantic Highlands, N. J.

SEREBRIAKOV-ELBOURSKY, PROFESSOR
PAUL V., Téchéran, Persia.

12 Fossil plants and fragments,
Elbours, Caucasus Mts.

VOYAGES, MICHAEL H., New York
City.

1 Valve of an oyster shell, Western
Macedonia, Greece.

WALKER CEMENT PRODUCTS, Inc.,
Little Ferry, N. J.

5 Clay dogs, Hackensack River,
New Jersey.

WALTERS, HAROLD J., New York City.

8 Ironstone concretions; 14 Crinoid
stems; 9 Shells; 2 arrow points,
New York City.

WOOD, MISS BEATRICE M., Upper
Montclair, N. J.

Fossil specimen of *Spirophyton*,
Montclair, N. J.

BY EXCHANGE

NININGER, PROFESSOR H. H., McPherson,
Kansas.

2 Meteorites, Ballinger, Texas, and
Duchesne, Utah.

BY PURCHASE

2 Colored photographs, Arizona.

Fossil Wood Specimen, North
Dakota.

30 Specimens of *Receptaculites* from
Hawkins County, Tenn.

Ordovician sponges (15 originals, 3
casts), Manhattan, Nevada.

1 Specimen of *Sphenodiscus*, Ripley
formation, Upper Cretaceous,
Mississippi.

22 Specimens of sea urchins, Mississippi.

2 Lobster claws, attached, Cretaceous.
Long Island Sound, near
Westbrook, Conn.

BY EXPEDITION

CENTRAL ASIATIC EXPEDITIONS.

400 Rocks and fossils, Inner Mongolia; 1 Argillaceous sandstone; 1 Weathered limestone; 2 Rocks; 4 samples of matrix from a fossil pit, China. Collected by L. E. Spock.

EKBLAW, W. ELMER.

Rock specimens (Crocker Land Expedition—W. Elmer Ekblaw).

GEOLOGY DEPARTMENT FIELD WORK (J. W. Monahan and Bert Zellner).

117 Becraft limestone, Hudson, N. Y., Fossils in Normanskill shale, Mt. Merino, N. Y. Red shale, Triassic red beds beneath Palisades diabase, Cedar Pond Brook, Haverstraw to Newburgh (Dr. Reeds).

RUWENZORI-KIVU EXPEDITION, Africa.

Collection of rocks, Ruwenzori. Collected by Dr. J. P. Chapin, Mr. DeWitt L. Sage and Mr. E. P. Mathews.

VERNAY ANGOLA EXPEDITION, Africa.

25 Fossils, Angola, Africa. Collected by Herbert Lang.

VERTEBRATE
PALÆONTOLOGY

BY GIFT

BARBOUR, E. H., Lincoln, Nebr.

2 Casts, sections Mammoth teeth.

BROWN, BARNUM, New York City.

8 "Mummies" of probably recent mammals. Southern New Mexico.

BROWN, COL. E. T., New Market, Va.

1 End of ulna of a black bear, *Ursus americanus*: Endless Caverns, New Market, Virginia.

BROWN, N. H., Lander, Wyo.

Part of skull and jaw, artiodactyl: Beaver Divide Escarpment.

DAY, PROFESSOR ALFRED ELY, Beirut, Syria.

60 Jaws of *Cervus* and *Capra*, 1 peccary tooth, 12 unidentified bones.

DICKINSON, A. W., Rock Springs, Wyo.

1 Fossil track: Superior, Wyoming. Supposed dinosaur tracks: Superior, Wyoming.

GORTON, MRS. JAMES T., Yonkers, N. Y.

3 *Carcharodon* teeth, part of rib and vertebra of Dugong.

HALL, R. D., New York City.

Portion of jaw of *Bison* cf. *occidentalis*: Gillette, Wyoming.

HAMILTON, GEORGE, Frenchglen, Oregon.

3 Specimens, camel, peccary and horse: Eastern Oregon.

HESTER, J. P., Flagstaff, Ariz.

2 Samples sandstone: Flagstaff, Arizona.

HOLMES, WALTER W., Waterbury, Conn.

23 Drawings by Mrs. Louise Nash.

JOHNSON, FRANKLIN, Glenridge, N. J.

Specimens, Cetacean and Sirenian: Near Gillette, Fla.

KNOX, GLEN, Quealy, Wyo.

1 Tooth and jaw of *Elephas columbi*: Quealy, Wyoming.

LANG, W. D., Keeper, Geology Department, British Museum.

Casts of Proboscidea tooth fragments.

LOOMIS, DR. F. B., Amherst, Mass.

1 Wax impression Indian elephant tooth.

McKORKLE, MASTER HUGH, Bear Creek, Montana.

1 Fossil shark tooth.

MOORE, J. E., Sarasota, Fla.

25 Fossil bones: Near Sarasota, Florida.

2 Samples blue clay: Sarasota, Florida.

OLSEN, A. A., Gloversville, N. Y.

- 1 Mastodon tooth: Northwestern Peru.

RADOVICH, JOHN, Rock Springs, Wyo.

- 1 *Uintatherium* tooth, *Elephas* teeth and part of jaw: Near Rock Springs, Wyoming.

ROSE, DAVID, Brackettville, Tex.

- 32 Artifacts: near Brackettville, Texas.

SEREBRIAKOV-ELBOURSKY, PROF.

DR. PAUL, Téchérán, Persia.

- 1 "Scientific collection," plant remains, 1 manuscript for Asia Magazine: Elbours, Caucasus Mts.

SIEGFRIEDT, J. C. F., Bear Creek, Mont.

- 1 Cast mammal tooth: Bear Creek, Montana.

WILLIAMS, DR. TALCOTT, ESTATE OF, Beirut, Syria.

- 1 Fossil horse tooth and fragments: Cave in Morocco.

BY EXCHANGE

ABSOLON, DR. KARL, Brunn, Checho-Slovakia.

- Cast of *Elephas* jaws, 1 flat stone, 1 irregular stone, epiphysis of *Elephas humerus*.

COLORADO MUSEUM OF NATURAL HISTORY, Denver, Colo.

- 1 Cast, back of Bison skull with horns: Vernon, Texas.
1 Male Bison skeleton: Folsom, New Mexico.

MUSEO DE LA PLATA, Argentina.

- 1 Collection fossil specimens: South America.

STEHLIN, DR. G. H., Basle, Switzerland.

- Many specimens, fossil mammals: Various localities in France.

BY PURCHASE

- 4 Horse teeth and mastodon milk molar: Honduras.

Mastodon bones: Ainsworth, Neb. Cast of slab with lion tracks.

- 1 Skeleton of *Lycænops ornatus*, South Africa.

- 1 Skull, 20 presacral vertebrae, sacrum, etc., of *Tapinocephalus atherstonei*, South Africa.

BY EXPEDITION

BEAR CREEK, MONTANA, EXPEDITION. (Miss Rachel A. Husband.)

- Collection Eocene vertebrate fossils: Bear Creek, Montana.

BEAR CREEK, MONTANA, EXPEDITION. (James F. Lobdell.)

- Collection Eocene vertebrate fossils: Bear Creek, Montana.

CENTRAL ASIATIC EXPEDITION.

- Lower jaw of *Amebelodon grangeri*. Skull of *Embolotherium andrewsi*.

FOLSOM, NEW MEXICO, EXPEDITION. (Peter C. Kaisen.)

- Collection Pleistocene fossil material: Folsom, New Mexico.

IDAHO EXPEDITION. (Dr. C. C. Mook.)

- 15 Pleistocene vertebrate fossils: American Falls, Idaho.

LECANTO, FLORIDA, EXPEDITION. (Carl Sorensen.)

- Collection Pleistocene fossil material from limestone cave: Lecanto, Florida.

NEBRASKA EXPEDITION. (Carl Sorensen.)

- 1 *Elephas* tooth: Between Crawford and Chadron, Nebr.

LOWER INVERTEBRATES

BY GIFT

ALMOND, W. RITCHIE, St. George, Bermuda.

- 14 Land Shells, Bermuda.

- BOEKELMAN, H. J., De Land, Fla.
1 Land shell (*Achatina linteræ*), South Africa.
- BOONE, MISS LEE, New York City.
1 Crab, Long Island; 14 Specimens identified echinoderms: Panama, Chile, Peru.
- BRACKETT, CAPT. ERNEST.
1 Specimen finger sponge, Maine.
- BRIGHAM, EDWARD M., Battle Creek, Mich.
5 Brachiopods (*Frenulina sanguinolenta*), Hawaii.
- BULKLEY, DR. L. C., Plainfield, N. J.
2 Crustaceans; 2 Myriapods; 1 Coral; 14 Land and marine shells.
- CADY, MRS. BERTHA CHAPMAN, New York City.
2 Land shells; Sapio Valley, New Mexico.
- CARLSON, JOHN, Glendale, L. I., N. Y.
1 Specimen coral (*Acropora cervicornis*).
- CHUBB, DR. E. C., Durban Museum, Natal, South Africa.
2 Specimens Peripatus (*Opisthopatus cinctipes*); 1 Specimen parasitic hydroid (*Hydrichthys boycei*) Durban, South Africa.
- DE LAVAN, DR. D. BRYSON, New York City.
1 Specimen coral (*Pocillopora*); 1 Specimen black precious coral.
- DE SOLA, C. R., New York City.
645 Marine shells; 4 Echinoderms; 21 Pieces coral: Galapagos.
- EDMONDSON, PROF. C. H., Bishop Museum, Honolulu, Hawaii.
31 Identified Anthozoa, 3 species, Hawaii.
- FALLICK, MISS SALLY, New York City.
1 Sea urchin.
- FANOURIS, PETER, Tarpon Springs, Fla.
1 Specimen of sponge attached to coral rock, Rhodes Island, Aegean Sea.
- GRAVE, DR. CASWELL, Washington University, St. Louis, Mo.
2 Specimens of ascidians, Tortugas, Florida.
- HAIGHT, MRS. SHERMAN, New York City.
1 Leech from mouth of hammer-head shark; 1 Hermit crab: Florida.
- HART, CLARENCE E., Solomon Islands.
100 Land and fresh-water shells, Solomon Islands.
- HEALEY, EDWARD, St. George, Bermuda.
1 Specimen of Coral (*Meandrina labyrinthiformis*), Bermuda.
- HELFF, DR. O. M., University of Iowa, Iowa City, Iowa.
2 Crawfish.
- HOFFMANN, PROF. W. H., Havana, Cuba.
1 Parasite from branchia of small table fish.
- KOONS, WALTER, 2D, New York City.
2 Specimens echinoderms, Midway Island.
- MARKS, E. S., Paterson, N. J.
1 Sand dollar (*Peronella decagonalis*), Panama. 2 shells; 1 crustacean: Panama and Peru.
- MENTLE, J. G. G., Leonia, N. J.
Specimen of coral (*Lathaxis lischkeana*).
- MIKIMOTO, KAKICHI, New York City.
Series of pearl oysters and fish, showing growth and development of cultivated pearls (16 Specimens). 16 Photographs illustrating cultivation. Tatoku-Jima, Mijie Prefecture, Japan.
- MOZLEY, DR. ALAN, Johns Hopkins University, Baltimore, Md.
6 Identified land shells (*Lymnaea vahliei*), Manitoba, Canada.
- MYERS, FRANK J., Ventnor, N. J.
5 Slides mounted and identified rotifers.

NAGELE BROTHERS, New York City.

- 1 Hermit crab, Peconic Bay, Long Island, New York.

NEUBURGER, MRS. MAX, New York City.

- 4 Starfish, Florida.

NEW YORK PUBLIC LIBRARY, New York City.

- 35 Shells.

OLSEN, CHRIS E., New York City.

- 1 Crawfish, West Nyack, N. Y.

PUBLIC SCHOOL No. 100, Brooklyn, N. Y.

- 1 Horseshoe crab, Coney Island, New York.

RAMIREZ, MIGUEL A., New York City.

- 200 Marine shells, Haiti.

REYES, RALPH, New York City.

- 1 Horseshoe crab, Long Island.

SMITH, FRANKLIN S., Jersey City, N. J.

- 150 Fresh-water shells; 12 Amphipods: Rhode Island.

STERLING, MRS. L. M., New York City.

- 2 Starfish, Matinicus, Me.

THIBAUT, DR. HENRY, Scott, Ark.

- 18 Parasitic worms taken from spoonbill sturgeon, Arkansas.

BY EXCHANGE

BEEBE, WILLIAM, New York City.

- 8 Tunicates (*Salpa cylindrica*), Port-au-Prince Bay, Haiti.

GEISER, PROFESSOR, E. W., Southern Methodist University, Dallas, Tex.

- 7 Isopods (*Porcellio scaber* and *Philoscia muscorum*), Texas.

ROGERS, C. H., Princeton, N. J.

- 30 Identified crustacea (5 Species), Nova Scotia.

BY PURCHASE

Drawings, photographs and color sketches of marine invertebrates of Atlantic Coast and West

Indies, with manuscript and notes, made by the late Professor A. E. Verrill of Yale University.

- 14 Identified land shells (5 Species, Cuba.

8 Land shells from Baltimore, Md.

- 1 Myriapod, Mammoth Cave, Ky.

BY EXPEDITION

BURDEN EAST INDIAN EXPEDITION, Dutch East Indies.

- 3 Isopods; 15 Amphipods; 1 Myriapod; 5 Slugs: Komodo Island.

MURPHY, ROBERT CUSHMAN, New York City.

- 3 Centipedes. Sao Thomé Island, West Africa.

RUWENZORI-KIVU EXPEDITION (Dr. Chapin, Mr. Sage and Mr. Mathews). Africa.

- 66 Specimens land shells; 50 Parasitic worms; 2 Centipedes; 160 Specimens invertebrates (shells, jelly fish, crustacea, annulates and tape worms).

STOLL-MACCRACKEN EXPEDITION (Through Department of Ichthyology), Arctic.

- 1 Sea urchin, Arctic Ocean.

WHITNEY SOUTH SEA EXPEDITION (F. P. Drowne and R. H. Beck), Solomon Islands.

- 8,325 Specimens of invertebrates (land and marine shells, crustaceans, myriapods, corals and echinoderms), Solomon Islands.

ENTOMOLOGY

BY GIFT

ANGELL, JOHN W., New York City.

- 8 Insects: Various localities.

- 283 Specimens beetles, bees, 2 moths: Various localities.

BALLOU, CHARLES H., Moorestown, N. J.

- Japanese beetles; Moorestown, N. J.

- BELL, E. L., Flushing, N. Y.
 105 Lepidoptera: Various localities.
 78 Lepidoptera, Bolivia.
- BEQUAERT, DR. JOSEPH, Boston, Mass.
 37 Diopsidæ: Siberia and Congo.
- BIRD, R. D., Champaign, Ill.
 200 Diptera, Manitoba.
- BLAIR, K. G., London, England.
 4 Beetles, Galapagos Islands.
- BROMLEY, STANLEY W., Astoria, L. I., N. Y.
 10 Diptera, Madagascar.
 3 Beetles: Various localities.
- BROWN, BARNUM, New York City.
 2 Tiger beetles, New Mexico.
- BROWN, MISS MARY J., Norman, Okla.
 3 Diptera, Oklahoma.
- CANADIAN NATIONAL COLLECTION OF INSECTS, Ottawa, Canada.
 16 Criddleia, Manitoba, Canada.
- CLEAVES, H. H., New York City.
 10 Ticks and spiders, Labrador.
- COCKERELL, PROF. T. D. A., Boulder, Colo.
 150 Diptera, New Caledonia.
 Bees and flies, Australia.
- CONNECTICUT AGRICULTURAL EXPERIMENT STATION, New Haven, Conn.
 31 Oriental fruit moths and parasites, 13 photographs: Connecticut.
- CURRAN, C. H., New York City.
 Type specimen soldier fly, *Chrysochlora femoralis*: Colombia;
 type specimens bee fly, *Heterostylum xanthobasis*: British Guiana;
 type specimen, *Cyphomyia abana*: Brazil.
- DAVIS, WM. T., New Brighton, S. I., N. Y.
 Specimens, *Boreconea aquadilla*, Porto Rico.
- DECKER, GEORGE C., Iowa State College, Iowa.
 6 Diptera, Ames, Iowa.
- DE VILLIERS, G. F. E., Broken Hill, N. Rhodesia, Central Africa.
 23 Butterflies and moths: Rhodesia, Central Africa.
- DOBROSCHY, DR. IRENE, Yonkers, N. Y.
 2 Specimens: green bottle fly, *Protophthora avium*, Ithaca, New York.
- D'ORCHY, A., Brussels, Belgium.
 3 Beetles, Hydrophilidæ: Various localities.
- EDDY, BRAYTON, New York City.
 1 Nest fall web-worm: Riverside, R. I.
- EMERSON, PROFESSOR ALFRED, University of Pittsburgh, Penn.
 4 *Termitobracon emersoni*, Kartabo, British Guiana.
- ENGELHARDT, G. P., Brooklyn, N. Y.
 About 50 bees, Grand Canyon, Arizona.
- FROST, C. A., Framingham, Mass.
 5 Beetles: various localities.
- GARMAN, DR. PHILIP, New Haven, Conn.
 2 Odonata, Hamden, Conn.
- HUNTINGTON, E., New York City.
 4 Lepidoptera, North America.
- JOHNSON, FRANK, Glen Ridge, N. J.
 179 Lepidoptera: Various localities.
 12 Beetles, Amam, Indo-China.
- LOCKHART, SYDNEY WARING, New York City.
 1 Wasp nest, Surinam, Dutch Guiana.
- McDUNNOUGH, DR. J., Ottawa, Canada.
 3 Anthidiinæ, Canada.
- MATHIAS, W. C., Portland, Ore.
 34 Insects, Oregon.
- NOTMAN, HOWARD, Keene Valley, N. Y.
 10,000 Beetles, Keene Valley, New York.
- ORNITHOLOGY, DEPARTMENT OF, Museum. (Transfer).

- 100 Insects, Sao Thomé Island, Western Africa.
- PARKS, DR. H. B., San Antonio, Tex.
40 Bees, Texas.
- SCHWARZ, MISS BARBARA, New York City.
- 140 Insects: Various European countries.
- SCHWARZ, HERBERT F., New York City.
- 300 to 400 Megachilid bees: Various localities.
- SCULLEN, PROF. H. A., Corvallis, Ore.
- 13 Anthidiine bees, mostly Oregon.
- STEVENS, DR. O. A., Fargo, N. Dak.
- 1 *Paranthidium texanum*: Blue Rapids, Kansas.
- STURTEVANT, DR. A. H., New York City.
- 1362 Diptera: Various localities.
- THURSTON, HENRY, New York City.
- 40 Insects, Lake Charlotte, New York.
- TIMBERLAKE, PROF. P. H., Riverside, Calif.
- 1 *Anthidium xanthognathum*, Riverside, California.
- 1 *Anthidium rohweri*, California.
- UNITED STATES DEPARTMENT OF AGRICULTURE, Washington, D. C. (Through L. H. Worthley, Toledo, Ohio.)
- 2 Riker mounts, Toledo, Ohio.
- WALTERS, HAROLD J., New York City.
- 19 Lepidoptera: Various localities.
- WELLS, CARVETH, New York City.
- 2 Moths, Mount Ruwenzori, Africa.
- WOOD, WILLIAM C., New York City.
- 218 Lepidoptera, Jamaica, British West Indies.

BY EXCHANGE

- BRADLEY, PROF. J. CHESTER, Ithaca, N. Y.
- 5 Anthidiinae and Stelididae: Arizona and New Mexico.

- NICOLAY, ALAN S., Montclair, N. J.
- 5 Beetles: Durban, Natal, Africa.
- TIMBERLAKE, PROF. P. H., Riverside, Calif.
- 18 Anthidiinae, mostly California.
- WALLIS, J. B., Winnipeg, Canada.
- 10 Specimens, *Odontæus*: various localities.

BY PURCHASE

- 61 Identified bees.

BY EXPEDITION

- RUWENZORI-KIVU EXPEDITION.
- 170 Insects and ticks, Africa.
- VERNAY ANGOLA EXPEDITION.
- 13,000 Insects and spiders, Angola, East Africa.
- WHITNEY SOUTH SEA EXPEDITION.
- 961 Insects and spiders, South Sea Islands.
- 28 Lepidoptera, Solomon Islands.
- 63 Insects and spiders, Solomon Islands.
- DEPARTMENT FIELD WORK (C. H. CURRAN AND F. E. WATSON).
- 10,000 Insects, Tuxedo, N. Y.

ICHTHYOLOGY

BY GIFT

- BARTON, OTIS, New York City.
- 1 Fish, *Barbus*, Persia.
- CARTER, T. D., New York City.
- 2 Golden shiners, Calverton, L. I., N. Y.
- CLEAVES, HOWARD H., New York City.
- 7 *Capelin*, 1 Cormorant pellet: Gulf of St. Lawrence.
- HAIGHT, MRS. SHERMAN P., New York City.
- 2 Man-o'-war fish, *Nomeus*, Florida.
- HEILNER, VAN CAMPEN, Spring Lake, N. J.
- 1 *Gymnachirus*, 24 small fishes: Bahamas.

HISCOX, John, New York City.

2 Salmon heads.

HOWES, DR. PAUL G., Greenwich, Conn.

1 Chub-sucker, Stamford, Connecticut.

LUCAS, DR. F. A., New York City.

Skins of several perch and scales of crappie.

MARTIN, A. R., Avalon, Catalina Island, Calif.

4 Sucking fishes, California.

MORRIS, CHARLES K., Elizabeth, N. J.

1 Mounted maskalonge.

NEUBURGER, MRS. MAX, New York City.

8 Mounted fishes, Florida.

NEW YORK AQUARIUM, New York City.

1 Tarpon.

ORNITHOLOGY, DEPARTMENT OF, Museum. (Transfer).

1 Ray, Bougainville, Solomon Islands; 6 *Fundulus*, Easthampton; 1 *Characin*, South America, 2 Catfishes; 1 Flying-fish; 2 Fishes: West Africa.

POLEVOY, F. D., S. I., N. Y.

1 Anglerfish, *Lophius piscatorius*, Raritan Bay.

PUTNAM, A., New York City.

4 Larval eels, City Island, New York.

SMITH, MRS. H. W., Islip, L. I., N. Y.

1 Young filefish: Point O' Woods, L. I., N. Y.

TAYLOR, IRVING K., Bass River, Mass.

Jaws of *Piranha*: Amazonian drainage, South America.

UNITED STATES NATIONAL MUSEUM, Washington, D. C.

1 Cast *Lampris luna*.

VERTEBRATE PALEONTOLOGY, Department of, Museum.

Parts of fossil fish, Near Ingowar, Montana.

19 Fossil catfish bones: Snake Creek, Nebraska.

Fossil catfish jaws, skull bones, etc.: Western Nebraska.

WALKER, ROBERT C., New York City.

1 Swordfish head.

BY EXCHANGE

STILLMAN, DR. CHARLES K., Mystic, Conn.

2 Minnows, *Notropis umbratilis*: New London and Windham Counties, Connecticut.

ZOOLOGISCH LABORATORIUM, Amsterdam, Holland, through Mr. L. de Beaufort.

75 Fishes, Indo-Australia; 25 fishes, chiefly New Guinea.

BY PURCHASE

Ceratias holboelli: Cast, 2 small casts, colored sketch.

Series of 12 stereoscopic plates of fossil vertebrates.

1 Skeletal striped bass.

1 Mounted angler fish: Devil's Bridge, Gay Head, Mass.

6 Tropical fishes.

BY EXPEDITION

LEE GARNETT DAY RORAIMA EXPEDITION.

18 Fishes, South America.

STOLL-McCRACKEN EXPEDITION.

1 Collection of fishes, Bering Sea region.

WHITNEY SOUTH SEA EXPEDITION.

8 Fishes, Solomon Islands; 5 Fishes, Pacific Ocean.

HERPETOLOGY

BY GIFT

BANTON, R. B., New York City.

2 Horned toads, Texas.

BARTON, OTIS, New York City.

3 Frogs; 2 Lizards; 1 Snake: Maraga, Persia.

- BRIGHAM, DR. EDWARD M., Battle Creek, Mich.
8 Toads; 2 Lizards: New Mexico.
- BULKLEY, DR. L. C., Riverdale, New York.
29 Snakes; 2 Lizards; 1 Cœcilian: Siam; 5 Snake skins; 2 Snake skeletons; 1 Foot of *Varanus*; 1 Skeletonized head of cobra; 3 Lizards—Flying Dragons: Trang, Siam.
- BURT, DR. CHARLES E., Ann Arbor, Mich.
2 Frogs (*Gastrophryne carolinensis*), Kansas.
- CHAPIN, DR. JAMES P., New York City.
1 Mud turtle, Charleston, S. C.
- CONDON, MISS NELLIE LOUISE, New York City.
1 King snake, Florida.
- CRAWFORD, STANTON C., Pittsburgh, Penn.
6 Lizards; 6 Frogs: British Guiana.
- DEARBORN, JOHN, Brookhaven, L. I., N. Y.
16 Snapping-turtle eggs, Patchogue, L. I.
- DERSCHEID, J. M. (Through Ruwenzori-Kivu Expedition).
22 Chameleons, Africa.
- DE SOLA, CLARENCE R., New York City.
Bones *Testudo vicina*; Iguana hides; Bones, probably *Caretta caretta*: Galapagos Islands.
- FISHER, FRANKLIN L., Washington, D. C.
1 Lizard (*Varanus salvator*), Dutch East Indies.
- FOSTER, FRANK, Killingworth, Connecticut.
1 Milk snake, Killingworth, Conn.
- FRIEDMANN, DR HERBERT, Amherst, Mass.
1 Salamander, Amherst, Mass.
- GOODWIN, GEORGE G., New York City.
1 Marbled salamander, Clinton, Conn.
- GRISCOM, REV. ACTON, Riverdale, New York.
1 Milk snake, Riverdale, N. Y.
- HADLEY, DR. ALDEN H., New York City.
1 DeKay's snake, New Jersey.
- HASSLER, WM. G., and others, New York City.
77 Frogs, 20 Spotted salamanders; 2 Salamander egg clusters: Worthington, N. Y.
- HASSLOCK, MISS CLARA, Nashville, Tenn.
1 Horned toad; Bunch of mesquite beans: Seymour, Texas.
- HITCHINGS, S. J., New York City.
9 Pythons, India.
- HOFFMANN, DR. W. H., Havana, Cuba.
2 Eggs of Cuban pond turtle, Cuba.
- JOHNS, VICTOR, Millneck, L. I., N. Y.
1 Milk snake, Long Island.
- JOHNSTON, DONALD, New York City.
7 Salamanders, North Salem, N. Y.
- JOHNSTON, SHERWOOD, Knoxville, Tenn.
1 Snake, Knoxville, Tenn.
- JOSEPH, ELLIS S., New York City.
1 Turtle.
- KATZENSTEIN, MARTIN, JR., New York City.
1 Alligator, Florida.
- LOWER INVERTEBRATES, DEPARTMENT OF, Museum.
2 Lizards, Hawaiian Islands.
- LUTZ, DR. ADOLPHO, Rio de Janeiro, Brazil.
15 Frogs, Brazil.
- MARSHALL, BYRON C., Imboden, Ark.
14 Salamanders, Imboden, Ark.; 2 Salamander larvæ, Arkansas.

MILLER, W. DEW., New York City.

- 1 Milk snake; 1 King snake: New Jersey.

NEUBURGER, MRS. MAX, New York City.

- 2 Alligator skins; 1 Turtle head, mounted; 1 Tortoise shell: Florida.

NEW YORK AQUARIUM.

- 1 Marine iguana.

NEW YORK ZOOLOGICAL SOCIETY.

- 3 Texas rattlesnakes; 7 Western rattlesnakes; 2 Banded rattlesnakes; 2 Gopher tortoises; 1 African soft-shelled turtle; 1 Snake (*Crotalus horridus*); 1 Russell's viper; 1 Corn snake; 1 *Elaphe læta*: 4 Galapagos turtles; 2 Baby boas; 1 Vine snake; 1 Leopard snake; 1 Water moccasin; 1 Timber rattlesnake; 1 Mexican rattlesnake; 56 Snakes; Green mamba; 2 Rattlesnakes; 1 Cat snake; 3 Cobras; 1 Racer; 1 Central-American snake (*Amblycephalus*); 4 Skinks (Bermuda); 7 Turtles; 2 Iguanas; 11 Lizards; 4 Tegu; 1 Water turtle; 1 Mamba; 2 Spotted rat snakes; 3 Spiney-tailed lizards (Africa); 1 Soft-shelled turtle; 1 Yellow cobra; 1 Say's king snake; 1 Gila monster; 2 Marine iguanas; 9 Turtles; 2 Amphiumas; 2 Lizards; 1 African hinged-back turtle; 2 Turtle shells; 1 Snake shed; 1 Marine toad.

PARSONS, WILLIAM USHER, New York City.

- 1 Moccasin head, Savannah, Ga.

PERKINS, R. M., St. Louis, Mo.

- 1 Salamander, St. Louis, Mo.

POINT PLEASANT FEDERAL FISHERIES, New Jersey.

- 1 Leatherback turtle, off coast of New Jersey.

POPE, MR. AND MRS., New York City.

- 4 Salamanders, North Carolina.

POPE, CLIFFORD H., New York City.

- 1 Rattlesnake, New York.

PURDY, LAWSON, New York City.

- 1 Snake shed, Florida.

RAMSEY, WILLIAM, Gatlinburg, Tenn.

- 15 Salamanders.

RAVEN, HARRY C., New York City.

- 1 Toad (*Bufo fowleri*), Long Island.

SIMON, J., New York City.

- 4 Live garter snakes, Brooklyn, N. Y.

SPIEGELBERG, MRS. W. S., New York City.

- 1 Baby alligator, Florida.

TAYLOR, MISS JANE I., New York City.

- 1 Snake skin. Belgian Congo.

TOWNSEND, DR. CHARLES H., New York City.

- Specimens of *Testudo galapagoensis*: Charles Island, Galapagos Islands.

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

- 11 Two-lined salamanders, New Jersey.

BY EXCHANGE

BARBOUR, DR. THOMAS, Cambridge, Mass.

- 15 Coecilians. Tanganyika Territory, Africa.

DRS. MRS. ALICE, BERKELEY, Calif.

- 30 Salamanders.

GEYER, HANS, Regensburg, Germany.

- 16 Salamanders. Sardinia; 32 Salamanders; Europe; 8 Salamanders: Portugal.

MARHERR, ERICH: Schmalkalden, Germany.

- 9 Salamanders; 20 Frogs: Europe.

MARIA, BROTHER NICÉFORO, Bogotá, Colombia.

- 3 Snakes; 10 Lizards; 12 Frogs; 1 Coecilian: South America.

BY PURCHASE

- 66 Salamanders, Georgia.
 101 Salamanders, North Carolina.
 1 Skink.
 2 Salamanders, New Mexico.
 94 Salamanders, Arkansas; Specimens of 96 frogs; 34 frogs' eggs; 14 Lizards.
 22 Frogs.
 2600 *Cryptobranchus* eggs, Pennsylvania.
 1 Salamander, Florida.
 Tadpoles, small frogs and eggs, South Africa.
 8 Salamanders, Colorado.

BY EXPEDITION

- CAVE EXPEDITION, SAN MARCOS, Texas (Byron C. Marshall).
 89 Reptiles; 53 Amphibians; 3 Live snakes; 11 Snakes; 3 Soft-shelled Turtles; 2 Tortoises; 5 Salamanders: Texas.

KLINGEL, GILBERT C.

- 90 Reptile eggs, Haiti.

FIELD WORK, DEPARTMENTAL

- 174 Salamanders, New Jersey; 1 Garter snake. (Daleo, Anthony J.).
 879 Salamanders; 3 Snakes: West Virginia. (Hassler, Wm. G.)
 156 Salamanders: 2 Frogs: New Jersey.
 8 Lizards; 8 Snakes; 569 Salamanders: New York and New Jersey (Messrs. Hassler and Daleo, and Misses Evans and Teale).
 92 Salamanders. New Jersey; 68 Salamanders: New York (Farris, E. J.).
 1 Frog; 159 Salamanders.

LEE GARNETT DAY RORAIMA EXPEDITION G. H. H. Tate), South America.

- 24 Frogs; 1 Cœcilian; 37 Lizards; 23 Snakes.

MARSHALL, BYRON C.

- 697 Salamanders, Arkansas and

Missouri; 1 Egg cluster; 1 Crayfish.

RUWENZORI-KIVU EXPEDITION, Africa (Messrs. Chapin, Sage and Mathews).

- 222 Frogs; 5 Snakes; 29 Lizards: Africa.

TYLER-DUIDA EXPEDITION, Brazil. (G. H. H. Tate.)

- 2 Lizards; 1 Frog: Brazil.

VERNAY ANGOLA EXPEDITION, Angola, Africa (Herbert Lang.)

- 48 Lizards: 8 Snakes; 2 Frogs: Angola.

WEBER, JAY A.

- 8 Lizards; 9 Frogs; 1 Green snake: Panama.

WHITNEY SOUTH SEA EXPEDITION.

- 250 Frogs; 220 Lizards; 87 Snakes; 1 Salamander; 1 Gecko; 1 Cœcilian; 60 Amphibians; 170 Reptiles.

ORNITHOLOGY

BY GIFT

- AKELEY, MRS. C. E., New York City.
 19 Birds: British East Africa, Asia, New Guinea, Borneo.

ANONYMOUS.

- 1 Screech owl.

BARTELS, HENRY, New York City.

- 1 Parrot, 1 Love-bird, 1 Spotted tinamou.

BARZILAY, MRS. HENRY, Lynbrook, L. I., N. Y.

- 1 Case mounted birds and mammals, including passenger pigeon.

BOARD OF EDUCATION, New York City.

- 1 Cedar waxwing.

BOWDISH, B. S., Newark, N. J.

- 1 Woodcock.

BROWN, BACHE H., New York City.

- 1 Albino red-tailed hawk, Morristown, N. J.

BUTLER, MRS. ELIZABETH I., New York City.

1 Great horned owl.
 CARTER, T. DONALD, New York City.
 1 Dowitcher, 1 Tern.
 CHAPIN, J. P., New York City.
 1 Myrtle warbler.
 CHILDS, E. C., Norfolk, Conn.
 2 Cedar waxwings.
 COURSEN, C. BLAIR, Chicago, Ill.
 1 Gray-cheeked thrush, Chicago.
 DAWES, D. B., Englewood, N. J.
 1 Wood thrush.
 DOWNING, MORTIMER J., Upper
 Stepney, Conn.
 10 Bird skins.
 DRAEGER, MISS ELLA MARIE, New
 York City.
 1 Hermit thrush.
 DRAKE, GEORGE, Middletown, N. Y.
 1 Barn owl.
 DU MONT, PHILIP, New York City.
 4 Sharp-tailed sparrows, 2 Plovers,
 4 Sandpipers, 1 Killdeer, 2 Turn-
 stones.
 FAR ROCKHWAY HIGH SCHOOL, Far
 Rockaway, L. I., N. Y.
 2 Hermit thrushes, 1 White-
 throated sparrow.
 FISHER, DR. G. CLYDE, New York
 City.
 1 Golden eagle.
 GAFFNEY, LIEUT. D. V., France Field,
 Canal Zone.
 1 Skin, *Antristomus rufus*: Ancon,
 Panama.
 GEIGER, MISS RITA, Rockaway, N. Y.
 1 Hermit thrush, 1 junco.
 GEURTS, L., JR., Luena, Belgian
 Congo, Africa.
 1 Skin of hornbill, *Bycanistes bucina-*
tor: Katanga.
 GILMORE, W. M., Rockaway Beach,
 N. Y.
 2 Hermit thrushes, 1 Seaside spar-
 row, 1 Junco, 1 Canary, 1
 Virginia rail.
 HAMBROCK, H. J., Toms River, N. J.
 1 Red-shouldered hawk.

HARRISON, M., & Co., New York
 City.
 2 Musk lorikeets.
 HITCHINGS, S. J., New York City.
 3 Cranes, 1 Toucan.
 HORN, MISS MARY A., Arverne, N. Y.
 1 Bluejay, 2 Juncos, 1 Robin, 1
 Hermit thrush, 1 Owl, 2 Sparrows,
 1 Piping plover.
 JOSEPH, ELLIS S., New York City.
 1 Argus pheasant, 3 Parrots, 1
 Macaw, 5 Swans, 1 Partridge, 3
 New Zealand sheldrakes, 1
 Bateleur eagle, 1 Cassowary, 1
 Ostrich, 1 Stork, 3 Lorikeets.
 KLEIN, MISS BEATRICE, Rockaway,
 N. Y.
 1 Brown creeper, 1 junco.
 KOONS, W. H., Tulsa, Okla.
 1 Sapsucker, *Sphyrapicus varius*.
 LARKIN, FRANK Y., New York City.
 1 Parrot, *Pionus menstruus*.
 LEVY, MISS BARBARA, Mount Kisco,
 N. Y.
 1 Scarlet tanager.
 LINZER, MISS LILLIAN, Rockaway
 Beach, N. Y.
 1 White-throated sparrow.
 LIVINGSTON, ALEX, AND SPERBER,
 GUSTAV, New York City.
 1 Flicker, *Colaptes auratus*.
 MILLER, W. DEW., New York City.
 1 Red-tailed hawk, 1 House spar-
 row, 1 Common tern, 1 Flicker, 1
 Starling.
 MONRO, ANTHONY, New York City.
 1 Scarlet tanager.
 MULLER, VICTOR, New York City.
 1 Sooty tern, Staten Island, New
 York.
 NEW YORK AQUARIUM, New York
 City.
 2 Flightless comorants.
 NEW YORK ZOOLOGICAL SOCIETY,
 New York City.
 1 Curassow, 1 Crested curassow, 1
 White ibis, 2 Ibises, 1 Australian
 ibis, 1 European flamingo, 1

- Black-faced gray tanager, 1
 Tanager 1 White-crested turaco,
 1 Gray turaco, 1 American egret, 1
 Conure, 1 Golden-headed conure,
 1 Jabiru, 1 Emu, 1 Brazilian snake-
 bird, 1 European spoon-bill, 1
 South American stone plover, 1
 Java fish owl, 1 Spectacled owl,
 1 Crested starling, 1 Glossy star-
 ling, 1 Wattled starling, 1 Great
 white heron, 1 Great blue heron,
 1 Heron, 1 Coot, 1 Double-
 crested cormorant, 2 Formosan
 teals, 1 Falcated teal, 1 Barhead
 goose, 1 Trumpeter swan, 1 Gal-
 linule, 1 Comb duck, 1 Goose, 1
 South African sheldrake, 1 Red-
 footed kestrel, 1 Vulturine sea
 eagle, 1 Sea eagle, 2 Martial
 eagles, 1 White jackdaw, 2
 Laughing gulls, 1 Franklin gull, 2
 Sugar birds, 1 Humming-bird, 1
 Robin, 1 Oriole, 1 Ruff, 1 Honey-
 creeper, 1 Tinamou, 2 Parakeets,
 1 King parakeet, 1 Hanging
 Parakeet, 1 King parrot, 2 Guild-
 ing's parrot, 1 Large Vasa parrot,
 2 Parrots, 1 Macaw, 1 Severe
 macaw, 1 Buffalo weaver, 1
 Green manucode, 1 Great green
 cacique, 1 Eyton tree duck, 1
 White-necked raven, 1 Inca tern,
 1 Blue magpie, 2 Ground horn-
 bills, 1 Cockateel, 1 Barbet, 1
 Fruit pigeon, 1 Victoria crowned
 pigeon, 1 Stair's pigeon, 1 Dove,
 1 Grenada dove, 1 Spotted cal-
 liste, 1 Green toucan, 1 Pheasant,
 1 Peacock pheasant, 1 Fire-
 backed pheasant, 1 Hybrid
 pheasant, 1 Pine grosbeak, 1
 Morepork, 1 Green catbird, 1
 Indian nuthatch, 2 Orange-
 headed blackbirds, 1 Magellan
 upland goose, 1 Manchurian
 crane, 1 Guan, 1 Jay-thrush, 1
 African magpie, 2 Greater para-
 dise birds. 1 set of eggs.
- PROVOST, JOSEPH, Rockaway Beach,
 N. Y.
 1 Robin.
- PUBLIC SCHOOL 44, Queens, Rocka-
 way Beach, N. Y.
 5 Hermit thrushes, 1 sparrow, 1
 junco.
- REED, MISS MARIE, Rockaway Beach,
 N. Y.
 1 Robin.
- REEVES, MARK W., Clinton, N. Y.
 1 Great blue heron, 1 Fish-hawk:
 Clinton, New York.
- RICH, MRS. M. C., New York City.
 1 Guinea fowl, *Numida sabyi*,
 Teders, Morocco.
- ROBINSON, L. W., Oradell, N. J.
 1 Barred owl, 1 Hooded merganser,
 1 Thrush.
- RUHE, LOUIS, New York City.
 1 Jay, 2 Love-birds, 1 European
 nuthatch, 4 Parakeets, 1 Skylark,
 1 Grassquit, 1 Bulbul, 1 Hill tit.
- SANFORD, DR. L. C., New Haven,
 Conn.
 15 Bird skins: New Guinea and
 vicinity.
 9 Bird skins: Tropical America.
 27 Bird skins: Aker and Nord-
 varanger, Norway.
- SCHLEY, H. S., Garden City, L. I.,
 N. Y.
 Egret plumes, Southern Florida.
- SMITH, WILBUR, South Norwalk,
 Conn.
 1 Prothonotary Warbler, from Con-
 necticut.
- TOWNSEND, DR. C. H., New York
 City.
 1 Burrowing owl: Clarion Island.
- TUMA, FRANK S., Montauk, L. I., N. Y.
 1 Dovekie.
- VAIL, DR. C. E., Miraj, India.
 2 Bustards, 1 Stork: Bombay,
 India.
- VOLENTI, JACK, Rockaway Beach,
 N. Y.
 1 Fox sparrow.

VOLENTI, Miss ROSE, Rockaway Beach, N. Y.

1 White-throated sparrow.

WALKER, L. W., Douglaston, L. I., N. Y.

1 Burrowing owl.

WALKER, ROBERT C., New York City.

1 Teal, 1 White-winged Scoter, 2 Ring-necked ducks.

YERBURY, GEORGE S., Passaic, N. J.

1 Migrant shrike, Passaic, N. J.

BY EXCHANGE

ACADEMY OF NATURAL SCIENCES, Philadelphia, Penn.

3 Bird skins, New Zealand, Australia, and India.

BRITISH MUSEUM (NATURAL HISTORY), London, England.

25 Birds: Old World.

CARNEGIE MUSEUM, Pittsburg, Penn.

Skin *Bowdleria rufescens*: Chatham Island.

1 Skin *Metopothrix aurantiacus*.

1 Skin *Petrochelidon fuliginosa*.

CLEVELAND MUSEUM OF NATURAL HISTORY, Cleveland, Ohio.

88 Birdskins from Cape Verde Islands and Senegal, N. W. Africa.

DABBENE, DR. ROBERTO, Buenos Aires, Argentina.

2 Specimens of *Limnornis curvirostris*: Buenos Aires, Argentina.

FLEMING, J. H., Toronto, Ontario.

3 Bird skins: Asia and New Guinea.

HACHISUKA, HON. MASAUGI, Tokyo, Japan.

2 Specimens *Falcipennis falcipennis*, Saghalin.

1 Specimen *Rheinardtius ocellatus*.

KURODA, DR. NAGAMICHI, Tokyo, Japan.

2 Bird skins, 1 *Falcipennis falcipennis*, 1 *Pseudoglossitis guttifer*: Sikkimura and Chirio-mura, Saghalin.

MUSÉE D'HISTOIRE NATURELLE, Paris, France.

8 Bird skins, Indo-China.

MUSEUM OF COMPARATIVE ZOOLOGY, Cambridge, Mass.

1 *Capito aurantiiventris*: Lower Amazon, South America.

11 Bird skins, Africa.

NATIONAL MUSEUM OF NATURAL HISTORY, Melbourne, Australia.

4 Bird skins, Australia.

PRINCETON MUSEUM OF ZOOLOGY, Princeton, N. J.

1 *Buteo erythronotus*, Patagonia.

PUBLIC LIBRARY, MUSEUM AND ART GALLERY OF SOUTH AUSTRALIA, Adelaide, Australia.

4 Bird specimens, South Australia.

ROYAL MUSEUM OF NATURAL HISTORY, Leyden, Holland.

11 Bird skins: Siberia, New Guinea, Indian Ocean, and Celebes.

ROYAL SCOTTISH MUSEUM, Edinburgh, Scotland.

6 Bird skins, Tristan da Cunha I., South Atlantic.

UNITED STATES NATIONAL MUSEUM, Washington, D. C.

19 Bird skins.

ZOOLOGISCHES MUSEUM, Berlin, Germany.

5 Bird skins.

ZOOLOGICAL MUSEUM OF TRING, Herts, England.

1 Skin of *Pitta superba*, Admiralty Islands.

BY PURCHASE

122 Birds, Benguela.

849 Bird skins, Kasai District, Belgian Congo.

2 Bird skins: Abyssinia; 29 bird skins: Java.

4,124 Bird skins, South America.

152 Bird skins, Cameroon, West Africa.

110 Bird skins, Eastern Africa.

1 Skin *Eutolmaetus bellicosus*; 3 of

Parrots, 3 of humming-birds; 1 of barbet, *Psilopogon pyrolophus*; 1 of *Sypheotis indica*; 1 of *Paradigalla brevicauda*.

BY EXPEDITION

FAUNTHORPE-VERNAY INDIAN EXPEDITION.

23 Bird specimens, Lower Burma, India.

GULF OF GUINEA EXPEDITION.

709 Birds and skins, São Thomé.

LEE GARNETT DAY RORAIMA EXPEDITION.

879 Birds, Mount Roraima, British Guiana.

STOLL-McCRACKEN EXPEDITION.

102 Bird skins: Alaska.

WHITNEY SOUTH SEA EXPEDITION.

5,100 Bird skins: Solomon Islands, Society Islands, Fiji Islands, Bismarck Archipelago, Samarai, Papua.

MAMMALOGY

BY GIFT

BULKLEY, DR. L. C., New York City.
18 Mammals, Trang, Siam.

COHEN, M., AND BROS., New York City.

7 Skins flying lemur, Philippine Islands.

DAVIS, WILLIAM A., L. I., N. Y.

1 Eastern red fox, *Vulpes fulva*: Mount Sinai, L. I., N. Y.

DE MAGALHAES, SR. OCTAVIO, Bello Horizonte, Brazil,

100 Living scorpions: Minas, Brazil.

GRAVES, PHILLIP, New York City.

1 Gray squirrel, *Sciurus carolinensis leucotis*: Central Park, New York City.

HITCHINGS, S. J., New York City.

1 Spot-nosed monkey, 1 Rhesus monkey; 1 Binturong, 1 Orang utan, 3 Pygathrix monkeys, 3 Hamadryas baboons: Africa.

HUBERS, CAPTAIN, New York City.

1 Harbor seal, Long Island Sound.

JAMES, CHARLES, Verulam, Natal, Africa.

1 Bat, *Otomops icarus*: Zwolle Estate, Verulam, Natal, Africa.

JOSEPH, ELLIS S., New York City.

1 Indian elephant skull: Central Park Zoo, New York City. 1 Gray's water buck.

LANG, CHARLES, New York City.

1 Mole, *Scalopus a. aquaticus*: Bronxville, New York.

LOEW, ARTHUR M., New York City.

1 Mounted kaola, 1 mounted kangaroo: Australia.

MARÍA, BROTHER NICÉFORO, Bogotá, Colombia.

13 Mammals: Colombia.

6 Mammals, skins and skulls: Colombia.

MASSACHUSETTS STATE COMMISSION OF FISHERIES AND GAME, Boston, Mass.

1 Hare, Nantucket Island, Massachusetts.

MORDEN, W. J., Chicago, Ill.

1 Kiang skin, Ladakh, Kashmir.

NEW YORK ZOOLOGICAL SOCIETY, New York City.

1 Himalayan black bear, 1 *Viscacha*,

1 Gray squirrel, 1 Eskimo dog,

2 Bison, 1 Llama, 1 Pronghorn

antelope, 2 Albino squirrels, 2

California sea lions, 1 Mexican

white-tailed deer, 1 African por-

cupine, 1 Musk ox, 2 Camels, 1

Indian fruit squirrel, 1 Hairy-

eared bear, 1 Night monkey, 1

Dorcas gazelle, 1 DeBrazza mon-

key, West Africa; 1 Mangaby,

2 Squirrels, 1 Lemur, 1 Marmoset,

1 Coati mundi, 1 Kangaroo, 1

Tamarin, 1 Kinkajou, 1 African

bush-pig, 2 Ocelots, 2 Spotted

cavies, 1 Armadillo, 1 Baby

Indian elephant, 1 Fallow deer, 1

Cape fur seal, 1 Raccoon, 1 Silver

- fox, 1 *Viscaccia viscaccia*, 1 Jaguarondi, 1 Coypu rat, 1 Dromedary, 1 American bison, 1 Eland, 1 Cotton-tail rabbit, 1 South American porcupine, 1 Sun bear.
- PAINTER, PROF. THEOPHILUS S., Austin, Tex.
15 Scorpions: Austin, Texas.
- PARKS, DEPARTMENT OF, New York City.
1 Agouti, 1 Coyote.
1 Indian elephant.
1 Kangaroo.
1 Bison calf, 1 Llama: Central Park Zoo, New York City.
- PATTERSON, F. B., Dayton, Ohio.
1 Skin and skull of "Golden" baboon, *Papio* sp.
- PORTLAND, DUKE OF, Worksop, Notts, England.
1 European wild cat, *Felis catus*: Scotland.
- R. AND H. FUR COMPANY, New York City.
2 Albino muskrat skins, *Ondatra zibethica zibethica*: New York State.
- RUHE, LOUIS, New York City.
1 Camel.
- SPAULDING, WILSON, Cohocton, N. Y.
1 Woodchuck, Steuben County, N. Y.
- SPRICH, MRS. E., Newburyport, Mass.
Fore feet of six-toed cat.
- STEINBACH, JOSÉ, Santa Cruz, Bolivia.
2 Specimens *Ctenomys*: Bolivia.
- STRAUSS MARKET, New York City.
2 Harbor seals, *Phoca vitulina color*: Long Island Sound.
- TALBOT, HAROLD, JR., New York City.
1 African rhinoceros, *Diceros bicornis*: Africa.
- TATE, GEORGE H., New York City.
1 Flying squirrel, *Glaucomys volans*.
- volans*: Mt. Tabor, New Jersey.
- THURSTON, HENRY, New York City.
3 *Zapus*, 1 *Blarina*, 1 *Sorex*, 2 *Peromyscus*, 1 *Tamias*: Lake Charlotte, New York.
- TOWNSEND, DR. C. H., New York City.
7 small mammals.
- TOWNSEND, T. G., New York City.
1 Northern white-footed mouse, *Peromyscus l. noveboracensis*: Bamber Lake, New Jersey.
- VAIL, DR. C. E., Miraj, India.
1 Indian wild dog, India.
- VARIAN, H. F., Lobito, Angola, Central Africa.
1 Bamboo rat: Angola, Central Africa.
- WELLS, CARVETH, New York City.
6 Duiker skulls, 5 Cony skulls; 1 Shrew: Mt. Ruwenzori, Uganda.
- WIGGINTON, MISS, New York City.
1 Golden marmoset, South America
- BY EXCHANGE
- BRITISH MUSEUM (NATURAL HISTORY), London, England.
1 Cast fresh-water dolphin.
- BROOKLYN MUSEUM, Brooklyn, N. Y.
1 Mounted skeleton of Alaskan sea otter, *Enhydria lutris*: Hinchinbrook Island, 60 miles from Cordova.
- BY PURCHASE
- 19 Small mammals, Guatemala.
5 Mammals: Siam.
18 Antelope skulls, Cameroon, Metet.
2 Tenrecs, Madagascar.
9 Small mammals, Peru.
149 Mammals, Lagarto, Peru.
247 Mammal skins and skulls, Peru.
1 Young sperm whale, *Physeter catodon*: Gowanus Bay.
1 Articulated human arm.

BY EXPEDITION

CONNECTICUT GEOLOGICAL AND NATURAL HISTORY SURVEY, New Haven, Conn.

325 Specimens Connecticut mammals.

LEE GARNETT DAY RORAIMA EXPEDITION.

558 Mammals: Mount Roraima, British Guiana.

FAUNTHORPE-VERNAY INDIAN EXPEDITION,

2 Giant squirrels, Burma and Mysore, India; 4 Bats, 4 Rats, 1 Muntjac, 3 Squirrels, 1 Flying lemur, 8 Monkeys, 2 Mouse deer, 1 Tapir skull, Lower Burma, India; 2 Four-horned antelopes, 1 Indian boar, 1 Hog deer, 2 Wild dogs, India.

STOLL-McCRACKEN SIBERIAN-ARCTIC EXPEDITION.

90 Mammals including Pacific walrus, black-tailed deer, woodland caribou, Alaska brown bear: Alaska, Bering Sea.

VERNAY ANGOLA EXPEDITION.

3 Bontebuck: Bredasdorp, South Africa.

WHITNEY SOUTH SEA EXPEDITION.

27 Mammals.

23 Mammals, Solomon Islands.

COMPARATIVE ANATOMY

BY GIFT

BARTEL, HENRY, New York City.

1 Mole (*Scalopus aquaticus*), Northern New Jersey.

CAMERON, A. K., Powderville, Mont.

1 Domestic Lamb, Montana.

CHAPIN, DR. J. P., New York City.

1 Spring haas (*Pedetes caffer*), Kidong Valley, Kenya Colony, Africa.

CHAPMAN'S ZOOLOGICAL ANIMAL CORPORATION, New York City (through S. J. Hitchings).

Spot-nosed monkey (*Lasiopyga ascanius whitesidei*), Africa.

34 Macaques (*Macacus rhesus*); 17 Baboons (*Papio hamadryas*); 3 Langurs (*Pygathrix thomasi*); 2 Wallabies (*Thylogale billardieri*); 2 *Dasyurus viverrinus*; 4 Orangs (*Pongo pygmaeus*).

CHAPPAN, J. J., New York City.

1 Mule in the flesh, Barrytown, N. Y.

DEPARTMENT OF PARKS, New York City.

1 Ostrich; 1 Elk calf; 1 Skunk.

GREENWAY, REV. CHARLES, Baldwin, N. Y.

1 Maltese cat, Long Island.

GREGORY, DR. WILLIAM K., New York City.

1 Mole, Woodstock, N. Y.

GROSSMAN, ALWYN, Allendale, N. J.

1 Young African Monkey.

HATT, ROBERT T., New York City.

1 Woodchuck.

JOSEPH, ELLIS S., New York City.

1 Cebus monkey, South America; 1 Spider monkey; 1 Cacajou; 1 Woolly monkey, South America; 3 Gelada baboons, Abyssinia; 1 Marmoset.

LIMEKILLER, FRED, New York City.

1 Opossum, New Jersey.

NOBACK, DR. CHARLES V., New York City.

1 Baby gorilla, West Africa.

NOBLE, DR. G. KINGSLEY, New York City.

3 Woodchuck.

NEW YORK AQUARIUM, New York City

2 Nurse sharks; 1 Sand shark; 1 Sea-lion, Pacific Coast; 1 Turtle; 1 Tarpon; 1 Alligator; 1 Gannet (*Sula leucogastra*); 3 Harbor seals; 1 Penguin.

NEW YORK ZOOLOGICAL SOCIETY, New York City.

1 Anaconda; 1 Opossum; 1 Lemur;

- 1 Rattlesnake; 1 Moustache monkey (*Lasiopyga cephus*), Belgian Congo; 1 Blue-tongued lizard, Australia; 1 South African hornbill; 1 Owl monkey; 1 Slow loris; 1 Black howler monkey; 1 Red howler monkey; 1 Albino angora rabbit; 3 Opossums; 1 Prairie dog; 1 Pigmy mouse.
- 2 Yaks; 2 Ferrets; 1 Hog deer; 1 Lion; 2 Aoudads; 1 Ocelot; 1 Gray bush pig; 2 Sooty mangabeys; 1 Lemur; 1 Marmoset; 1 Tayra; 1 Male mouflon; 1 Cervus; 1 Sea-lion; 1 Armadillo; 1 Diamond-backed terrapin; 1 Gray timber wolf; 1 Mountain goat (Thar); 1 Jaguarondi (Cat); 1 Capybara; 1 Red River Hog.
- PERKINS, MISS DOROTHEA, New York City.
1 Gray squirrel, New York.
- RAVEN, H. C., New York City.
1 Cat.
- WALKER, ROBERT C., New York City.
Rostrum of swordfish.

BY EXCHANGE

- NEW YORK UNIVERSITY (Washington Square), New York City.
2 Alligators.
- SCHULTZ, DR. ADOLF H., Johns Hopkins University, Baltimore, Md.
Cast of head and shoulders of chimpanzee.

BY PURCHASE

- 2 Horse heads.
1 *Hemicentetes semispinosus*; 1 *Echinops telfairi*, Madagascar.
2 *Galidea elegans*; *Viverricula schlegeli*; *Eupleres goudoti*.

ANTHROPOLOGY

BY GIFT

- ABBE, MRS. ROBERT, New York City.
1 Pottery vessel, Peru.
- ANONYMOUS.
2 Pieces of beadwork, probably Africa.
- ARMISTEAD, THOMAS E., Los Angeles, Calif.
1 Obsidian point, Odell Lake, Oregon.
- BALDWIN, PARKER PHILLIPS (Deceased), East Haddam, Conn.
15 Quartz spear and arrow points, East Haddam, Conn.
- BATES, ELLEN S. (Estate of), New York City.
29 Ethnological specimens; fossil ivory. Northwestern America and other localities.
- BAYNE, MRS. LAURA M., New York City.
Musical instrument from Africa.
- BEALE, MISS CLARA M., New York City.
Chinese embroidery.
- BELL, MRS. GORDON K., New York City.
1 Siberian fur coat, Eskimo decoration.
- BLINN, HOLBROOK, New York City.
1 Bridal palanquin, China.
- BOLTON, REGINALD P., New York City.
1 Colonial skull, New York.
- BRENNAN, DR. E. T., Mandang, New Guinea.
8 Ethnological specimens from Sepik River, Melanesia.
- BROOM, DR. ROBERT, South Africa.
67 Neolithic and Palæolithic specimens; 67 Ground and chipped stone implements, 1 Cast of Bushman face; 2 Striated or glacial stones. South Africa.
- BRYAN, FRANK, Waco, Tex.
Chipped flints and potsherds, Texas.

- BULKLEY, DR. L. C., Trang, Siam.
 4 Ethnological specimens and intaglio clay plaques, Siam.
 1 Marionette from Java.
- CHURCHILL, L. P., Oriskany, N. Y.
 6 Necklaces and 1 Brooch, Samoa.
- COOK, MRS. MARGUERITE, Elgin, Ill.
 1 Skeleton, Point Penella, Florida.
- COWL, CLARKSON, New York City.
 Leather belt trimmed with silver medallions.
- DAMTOFT, K. J., Bridgeport, Conn.
 1 Polished stone axe, Denmark.
- DAVIDSON, DR. D. S., University of Pennsylvania, Philadelphia, Penn.
 3 Seminole Indian dresses, Florida.
- DELAVAN, DR. D. B., New York City.
 1 Marionette, Java.
- ELLIOTT, MISS, New York City.
 1 Chilkat blanket, Northwest Coast.
- FISHER, E., Ithaca, N. Y.
 Miscellaneous ethnological and archaeological specimens.
- GARMAN, MISS GERTRUDE, Coitsville, N. J.
 Mummy of small child, Mexico City.
- GARMANY, DR. J. J., New York City.
 1 "Laspedra" skull, Mexico.
- GEOLOGY, DEPARTMENT OF, Museum. (Transfer).
 3 Ethnological and 2 Archaeological specimens: Queensland, Australia.
- GILFORD, MRS. S. P., New York City.
 2 Bows; 4 Spears; 20 Arrows; 1 Ceremonial staff. Melansia.
- GUTTENBERG, SIDNEY, New York City.
 1 Arrow head, Ohio.
- HARDING, H. T., Walla Walla, Wash.
 Abraded and chipped stone implements: Columbia River Valley.
- HARRISON, MISS BERTHA, New York City.
 Miscellaneous ethnological specimens: Various localities.
- HAY, CLARENCE L., New York City.
 1 Drum, Tahiti.
- HILDBURGH, DR. W. L., London.
 4,000 to 6,000 Specimens, including archaeology from Europe, Egypt and Japan, and ethnology from China, Japan, India, Ceylon, Burma and Siam.
- HOLMES, W. W., Petersburg, Fla.
 Collection of artifacts, Lossman's River, Florida.
- ICHIKAWA, S., New York City.
 1 Pair rackets, Japan.
- JAFFRAY, MRS. ROBERT, New York City.
 1 Stone axe; quartz crystal; 1 Tapa stem. South Sea Islands.
- JAMES, C. C., Mexico City, Mexico.
 22 Figurines, San Juanico, Mexico.
- LALANNE, MADAME G., Bordeaux, France.
 2 Casts bas relief sculptures: Lauselle Rockshelter, Dordogne, France.
- LARSEN, MARTHA, New York City.
 2 Pottery fragments, Southwestern United States and Mexico.
- MINERALOGY, DEPARTMENT OF, Museum. (Transfer).
 Part of wampum belt, Mackinaw, Michigan.
- MOORE, MRS. WILLIAM H., New York City.
 1 Pair Tong Pottery Camels, China.
- NORDHOFF, CHARLES, Papeete, Tahiti.
 1 Stone fish-hook, Easter Island.
- OPPENHEIMER, LAURENT, New York City.
 2 Paddles, Polynesia.
- PAPWORTH, C. E., Fort Worth, Tex.
 2 Arrowpoints, Near Comanche, Texas.
- PELL, H., New York City.
 1 Malay kris, Zamboanga, P. I.
- PERKINS, WILLIAM H., New York City.

- 1 Buffalo robe: Plains, Western United States.
- PRATT, GEORGE D., New York City.
- 2 Wooden figures, 1 Bronze figure: Africa.
- 99 Cricket gourds, China.
- 48 Japanese prints.
- 15 Crayon portraits of Indians: Plains and Southwestern United States.
- 3 Charcoal drawings of Swazi types, Africa, by Alfred R. Martin.
- 2 Archæological specimens: Japan and Korea.
- PUBLIC EDUCATION, DEPARTMENT OF, Museum. (Transfer.)
- 3 Life-size dressed models, and other ethnological specimens. Japan.
- RAY, DR. CYRUS W.
- 6 Implements: Abilene, Texas.
- ROCKEFELLER, JOHN D., JR., New York City.
- 1 Piece tapa cloth, Polynesia.
- ROSE, DAVID, Brackettville, Tex.
- 1 Fragment of skull: Texas.
- SCHAPP, MISS FLORENCE L., New York City.
- 1 Canoe: Panama.
- SEELYE, MRS. L. H., New York City.
- Implements, bones, etc., Morocco;
- 5 arrow-points, America.
- SHINZO, SHIRAE, New York City.
- 1 Model showing processes in cloisonné work: Japan.
- STEVENS, HENRY H., Lavalette, N. J.
- 59 Implements; 15 arrow heads, North Carolina.
- TOWNSEND, C. H., New York City.
- 6 Fuegan, 4 Eskimo ethnological specimens, 1 Skull: Terra del Fuego and Bering Sea.
- TRAVIS, RAYMOND G., Stillwell, Ind.
- 1 Blow-gun, 1 Dart case: South America.
- VERTEBRATE PALÆONTOLOGY, DEPARTMENT OF, Museum. (Transfer.)
- 1 Skull, 4 Ornaments: Harrison Nebraska.
- VINTON, WARREN J., New York City.
- 79 Specimens, archæological collection, including 6 skulls: probably North America.
- VON HAGEN, H. PARDE, Lake Waccabuc, N. Y.
- Skeletal fragments, New York.
- WEBB, FREDERICK M., Burbank, Calif.
- 1 Jadeite bead, Mexico.
- WELLS, CARVETH, New York City.
- 2 Pipe bowls, 1 stem: Ruwenzori, Belgian Congo, Africa.
- WEST, FRANCIS, Pompano, Florida.
- Archæological collection: Gulf of California, and Martha's Vineyard, Mass.
- WILLIAMS, MISSES SARAH AND JOANNA, Yonkers, N. Y.
- 1 Poncho, Yucatan.

BY EXCHANGE

- CHUBB, E. C., Durban, South Africa.
- 17 Specimens beadwork, South Africa.
- DE CHARDIN, P. TEILHARD, Paris, France.
- 84 Pleistocene flint cores and flakes: North Central China.
- EMMONS, LIEUT. G. T., Princeton, N. J.
- 6 Ethnological specimens: Northwest coast of North America.
- FIELD MUSEUM OF NATURAL HISTORY, Chicago, Illinois.
- 3 Tapa Masks: Baining, Melanesia; 1 Tapa mask: Sulka, Melanesia; 6 Wooden masks, New Guinea.
- RIJKS ETHNOGRAPHISCH MUSEUM, Leiden, Holland.
- Ethnological specimens, Celebes and Java.
- WILSON, DR. J. HOWARD, Castine, Me.
- Archæological collection: Texas and Oklahoma.

WOOD, FRANK R., New Bedford, Mass.

- 1 Carved club, Marquesan Islands, Polynesia.

BY PURCHASE

- 1 Carved owl: Northwest coast of North America.

Ethnological specimens, South Sea Islands; Archæological specimens: Douglas, South Africa. (12 Specimens in all.)

- 2 Casts, skull and endocranium.

- 1 Bow, 6 Arrows, 2 Spears: New Guinea and New Britain.

- 1 Chilkat blanket, Alaska.

- 110 Micro flints, Prerow, Germany.

- 1 Lemur skull, Madagascar.

- 1 Gibbon skeleton, Sumatra.

- 1 Gorilla skeleton.

- 1 Negro male skeleton.

- 1 Plaster cast, Greek head.

Post-basketmaker skeletal material, Southwestern United States.

- 1 Basket, Northern California.

- 1 Skull, and bones: Crow, Plains, Western United States.

- 1 Foetal skeleton.

BY EXPEDITION

HERZOG, GEORGE.

Phonograph records: Western Plains, United States.

KAHN-GRANGER EXPEDITION.

Ethnological collection from Bush Negroes and Caribbean Indians, Dutch Guiana.

LANG, HERBERT.

- 1 Stone specimen, Africa.

LAVES, G. K.

Archæological specimens, Near Folsom, N. M.

MORRIS, EARL H., Aztec, N. M.

Adobe bricks: Southwest United States, probably Aztec, N. M.

STOLL-McCRACKEN EXPEDITION.

Archæological collection: Alaskan

Peninsula and vicinity.

VAILLANT, GEORGE C.

Archæological collection of potsherds and figurines: Uaxactun and other parts of Mexico.

PUBLIC EDUCATION

BY GIFT

AMERICAN SOCIETY FOR THE PREVENTION OF CRUELTY TO ANIMALS, New York City.

- 2 Sets of 47 colored slides each.

BACHRACH, M., Long Island City, L. I., N. Y.

- 1 Piece of sheep skin.

BERNHEIMER, CHAS. L., New York City.

Album with 213 prints of the Sixth Bernheimer Expedition of the American Museum of Natural History.

BROOMALL, MISS L. B., Far Rockaway, N. Y.

- 1 Slate-colored junco.

BROWN, F. MARTIN, Avon, Conn.

75 Negatives of Dominica, Trinidad, Martinique, etc.

CAMPBELL, MRS., Brooklyn, N. Y.

- 3 Small groups of birds.

CARPENTER, W. H., New York City.

- 1 Reel motion picture positive, "Betty and Her Beasties."

CHICAGO PLAN COMMISSION.

(Through courtesy of Mr. Stanley Field.)

- 12 Plain slides.

CLAPP, E. W., Chicago, Ill.

- 199 Colored lantern slides; 2 Manuscripts.

CORTICELLI SILK COMPANY, New York City. (Through Mr. H. L. Hancock.)

- 1 Set of 62 lantern slides.

CRAWFORD, M. D. C., JR., West Nyack, N. Y.

- 1 Live box turtle.

FAR ROCKAWAY HIGH SCHOOL, Far

- Rockaway, L. I., N. Y.
1 Cathbird.
- FRITSCHÉ, J. H., Detroit, Mich.
3 Reels of motion picture positive of "Early Pages in American History."
- GENERAL ELECTRIC COMPANY,
Schenectady, N. Y. (Through Mr. J. Klenke.)
24 Plain slides and manuscript on "Fundamental Principles and Design of the Railway Motor."
- GILMORE, W. M., Rockaway Beach, N. Y.
1 Slate-colored junco; 1 Hermit thrush.
- HASKIN, DR. WM. H., New York City.
Tail of lyre-bird in frame.
- HATT, ROBERT T., New York City.
54 Negatives of mammals.
- HAY, CLARENCE L., NEW YORK CITY.
1 Reel motion picture positive, "What is a Mexican?"
- HORN, MISS MARY A., Arverne, N. Y.
2 Hermit thrushes; 1 Slate-colored junco; 1 Brown thrasher; 1 Black-billed cuckoo; 1 Low-billed marsh wren; 1 Hermit thrush; 1 Gray-cheeked thrush; 1 Towhee; 1 Junco.
- HUNT, CHAS. EDWIN, New York City.
Collection of birds' eggs.
- KITTREDGE, MISS ELSIE M., Proctor, Vt.
9 Glass negatives.
- KNAKAL, MISS, New York City.
1 Starling.
- MORDEN, WILLIAM J., New York City.
23,000 feet motion picture positive of Morden-Clark Asiatic Expedition.
- MURPHY, DR. ROBERT C., New York City.
12 Colored slides; 12 Plain slides.
- ORNITHOLOGY, DEPARTMENT OF.
(Transfer.)
1 Mounted parrot; 3 White-throated sparrows; 1 Fox sparrow; 1 Robin; 2 Hermit thrushes.
- PRATT, GEORGE D., New York City.
1000 Feet motion picture film, "Life Cycle of an Oyster." 9 Figures of Laplanders and reindeer carved from wood.
- PUBLIC SCHOOL No. 44, Queens, New York City.
1 Robin; 2 Juncos; 1 Hermit thrush.
- SAGE, DE WITT, L., New York City.
3,300 Feet of raw stock motion picture film.
- SCHEUBER, MRS., New York City.
1 Mounted loon with bell glass.
- SCOVIL, MRS. CORA, New York City.
1 Mounted peacock.
- SETON, ERNEST THOMPSON, Greenwich, Conn.
221 Colored slides and 653 plain slides.
482 Glass negatives $3\frac{3}{4} \times 4\frac{3}{4}$ and 4×5 .
- SHEA, MR. AND MRS. JOHN P., Greenwich, Conn.
1 Negative of John Burroughs on Old Clump Mountain.
- SHEDD, ALFRED O., Yonkers, N. Y.
2 Negatives 5×7 of crystals taken in Mineral Hall.
- VERNAY, ARTHUR S., New York City.
161 Negatives 5×7 ; 100 Stereoscopic negatives; 1,900 Negatives 4×5 ; 47 Negatives $3\frac{3}{4} \times 4\frac{3}{4}$.
- VERTEBRATE PALÆONTOLOGY, DEPARTMENT OF. (Transfer.)
1 Negative 11×14 and 6 negatives 8×10 of old views of American Museum of Natural History.
- WALKER, LEWIS W., Hugo, Colo.
Skins of 2 Young coyotes and 1 Badger.
- WOODCRAFT LEAGUE OF AMERICA, INC., New York City.
1 Life history of the silk worm (Riker mount.)

ROOSEVELT HIGH SCHOOL, New York
City.

1 Squirrel; 1 Sparrow.

BY EXCHANGE

STATE DEPARTMENT OF VISUAL IN-
STRUCTION, Albany, N. Y.

16 Negatives of Spain.

VISUAL EDUCATION SERVICE, INC.,
Los Angeles, Calif.

60 Negatives and prints.

BY EXPEDITION

MORDEN-CLARK EXPEDITION.

3,140 Film negatives.

ADMINISTRATION

BY GIFT

BAERMAN, FREEMAN D., Dunellen,
N. J.

White Houdan hen.

JOHNSON, MARTIN, Museum.

4 Photographs of Lion, 14"×22";
Lion and Lioness, 15"×22",
Africa.

WOODS AND FORESTRY

BY GIFT

DEL VALLE CRAM, MRS. ISABEL,
Camulos Ranch, Ventura Co.,
Calif.

2 Photographs of giant black
walnut tree, 5"×9", Ventura
County.

DRURY, NEWTON B., San Francisco,
Calif.

1 Photograph, grove of redwoods,
"The Mystery of the Forest,"
16"×19".

KELTON, DR. J. C., Murfreesboro,
Tenn.

Section of trunk of southern cedar,
near Murfreesboro.

LOCKE, DAVIS ROGER, San Antonio,
Tex.

Section of trunk of ailanthus tree,
San Antonio.

NEW YORK STATE COLLEGE OF
• FORESTRY, Syracuse, N. Y.

48 Samples of native woods, chiefly
New York.



III. ADMINISTRATION, OPERATION AND BUILDING

GEORGE H. SHERWOOD, Director

The year 1928 has been one of great activity in the operation and construction departments, not only in the production of new work, but particularly in improving the internal condition of the Museum. The normal development of the Museum departments,—in fact every gift to the Museum,—increases the demands on our service departments, which are inadequately manned for such a volume of work. We can, however, point with pride to what has been accomplished. The physical condition of the building in general is better than ever before. The halls are more attractive. The illumination has been improved in many instances; protection from fire is more adequate. In all this work, each of the administrative officers has borne an important share of the burden.

The ever-broadening scope of the Museum's work is more and more exerting its influence on the lives of a larger number of people. This is especially evident in the many contacts established through the service rendered to universities, colleges and schools. The comparative figures for the past five years are given in the accompanying table.

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

	1924	1925	1926	1927	1928
Board of Education Lectures....	26,484	26,968	10,460	10,914	12,342
Lectures to School Children and classes visiting the Museum for Study.....	139,433	133,386	138,514	145,304	172,549
Meetings of Scientific Societies and Other Meetings and Lec- tures.....	22,637	37,389	34,976	47,680	27,461
Total.....	188,554	197,743	183,950	203,898	212,352
Attendance in Exhibition Halls..	1,455,289	1,578,147	1,886,315	2,088,978	688,879
Total attendance for all Purposes.....	1,633,843	1,775,890	2,070,265	2,292,876	901,231
Lectures to Pupils in Local Centers.....	24,792	27,055	33,255	20,421	45,718
Number reached by Motion Picture Service.....	115,849	333,097	530,955	1,123,704	1,576,249
Number reached by Lantern Slide Service.....	5,407,525	3,941,494	4,358,423	6,866,112	9,734,122
Numbers reached by Circula- ting Collections.....	1,247,914	977,384	798,382	1,679,589	2,282,272
Grand Total.....	8,429,923	7,054,920	7,791,280	11,982,702	14,539,592

GENERAL CONSTRUCTION DURING 1928

As the year closes we find the preliminary plans for the African Hall and the Power and Service Building complete and the contract with the architects for the preparation of final plans and specifications pending in the Board of Estimate and Apportionment for approval.

With funds made available by City appropriations, a great amount of case construction and related work has been accomplished. The completion of the equipment of the School Service Building was marked by the formal dedication of that splendid plant on January 17. This was followed on December 5 by the official opening of the Fish Hall on the first floor of the Southeast Wing. On the second floor of this wing, in the Asiatic Hall, the greater part of the case construction has been completed, and the central dome of the adjoining North Asiatic Hall was finished by an outside contractor. The steel work of the habitat group backgrounds in this hall also was installed. Twelve habitat group cases for the Hall of Birds of the World on the second floor have been completed, and the casing of the African Hall of Ethnology has been well advanced. Considerable progress is also noted in the Hall of Ocean Life and should enable us to open this hall, at least partly completed, early in 1929. It has been possible, by means of City funds, to construct storage galleries in several of the fifth floor department offices, to repair the south towers of the Museum which were damaged by lightning several years ago, and to install a much needed system of safety aisle lights in our main auditorium. Additional stack room was also provided for our rapidly expanding library.

In order to put our house in good condition to receive the distinguished delegates of the Fourth International Congress of Entomology in August, the XXIII International Congress of Americanists in September and the American Association for the Advancement of Science in December, the Trustees appropriated \$51,000 for special repairs and renovations. This fund, together with the special budget allowance from the City for painting and repair work, enabled us to put the Museum in very presentable condition. Nine exhibition halls were painted and modern indirect illumination was introduced in seven halls. In this program the Darwin Hall of Biology was entirely redecorated in morene and relighted to harmonize with the Fish Hall.

The new restaurant which opened in July is one of the most fortunate provisions of the Trustees' special appropriation. Operated as a Museum department under the efficient direction of the dietician-manager, Miss Marion F. Jellicorse, it has created unlimited good will among our visitors and staff, and in the short space of six months has become an indispensable service.

Among the miscellaneous items undertaken during the year, it should be recorded that Memorial Hall has been greatly improved by the installation of marble bases under the meteorites and by the enlargement of the Publications and Information Booth to care for the ever-increasing volume of sales and inquiries. The above brief review will attest the size and diversity of our 1928 construction program. It was a difficult one to plan and a more difficult one to execute. With the whole-hearted cooperation of the members of the Operation, Construction and Transportation Committee and of all our workmen, we have accomplished much and may look back with justifiable pride on the achievements of 1928.

REPORT OF THE REGISTRAR

The activities of the Registrar's office during the current year have been as various in kind as undoubtedly arise in any other department of the Museum. This office is responsible for the proper recording and distribution of all material coming to the Museum, for the packing and shipping, for the welfare work, pension system and publicity. Some idea of the operations of the department may be conveyed in the statement that during the year there were recorded collections and specimens covering 886 accessions, divided as follows: By gift, 645; by exchange, 79; by expeditions, 48; by purchase, 79; by transfer, 12, and on permanent deposit, 5. All accessions have to be entered systematically in books and card files, wherein are recited full details of the acquisition, such as the donor, the kind of gift, the department of the Museum to which it belongs and any additional information needed to classify it. Every effort has been made to render the system as complete and smoothly functioning as possible. Evidence of its effectiveness is indicated by the many inquiries which have come to us from other institutions, and, in a number of instances, members of other organizations have come to the office and examined it, carrying away samples of our records.

The importance of the shipping and receiving department in the Museum may be observed from the statement that during the current year 16,460 packages of all sizes were received and distributed to the several departments. There were 3,422 separate shipments received and 878 forwarded; almost if not as many as are received in some of our smaller railroad stations. Cooperating with and as an adjunct to our shipping room, we have the packing department that made ready for shipment 349 different consignments, requiring the making and boxing of 603 packages. In addition to this work, this division of the department attended to fifty-six bonded shipments consisting of 246 packages. Also we have a record of material delivered by our car to 618 various sources and individuals which necessitated covering 4,578 miles.

A comparison of the above items of labor with those of previous years indicates that to do all of this work with our small personnel, each individual must apply himself most diligently to his personal responsibilities.

The gifts acquired during the year compare favorably both in number and value with those of previous years, an indication to those in charge that the public is satisfied with its cooperation and recognition of the general purposes for which the Museum was created, as—"A source of public instruction and one encouraging and developing the study of natural science."

The Welfare Committee, operating under the direction of the President and Trustees, through the members of the Pension Board, has rendered a service which it is felt has been helpful and welcome to those in need of its aid.

This seems to be an opportune time to express our appreciation to the medical and surgical professions, as well as to the hospitals, for most materially aiding us in bringing relief to those in our employ who have been in need of their services.

The work of the Pension Committee, together with that of the Publicity Committee, is contained in separate reports available to those interested in examining them.

IV. FINANCIAL ADMINISTRATION

JAMES H. PERKINS, Treasurer

As the chief source of income of the Museum is the Endowment Fund, the Treasurer, who is also the Chairman of the Finance Committee, has given a great deal of attention to the investment of new capital and to reinvestment of present securities. With the personal aid of the Trustee members of the Finance Committee, Messrs. George F. Baker, Jr., George T. Bowdoin, A. Perry Osborn, and Felix M. Warburg, and with the advice and guidance of the Advisers to the Finance Committee, Messrs. Arthur M. Anderson, Everett B. Sweezy and Moreau Delano, reviews of the securities held by the Museum have been frequently made, which have resulted in a marked increase of the yield and income. To these gentlemen, the Trustees extend their grateful appreciation for their cooperation in the work done with the endowment funds of the Museum.

On December 31, 1928, the Permanent Endowment Fund of the Museum amounted to a book value of \$13,458,460.42, an increase of \$1,295,911.22 during the year, which is invested as follows:

Railroad Bonds and Stocks.....	\$8,478,661.50	
Industrial Bonds and Stocks.....	1,544,402.38	
Public Utility Bonds and Stocks.....	1,852,654.00	
Real Estate and Investment Trust Bonds..	1,554,745.00	
Government Bonds.....	25,423.44	\$13,455,886.32
Uninvested Cash.....		2,574.10
Total.....		<u>\$13,458,460.42</u>

The market value of the Museum securities on December 31, 1928, was \$14,082,187.30.

The annual income from Endowment funds is \$665,280.12, an increase of \$77,094.78 since January 1, 1928. The direct rate of yield is .0487.

Bequests and Gifts paid in 1928:

Estate of Anna M. Harkness.....	\$1,000,000.00
Estate of Margaret Olivia Sage, final.....	103,567.50
Estate of Wood Fosdick.....	117,256.19
Gift of Ruth V. Twombly.....	1,000.00
Gift of James N. Hill.....	4,702.50
Estate of Charles E. Rhinelander, final.....	11,190.92

During 1928, two important bequests were recorded:

Frederick G. Voss bequeathed to the Museum a certain portion of the residuary estate, the income to be applied to research in Anthropology and Archæology. The amount to be received is estimated as over \$500,000.00.

Eugene V. Durkee directed in his will that certain trust funds were to be created for the benefit of his two daughters, and upon their death without issue are to be turned over to the Museum. The estate is estimated to exceed \$2,000,000.00.

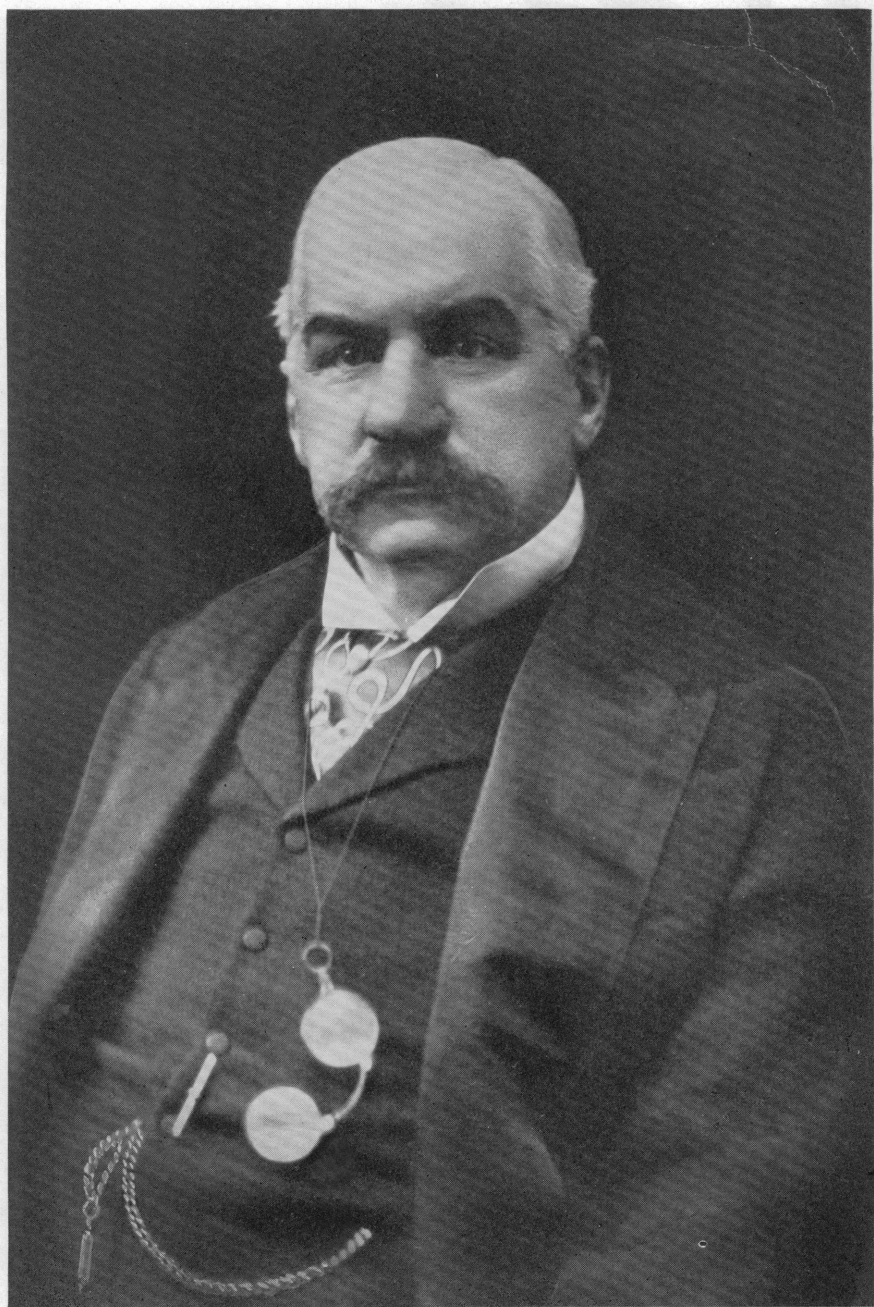
Bashford Dean, Honorary Curator of the Department of Fishes, set aside in his will the sum of \$5,000.00, the income of which is to be used for the purpose of maintaining his library of ichthyology.

During the past two years we have shown in this preamble of the financial report a summarized statement of the operations of the Museum, combining the City Maintenance, General, Morris K. Jesup, Special Funds and Trustees' Building Fund Accounts, which we trust is helpful in analyzing our receipts and disbursements.

SUMMARY OF RECEIPTS AND DISBURSEMENTS FOR ALL PURPOSES, 1928

Receipts

City of New York for Maintenance.....		\$452,374.12
Trustees' Funds:		
Balance January 1, 1928.....		204,016.59
Income from Endowment Funds.....	\$634,972.80	
Contributions of Trustees.....	166,029.44	
Contributions of Members and Friends....	194,530.24	
Membership Fees.....	75,851.00	
Sale of Publications and Exchanges.....	17,981.70	
Interest on Credit Balances.....	5,753.82	
Contributions of Foundations.....	20,000.00	
Total Income, Trustees' Funds.....		1,115,119.00
Total Income, all sources.....		\$1,771,509.71



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J. PIERPONT MORGAN
A Founder and Trustee
1869-1913

Disbursements (Operating Costs)

Scientific and Research:

Geology and Invertebrate Palæontology...	\$19,546.94
Mineralogy.....	12,060.82
Mammalogy.....	53,392.24
Central Asiatic Exploration and Research.	76,431.20
Ornithology.....	69,148.43
Vertebrate Palæontology.....	46,876.91
The President's Science and Research Fund	24,066.08
Comparative Anatomy.....	14,334.61
Anthropology.....	43,630.40
Ichthyology.....	17,976.99
Herpetology and Experimental Biology...	25,511.98
Lower Invertebrates.....	13,984.24
Entomology.....	19,911.76
Library.....	32,681.28
Astronomy.....	3,437.06
	<u>\$472,990.94</u>

Printing, Books and Publications:

Printing and Publishing.....	<u>\$107,770.19</u>
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Preparation and Exhibition:

Preparation and Exhibition.....	\$170,382.41
Vertebrate Palæontology.....	22,648.63
	<u>\$193,031.04</u>

Educational, Public School Work:

Public Education.....	<u>\$85,566.57</u>
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Administration and Operation:

Administration.....	\$248,165.67
General Supplies and Expenses.....	69,468.76
Heating and Lighting.....	115,883.92
Repairs and Installation.....	98,393.68
Special Repairs.....	27,913.67
Trustees' Special Repairs.....	36,150.62
Museum Restaurant.....	22,841.17
Architects' Services.....	4,381.42
Pension Fund and Group Insurance.....	33,123.57
Interest on Bank Loans.....	6,546.15
	<u>\$662,868.63</u>

Financial Administration:

Administration.....	\$64,032.87
General Supplies and Expenses.....	11,597.71
	<u>\$75,630.58</u>

Total, all costs..... \$1,597,857.95

Balance, December 31, 1928..... \$173,651.76

The Museum has been operating on a budget system for many years, and in November of each year has prepared a careful estimate of its requirements for the ensuing year. After careful study, in order not to seriously curtail the Museum's work, the Trustees authorized a budget in excess of income to the amount of \$121,286.-52. Early in the year, anticipating the meetings of the XXIII International Congress of Americanists and of the American Association for the Advancement of Science, the Trustees increased this deficiency by \$63,295.06, and voted \$2,583.00 additional for other important work, a total of \$187,164.58, in order to improve the educational value of the exhibition halls. This entire sum was raised, the Trustees subscribing \$119,350.00, the balance being received by increase of Endowment income, and through many gifts from members and friends, the latter principally to cover the cost of special groups prepared during the year.

The Trustees gratefully acknowledge the receipt of special gifts, as shown below, for the continuance of the Central Asiatic Expeditions work, for special bird, reptile, fish and mammal groups, and for the educational work of the Museum. Without these gifts, the work would have been severely hampered, and many of our exhibition halls would not have the beautiful groups to display.

GENERAL PURPOSES, 1928

Anonymous Contribution....	\$1.00	Lowell, Judge James A.....	3.00
Benson, R. Dale, Jr.....	2.00	Perkins, W. H.....	500.00
Bradley, Mrs. Charles.....	2.00	Scully, C. Alison.....	250.00
Chafee, Henry S.....	2.00	Sollmann, Ekko.....	100.00
Harriman, Mrs. J. Low.....	19.00	Walker, Charles C.....	10.00
Iselin, Adrian.....	500.00	Williamson, Wallace J., Jr...	2.00
Lewis, Joseph.....	5.00		
Lindley, Mrs. Allen L.....	100.00		<u>\$1,496.00</u>

CENTRAL ASIATIC EXPEDITIONS FUND No. 1—1927

Winne, Dr. Charles K., Jr.....	<u>\$10.00</u>
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CENTRAL ASIATIC EXPEDITIONS FUND No. 1—1928

American Museum of Natural History.....	\$5,000.00	Armstrong, Mrs. E. J.....	100.00
Appleby, Mrs. John Storm..	25.00	Baker, Miss Carrie Ethel...	5.00
		Baker, George F.....	5,000.00

CENTRAL ASIATIC EXPEDITIONS FUND No. 1—1928 (continued)

Barr, James H.....	100.00	Marsh, Geo. E.....	3.00
Battle, George Gordon.....	10.00	Masson, John G.....	5.00
Bernheim, Henry J.....	100.00	Morgan, J. P.....	5,625.00
Bernheimer, Mr. and Mrs. Charles L.....	500.00	Morris, Hon. Ira Nelson.....	300.00
Blackmer, James L.....	100.00	Mosman, Philip A.....	10.00
Cannon, Gabriel.....	10.00	Newbold, Arthur E., Jr.....	500.00
Carpenter, C. L.....	50.00	Putnam, Helen C., M.D.....	25.00
Coburn, Miss Louise H.....	10.00	Ramsperger, H. G.....	2.00
Cole, Harry N.....	2.00	Riegger, Arnold F.....	10.00
Colgate, Henry A.....	200.00	Robinson, Mrs. C. L. F.....	10.00
Congdon, Walter B.....	50.00	Rockefeller, John D., Jr.....	7,500.00
Covell, Henry H.....	500.00	Rogers, Saul E.....	50.00
Crabbe, Miss Louise G.....	10.00	Satterlee, Mrs. Herbert L.....	50.00
DuBois, Miss Ethel.....	20.00	Schniewind, Ewald H.....	30.00
Field Museum of Natural History.....	5,000.00	Scholle, Howard A.....	10.00
Francklyn, Mrs. Cyril.....	15.00	Smith, Harriet Otis.....	5.00
Garrett, Hon. John W.....	100.00	Smith, W. Hinckle.....	100.00
Halsey, Harold V. W.....	10.00	Straus, Mrs. H. Grant.....	10.00
Holmes, Walter W.....	50.00	Taber, Miss M.....	25.00
James, Arthur Curtiss.....	1,000.00	Thompson, Mrs. J. Todhunter	25.00
Kemeys, Walter Schuyler.....	50.00	Thorne, S. B.....	10.00
Kirkham, Dr. William B.....	10.00	Weigert, Hugo.....	10.00
Kridel, Alexander H.....	20.00	Westervelt, Rev. William D..	25.00
Lamont, Thomas W.....	250.00	Wherry, Dr. William B.....	10.00
Landon, Francis G.....	50.00	Wilbur, James Benjamin.....	100.00
Logan Museum, Beloit College.....	1,000.00	Willard, Frank C.....	5.00
Ludlum, Clarence A.....	50.00	Williams, William.....	100.00
Mackay, Clarence H.....	500.00	Winne, Dr. Charles K., Jr....	10.00
			<u>\$34,462.00</u>

CENTRAL ASIATIC EXPEDITIONS FUND No. 2—1928

Allen, Frederick W.....	\$5.00	Dole, Elwyn H.....	10.00
Baeyertz, Mrs. J. T. F.....	25.00	Dorr, John V. N.....	25.00
Baldwin, George V. N., Jr....	20.00	Durlach, Mrs. Theresa Mayer	25.00
Banning, Leland G.....	5.00	Emmet, C. Temple.....	50.00
Boise, Charles Watson.....	100.00	Farr, Miss Shirley.....	1,000.00
Bond, Stephen N.....	10.00	Fay, George A.....	25.00
Brill, Dr. A. A.....	25.00	Gammell, William.....	100.00
Brownell, F. H.....	25.00	Goodwin, William B.....	50.00
Casamajor, Miss Martha.....	5.00	Gribbel, Mrs. John.....	25.00
Chester, Hawley T.....	10.00	Gillaume, Jules A.....	10.00
Cook, Mrs. D. C.....	25.00	Guterman, Percy L.....	5.00
Dibblee, B. H.....	10.00	Hale, P. C.....	100.00

Hamilton, Claude.....	25.00	Sage, Henry M.....	50.00
Harmon, William E.....	100.00	Scholle, William D.....	10.00
Houghton, John D.....	5.00	Severance, John L.....	2,000.00
Howard, John K.....	10.00	Sharpe, Henry D.....	100.00
King, Willard V.....	100.00	Sherman, Miss Corinne A....	15.00
Kinney, Warren.....	100.00	Sleeth, R. L., Jr.....	50.00
Lundquist, Miss G.....	10.00	Smith, Daniel Cranford.....	10.00
Lyeth, John C.....	5.00	Snell, Francis Arnold.....	20.00
MacCurdy, Mrs. Winifred...	100.00	Thompson, William Boyce...	100.00
Marmon, Mrs. Elizabeth C...	100.00	Turnbull, Mrs. Sarah A.....	3.00
Mayer, Dr. Leo.....	10.00	Vaillant, G. W.....	50.00
Morris, Dr. H. H.....	10.00	Wightman, Henry Nicoll.....	6.00
Morris, Dr. Lewis R.....	500.00	Worcester, Wilfred J.....	20.00
Newburger, Morton J.....	10.00	Wracie, John L.....	2.00
Nickels, L. H.....	5.00		<u>\$5,261.00</u>
O'Donel, C. M.....	5.00		
Price, Charles R.....	5.00		
Roy, James Bryant.....	10.00	Total for 1928.....	<u>\$39,723.00</u>
Sachs, Paul J.....	25.00		

CENTRAL ASIATIC EXPEDITIONS FUND No. 2—1929

Marmon, Mrs. Elizabeth C.....	\$100.00
McClintock, Gilbert S.....	200.00
	<u>\$300.00</u>

CENTRAL ASIATIC EXPEDITIONS FUND NO. 3—1929

Armstrong, Dr. S. T.....	\$100.00	Monaelesser, Dr. A.....	25.00
Austin, Chellis A.....	25.00	Moulton, Miss Frances.....	5.00
Beckwith, Mrs. Daniel.....	100.00	Osborne, Arthur A.....	5.00
Chandler, W. F.....	200.00	Pedersen, Dr. James.....	10.00
Chase, Frederick S.....	10.00	Peskind, Dr. Arnold.....	10.00
Chubb, Percy.....	100.00	Peter 3rd, Mrs. Armistead...	10.00
Colgate, Henry A.....	250.00	Pomeroy, Miss Katherine....	100.00
Crane, Alfred J.....	50.00	Prizer, Edward.....	100.00
Cullinan, J. S.....	100.00	Pulitzer, Ralph.....	500.00
Darwin, Major Leonard....	25.00	Sargent, Homer E.....	100.00
Elsberg, H. A.....	10.00	Shepard, C. Sidney.....	100.00
Hencken, Hancke.....	50.00	Swan, Mrs. J. Andrews.....	100.00
Holden, Guerdon S.....	2,000.00	Thompson, A. W.....	25.00
Howard, John K.....	10.00	Vogel, Fred, Jr.....	10.00
Jacoby, Prof. Henry S.....	5.00	Wilder, S. H.....	10.00
Manierre, Charles E.....	10.00		<u>\$4,355.00</u>
Milliken, Arthur N.....	100.00		
Mitchell, Walter S.....	100.00	Total for 1929.....	<u>\$4,655.00</u>

**ENTERTAINMENT OF THE XXIII
INTERNATIONAL CONGRESS OF AMERICANISTS**

Adams, Edward Dean.....	\$50.00	Jennings, Oliver G.....	200.00
Baker, George F.....	100.00	Morgan, J. P.....	250.00
Bernheimer, Chas. L.....	25.00	Morgan, Junius S., Jr.....	200.00
Bowdoin, Geo. T.....	100.00	Pratt, Geo. D.....	100.00
Davison, Frederick Trubee....	25.00	Pomeroy, Daniel E.....	50.00
Dodge, Cleveland E.....	100.00	Rice, Dr. Alexander Hamilton	100.00
Frick, Childs.....	100.00	Warburg, Felix M.....	250.00
Hay, Clarence L.....	100.00		
Huntington, Archer M.....	250.00		<u>\$2,000.00</u>

NATURE STUDY FUND No. 2

Cohen, Arthur J.....	\$10.00	Siegman, Simon.....	25.00
Garrett, Miss Laura B.....	5.00	Simpson, Miss Jean Walker	50.00
Hegeman, Gerard C.....	25.00		<u>\$120.00</u>
Schmucker, Prof. S. C.....	5.00		

FISH GROUP FUND

Johnson, Charles F.....	\$25.00		
Rinehart, C. R.....	25.00		
			<u>\$50.00</u>

LANTERN SLIDE FUND

Bradley, Mrs. Charles F.....	\$5.00	Scully, C. Allison.....	100.00
Hutchison, Charles F.....	25.00	Simpson, Miss Jean Walker..	50.00
Koon, R. B.....	10.00	Wood, Cornelius Ayer.....	20.00
Lyman, Miss Grace Greenleaf	15.00	Zucker, Arthur A.....	50.00
Pollitzer, Miss Margaret....	25.00		<u>\$305.00</u>
Reider, Edwin S.....	5.00		

**ENTERTAINMENT OF AMERICAN ASSOCIATION FOR THE
ADVANCEMENT OF SCIENCE**

Bowdoin, George T.....	\$100.00	Morgan, J. P.....	250.00
Dodge, Cleveland E.....	150.00	Perkins, James H.....	100.00
Frick, Childs.....	100.00	Pratt, Geo. D.....	500.00
Hay, Clarence L.....	100.00	Thorne, S. B.....	50.00
Jennings, O. G.....	200.00	Warburg, Felix M.....	100.00
Miller, Roswell.....	50.00		<u>\$2,200.00</u>
Mills, Ogden.....	500.00		

EMERGENCY EXHIBITION AND EDUCATION FUND No. 1

Battle, George Gordon.....	\$100.00	Osborn, Dr. Wm. Church.....	100.00
Blackmer, James L.....	100.00	Pierrepont, Miss 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	Thorne, Mrs. W. V. S.....	300.00
Harkness, Edward S.....	100.00	Tucker, Carl.....	100.00
Harriman, E. Roland.....	100.00	Vanderbilt, F. W.....	100.00
Lamont, Thomas W.....	100.00	Vanderbilt, William H.....	100.00
Mallinckrodt, Edward, Jr....	100.00	Vanderbilt, William 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>\$3,725.00</u>
Nichols, William H.....	100.00		

EMERGENCY EXHIBITION AND EDUCATION FUND No. 2**GENERAL PURPOSES**

Coolidge, Mrs. W. H., Jr....	\$10.00
Morris, Dr. H. H.....	25.00
Palmer, E. C.....	3.00
Post, Abram S.....	25.00
	<u>\$63.00</u>

HALL OF OCEAN LIFE

Ocarenza, Dr. Fernando....	<u>\$5.00</u>
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FOR PUBLICATIONS

Mayer, B.....	\$100.00
Merriman, H. M., Jr.....	5.00
	<u>\$105.00</u>

FOR EDUCATION

Sullivan, Mrs. James.....	<u>\$10.00</u>
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PREPARATION FUNDS**GENERAL PREPARATION**

Adams, Edward D.....	\$100.00
Alexander, Bart. Sir	
Douglas.....	100.00
Anonymous ..	50.00
Arnold College.....	5.00
Baird, Collier W.....	10.00
Barnes, Fred Asa.....	5.00
Beach, Goodwin B.....	10.00
Belknap, Mrs. William.....	100.00
Beller, Wm. F.....	25.00

Bender, George.....	10.00
Betts, Samuel R.....	50.00
Bole, B. P.....	100.00
Bose, Edward.....	10.00
Boulton, Mrs. W. B.....	25.00
Boury, Louis J.....	100.00
Burden, John.....	10.00
Casey, Edward Pearce.....	20.00
Chalmers, Arthur A.....	50.00
Church, E. D.....	100.00
Clark, Edward S.....	1,000.00

PREPARATION FUNDS (continued)

Crabb, Robert.....	50.00	Mayer, Dr. Leo.....	10.00
Curtis, James F.....	20.00	Milliken, Arthur N.....	100.00
Curtis, Cap. L. W., U.S.N..	5.00	Mitchell, Walter S.....	100.00
Cushing, Lawrence B.....	2.00	Monaelesser, Dr. A.....	25.00
Davis, Waters S.....	10.00	Moody, William F.....	25.00
De Perigny, Comtesse Mar-		Moore, Benjamin.....	25.00
garet Thaw.....	50.00	Mosman, Philip A.....	30.00
Dunbar, F. L.....	25.00	Nichols, Mrs. George.....	250.00
du Pont, Mrs. Coleman....	100.00	Phelps, Miss S. L.....	10.00
Dustin, Charles W.....	15.00	Pratt, Mrs. John T.....	250.00
Elser, Albert C.....	250.00	Quier, Mrs. Edwin A.....	100.00
Emerick, F. A.....	25.00	Raisler, Samuel.....	15.00
Evans, Miss Edith.....	3.00	Rogers, Saul E.....	100.00
Ferry, Mansfield.....	10.00	Roosevelt, A. B.....	5.00
Fredrick, Mrs. Leopold....	25.00	Satchell, Geo. E. H.....	5.00
Frissell, A. S.....	10.00	Schwarz, Miss Emilie E....	100.00
Gibson, W. Frazer.....	10.00	Seymour, Henry T.....	10.00
Goodenough, Robert I.....	200.00	Shepard, C. Sidney.....	100.00
Goss, Mrs. George A.....	50.00	Shoemaker, Ernest.....	10.00
Grant, William T.....	25.00	Siegman, Samuel M.....	100.00
Gray, Morris.....	25.00	Smith, Arthur.....	20.00
Guenther, Louis.....	10.00	Snyder, Harry.....	10.00
Hammond, Edward C.....	10.00	Spofford, Carl L.....	10.00
Hauswirth, Dr. Louis.....	10.00	Stern, Benjamin.....	25.00
Heydt, Herman A.....	10.00	Stubbs, O. T.....	5.00
Hill, Geraldine C.....	5.00	Swan, Mrs. J. Andrews.....	250.00
Hills, Mrs. George F.....	10.00	Tweed, Harrison.....	25.00
Hinchliff, Mrs. Wm. E.....	3.00	Ulmann, C. J.....	50.00
Hinchman, Mrs. Charles S..	25.00	Victorius, Myer L.....	25.00
Hodenpyl, Anton G.....	100.00	Walker, Dr. Thaddeus....	10.00
Hoopes, Maurice.....	25.00	Warren, Frank M.....	5.00
Hornblower, Henry.....	500.00	White, Rev. and Mrs. Eliot.	5.00
Howard, John K.....	10.00	Williams, William.....	100.00
Hudson, Mrs. Marjorie V.L.	50.00	Woolley, Park M.....	100.00
Hupfel, J. Chr. G.....	10.00	Young, Mrs. A. Murray...	25.00
Huther, Geo. T.....	10.00		<u>\$6,533.00</u>
Keith, Wm. E., M. D.....	100.00		
Keller, Carl T.....	5.00	GENERAL PREPARATION	
Kirkham, George D.....	25.00	Dean, Mrs. E. Clarence....	\$25.00
Knapp, Dr. Arnold.....	100.00	Hewitt, Mrs. Lucy W.....	100.00
Lamont, T. W.....	500.00	Pomeroy, Mrs. Katherine..	500.00
Lindley, Allen L.....	50.00		<u>\$625.00</u>
Luke, Adam K.....	100.00		
Lyeth, J. M. R.....	25.00	BIRDS OF THE PAMPAS GROUP	
Manges, Dr. Morris.....	10.00	Erickson, Mrs. Anna E....	<u>\$3,000.00</u>
Masson, John G.....	5.00		

PREPARATION FUNDS—1928 (continued)

CORAL REEF GROUP

Benjamin, Henry Rogers...	\$100.00
Church, F. Edwin.....	25.00
Uhl, Oswald W.....	500.00
Wood, Cornelius Ayer....	20.00
	<u>\$645.00</u>

DEEP SEA GROUP

Townsend, Dr. Charles H..	<u>\$20.00</u>
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KIDONG VALLEY GROUP

Carlin, Mrs. William E....	<u>\$10.00</u>
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PENGUIN GROUP

McKinney, Glenn Ford...	<u>\$1,700.00</u>
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ROTIFER GROUP

Curtis, F. Kingsbury.....	<u>\$500.00</u>
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SAIL FISH GROUP

Spalding, Mrs. Keith.....	\$1,000.00
Spalding, Keith.....	1,000.00
	<u>\$2,000.00</u>

SEA LION GROUP

Mertzanoff, Andre.....	<u>\$25.00</u>
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SHARK GROUP

Ayer, Dr. James C.....	\$10.00
Perkins, Mrs. George W....	1,000.00
Rogers, Francis Day.....	5.00
	<u>\$1,015.00</u>

FINANCIAL STATEMENT, 1928

PERMANENT ENDOWMENT

	Par Value	Book Value
Morris K. Jesup Fund.....	\$6,453,038.80	\$5,952,818.64
General Endowment Fund.....	1,824,811.20	1,817,958.32
The Sage Fund.....	1,740,750.00	1,617,164.47
George F. Baker Fund.....	263,150.00	249,995.35
John D. Rockefeller, Jr. Fund.....	1,074,750.00	1,200,583.37
Collis P. Huntington Fund.....	49,900.00	49,986.05
Wood Fosdick Fund.....	988,600.00	1,002,585.92
Anna M. Harkness Fund.....	1,019,900.00	1,023,804.92
Special Endowment Funds:		
J. P. Morgan Fund.....	450,350.00	449,219.53
Jonathan Thorne Memorial Fund.....	30,800.00	25,754.20
Matilda W. Bruce Fund.....	11,200.00	11,552.80
Margaret Olivia Sage Fund.....	11,000.00	9,995.00
Physical Anthropology Fund.....	10,500.00	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 Palæontologic Research Fund....	4,300.00	4,913.63
	<u>\$13,966,550.00</u>	<u>\$13,455,886.32</u>
Uninvested Cash.....	2,574.10	2,574.10
	<u>\$13,969,124.10</u>	<u>\$13,458,460.42</u>

Contributors to the Permanent Endowment, 1884-1928:

Auchincloss, Hugh....	\$10,223.56	Huntington, C. P.....	5,000.00	Sage, Mrs. Russell....	1,471,372.59
Babcock, Samuel D....	5,000.00	Huntington, Mrs. C.P.	50,000.00	Sands, William R.....	10,000.00
Baker, George F.....	250,000.00	Iden, Henry.....	10,000.00	Schermerhorn, Wm. C.	5,000.00
Baugh, Margaret L....	10,000.00	Insee, Helen C.....	5,000.00	Sloane, William.....	50,000.00
Bliss, Mrs. William H.	5,000.00	Iselin, Adrian.....	10,000.00	Stuart, Mrs. Mary....	50,000.00
Bondy, Emil C.....	10,000.00	James, Arthur Curtiss	26,750.00	Thorne, Phebe Anna..	30,000.00
Bowdoin, George S....	5,000.00	James, D. Willis....	5,000.00	Tilford, Chas. E.....	25,070.37
Bridgham, Fanny.....	15,000.00	Jesup, Morris K.....	1,225,000.00	Tod, J. Kennedy.....	10,000.00
Bruce, Miss M. W.....	10,000.00	Jesup, Mrs. Morris K.	5,000,000.00	Trevor, Mrs. Emily...	30,098.90
Combe, Louisa.....	42,172.33	Juilliard, A. D.....	100,000.00	Twombly, Ruth V....	1,000.00
Constable, Fred. A....	2,000.00	Juilliard, Helen C....	50,000.00	Vanderbilt, Cornelius	25,000.00
Constable, James M.	25,000.00	Kitching, Frank W....	10,043.00	Vanderbilt, Wm. H....	50,000.00
Cook, Frances Julia..	20,000.00	Landon, Charles.....	5,000.00	Villard, Henry.....	5,000.00
Davis, Benjamin P....	22,799.25	Lanier, Charles.....	4,500.00	Warburg, Felix M....	19,000.00
Dodge, William E.....	5,000.00	Loeb, Solomon.....	5,000.00	Watson, Emily A.....	10,010.52
Dodge, W. E.....	10,000.00	Mills, D. O.....	125,000.00	Wolf, Emil.....	1,405.50
Douglas, James.....	100,000.00	Mitchell, Albert M.P.	4,953.97	35 Contributors of	
Eno, Amos F.....	248,033.33	Moore, Edw. C., Jr...	5,000.00	\$1,000.00 or less	
Fiske, Mrs. Martha T.	10,000.00	Morgan, J. Pierpont.	325,000.00	previously reported	21,564.38
Fosdick, Wood.....	995,984.88	Morgan, J. P.....	127,187.50		<u>\$13,052,898.55</u>
Gade, Frederika.....	4,956.72	Osborn, Henry F.....	5,000.00	Patronship Fees.....	28,000.00
Goldenberg, Joel.....	1,900.00	Ottendorfer, Oswald.	30,000.00	Fellowship Fees.....	9,000.00
Hard, Anson W.....	5,000.00	Pratt, George D.....	50,000.00	Life Membership Fees	81,100.00
Harkness, Anna M....	1,000,000.00	Pyne, Percy R. (No.1).	45,000.00	Subscriptions to Ralph	
Harkness, Edward S..	100,000.00	Pyne, Percy R.....	2,500.00	Winfred Tower Me-	
Havemeyer, H. O.....	25,000.00	Rhineland, Chas. E..	21,669.25	morial Fund.....	24,032.00
Hill, James N.....	9,702.50	Rockefeller, J. D., Jr.	1,025,000.00		<u>\$13,195,030.55</u>
Hitchcock, Miss S. M.	5,000.00	Rockefeller, William.	10,000.00		

ENDOWMENT AND INVESTMENT ACCOUNT

Receipts, 1928

UNRESTRICTED FUNDS**General Endowment Funds:*****General Endowment Fund:**

Balance.....	\$454.87	
Sale of Securities.....	312,060.57	
Ruth V. Twombly Gift....	1,000.00	
Bequest of Charles E. Rhinelander.....	11,190.92	\$324,706.36

George F. Baker Fund: Balance..... 4.65

†Anna M. Harkness Fund:

Bequest of Anna M. Harkness	\$225,000.00	
Sale of Securities.....	618,837.50	843,837.50

Collis P. Huntington Fund: Balance..... 13.95

John D. Rockefeller, Jr., Fund:

Balance.....	\$98.44	
Sale of Securities.....	146,459.00	146,557.44

The Sage Fund:

Balance.....	\$9.17	
Bequest of Margaret Olivia Sage.....	103,567.50	
Sale of Securities.....	200,465.75	
Amortization Payments...	1,400.00	305,442.42

‡Wood Fosdick Fund:

Balance.....	\$4.45	
Bequest of Wood Fosdick (on account).....	1,554.75	
Sale of Securities.....	369,905.19	
Amortization Payments...	1,200.00	372,664.39

Total General Endowment..... \$1,993,226.71

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.....	\$102.17	
Sale of Securities.....	613,348.55	613,450.72

Osborn Palaeontology Research Fund: Balance 86.37

Physical Anthropology Fund:

Balance.....	\$41.25	
Sale of Securities.....	514.28	555.53

Jonathan Thorne Memorial Fund: Balance.. 77.00

Ralph Winfred Tower Memorial Fund:

Balance.....	\$47.09	
Subscriptions.....		
I. R. Hood.....	25.00	
Margaret Titcomb.....	10.00	35.00
Sale of Securities.....	697.81	779.90

Total Special Endowment..... 615,106.79

Interest on Credit Balances..... 1,528.52

\$2,609,862.02

ENDOWMENT AND INVESTMENT ACCOUNT

Disbursements, 1928

UNRESTRICTED FUNDS

General Endowment Funds:

General Endowment Fund: Purchase of Securities.....	\$323,964.95	
Anna M. Harkness Fund: Purchase of Securities.....	843,579.92	
John D. Rockefeller, Jr., Fund: Purchase of Securities.....	146,500.00	
The Sage Fund: Purchase of Securities.....	304,731.45	
Wood Fosdick Fund: Purchase of Securities.....	372,431.30	
Total General Endowment.....		\$1,991,207.62

RESTRICTED FUNDS

Special Endowment Funds:

Morris K. Jesup Fund: Purchase of Securities	\$613,349.88	
Physical Anthropology Fund: Purchase of Securities.....	500.00	
Ralph Winfred Tower Memorial Fund: Purchase of Securities.....	701.90	
Total Special Endowment.....		614,551.78
Interest on Credit Balances (to General Account).....		1,528.52
Cash on hand, December 31, 1928.....		2,574.10
		<u>\$2,609,862.02</u>

*Stock was received to the amount of \$4,702.50, the Gift of James N. Hill.

†Stock was received to the amount of \$775,000.00 on account of the bequest of Anna M. Harkness.

‡Stock was received to the amount of \$115,701.44, on account of the bequest of Wood Fosdick

CITY MAINTENANCE ACCOUNT***Receipts, 1928****Capital Fund:**

Cash on hand, January 1, 1928.....	\$15,000.00
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Department of Parks, City of New York, 1928:

Salaries, Regular Employees.....	\$384,077.62
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Expenses for Other Than Personal Service:

1. Fuel Supplies.....	\$19,250.00
2. Office Supplies.....	7,931.00
3. Laundry Cleaning and Disinfecting Sup- plies.....	2,695.00
4. Motor Vehicle Sup- plies.....	1,540.00
5. General Plant Sup- plies.....	3,657.50
6. Wearing Apparel....	1,925.00
7. Office Equipment....	770.00
8. General Plant Equip- ment.....	1,155.00
9. General Plant Ma- terials.....	10,972.50
10. General Repairs and Replacements.....	3,080.00
11. Telephone Service...	2,310.00
12. Fixed Charges and Contributions.....	6,237.00
13. Educational and Recreational Sup- plies.....	1,925.00
14. Special Repairs (Building Materials).....	4,848.50
	<u>68,296.50</u>

Total net receipts for the maintenance of all departments	452,374.12
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Interest on Credit Balances.....	364.04
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	<u>\$467,738.16</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 1928, amounting to \$395,169.36, has been met from the Trustees' General Account.

CITY MAINTENANCE ACCOUNT

Disbursements, 1928

Administration and Operation:

Administration.....	\$196,474.07	
General Supplies and Expenses	23,588.35	
Heating and Lighting.....	68,718.22	
Repairs and Installation.....	41,404.01	
Special Repairs.....	19,005.61	\$349,190.26

Financial Administration:

Administration.....	23,004.48
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Scientific and Research:

Geology and Invertebrate Palæ- ontology.....	\$1,823.31	
Mineralogy.....	2,487.91	
Mammalogy.....	4,109.67	
Ornithology.....	7,099.96	
Vertebrate Palæontology.....	4,721.11	
Comparative Anatomy.....	129.51	
Anthropology.....	5,964.00	
Ichthyology.....	2,233.34	
Herpetology and Experimental Biology.....	2,103.20	
Lower Invertebrates.....	4,428.00	
Entomology.....	3,875.00	
Library.....	8,390.05	47,365.06

Printing Books and Publications:

Printing and Publishing.....	5,725.44
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Preparation and Exhibition:

Preparation and Exhibition.....	1,644.33
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Educational—Public School Work:

Public Education.....	25,444.55
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**Total net disbursements for the maintenance of all de-
partments**

\$452,374.12

Interest on Credit Balances (to General Account).....

364.04

Capital Fund:

Cash on hand December 31, 1928.....	15,000.00
	<u>\$467,738.16</u>

GENERAL ACCOUNT

Receipts, 1928

Cash on hand, January 1, 1928.....		\$22,887.45
Income from General Endowment Fund.....	\$89,956.37	
Income from the Sage Fund.....	84,397.67	
Income from George F. Baker Fund.....	13,157.50	
Income from John D. Rockefeller, Jr. Fund.....	63,127.63	
Income from Collis P. Huntington Fund.....	2,495.00	
Income from Wood Fosdick Fund.....	52,877.03	
Income from Charles M. Jesup Trust Fund.....	3,814.78	
Income from Anna M. Harkness Fund.....	23,580.03	
Interest on Credit Balances.....	5,206.55	
Patrons, Fellows and Life Members.....	12,100.00	
Sustaining Members.....	5,175.00	
Annual Members.....	46,930.00	
Associate Members.....	11,646.00	
Sale of Publications.....	7,421.77	
Subscriptions to Natural History.....	3,079.20	
Sales and Exchanges.....	1,010.91	
Contributions of Trustees for General Purposes:		
George F. Baker.....	\$5,000.00	
George F. Baker, Jr.....	20,000.00	
George T. Bowdoin.....	1,000.00	
Frederick F. Brewster.....	5,000.00	
F. Trubee Davison.....	250.00	
Cleveland Earl Dodge.....	2,000.00	
Chauncey J. Hamlin.....	500.00	
Clarence L. Hay.....	1,000.00	
Oliver G. Jennings.....	5,000.00	
Boswell Miller.....	500.00	
Ogden Mills.....	25,000.00	
J. P. Morgan.....	34,100.00	
Junius S. Morgan, Jr.....	4,000.00	
Henry Fairfield Osborn.....	1,000.00	
George D. Pratt.....	5,000.00	
Percy R. Pyne.....	5,000.00	
S. Brinckerhoff Thorne.....	2,000.00	116,350.00
Contributions for General Purposes:*		1,496.00
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)		4,808.00
Subscriptions for Group Preparation (transferred from Special Funds)		12,438.00
Subscriptions for Fish Group Preparation (transferred from Special Funds)	50.00	581,117.44
Total net receipts for the development of all departments		\$604,004.89
Contributions of Trustees for General Purposes for 1929:		
Childs Frick.....		3,000.00
		<u>\$607,004.89</u>

*See listing on page 98 of this Report.

Report of the Treasurer

GENERAL ACCOUNT

Disbursements, 1928

Administration and Operation:		
Administration.....	\$51,691.60	
General Supplies and Expenses	45,645.41	
Heating and Lighting.....	47,165.70	
Repairs and Installation.....	50,928.17	
Special Repairs.....	8,908.06	
Trustees' Special Repairs.....	36,150.62	
Architects' Services.....	4,381.42	
Museum Restaurant.....	22,841.17	
Pension Fund.....	26,567.20	
Group Life Insurance.....	6,556.37	
Interest on Bank Loans.....	6,546.15	\$307,381.87
Financial Administration:		
Administration.....	\$41,028.39	
General Supplies and Expenses.	11,597.71	52,626.10
Scientific and Research:		
Geology and Invertebrate Palaeontology.....	\$2,977.32	
Mineralogy.....	1,417.03	
Mammalogy.....	6,675.24	
Ornithology.....	8,547.31	
Central Asiatic Exploration and Research.....	5,166.66	
Vertebrate Palaeontology.....	4,737.30	
Comparative Anatomy.....	2,125.81	
Anthropology.....	10,413.34	
Ichthyology.....	6,357.55	
Herpetology and Experimental Biology.....	5,402.93	
Lower Invertebrates.....	4,086.33	
Entomology.....	4,375.01	
Library.....	9,005.86	
Astronomy.....	3,437.06	74,724.75
Printing, Books and Publications:		
Printing and Publishing.....		66,626.92
Preparation and Exhibition:		
Preparation and Exhibition.....		41,568.61
Educational—Public School Work:		
Public Education.....		56,876.44
Total net disbursements for the development of all departments.....		\$599,804.69
Balance December 31, 1928.....		*7,200.20
		\$607,004.89
*Contributions of Trustees for General Purposes for 1929 (paid in 1928).....		
		\$3,000.00
Orders and Contracts outstanding of 1928 Account.....		2,550.00
Cash available for 1929.....		1,650.20
		\$7,200.20

MORRIS K. JESUP FUND ACCOUNT***Receipts, 1928****Trustees' Restricted Funds:**

Cash on hand January 1, 1928.....		\$11,053.35
Income from Morris K. Jesup Fund.....	\$274,419.94	
Sale of Publications.....	2,854.98	
Sales and Exchanges.....	1,139.24	278,414.16
Interest on Credit Balances.....		529.25
Total net receipts for the development of all departments		\$289,996.76

Disbursements, 1928**Scientific and Research:**

Geology and Invertebrate		
Palæontology.....	\$13,246.31	
Mineralogy.....	3,832.58	
Mammalogy.....	14,475.28	
Central Asiatic Exploration and		
Research.....	11,824.43	
Ornithology.....	13,473.87	
Vertebrate Palæontology.....	11,960.59	
President Osborn's Science Fund	8,066.08	
Comparative Anatomy.....	12,079.29	
Anthropology.....	22,686.20	
Ichthyology.....	8,188.87	
Herpetology and Experimental		
Biology.....	11,702.59	
Lower Invertebrates.....	5,469.91	
Entomology.....	10,989.58	
Library.....	14,020.53	\$162,016.11
Printing, Books and Publications:		
Printing and Publishing.....		29,412.78
Preparation and Exhibition:		
Preparation and Exhibition....	\$62,162.98	
Vertebrate Palæontology.....	22,648.63	84,811.61

Total net disbursements for the development of all departments		\$276,240.50
Interest on Credit Balances (to General Account).....		529.25
Cash on hand December 31, 1928.....		†13,227.01
		\$289,996.76

*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 1928 Account.....	\$10,690.00
Cash available for 1929.....	2,537.01
	\$13,227.01

SPECIAL FUNDS ACCOUNT

Receipts and Disbursements, 1928

GEOLOGY AND INVERTEBRATE

PALÆONTOLOGY

	Receipts	Disbursements	Balance Dec. 31, 1928
Crockerland Expedition Fund:			
Balance.....	\$625.00		
University of Illinois.....	875.00		
	\$1,500.00	\$1,500.00	

MINERALOGY

Matilda W. Bruce Fund:

Balance.....	40.03		
Interest.....	616.00		
	\$656.03	\$223.30	\$432.73

J. P. Morgan Fund—Mineralogy:

Transferred from Reserve.	4,100.00		
	\$4,100.00	\$4,100.00	

MAMMALOGY

Abyssinian Expedition Fund:

The funds for the expedition were subscribed by:

Gertrude E. DuPont San-
ford.....

Mrs. Grace Patterson....

Sidney Legendre.....

Morris Legendre..... 7,000.00

\$7,000.00 **\$5,963.88** **\$1,036.12**

George S. Bowdoin Whale Model Fund:

Balance.....	750.00		
	\$750.00		\$750.00

Lee Garnett Day Expedition Fund:

Lee Granett Day	505.00		
	\$505.00	\$505.00	

Morden Russian Field Fund:

W. J. Morden.....	4,795.45		
	\$4,795.45	\$4,795.45	

North American Mammal Fund:

Mark W. Reeves.....	100.00		
	\$100.00	\$100.00	

Siberian Arctic Expedition Fund:

Charles H. Stoll.....	6,145.91		
Merle L. Stoll.....	1,000.00		
Walter F. Stillger.....	1,000.00		
Harold McCracken.....	1,000.00		
Frank B. Hall.....	100.00		
	\$9,245.91	\$9,245.91	

Tyler-Tate Expedition Fund:

George F. Tyler.....	7,918.47		
	\$7,918.47	\$7,521.81	\$396.66

Carried Forward.....	\$36,570.86	\$33,955.35	\$2,615.51
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SPECIAL FUNDS ACCOUNT (Continued)

	Receipts	Disbursements	Balance Dec. 31, 1928
Brought Forward.....	\$36,570.86	\$33,955.35	\$2,615.51
ASIATIC EXPLORATION AND RESEARCH			
Central Asiatic Expedition Fund:			
Balance 1927.....	26,001.05		
*Subscriptions.....	10.00	26,011.05	
Balance 1928.....	4,420.00		
*Subscriptions.....	39,723.00	33,429.06	10,713.94
Balance 1929.....	210.00		
*Subscriptions.....	4,655.00		4,865.00
Sale of Publications 1928..	1,943.69		1,943.69
	\$76,962.74	\$59,440.11	\$17,522.63
ORNITHOLOGY			
Amazon Field Fund:			
Balance.....	202.01		
Mrs. Walter W. Naumburg	2,012.00		
	\$2,214.01	\$2,117.68	\$96.33
Louis Agassiz Fuertes Fund:			
Sarah Sage Holter.....	100.00		
Isabel W. Sage.....	250.00		
L. C. Sanford.....	400.00		
F. C. Walcott.....	500.00		
	\$1,250.00	\$1,250.00	
Gulf of Guinea Expedition Fund:			
Balance.....	1,500.00		
S. Brinckerhoff Thorne....	1,500.00		
	\$3,000.00	\$2,912.02	\$87.98
Hudson Bay Bird Fund:			
Balance.....	103.73		
	\$103.73		\$103.73
Madagascar Expedition Fund:			
John F. Archbold.....	10,000.00		
	\$10,000.00	\$432.65	\$9,567.35
New Guinea and Adjacent Islands Fund:			
Anonymous, through a friend.....	5,000.00		
	\$5,000.00	\$3,212.85	\$1,787.15
Panama Bird Fund:			
J. Sanford Barnes.....	200.00		
	\$200.00	\$200.00	
Ruwenzori-Kivu Expedition Fund:			
L. C. Sanford.....	100.00		
Sales.....	172.00		
	\$272.00	\$41.83	\$230.17
Carried Forward.....	\$135,573.34	\$103,562.49	\$32,010.85

*See listing on pages 98 to 100 of this Report.

SPECIAL FUNDS ACCOUNT (Continued)

	Receipts	Disbursements	Balance Dec. 31, 1928
Brought Forward.....	\$135,573.34	\$103,562.49	\$32,010.85
Margaret Olivia Sage Fund:			
Balance.....	1,110.09		
Interest.....	427.88		
	\$1,537.97		\$1,537.97
Mrs. Oscar Straus African Expedition Fund:			
Mrs. Oscar S. Straus.....	5,852.00		
	\$5,852.00	\$3,367.00	\$2,485.00
Whitney South Sea Expedition Fund:			
Balance.....	6,498.90		
H. P. Whitney.....	20,000.00		
	\$26,498.90	\$26,493.26	\$5.64

VERTEBRATE PALÆONTOLOGY

Edward D. Cope Biography Fund:			
Balance.....	469.27		
Julia Cope Collins.....	450.00		
Frances G. Foulke.....	50.00		
Elizabeth W. Garrett.....	100.00		
	\$1,069.27	\$708.25	\$361.02
J. P. Morgan Fund—Vertebrate Palæontology:			
Transferred from Reserve.	18,600.00		
	\$18,600.00	\$18,600.00	
Osborn Palæontologic Research Fund:			
Balance.....	31.50		
Interest.....	301.00		
	\$332.50	\$125.00	\$207.50
American Pliocene Fund—Vertebrate Palæontology:			
Balance.....	9,489.52		
Anonymous.....	13,500.00		
	\$22,989.52	\$16,271.57	\$6,717.95
Siwalik Preparation Fund:			
Balance.....	1,550.95		
	\$1,550.95	\$1,411.65	\$139.30
Vertebrate Palæontology Fund:			
Balance.....	5,000.00		
	\$5,000.00	\$4,206.56	\$793.44
Western Field Funds:			
Balance.....	134.88		
Mrs. Adelaide H. C. Frick.	5,000.00		
	\$5,134.88	\$134.88	\$5,000.00
Carried Forward.....	\$224,139.33	\$174,880.66	\$49,258.67

SPECIAL FUNDS ACCOUNT (Continued)

	Receipts	Disbursements	Balance Dec. 31, 1928
Brought Forward....	\$224,139.33	\$174,880.66	\$49,258.67
ANTHROPOLOGY			
Anthropology Fund:			
George D. Pratt.....	1,000.00		
	\$1,000.00	\$1,000.00	
Cañon del Muerto Fund:			
Balance.....	1,384.81		
	\$1,384.81	\$9.00	\$1,375.81
International Congress of Americanists:			
*Subscriptions.....	2,000.00		
	\$2,000.00	\$1,143.98	\$856.02
Middle American Research Fund:			
Balance.....	1,000.00		
Clarence L. Hay.....	2,000.00		
	\$3,000.00	\$2,002.50	\$997.50
Panama Archæological Fund:			
Clarence L. Hay.....	35.00		
	\$35.00	\$35.00	
Physical Anthropology Fund:			
Balance.....	373.94		
Interest.....	525.63		
	\$899.57	\$376.38	\$523.19
ICHTHYOLOGY			
Cleveland H. Dodge Ichthyology Fund:			
Balance.....	73.17		
	\$73.17		\$73.17
Fish Bibliography Fund:			
Balance.....	406.40		
Bashford Dean.....	1,123.08		
	\$1,529.48	\$1,061.54	\$467.94
Fish Exhibit Fund:			
Van Campen Heilner.....	500.00		
	\$500.00	\$135.69	\$364.31
HERPETOLOGY AND EXPERIMENTAL BIOLOGY			
Herpetological Research Fund:			
Balance.....	3,815.49		
Gladwyn K. Noble.....	100.00		
	\$3,915.49	\$3,915.49	
Special Biological Research Fund No. 1:			
Childs Frick.....	500.00		
Mrs. Henry White.....	1,000.00		
	\$1,500.00	\$578.32	\$921.68
Carried Forward....	\$239,976.85	\$185,138.56	\$54,838.29

*See listing on page 101 of this Report.

SPECIAL FUNDS ACCOUNT (Continued)

	Receipts	Disbursements	Balance Dec. 31, 1928
Brought Forward . . .	\$239,976.85	\$185,138.56	\$54,838.29
Special Biological Research Fund No. 2:			
George T. Bowdoin.....	1,000.00		
William Douglas Burden..	1,000.00		
Junius S. Morgan, Jr. . . .	1,000.00		
Percy R. Pyne.....	1,000.00		
A. Hamilton Rice.....	1,000.00		
Felix M. Warburg.....	500.00		
	\$5,500.00	\$1,809.45	\$3,690.55
ENTOMOLOGY			
Entomological Fund:			
Balance.....	933.72		
B. Preston Clark.....	50.00		
Frank J. Johnson.....	500.00		
George D. Pratt.....	405.00		
Herbert F. Schwarz.....	100.00		
	\$1,988.72	\$672.17	\$1,316.55
LIBRARY			
Anson W. Hard Library Fund:			
Interest.....	250.00		
	\$250.00		\$250.00
Ralph Winfred Tower Memorial Fund:			
Albert H. Crosby.....	100.00		
Interest.....	1,164.84		
	\$1,264.84	\$1,264.84	
PRINTING AND PUBLISHING			
Anthropological Handbook Fund:			
Balance.....	5,000.00		
Sales.....	143.39		
	\$5,143.39	\$3,980.59	\$1,162.80
Brewster Sanford Publication Fund:			
Balance.....	281.09		
	\$281.09	\$11.40	\$269.69
Dryopithecus Publication Fund:			
Balance.....	120.21		
	\$120.21	\$13.06	\$107.15
Natural History Publication Fund:			
Daniel E. Pomeroy.....	379.44		
Irving K. Taylor.....	100.00		
	\$479.44		\$479.44
Yakut Publication Fund:			
Balance.....	2,000.00		
Felix M. Warburg.....	2,000.00		
	\$4,000.00	\$2,000.00	\$2,000.00
Carried Forward.....	\$259,004.54	\$194,890.07	\$64,114.47

SPECIAL FUNDS ACCOUNT (Continued)

	Receipts	Disbursements	Balance Dec. 31, 1928
Brought Forward . . .	\$259,004.54	\$194,890.07	\$64,114.47
PUBLIC EDUCATION			
Astronomic Fund:			
Balance.....	482.64		
Mrs. Cyril Francklyn.....	15.00		
Charles J. Liebman.....	233.33		
George D. Pratt.....	200.00		
	\$930.97	\$233.33	\$697.64
Bear Mountain Trailside Museum Fund:			
F. Kinsbury Curtis.....	25.00		
Felix M. Warburg.....	1,000.00		
	\$1,025.00	\$1,025.00	
Education Fund:			
Balance.....	1,000.00		
Childs Frick.....	200.00		
	\$1,200.00	\$1,000.00	\$200.00
Lantern Slide Fund:			
*Subscriptions.....	305.00		
	\$305.00		\$305.00
Nature Study Fund No. 1:			
Balance.....	48.56		
Helen M. Fox.....	50.00		
	\$98.56	\$75.25	\$23.31
Nature Study Fund No. 2:			
*Subscriptions.....	120.00		
	\$120.00		\$120.00
Jonathan Thorne Memorial Fund:			
Interest.....	1,232.00		
	\$1,232.00	\$912.00	\$320.00
PREPARATION AND EXHIBITION			
African Hall Group Fund:			
Balance.....	79,392.68		
	\$79,392.68	\$27,912.48	\$51,480.20
Carlisle Clark African Expedition Fund:			
Mr. and Mrs. G. Lister			
Carlisle, Jr.....	25,000.00		
Transferred from African			
Hall Group Fund.....	2,000.00		
	\$27,000.00	\$27,000.00	
Carlisle Clark African Expedition Preparation Fund:			
Mr. and Mrs. G. Lister			
Carlisle, Jr.....	25,000.00		
Interest.....	448.94		
	\$25,448.94	\$3,367.84	\$22,081.10
Carried Forward . . .	\$395,757.69	\$256,415.97	\$139,341.72

*See listing on page 101 of this Report.

SPECIAL FUNDS ACCOUNT (Continued)

	Receipts	Disbursements	Balance Dec. 31, 1928
Brought Forward.....	\$395,757.69	\$256,415.97	\$139,341.72
Ocean Life Mural Fund:			
Balance.....	3,500.00		
George T. Bowdoin.....	1,500.00		
Junius S. Morgan, Jr.....	5,000.00		
	\$10,000.00	\$8,726.17	\$1,273.83
American Association for the Advancement of Science:			
*Subscriptions.....	2,200.00		
	\$2,200.00	\$235.00	\$1,965.00
Total net receipts for the development of specific departments	\$407,957.69		
Total net disbursements for the development of specific departments.....		\$265,377.14	
Balances, December 31, 1928.....			\$142,580.55
J. P. Morgan Reserve:			
Balance.....	1,529.50		
Interest.....	22,629.50		
	\$24,159.00	\$22,700.00	\$1,459.00
Emergency Exhibition and Education Fund Reserve No. 1:			
*Subscriptions 1927.....	100.00	†100.00	
Balance 1928.....	1,100.00		
*Subscriptions.....	3,425.00	†4,525.00	
Balance 1929.....	1,100.00		
*Subscriptions.....	100.00		1,200.00
Balance 1930.....	1,100.00		
*Subscriptions.....	100.00		1,200.00
	\$7,025.00	†\$4,625.00	\$2,400.00
Emergency Exhibition and Education Fund Reserve No. 2:			
*General Purposes, Subscriptions.....	63.00		
*For Publications, ".....	105.00		
*For Education, ".....	10.00		
*Hall of Ocean Life, ".....	5.00		
	\$183.00	\$183.00	
Group Preparation Fund Reserve:			
*General Preparation 1928, Subscriptions..	6,533.00	6,533.00	
*General Preparation 1929, " ..	625.00		625.00
*Birds of the Pampas Group " ..	3,000.00		3,000.00
*Coral Reef Group, " ..	645.00	645.00	
*Deep Sea Group, " ..	20.00	20.00	
Forward.....	\$10,823.00	\$7,198.00	\$3,625.00
Carried Forward.....	\$439,324.69	\$292,885.14	\$146,439.55

*See listing on pages 102-104 of this Report.

†Transferred to General Account.

*Report of the Treasurer***SPECIAL FUNDS ACCOUNT (Continued)**

	Receipts	Disbursements	Balance Dec. 31, 1928
Brought Forward.....	\$439,324.69	\$292,885.14	\$146,439.55
Group Preparation Fund Reserve, Forward....	10,823.00	7,198.00	3,625.00
*Kidong Valley Group, Subscriptions.....	10.00		10.00
*Penguin Group, ".....	1,700.00	1,700.00	
*Rotifer Group, ".....	500.00	500.00	
*Sail Fish Group, ".....	2,000.00	2,000.00	
*Sea Lion Group, ".....	25.00	25.00	
*Shark Group, ".....	1,015.00	1,015.00	
	\$16,073.00	\$12,438.00	\$3,635.00
*Fish Group Fund Reserve.....	50.00		
	\$50.00	\$50.00	
Childs Frick Reserve:			
Childs Frick.....	1,600.00		
	\$1,600.00		\$1,600.00
Angelo Heilprin Exploring Fund Reserve:			
Balance.....	1,550.00		
	\$1,550.00		\$1,550.00
Interest on Credit Balances.....	\$2,706.61	†\$2,706.61	
Totals.....	<u>\$461,304.30</u>	<u>\$308,079.75</u>	<u>\$153,224.55</u>

*See listing on page 104 of this Report.

†Transferred to General Account.

**THE AMERICAN MUSEUM OF NATURAL HISTORY
CORPORATE STOCK ACCOUNT**

1928

Receipts:

Department of Parks, City of New York:

C. D. P. 3 G.....	\$29,774.50
C. D. P. 3 Q.....	9,207.25
C. D. P. 3 T.....	4,950.00
N. D. P. 3 R.....	8,382.00
N. D. P. 3 Z.....	3,518.50
N. D. P. 3-1.....	2,649.00
N. D. P. 3-2.....	1,655.50
N. D. P. 3-3.....	1,243.00
N. D. P. 3-4.....	<u>17,636.75</u>

\$79,016.50

Interest on Credit Balances..... 10.19

\$79,026.69

Disbursements:

Payroll of Mechanics, etc.....	\$79,016.50
Interest on Credit Balances (to General Account).....	10.19
	<u>\$79,026.69</u>

TRUSTEES' BUILDING FUND ACCOUNT

1928

Receipts:

Cash on hand January 1, 1928.....	\$5,746.65
Architects' Fees, Refund.....	216.52
Interest on Credit Balances.....	98.33
	<u>\$6,061.50</u>

Disbursements:

Changes in Illumination of Exhibition Halls.....	\$1,998.60
Engineers' Fees.....	750.00
Sales Booth.....	300.00
Southeast Wing and Court Building Changes.....	<u>3,012.90</u>
	<u>\$6,061.50</u>

INCIDENTAL ACCOUNT

1928

Receipts:

Cash on hand January 1, 1928.....		\$951.73
Received from Individuals and Societies.....		9,538.84
Group Life Insurance:		
Employees' Premium Payments.....	\$4,276.91	
Dividends.....	935.00	
Loans.....	3,288.58	8,500.49
Interest on Credit Balances.....		67.94
		<u>\$19,059.00</u>

Disbursements:

Disbursements for Individuals and Societies.....		\$9,921.93
Group Life Insurance:		
Premiums.....	\$7,468.04	
Loan Instalments.....	1,032.45	8,500.49
Interest on Credit Balances (to General Account).....		67.94
Cash on hand December 31, 1928.....		568.64
		<u>\$19,059.00</u>

All the foregoing accounts have been

Examined and	{	WILLIAM K. VANDERBILT	}	<i>Auditing Committee</i>
Approved		FREDERICK TRUBEE DAVISON		
		OLIVER G. JENNINGS		

E. & O. E.

NEW YORK, *December 31, 1928.*JAMES H. PERKINS, *Treasurer.*

PENSION FUND ACCOUNT

Receipts, 1928

Cash on hand, January 1, 1928.....		\$18,968.42
Contributions of Subscribing Employees:		
Deductions of 3% from Payrolls of		
City Maintenance Account...	\$5,002.94	
General Account.....	14,541.92	
Morris K. Jesup Fund		
Account.....	4,612.94	
Special Funds Account.....	609.58	
Corporate Stock Account....	1,168.06	
	<hr/>	
	\$25,935.44	
Personal Payments of Subscribing		
Employees.....	631.76	
	<hr/>	
		\$26,567.20
Contributions of Board of Trustees:		
To Equal Contributions of Sub-		
scribing Employees.....		26,567.20
Income from Investment Fund.....	20,776.77	
Income from Endowment Fund.....	50.34	
	<hr/>	
		20,827.11
Interest on Credit Balance.....		218.26
		<hr/>
		74,179.77
Bursar's Account.....		1,000.00
		<hr/>
		<u>\$94,148.19</u>

Examined and { A. PERRY OSBORN }
 Approved { GEORGE T. BOWDOIN } *Auditing Committee*

Report of the Treasurer
PENSION FUND ACCOUNT

Disbursements, 1928

Return of Contributions.....	\$1,564.32	
Interest on Contributions Returned.....	55.37	
	<hr/>	\$1,619.69
Service Pensions "A"	9,352.08	
Service Pensions "B"	1,692.00	
Service Pensions "C"	958.20	
Pensions in Event of Illness, Dismissal, Etc.....	1,073.78	
	<hr/>	13,076.06
Death Gratuities Paid Under Section 13..	8,472.69	
Death Gratuities Paid Under Section 18..	2,477.05	
	<hr/>	10,949.74
Expenses.....	70.00	
	<hr/>	\$25,715.49
Purchase of Securities:		
Investment Fund.....		54,464.25
Loan Account.....		1,000.00
Cash on hand, December 31, 1928:		
Deposited with the United States Trust Com- pany of New York.....	\$11,968.45	
Deposited with the Colonial Bank (Bursar's Account).....	1,000.00	
	<hr/>	12 968.45
		<hr/>
		<u>\$94,148.19</u>

E. and O. E.

New York, December 31, 1928.

PENSION FUND—SPECIAL FUNDS ACCOUNT

Receipts, 1928

Welfare Fund:

Balance, January 1, 1928.....		\$1,193.53
Contributions.....	\$40.00	
Transferred from General Account (Allowance from Trustees).....	77.06	
		<hr/> 117.06
Interest on Credit Balances.....		26.43

\$1,337.02

Examined and { A. PERRY OSBORN }
Approved { GEORGE T. BOWDOIN } *Auditing Committee*

PENSION FUND—SPECIAL FUNDS ACCOUNT

Disbursements, 1928

Welfare Fund.....	\$127.06
Cash on Hand, December 31, 1928:	
Deposited with United States Trust Company of New York..	1,209.96
	<hr/> \$1,337.02

E. and O. E.

New, York, *December 31, 1928.*

JAMES H. PERKINS,
Treasurer.

V. MEMBERSHIP

PERCY R. PYNE, *Secretary*

During 1928, our membership climbed from 10,021 to 10,893, a gratifying increase of 872. Residing as they do in every state in the Union and in sixty-one foreign countries, our members furnish invaluable contacts for the Museum throughout the world. We look upon each member as a sort of emissary of the institution maintaining an outpost in the interests of our educational program. In this connection the cooperation of our members during 1928 has been most helpful.

In November, the Director invited members of the Museum to make special contributions to new exhibition projects which our limited budget did not permit us to undertake. The response was splendid, one hundred members contributing a total of \$6,533.00 for new work and the completion of such new exhibits as the Penguin Group, the Walrus Group and the Birds of the Pampas Group. The complete list of these contributors is printed in another section of this report. We here desire to make grateful acknowledgment of this generous assistance from our members.

By classes our membership is made up as follows:

Founders.....	0	Fellows.....	87
Endowment Members.....	5	Honorary Life Members.....	58
Benefactors.....	15	Life Members.....	1154
Associate Founders.....	18	Corresponding Members.....	25
Associate Benefactors.....	26	Sustaining Members.....	221
Patrons.....	176	Annual Members.....	4938
Honorary Fellows.....	18	Associate Members (Non-resident).....	4152

Total Membership, December 31, 1928..... 10,893

NEW MEMBERS

During 1928 the following new members were elected:

ENDOWMENT CLASS

MRS. STEPHEN V. HARKNESS*

*Deceased

ASSOCIATE FOUNDERS

MRS. HENRY C. FRICK

EDWARD S. HARKNESS

W. L. HILDBURGH

ASSOCIATE BENEFACTOR

FRANCES JULIA COOK*

PATRONS

MISS SHIRLEY FARR

S. A. FATMAN*

DR. ZANE GREY

WM. HALLS, JR.

WILLIAM HALE HARKNESS

JAMES N. HILL

WALTER W. HOLMES

T. W. LAMONT

HENRY M. SAGE

MRS. FREDERIC W. STEVENS

DR. WALTER F. STILLGER

CHARLES H. STOLL

MRS. CHARLES H. STOLL

S. B. THORNE

HONORARY FELLOW

WILLIAM J. MORDEN

FELLOWS

OTTO L. DOMMERICH

WALTER GURNEE DYER

LINCOLN ELLSWORTH

GEO. BIRD GRINNELL

MARY E. HARRINGTON*

ANTON G. HODENPYL

HENRY MAYER*

DR. LEWIS R. MORRIS

ANDREW G. C. SAGE

W. C. SPRUANCE

WILLIAM BOYCE THOMPSON

J. NORMAN DE R. WHITEHOUSE

HONORARY LIFE

ROLLO HOWARD BECK

STEPHEN KLASSEN

LIFE MEMBERS

MRS. LEONARD AHL

S. MORGAN BARBER

DAVID TOD BULKLEY

ARTHUR W. BUTLER, JR.

JOHN C. CATTUS

STEPHEN C. CLARK

MRS. WILLIAM ANDREWS CLARK

NEWCOMB CLEVELAND

FRANK L. CONNABLE

GERARD H. COSTER

A. J. O. CULBERTSON

JAMES F. CURTIS

RAYMOND M. CURTIS

HARRY P. DAVISON

SHERMAN DAY

RALPH ELLIS, JR.

DR. ZANE GREY

CAPT. DAVID C. HANRAHAN

MRS. DAVID C. HANRAHAN

CLIFFORD HEMPHILL

CAPT. HENRY B. HEYLMAN

ROLAND M. HOOKER

FRANKLIN J. HORNE

C. ALAN HUDSON

*Deceased



JOSEPH H. CHOATE
A Founder and Trustee
1869-1917

FRANK J. HUTCHINSON

H. DAVIS IVES

DR. MORTON C. KAHN

MILDRED KAMSLER

RUFUS KING

MRS. WM. ADAMS KISSAM

MRS. BONNIE WALLACE LE CLÉAR

JESSE METCALF

BYRON S. MILLER

JAMES B. MUNN

MRS. ACOSTA NICHOLS

E. HOPE NORTON

ARTHUR EMERTON ORVIS

MRS. EDGAR PALMER

MRS. JOSEPH PARSONS

KATHERINE POMEROY

VERY REV. HOWARD C. ROBBINS

MRS. JOHN A. ROEBLING

MRS. JOHN BARRY RYAN, JR.

DEAN SAGE

MISS SALLIE W. SANFORD

SHELDON M. SMITH

STANLEY A. SWEET

MISS MARY SEFTON THOMAS

SUSTAINING MEMBERS

MRS. LAWRENCE P. BAYNE

EDWIN H. BROWN

ROBERT CLUETT, JR.

MRS. HENRY SLOANE COFFIN

MRS. R. R. COLGATE

MRS. ANDREW F. DERR

WM. C. DICKERMAN

MRS. CHARLES D. DICKEY, JR.

MRS. DAVID DOWS

CHAUNCEY B. GARVER

WILLIAM M. KERN

R. C. KERR

MRS. C. H. MATTHIESSEN

DR. ARTHUR B. MCGRAW

E. W. MUDGE

KENNETH O'BRIEN

ALFRED L. ROSE

SAMUEL M. SIEGMAN

HAROLD STANLEY

PAUL A. STRAUB

MRS. H. GRANT STRAUS

CLARENCE F. WALDMAN

HANS WICKENHAUSER

DECEASED MEMBERS

ASSOCIATE BENEFACTORS

DR. BASHFORD DEAN

JAMES B. FORD

HONORARY FELLOWS

ROALD AMUNDSEN

DR. BASHFORD DEAN

FELLOW

WILLIAM DU PONT

PATRONS

MRS. FREDERICK A. CONSTABLE

DR. BASHFORD DEAN

JAMES B. FORD

COL. ARCHIBALD ROGERS

FREDERIC W. STEVENS

RODMAN WANAMAKER

LIFE MEMBERS

JOHN E. BERWIND	H. R. KUNHARDT
FULLER E. CALLAWAY	DR. F. LANGE
CHAS. M. CAULDWELL, M.D.	J. MALFEYT
RUSSELL J. COLES	JOHN MARSHALL
ALVAH DAVISON	MRS. HENRY K. MCHARG
CHARLES A. DEWEY, M.D.	NEWBOLD MORRIS
WILLIAM G. DEWITT	JAMES W. PACKARD
WILLIAM DU PONT	MRS. CARSON C. PECK
OTTO M. EIDLITZ	GEORGE F. PORTER
JAMES B. FORD	CHANDLER ROBBINS
MRS. FRANK PIERCE FRAZIER	COL. ARCHIBALD ROGERS
HARRY W. GODDARD	THOMAS F. RYAN
MISS E. S. HAINES	BENJAMIN STRONG
WM. E. HARMON	FREDERICK TAYLOR
JOHN S. HOLBROOK	WILLIAM H. TAYLOR
R. L. IRELAND	MRS. MARY A. TUTTLE
AUGUSTUS HOWARD IVINS	WILLIAM WHITMAN

SUSTAINING MEMBERS

GUSTAV N. BALLIN	CONRAD HUBERT
LOUIS BRY	MRS. JOHN W. MACKAY
MRS. H. B. DURYEA	WALTER J. OTIS, M.D.
	C. H. ZEHNDER

Respectfully submitted,

PERCY R. PYNE,
Secretary.

LIST OF MEMBERS

December 31, 1928

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*

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 Benedict, Miss Clara J.
 Benedict, Elliot S.
 Benedict, H. H.
 Benedict, Lemuel C.
 Benjamin, Miss A. P.
 Benjamin, E.
 Benjamin, Mrs. Joseph J.
 Benjamin, Mrs. W. W.
 Benkard, J. Philip
 Bennett, F. H.
 Bennett, John Hartwell
 Bennett, Lawrence
 Benson, Samuel
 Bent, Arthur Cleveland

Bentley, Bertha M.
 Benziger, Bruno
 Berdan, Temple T.
 Beresford, Mrs. Percival
 Berg, Henry W., M.D.
 Berge, Miss Marie Therese
 Berger, Mrs. Charles F.
 Berggren, E. R. T.
 Beringer, A. F.
 Berliss, Arthur D.
 Bernadotte Countess Folke
 Bernard, Wm. M.
 Bernhard, Adolph
 Bernhard, Mrs. Morris
 Bernheim, Dr. Alice R.
 Bernheim, Geo. B.
 Bernheim, Mrs. Isaac J.
 Bernheimer, M. A.
 Bernstein, David
 Bernstein, Milton L.
 Bernstorff, Mrs. Hans
 Berolzheimer, A. C.
 Berolzheimer, Philip
 Bertron, S. R.
 Berwanger, Albert B.
 Berwind, Edward J.
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 Bick, Edgar M., M.D.
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 Biddle, William C.
 Bieber, Dr. Joseph
 Bier, Mrs. Sylvan
 Biginelli, Peter
 Biglow, Lucius H.
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 Bijur, Nathan I.
 Bijur, Samuel H.
 Bilhuber, Paul H.
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 Bill, Raymond
 Billings, C. K. G.
 Billings, Charles M.
 Billington, Cecil
 Bing, Alexander M.
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 Bingham, C. W.
 Binswanger, Max
 Birch, Stephen

Birge, Chas. E.
 Bishop, William F.
 Bispham, Mrs. George Tucker
 Bissinger, George H.
 Black, George P.
 Black, Homer S.
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 Blackman, Robert D.
 Blagden, Dexter
 Blagden, Mrs. F. M.
 Blagden, George
 Blagden, Wendell P.
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 Blair, J. P.
 Blair, James A., Jr.
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 Blake, Dr. Joseph A.
 Blake, L. K.
 Blakeley, G. Bogart
 Blakeley, George H.
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 Bliss, Maj.-Gen. Tasker H.
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 Bloch, Adolph
 Bloch, Henry
 Blodgett, Delos A., 2d
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 Blood, Samuel Shipley
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 Bloomingdale, Irving I.
 Bloomingdale, Lewis M.
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 Blossom, Francis
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 Blum, Dr. Theodor
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 Boettger, Theodore
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 Borden, Howard S.
 Borden, L. M.
 Borg, Sidney C.
 Borgia, D.
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 Bowers, Spotswood D.
 Bowers, Thomas W.
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 Bowmall, L. W.
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 Bowman, John McE.
 Bowman, W. P.

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 Brill, Henry S.
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 Brookfield, Henry Morgan
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 Brooks, Wm. G.
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 Bryant, Chas. E.
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 Buch, Miss Emily
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 Buckingham, John
 Buckle, Lewis M.
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 Buckner, Thos. A.
 Buckner, Walker
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 Bulkley, Joseph E.
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 Burgi, Oscar
 Burhorn, Edwin
 Burkhard, Thomas
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 Burlingham, Hiram
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 Burnham, Gordon W.
 Burnham, John B.
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 Burr, Wm. H.
 Burr, Winthrop
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 Bushnell, Douglas S.
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 Butler, Maxwell Evarts
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 Byrne, James
 Byrne, Mrs. James

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 Cæsar, Harry I.
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 Cahn, Mrs. S.
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 Caldwell, Prof. Otis W.
 Caldwell, R. J.
 Caldwell, Dr. W. E.
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 Calkins, William H.
 Callan, William
 Callaway, Merrel P.

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 Cammann, H. H.
 Cammann, Henry L.
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 Carpenter, Thomas R.
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 Carr, James A.
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 Carter, R. Franklin, M.D.
 Carty, John J.
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 Case, J. Herbert
 Case, Theodore W.
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 Cattus, John V. A.
 Cauty, Frank H.
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 Chandler, Percy M.
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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. John Jay
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 Cheney, Mrs. K. D.
 Cheney, Louis R.
 Cheney, O. H.
 Chester, Hawley T.
 Child, Miss Ruth Auchincloss
 Children's University School
 Childs, Frederick R.
 Childs, S. W.
 Childs, Mrs. Starling W.
 Childs, Wm.
 Chipman, Guy W.
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 Chisholm, Mrs. Hugh J.
 Chisman, Rosa B.
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 Chisolm, Mrs. B. Ogden
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 Choate, Mabel
 Christie, R. E.
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 Church, F. Edwin
 Church, Louis P.
 Cisco, George H.
 Claffin, Mrs. George E.
 Claffin, John
 Clapp, Frederick G.
 Clapp, George H.
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 Clark, Bert
 Clark, Mrs. Charles M.
 Clark, Charles Marti
 Clark, Clarence M.
 Clark, Edward S.
 Clark, George C., Jr.
 Clark, George H.
 Clark, Mrs. Grenville
 Clark, Harold Benjamin
 Clark, Harold T.
 Clark, Harry H.
 Clark, Henry A.
 Clark, Miss Jennie Mae
 Clark, John M.
 Clark, Mrs. John Peyton
 Clark, Mrs. Le Roy
 Clark, Maud S.
 Clark, Raymond Skinner
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 Clarke, Mrs. E. A. S.
 Clarke, Florence
 Clarke, Thomas B.
 Clarkson, Miss Annie

- Clausen, George U.
 Clayberger, R. P.
 Clayburgh, Albert
 Clayton, Florence P.
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 Clegg, Mrs. A. E.
 Clement, Mrs. Stephen Merrell
 Clerici, John
 Cleveland, Clement, M.D.
 Cleveland, Mather
 Close, Walter H.
 Clowes, Francis J.
 Clowes, Frederick V.
 Cluett, Walter H.
 Coakley, Cornelius G., M.D.
 Cobb, A. Polhemus
 Cobb, Irvin S.
 Cochran, G. D.
 Coddington,
 Mrs. Clarence Morgan
 Coe, Henry E., Jr.
 Coffin, Miss Alice S.
 Coffin, Edmund
 Coffin, Francis A.
 Coffin, William S.
 Coggeshall, Edwin W.
 Cogswell, Mrs. Ledyard, Jr.
 Cohen, Arthur J.
 Cohen, DeWitt Clinton
 Cohen, Emanuel
 Cohen, Julius Henry
 Cohen, Dr. Martin
 Cohen, Max
 Cohen, Moise K.
 Cohen, Wm. N.
 Cohen, William W.
 Cohn, Alfred E.
 Cohn, Martin L.
 Cohn, Sigmund
 Coit, Marjorie Cordley
 Coker, James Lide
 Colburn, Albert E.
 Cole Edwin,
 Cole, Frederic A.
 Cole, Mrs. L. W.
 Cole, Rufus
 Cole, Mrs. Rufus
- Cole, Sylvan
 Colebrook, Charles B.
 Coleman, C. Philip
 Coleman, L. W. T.
 Coleman, Mrs. Leighton H.
 Coleman, Dr. Warren
 Coles, Leon M.
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 Colgate, Gilbert
 Colgate, James C.
 Colgate, Mrs. Richard M.
 Collier, Mrs. R. J.
 Collins, Chas. Farnham, M.D.
 Collins, Mrs. Minturn Post
 Collins, P. D.
 Colp, Dr. Ralph
 Colt, Harris D.
 Colt, Richard C.
 Colton, Mrs. Chester L.
 Conboy, Martin
 Cone, Bernard M.
 Cone, Mrs. Ceasar
 Cone, Frederick H.
 Conklin, Mrs. W. R.
 Connable, Mrs. John Lee
 Connfelt, Charles M.
 Constantian, Dr. R.
 Content, Walter
 Conway, W. Palen
 Conyngham, Mrs. John N.
 Conze, G. H.
 Cook, Mrs. Alfred A.
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 Cook, H. J.
 Cook, Ralph
 Cooke, Richard A.
 Cooke, Walter E.
 Cooley, Mrs. Elmer E.
 Coolidge, Oliver H.
 Coombs, James Bliss
 Coombs, Mrs. Robert D.
 Coonan, J. E.
 Cooper, Mrs. Charles W.
 Cooper, Dudley M.
 Cooper, F. G.
 Cooper, Henry E.
 Cooper, Mrs. M. Le Brun
 Cooper, Morris
- Copeland, Royal S., M.D.
 Coppell, Arthur
 Corbin, A. O.
 Corbin, Austin
 Corcoran, George Eustis
 Coriell, William W.
 Corlies, Howard
 Cormack, G. A.
 Corn, Belmont
 Cornell, Edward
 Cornell, Miss Emily² L.
 Corning, Mrs. Parker
 Corrigan, Agnes
 Corscaden, Dr. James A.
 Cory, Robert H.
 Coshland, Mrs. Lee B.
 Coster, Mrs. C. H.
 Cote, Arthur J.
 Cotting, C. E.
 Courtney, Mrs. Basil S.
 Coutant, Mrs. Russel S.
 Coward, Marian W.
 Cowdin, J. Cheever
 Cowdin, Mrs. Winthrop
 Cowl, Clarkson
 Cowl, Mrs. Clarkson
 Cowles, Dr. Edward S.
 Cowles, John H.
 Cowles, Mrs. Percival W.
 Cowperthwait, J. H.
 Coxe, Mrs. Alfred C., Jr.
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 Craig, Gladys M.
 Crain, Miss Christobelle
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 Crane, Mrs. Clinton H.
 Crane, Mrs. W. Murray
 Crane, Mrs. Winthrop M., Jr.
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 Crawford, H. L.
 Crawford, Mrs. John Jason
 Crawford, Mary M., M.D.
 Crawford, Wm.
 Crile, George W., M.D.

- Crimmins, Miss Mary C.
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 Crocker, W. T.
 Crocker, William H.
 Crockett, Mrs. Stuart
 Crohn, Lucile
 Cromwell, Jarvis
 Cromwell, Lincoln
 Crone, S. A.
 Cross, Miss Emily
 Cross, George D.
 Cross, Miss M. R.
 Cross, Mrs. R. J.
 Cross, W. R.
 Crossley, G. R.
 Crow, Chas. S.
 Crozier, Maj.-Gen. William
 Crump, Dr. Armistead C.
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 Cullman, Jos. F.
 Cullum, J. Barlow
 Cunningham, Francis de L.
 Cunningham, Mrs. Frederic,
 Jr.
 Cunningham, W. de L.
 Curie, Chas.
 Curiel, H.
 Curran, Guernsey
 Currie, Mark Douglas
 Curtis, F. Kingsbury
 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.
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 Cushman, James Stewart
 Cushman, Merton L.
 Cutcheon, F. W. M.
 Cutler, Earle
 Cutler, J. Warren
 Cutting, Mrs. Fulton
- Cypra, Anton
 Daily, George M.
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 Dale, Mrs. Eben
 Dall, C. W.
 Dall, Mrs. Curtis B.
 Dallett, Frederic A.
 Dalziel, Alexandra
 Damrosch, Frank
 Dana, Denison D.
 Dana, Paul
 Danforth, Mrs. Francis J.
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 Daniels, Lorenzo
 Danziger, Virginia
 Darlington, Mrs. Gilbert
 Darlington, Mrs. Harry
 Darlington, Rev. Henry, D.D.
 Dashew, Jacob
 Dater, John Grant
 Daum, Warren
 Davenport, Chas. B.
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 Davenport, Wm. B.
 Davey, Edward J.
 Davey, William
 Davey, Wm. Nelson
 Davidge, Wm. H.
 Davidson, DeWitt A.
 Davie, Preston
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 Davis, George S.
 Davis, Horace A.
 Davis, John W.
 Davis, Leonard M.
 Davis, Morgan
 Davis, Mrs. Robert C.
 Davis, Samuel D.
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 Dean, Sarah M.
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 de Forest, Lockwood
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 deKosenko, Stepan
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- Demorest, Mrs. William J.
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 Doelger, Frank G.
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 Dominick, Gayer G.
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 Dominick, Wm. F.
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 Donoho, Mrs. Ruger
 Donohugh, Mrs. Agnes C. L.
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 Dorffman, Norman I.
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 Dorman, Mrs. Richard A.
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 Du Val, Guy
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 Eagle, J. Frederick
 Earl, Walter G.
 Earle, Ellis P.
 Early, Joseph N.
 Eastland, Dr. O.
 Easton, Charles D.
 Eaton, Cyrus S.
 Eaton, Mrs. Frederick H.
 Eaton, Henry W.
 Ebeling, Albert H., M.D.
 Eberstadt, Ferdinand
 Eckart, Edmund
 Ecker, F. H.
 Eckstein, Alfred
 Eddy, Geo. Simpson
 Eddy, Wm. H.
 Eden, John H., Jr.
 Eder, P. J.
 Edgar, Herman L. R.
 Edge, Mrs. C. N.
 Edgell, George Harold
 Edie, Richard, Jr.
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 Edson, Marmont
 Ehrenclou, Alfred H.
 Ehret, Mrs. Louis J.
 Ehrich, Mrs. Adelaide Price
 Ehrich, Mrs. Jules S.
 Ehrmann, Mrs. E.

 Eilers, Karl
 Eilshemius, Henry G.
 Eilshemius, Louis M.
 Eimer, August
 Einstein, I. D.
 Eising, Dr. Eugene H.
 Eising, Harry
 Eisman, Max
 Eisner, William J.
 Eitelbach, Walter
 Eldridge, Lewis A.
 Elias, Mrs. Celina F.
 Elizabeth, Mother Mary
 Elkan, Benno
 Elkus, Abram I.
 Elkus, Mrs. Abram I.
 Elliman, Douglas L.
 Elliman, Lawrence Bogert
 Elliot, Arthur F.
 Elliot, Mrs. Stewart
 Elliott, John
 Elliott, William, Jr.
 Ellis, Ralph
 Ellison, Bennett
 Ellsworth, John S.
 Ellwood, Walter B.
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 Elmer, C. W.
 Elms, Franklin M.
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 Ely, Alfred
 Ely, Carl B.
 Ely, Caroline Weir
 Emanuel, John Henderson
 Embree, Edwin R.
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 Emerick, F. A.
 Emerson, John Haven
 Emerson, Miss Julia T.
 Emerson, Mrs. Wm.
 Emmet, C. Temple
 Emmet, Miss Lydia F.
 Emmet, Robert Temple
 Emmons, Miss Elizabeth W.
 Endicott,
 William Crowninshield

 Enelow, H. G.
 Engel, Irving M.
 Engel, Nicholas
 Engelhard, George H.
 English, Geo. W.
 English, Mrs. J. Radford
 Engs, Samuel F.
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 Erbsloh, R.
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 Erdmann, John F., M.D.
 Erdmann, Martin
 Erdmann, William
 Erdwurm, Frank, M.D.
 Erisman, Mrs. Frank H.
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 Erlanger, Milton S.
 Erlanger, Sidney C.
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 Evans, Harry F.
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 Evans, Reinald S.
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 Evans, Samuel G.
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 Evans, Wm. W.
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 Ewing, Gifford C.
 Exton, H. E.
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 Fabbri, Mrs. Sheperd
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 Fahnestock, William
 Fahs, Louis A.

Failla, G.
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 Fairchild, Mrs. S. W.
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 Falk, Myron S.
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 Farnsworth, William
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 Farrel, Mrs. Franklin
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 Feldman, Dr. George
 Feldman, Herman
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 Felsenthal, Ben.
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 Ferguson, C. V.
 Ferguson, Miss Eleanor
 Ferguson, Harry L.
 Ferguson, Mrs. Robert C.
 Ferguson, Mrs. Roy K.
 Ferguson, William C.
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 Ferry, Mansfield
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 Field, Henry
 Field, Wm. B. Osgood
 Field, Mrs. Wm. B. Osgood
 Fielding, Eugenie M.

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 Finn, Mrs. James Wall
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 Fischer, L. J.
 Fischer, T. Tasso
 Fish, Erland F.
 Fisher, Howell
 Fisher, Joel Ellis
 Fisher, Samuel H.
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 Fleming, Stephen B.
 Fletcher, E. Marguerite
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 Foster, Macomb G.

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 Gallatin, Goelet
 Gallatin, Margaret H.
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 Gans, Nathan
 Gantz, Aaron
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 Gary, I. C.
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 Gazan, Simone N.
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 Geer, Mrs. Langdon
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 ton
 Gerdau, Mrs. Otto
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 Goldman, Albert

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 Greenbaum, Lawrence S.
 Greene, Miss Augusta Bor-
 land
 Greene, Carleton
 Greene, Jerome D.
 Greenebaum, Fred. H.
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 Greenough, William Bates
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 Grinnell, Mrs. George Morton
 Grinnell, Dr. Robt. S.
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 Griscom, Mrs. Ludlow
 Griswold, Wm. E. S.
 Groff, Mrs. William Morgan
 Gross, Moritz
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 Gruenstein, B. M.
 Grundner, Mrs. M.
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 Gude, Edward C.

Guenther, Louis
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 Guggenheim, Simon
 Guggenheim, Mrs. Simon
 Guggenheim, William
 Guggenheimer, Mrs. J. Caesar
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 Guinzburg, Mrs. Ralph
 Guinzburg, Mrs. Victor
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 Gulick, Archibald A.
 Gunari, Andrew P.
 Gushee, R. A.
 Guthrie, Mrs. Charles Strong
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 Rev. William Norman
 Gutierrez, Valeriano
 Gutman, Abraham L.
 Gutman, J. W.
 Gwinn, Ralph W.
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 Haas, Sidney V., M.D.
 Hackett, Frank S.
 Hadley, D. F.
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 Hadley, Morris
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 Hager, Robert, Jr.
 Haggerty, H.
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 Haines, Charles D.
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 Hale, Dr. Henry E.
 Hall, Elizabeth C.
 Hall, Esther Wadsworth
 Hall, George Gilman
 Hall, Geraldine C.
 Hall, Harold H.
 Hall, Henry B.
 Hall, Henry J. S.
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 Hall, Miss M. Winifred

Hall, William Webster
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 Halsey, Florence
 Halsey, Francis R.
 Halsey, Frederic M.
 Halsey, Frederick A.
 Halsey, Harold V. W.
 Halsey, Herbert D.
 Halsey, Miss Katherine T.
 Halsey, R. T. H.
 Halsey, Robert H.
 Halsted, E. Bayard
 Hamann, Wm. A.
 Hamerschlag, Royal P.
 Hamerslag, Howard J.
 Hamersley, Louis Gordon
 Hamilton, Alexander
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 Hamilton, Geo.
 Hamilton, Mrs. Morgan
 Hamlin, Mrs. Harry L.
 Hammer, Dr. H. F.
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 Hammond, Mrs. John Henry
 Hampton, Claire Adams
 Hanauer, Jerome J.
 Hance, John A.
 Handy, H. H. S.
 Handy, John L.
 Handy, Parker D.
 Hansen, Ferdinand
 Hanson, Henry Hall
 Harbison, Wm. Albert
 Hard, DeCourcy L.
 Hardart, Miss May
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 Hardin, William B.
 Hardinge, Mrs. H.
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 Hardy, Charles J.
 Hardy, Dr. Sarah Belcher
 Hare, Mrs. Montgomery
 Hare, William
 Harlem, Academy

Harlow, Arthur H.
 Harmon, Mrs. Benedict
 Harmon, Rawson B.
 Harper, Miss Lillie H.
 Harris, Abraham
 Harris, Albert H.
 Harris, Madame Cecil
 Camille Martin
 Harris, Chas. C.
 Harris, Charles F.
 Harris, Rear Admiral
 Frederic R.
 Harris, Geo. A.
 Harris, Mrs. Hayden B.
 Harris, Ida M.
 Harris,
 Mrs. Peyton Randolph
 Harris, Mrs. Victor
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 Harrison, Bernard J.
 Harrison, Philip
 Harrower, Pascal R.
 Hart, Alfred S.
 Hart, Howard S.
 Hart, Mrs. John I.
 Harter, Isaac
 Hartmann, Waldemar
 Hartshorn, Mrs. S. H.
 Hartshorn, Dr. W. Morgan
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 Mrs. James Mott
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 Haskell, Amory L.
 Hastings, Miss Grace
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 Hastings, Mrs. T. Mitchell
 Hastings, Thomas
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 Hauben, Saul S.
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 Hauswirth, Dr. Louis
 Havemeyer, Frederick C., 2d.
 Havemeyer, Henry O., Jr.
 Havemeyer, John F.
 Havemeyer, T. A.

Haven, J. Woodward
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 Hawkes, George Walter
 Hawkins, Mrs. Eugene D.
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 Hayden, Miss Mary Lena
 Hayden, Warren S.
 Hayes, Alfred
 Hayes, Henry R.
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 Hayflich, Joseph
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 Hayward, J. B.
 Hazard, Frederick Rowland
 Hazard, Mrs. R. G.
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 Hazen, Allen
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 Heald, Glen D.
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 Heck, Dr. Edson B.
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 Hegeman, Albert Clarence
 Hegeman, Gerard C.
 Heide, Henry
 Heide, Henry, Jr.
 Heide, Herman L.
 Heide, Julius A.
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 Heim, Edward
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 Heller, Abraham A.
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- Helprin, Theodore D.
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 Herrick, Newbold L.
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 Hoffman, Charles W.
 Hoffman, F. Burrall, Jr.
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 Holzman, Elkan
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 Hopkinson, Ernest

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 School
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 Hoyt, C. Sherman
 Hoyt, Geo. H.
 Hoyt, Geo. S.
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 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, William B.
 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, George W.
 Jacoby, Dr. Geo. W.
 Jaeckel, Albert F.
 Jaffray, Mrs. Robert
 Jais, Jacob D.
 James, Mrs. Ellerton
 James, Henry
 James, Mrs. Henry
 James, Henry A.
 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
 Jarvie, James N.
 Jarvis, N. S., M.D.
 Jeffcott, R. C.
 Jefferson, John Percival
 Jenkins, A. C.
 Jenkins, Alfred W.
 Jenks, Randolph
 Jenks, Mrs. Robert I.
 Jennings, Miss A. B.
 Jennings, Percy H.
 Jennings, Mrs. Percy Hall
 Jennings, Mrs. Philip B.
 Jennings, Robt. E.
 Jennings, Walter
 Jennings, Mrs. Walter
 Jephson, George S.
 Jermain, Miss M. C.
 Jervey, Huger W.
 Jessup, Everett Colgate
 Jewett, Frank B.
 Jewett, George L.
 (In Memoriam)
 Jewett, Rutger Bleecker
 Jobling, James W., M.D.
 John, Robert
 Johnson, Mrs. Bradish
 Johnson, Prof. Douglas W.
 Johnson, Evangeline B.
 Johnson, F. Elmer, M.D.
 Johnson,
 Mrs. Frederick Morgan
 Johnson, George B.
 Johnson, Gilbert H.
 Johnson, Julius M.
 Johnson, Leeds
 Johnson, Reginald M.
 Johnson, Mrs. S. Pitney
 Johnson, Ward L.
 Johnson, Wm. C., M.D.
 Johnson,
 Mrs. Wm. Templeton
 Johnston J. Herbert
 Johnston, Mrs. J. Herbert
 Johnston, Dr. Marius F.
 Jonas, Ralph
 Jones, Mrs. Adam Leroy
 Jones, Arthur J.
 Jones, Arthur W. Jr.
 Jones, Bassett
 Jones, Mrs. Cadwalader
 Jones, De Witt Clinton
 Jones, Edwin Artimus
 Jones, Emily L.
 Jones, Ernest L.
 Jones, Francis C.
 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, Mrs. John A., Jr.
 Josephthal, Louis M.
 Judson, Henry I.
 Judson, William D.
 Julian, R. L.
 Jungbluth, Karl
 Kahle, Mrs. Julie
 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.
 Kahrs, J. Henry
 Kahrs, W. H., M.D.
 Kalbfleisch, Franklin H.
 Kallman, Max S.
 Kalvin, Nathan
 Kane, Mrs. De Lancey
 Kane, Miss Sybil Kent
 Kann, N.
 Kanowitz, S. B.
 Kappes, Herman
 Karagheusian, Arshag
 Karelson, Frank E., Jr.
 Karsch, Bernard
 Kaskel, Max
 Kassing, Edwin S.
 Kastor, Adolph
 Kates, Jerome S.
 Kathan, Reid A.
 Kaufman, Mrs. Benj. H.
 Kaufmann, Charles B.
 Kaufmann, Donald
 Kaufmann, Ernst B.
 Kaufmann, H. M.
 Kaufmann, Irma H.
 Kaufmann, Julius
 Kaufmann, Mrs. M. J.
 Kaufmann, Max
 Kaye, Mrs. E. D.
 Kayser, Henry A.
 Keagey, Esther
 Kean, Mrs. Hamilton Fish
 Kean, John
 Kean, Miss Lucy H.
 Kean, Mary Alice Barney
 Kean, Robert Winthrop
 Keech, Mrs. Frank Browne
 Keeler, Mrs. Charles Bradley
 Keen, Frank H.
 Keen, Mrs. Herbert Beers
 Keene, Charles S.
 Keep, C. H.
 Kehoe, Robt. P.
 Keith-Elliott, Alice E.
 Keith, Minor C.

- Keith, Mrs. Minor C.
 Keller, Charles G.
 Keller, Fredk. C.
 Keller, Joseph F.
 Keller, Morris
 Kelley, Augustus W.
 Kelley, Cornelius F.
 Kelley, Nicholas
 Kellogg, Charles W.
 Kellogg, Mrs. Frederic R.
 Kellogg, L. D.
 Kellogg, Mrs. Morris W.
 Kellogg, R. S.
 Kelly, Charles P.
 Kelly, J. S.
 Kelsey, Fredk. W.
 Kemp, Robert
 Kempf, E. J.
 Kempner, Elias
 Kempner Sigmund Marshall
 Kendall, W. Floyd
 Kendrick, Allen B.
 Kennedy, Dr. Harris
 Kennedy,
 Mrs. H. Van Rensselaer
 Kennedy, James J.
 Kennedy, Mrs. John S.
 Kennelly, Major William
 Kennerley, Mrs. M.
 Kennerly, M. M.
 Kenney, Jane
 Kent, Edward G.
 Kent, Edwin C.
 Kent, G. H.
 Kent, Peter Lorillard
 Kent, Warner W.
 Kenyon, John N.
 Keppel, David
 Keppel, F. P.
 Kernan, John D.
 Kerr, E. Coe
 Kerr, John B.
 Kerr, John Clapperton
 Kerrison, Dr. Philip D.
 Kessel, Leo, M.D.
 Kesten, Homer D.
 Keuffel, W. G.
 Kilner, S. E.
 Kilsheimer, James B., Jr.
 Kimball, Mrs. C. W., Jr.
 Kimball, Edward A.
 Kimball, W. Eugene
 Kimbel, Anthony F.
 Kimbel, Henry
 King, Mrs. Arklay
 King, Charles S.
 King, Mrs. Edward
 King, H. Thorn, Jr.
 King, Herbert T.
 King, Miss Isabella C.
 King, James Gore
 Kingsbury, Miss Alice E.
 Kingsford, Daniel P.
 Kingsford, Miss Margaret S.
 Kingsley, Darwin P., Jr.
 Kingsley, W. M.
 Kinney, Constance
 Kinney, Morris
 Kinney, Warren
 Kip, W. Ruloff
 Kip, William F.
 Kirby, Cornelia T.
 Kirby, Hayward S.
 Kirby, Sarah L.
 Kirkham, William B.
 Kiser, John W.
 Kissel, Mrs. G. E.
 Kissel, W. Thorn
 Kitchel, Allan F.
 Kitchen, Mrs. V. C.
 Kittredge, George W.
 Kittredge, S. Dana
 Klee, Sigmund
 Klee, Walter S.
 Klein, Adolph
 Klein, D. Emil
 Klein, Leo M.
 Kleinberger, François
 Klingenstein, Charles
 Kloh, Alphonse
 Klugman, Julius
 Knapp, Joseph P.
 Knapp, William Jared
 Knight, Mrs. J. P., Jr.
 Knipe, Miss E. V.
 Knoblauch, Geo. W.
 Knoedler, Roland F.
 Knowlton, Eben B.
 Knox, Samuel
 Koch, Lucile Renée
 Koch, William T.
 Koehler, Robert Portner
 Koehn, Walter H.
 Kohlberg, Alfred
 Kohler, Miss M. E.
 Kohn, Albert M.
 Kohn, Emil W.
 Kohn, Sol
 Kohn, Mrs. Walter T.
 Kohns, I. D.
 Kohnstamm, Lothair S.
 Koles, Henry M., M.D.
 Kollstede, Charles A.
 Konta, Alexander
 Koon, R. B.
 Kopetzky, Samuel J., M.D.
 Kops, Max
 Kops, Mrs. Max
 Korn, Robert
 Kosmak, Geo. W., M.D.
 Kovacs, Dr. Richard
 Krakeur, Arthur F.
 Krakeur, Jacques
 Krause, Holger E.
 Kremer, Mrs. William N.
 Kress, Claude W.
 Kress, Mrs. Claude W.
 Kress, R. H.
 Kridel, Alexander H.
 Kridel, Mrs. Samuel
 Krippendorf, Mrs. Karl
 Krippner, William
 Krolik, Day, Jr.
 Kronthal, Leon H.
 Kropff, W. F.
 Krum, Miss Vivian B.
 Kudlich, H. C.
 Kudlich, Hans E., M.D.
 Kugelman, Juluis G.
 Kuhn, Arthur K.
 Kuhn, August
 Kuhn, Edward
 Kuhn, Julius
 Kumpf, George L.

- Kunhardt, Mrs. Henry R.
 Kunhardt, Kingsley
 Kupfer, Miss Grace H.
 Kurz, George A.
 Kurzman, Charles C.
 Kuser, Mrs. Anthony R.
 Kuser, John Dryden
 Kuser, Mrs. John L., Jr.
 Kuttroff, Adolf
- Labrot, William H.
 Lackey, James B.
 Ladd, William Sargent, M.D.
 La Dow, Stanley V.
 Laevens, Achilles
 LaFarge, O. H. P.
 Lagai, Dr. G.
 Lage, Frederico
 Lagemann, C.
 Lagowitz, Miss H. L.
 Laing, Mrs. George
 Lamarche, Mrs. Henry J.
 Lamb, Dr. Albert R.
 Lamb, Gilbert D.
 Lambelet, Mrs. H.
 Lamberson, Mrs. T. M.
 Lambert, Adrian, V. S.
 Lambert, Alexander
 Lambert, Samuel W.
 Lambert, Vitus C.
 Lambie, W. S.
 Lamont, Thomas S.
 Lancashire, Mrs. J. H.
 Lanchner, Dr. S. H.
 Landay, Mrs. I. F.
 Landon, Francis G.
 Landsman, Samuel M., M.D.
 Lane, Mrs. Edward V. Z.
 Lane, Melvin
 Lane, Wolcott G.
 Lang, Edmund L.
 Lange, Gustav, Jr.
 Langeloth, Mrs. Jacob
 Langenberg, Carl H.
 Langley, Mrs. William C.
 Langmann, Mrs. G.
 Lanier, Reginald B.
 Lapham, Mrs. John J.
- Lapham, Lewis H.
 Larkin, Mrs. Adrian H.
 Larkin, Alice
 Larkin, Francis Yoakum
 Larner, Wm. Angamar
 la Rosa, Carlos, Jr.
 Lathers, Miss Ida
 Lathrop, Alanson P.
 Latting, Miss Helen L.
 Laucks, S. Forry
 Lauder, Mrs. Geo., Jr.
 Lauer, Edgar, J.
 Lauscher, Mrs. Ad.
 Lauten, Henry G. F.
 Lavelle, M. J.
 Lawrence, Arthur B.
 Lawrence, G. Alfred
 Lawrence, John L.
 Lawrence, Miss Margaret
 Lawrence, Townsend
 Lazo, Antonio
 Lea, Charles M.
 Leach, Mrs. Henry G.
 Leach, Henry Goddard
 Leale, Charles A., M.D.
 Leavitt, Mrs. Charles W.
 Leavitt, Miss Charlotte
 Leavitt, Gordon
 Leaycraft, Edgar C.
 Leberman, Jacob
 LeBloas, Jean
 Lederer, Richard M.
 Ledyard, Mrs. Lewis Cass
 Lee, Albert M.
 Lee, Mrs. Arthur
 Lee, Mrs. Burton J.
 Lee, Mrs. Cornelius S.
 Lee, Frederic S.
 Lee, Ivy L.
 Lee, J. W., Jr.
 Lee, Dr. Marguerite T.
 Lee, R. E.
 Lee, Samuel
 Leewitz, Adolph
 Lefferts, Mrs. Barent
 Legg, Mrs. George
 Lehmaier, James M.
 Lehmaier, Mrs. Louis A.
- Lehman, Arthur
 Lehman, Harold M.
 Lehman, I. Howard
 Lehman, Irving
 Lehmann, Charles Lamson
 Leigh, R. Walter
 Leitner, Emil
 Leland, Mrs. Amory
 Lemaire, Florence O.
 Lemp, Louis
 Lenci, George N.
 Lenz, Maurice, M.D.
 Leo, Brother
 Leon, Harry
 Léon, Maurice
 Leonard, T. C.
 Lerner, Michael
 Lerner, Samuel A.
 LeRoy, Mrs. Frederick G.
 Le Roy, Mrs. K. M.
 LeRoy, Dr. Louis C.
 Lesser, Leon M., M.D.
 Lesser, Mrs. S. D.
 Lester, A. Edward
 Lester, William C.
 Levene, Alexander
 Levenson, Edward, D.D.S.
 Levey,
 Miss Margaret Bispham
 Levi, Mrs. Albert A.
 Levi, Mrs. Carl
 Levi, George
 Levi, Philip J.
 Levy, B. E.
 Levy, Edgar A.
 Levy, Ephraim B.
 Levy, Jacob
 Levy, John
 Levy, Leo
 Levy, Louis S.
 Levy, Louis Spencer
 Levy, Max J.
 Levy, Moe
 Levy, Willy
 Lewengood,
 Miss Helen Louise
 Lewis, A. Nelson
 Lewis, Mrs. Arthur M.

- Lewis, Mrs. August
 Lewis, Mrs. Bird
 Lewis, C.
 Lewis, Edward J.
 Lewis, Esther J.
 Lewis, Mrs. Eugene
 Lewis, Fred. E.
 Lewis, Mrs. Frederic Elliott
 Lewis, John W. Jr.
 Lewis, Liston L.
 Lewis, Miss M. Frederica
 Lewis, Miss Margaret E.
 Lewis, Montgomery H.
 Lewis, Read
 Lewis, Dr. Robert
 Lewis, Robert Parker
 Lewis, Mrs. Roger
 Lewisohn, Miss Irene
 Lewisohn, Sam A.
 Lewisohn, Mrs. Samuel A.
 Lexow, Mrs. Allan
 Lichtenberg, Samuel
 Lichtenstein, Louise Boyd
 Lichtenstein, Oscar R.
 Lieb, Charles C., M.D.
 Lieb, J. W.
 Lieber, Dr. Hugo
 Liebmann, Alfred
 Liebmann, Robert E.
 Liebmann, Samuel
 Lilienthal, Albert M.
 Lilienthal, Dr. Howard
 Lilienthal, Jos. L.
 Lillibridge, Harrison
 Limburg, Herbert R.
 Lincoln, Ann
 Lincoln, Frederic W.
 Lincoln, Jackson Steward
 Lincoln, Mrs. Lowell
 Lindenmeyr, Fritz
 Lindley, Allen L.
 Lindsey, Edward
 Lion, Oscar
 Lipman, Walter L.
 Lippincott, Miss M. T.
 Lippman, Richard W.
 Lrsman, Frederick J.
 Lissauer, Robert
 Lissberger, Milton L.
 Littauer, Lucius N.
 Littell, Miss Elizabeth D.
 Little, Mrs. Arthur W.
 Little, Bascom
 Little, Duncan MacD.
 Little, Mrs. Elliotte
 Little, John W.
 Litwin, Mrs. M. A.
 Livermore, Mrs. J. W.
 Livingston, Miss A. P.
 Livingston, Archibald R.
 Livingston, Henry S.
 Livingston, Mrs. John Henry
 Livingston, Louis
 Livingston, Philip
 Lloyd, Mrs. Francis G.
 Lobenstine, Mrs. Wm. C.
 Lobo, C.
 Lobsenz, Jacob Munter M.D
 Lobsitz, Maurice
 Locke, Mrs. Robinson
 Lockwood, Dr. George Roe
 Lockwood, Mrs. Mary Isabel
 Loeb, Benj. W.
 Loeb, C. M.
 Loeb, J.
 Loeb, Mrs. Morris
 Loeb, Mrs. William
 Loeb, Andrew W.
 Loewenthal, Walter
 Loewi, Hugo V.
 Logan, Lorens
 Logan, Mrs. W. J.
 Long, Miss Emilie O.
 Long, Fred. R.
 Long, Mary Fraser
 Longfellow, Frederick W.
 Loomis, C. C.
 Loomis, Homer L.
 Lorberblatt, Isaac
 Lord, Chester S.
 Lord, Daniel M.
 Lord, Wm. G.
 Lorenz, Mrs. Leo
 Lorsch, Arthur
 Lorsch, Henry
 Lough, W. H.
 Loughran, Robert L., M.D.
 Lounsbury, Richard
 Lovering, J. S.
 Lovett, R. S.
 Lovett, Robert A.
 Low, Mrs. Clarence
 Low, E. Herrick
 Low, Ethelbert I.
 Low, Mrs. Paul H.
 Low, Mrs. Seth
 Lowenheim, Fredk.
 Lowenstein, Oscar
 Lowenstein, Solomon
 Lowenthal, Alfred
 Lowndes, M. E.
 Lowrey, Mrs. G. C. W.
 Lowther, Christopher M.
 Lowther, George
 Lucas, Kenneth B.
 Ludlow, Mrs. Banyer
 Ludlum, C. A.
 Ludvigh, Elek John
 Lueder, C. G.
 Lueder, E. L.
 Lueders, George
 Lufkin, E. C.
 Luithle, C. F.
 Luke, Adam K.
 Luke, David L.
 Lumb, Henry A.
 Lummis, Benjamin Rush
 Lund, Fred. B., Jr.
 Lundquist, Miss G.
 Lupu, Irving
 Luquer, Prof. Lea McL.
 Luquer, Lea Shippen
 Lusk, Miss Anna H.
 Lusk, Graham
 Lustbader, Samuel, Jr.
 Luykx, Mrs. N. G. N.
 Lyeth, J. M. R.
 Lyeth, John C.
 Lyman, Grace Greenleaf
 Lyman, Robert H.
 Lynch, Mrs. John H.
 Lynch, M. H.
 Lynch, W. J. Turner
 Lynn, Francis

- Lyon, Theo. E.
 Lyon, Tracy

 Maas, Milton A.
 Mabon, J. B.
 MacCracken,
 Mrs. George Gere
 MacCurdy, George Grant
 MacDonald, George
 Macdonald, Ranald H.
 Macdowell, W. G.
 MacFadden, C. Kendrick
 Mack, Arthur C.
 Mack, Arthur J.
 Mack, Fred. A.
 Mack, Harry
 Mack, Julian W.
 MacKay, John J.
 MacKee, Geo. M.
 Mackenzie, Kenneth K.
 MacLay, Mrs. Alfred Barmore
 Macleod, William P.
 MacMurray, C. F.
 MacVeagh, Ewen Cameron
 Macy, T. Ridgway
 Macy, W. Kingsland
 Maddaus, Ingo, Jr.
 Maddaus, Paul
 Madden, Jay
 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.
 Malet-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.
 Mansfield, Howard
 Mantle, J. G. C.

 Manville, H. Estelle
 Manville, H. E., Jr.
 Manz, Gustav
 Mapes, Eugene E.
 Marble, William A.
 Marbury, Miss Elhsabeth
 Marekwald, A. H.
 Marcus, B. K.
 Marcus, Mrs. W. E., Jr.
 Marcuse, Alexander J.
 Margaret, Sister M.
 Margolis, Samuel
 Marino, A. J.
 Marion, Pierce
 Marker, Dr. J. P. H.
 Markle, John
 Markoe, Mrs. James W.
 Marsh, Arthur E.
 Marsh, Charles Capron
 Marsh, John B.
 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, Edward J.
 Martin, Mrs. George W.
 Martin. Mrs. Grinnell
 Martin, Henry C.
 Martin, Robert W.
 Martin, Thomas W., M.D.
 Martin, Walton, M.D.
 Marty, Jemuel G.
 Marvin, Langdon Parker
 Marx, Charles
 Masback, Robert J.
 Mason, Charles N.
 Mason, Miss Fanny P.
 Mason, Mrs. George Grant
 Mason, James
 Mason, M. D.
 Mason, Mrs. Thomas A.
 Masor, Daniel
 Massey, Mrs. George
 Massey, Miss Harriet F.

 Masters, Francis R.
 Masters, Sarah W.
 Mastin, Mrs. J. Edward
 Mather, Samuel
 Mathesius, Fredk. Jr.
 Matheson, Wm. J.
 Mathewson, Charles E.
 Mattison, Mrs. E. D.
 Mausolff, Mrs. Paul
 Maxwell, George T.
 Maxwell, Henry L.
 Maxwell, Howard W.
 May, George O.
 Mayer, Albert
 Mayer, Charles
 Mayer, Mrs. John Adams
 Mayer, Joseph L. B.
 Mayer, Josh W.
 Mayer, Dr. Leo
 Mayer, M. R.
 Mayer, Mrs. Max
 Mayer, Nelson B.
 Mayer, Mrs. R. A. de Lima
 Mayers, Lawrence S.
 Maynard, Robert W.
 Maxey, Mrs. Thomas S.
 Mazur, Mrs. Paul M.
 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, Loius B., Jr.
 McCall, Leo H.
 McCanliss, Lee
 McCarthy, J. M.
 McCarty, Harry C.
 McCloy, John J.
 McClure, Samuel G.
 McCook, Philip J.

- McCormick, Miss Parker
 McCourt, James
 McCourt, W. Frank
 McCrea, Nelson G.
 McCrea, W. S.
 (In Memoriam)
 McCready, Robert L. M.D.
 McCreery, Henry Forbes
 McCulloh, Charles S.
 McCulloh, James S.
 McCullough, W. G.
 McCurdy, Robert H.
 McCutchen, Chas. W.
 McDonald, C. Eric W.
 McElheny, Victor K. Jr.
 McFadden, Mrs. W. A.
 McFarland, Warren C. M.D.
 McGaffin, Chas. G. M.D.
 McGee, Walter M.
 McGovern, Mrs. Coleman B.
 McGrath, Mrs. Sims
 McGraw, Mrs. Donald
 McGraw, Stanley D.
 McGregor, Robert
 McGuire, Miss Grace
 McIlhenny, E. A.
 McIlroy, George A.
 McIlvaine, Tompkins
 McIntyre, John G.
 McKay, R. G.
 McKee, Mrs. Henry Sellers
 McKelvey, Mrs. Charles W.
 McKelvey, J. J.
 McKelvy, Robert
 McKenney, Henry P.
 McKeown, Matilda J.
 McKernon, Dr. Jas. F.
 McKim, Le Roy
 McKinley, Lindsay P.
 McLane,
 Miss Sophie Hoffman
 McLane, Thomas S.
 McMahon, Rev. Joseph H.
 McManus, Edward F.
 McMaster, Mrs. Philip
 McNair, William
 McNall, Robert H.
 McNaugher, David W.
- McNeir, George
 McNeir, Thomas S.
 McParlan, Dr. John P.
 McRoberts, Samuel
 McVickar, Mrs. W. Bard
 Meacham, Alfred B.
 Mead, Carl A.
 Mead, Charles N.
 Mead, G. W.
 Mead, Herbert Jr.
 Means, Mrs. W. G.
 Meeker, Henry E.
 Meeks, Howard V.
 Megargel, Roy C.
 Meier, A. J.
 Meigs, Mrs. Ferris J.
 Meinhard, Morton H.
 Meirowitz, Dr. Philip
 Meister, Albert
 Melander, A. L.
 Melcher, John S.
 Mellen, Chase
 Mellon, E. P.
 Mellon, Miss Eleanor M.
 Meloy, Andrew D.
 Melson, Ralph
 Melville, Ward
 Mencke, John H.
 Mendes, George A.
 Menendez, James
 Menke, William
 Menken, Mrs. S. Stanwood
 Mergentime, Mrs. Charles
 Merle-Smith, Van S.
 Merle-Smith, Mrs. Wilton
 Merriam, Edwin W.
 Merriam, Henry F.
 Merrihew, George W.
 Merrill, Edwin G.
 Merrill, John Lenord
 Merriman, H. Morton
 Merritt, Dr. Arthur Hastings
 Merritt, Edward Reeve
 Merzbach, George
 Messer, Don V.
 Messier, G. Albert
 Metcalf, Mrs. M. B.
 Metcalf, Rowe B.
- Metcalf, Stephen O.
 Metcalf, Mrs. Walter Willson
 Metcalf, Z. P.
 Metcalfe, William C.
 Metzger, David
 Metzner, Helen M.
 Meyer, Arthur G.
 Meyer, Arthur S.
 Meyer, Mrs. Cord, Jr.
 Meyer, Mrs. Eugene, Jr.
 Meyer, Harry H.
 Meyer, J. Edward
 Meyer, Dr. Julian J.
 Meyer, Julius Paul
 Meyer, Robert B.
 Meyers, Edwin L.
 Michalis, C. G.
 Middlebrook, Frederic J.
 Middleton, Florence
 Migel, J. A.
 Milbank, Albert G.
 Miller, Abraham
 Miller, Mrs. Alice A.
 Miller, Andrew J.
 Miller, Mrs. Byron D.
 Miller, C. O. G.
 Miller, Mrs. Charles E.
 Miller, Clifford L.
 Miller, Mrs. H. R.
 Miller, Mrs. Henry^W Wise
 Miller, Hoyt
 Miller, Mrs. J. Blackburn
 Miller, J. E.
 Miller, Dr. James Alexander
 Miller, John H.
 Miller, Mrs. Mabel P.
 Miller, Mrs. Roswell
 Miller, Mrs. Roswell, Jr.
 Miller, Simon
 Miller, Spencer, Jr.
 Miller, William W.
 Millett, Gardner W.
 Millett, Stephen C.
 Millhiser, Mrs. Clarence
 Milliken, Hugh K.
 Milliken, Seth M.
 Mills, Dr. Adelaide
 Mills, Dudley H.

- Mills, Frederic C.
 Mills, Harriette Melissa
 Mills, Henry E.
 Milmine, Mrs. Charles E.
 Milne, Clyde
 Mincer, Arthur
 Miner, Edward G.
 Miner, Mrs. Woodin
 Minford, Levis W.
 Minor, Mrs. John C.
 Minot, G. W.
 Minott, Frederick S.
 Mitchell, C. E.
 Mitchell, Cornelius von E.
 Mitchell, James Brady
 Mitchell, Mrs. John Ames
 Mitchell, Mrs. John Murray
 Mitchell, Wesley C.
 Mittenthal, Arnold B.
 Moffat, Mrs. Douglas M.
 Moffat, G. B.
 Moffatt, Mrs. R. Burnham
 Moffit, Mrs. A. R.
 Mohlman, Mrs. John H.
 Moir, Henry
 Molleson, George A.
 Monaelessor, Dr. A.
 Monae-Lessèr, Mozart
 Montgomery, A. Moore
 Montgomery,
 Mrs. Henry Eglinton 2d
 Montgomery, James M.
 Montgomery, Mrs. Lettie D.
 Montgomery, Robert H.
 Montross, N. E.
 Moody, Prof. Herbert R.
 Moody, William F.
 Moore, Major Barrington
 Moore, Benjamin
 Moore, Mrs. Casimir de R.
 Moore, E. A.
 Moore, Mrs. Edward S.
 Moore, Frederic P.
 Moore, William A.
 Moore, Wm. S.
 Moot, Adelbert
 Moran, Chas.
 Morawetz, Mrs. Victor
 Morgan, Miss Anne
 Morgan, David Percy, Jr.
 Morgan, E. D.
 Morgan, Henry
 Morgan, John E. P.
 Morgan, Shepard A.
 Morgan, W. Forbes, Jr.
 Morgan, Wm. Fellowes
 Morgan, Mrs. Wm. Fellowes
 Morgan, William O. P.
 Morgenthau, Henry
 Morgenthau, Mrs. Henry
 Morley, A. B.
 Morman, Mrs. Samuel A.
 Morris, Mrs. Dave H.
 Morris, Joseph L.
 Morris, Mrs. L. R.
 Morris, Lewis Spencer
 Morris, Morton
 Morris, Ray
 Morrison, A. Cressy
 Morrison, Mrs. Charles King
 Morrison, I. D.
 Morrison, W. W., M.D.
 Morrissey, John P.
 Morse, Perley
 Morss, Noel
 Mortimer, Geo. T.
 Morton, Mrs. Paul
 Morton, Quincy L.
 Moschcowitz, Dr. A. V.
 Moschcowitz, Eli
 Moses, Mrs. E.
 Moses, Mrs. Henry L.
 Mosle, A. Henry
 Mosle, Max A.
 Mosman, Philip A.
 Moss, Mrs. Frederick W.
 Mosson, Isidore
 Motley, Jas. M.
 Mott, Howard S.
 Mott, Mrs. John B.
 Mott, Jordan L.
 Mott, Miss Marian
 Moulton, Miss Frances
 Mowry, Eugene C.
 Moyer, Albert
 Muendel, Christina
 Muhlfeld, Frank J.
 Mulford, Edwin H.
 Mulford, Stockton
 Mulgrave, Dorothy I.
 Muller, Carl L.
 Muller-Schall, Fred
 Mulligan, Edwin C.
 Mulligan, Mrs. Stein Edwards
 Mumford, Philip Gurdon
 Mundy, Floyd W.
 Munn, Dr. John P.
 Munroe, Vernon
 Munson, C. W.
 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, F. W., M.D.
 Murray, J. Archibald
 Murray, R. D.
 Muschenheim, Fred. A.
 Mutterperl, Sol.
 Myers, Miss Helen E.
 Myers, L.
 Myers, Winter W.
 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.
 Nehring, Jules
 Neilson, Louis, Jr.
 Neitzel, August
 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. 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.
 Newman, Ralph A.
 Newsom, William Monypeny
 Newton, Mrs. Francis
 Newton, Rollin C.
 Nichols, C. W.
 Nichols, Mrs. Chas. Walter
 Nichols, Edward T.
 Nichols, Edward T., 4th
 Nichols, Francis T.
 Nichols, S. Van B.
 Nichols, Mrs. W. H.
 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.
 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, Miss Helen Miller
 Noyes, Winthrop G.
 Nuckols, Henry Wade
 Nusbaum, Mrs. Ferdinand
 Nute, Mrs. John W.
- Oakes, Geo. W. Ochs
 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.
 Ogle, Mrs. Ponsonby
 O'Gorman, Mrs. Richard
 Ohmes, Arthur K.
- Olcott, E. E.
 Oldroyd, Ida S.
 Olds, George S.
 Ollesheimer, Henry
 Olmsted, Fayette S.
 Olmsted, M. E.
 Olmsted, William Beach
 Olney, Elam Ward
 Olwell, Lee E.
 Oman, Rear-Admiral J. W.
 O'Neil, Mrs. James
 Opdycke, Mrs. Leonard E.
 Openchowski,
 Mrs. Mieczyslaw
 Oppenham, 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.
 Orr, William C.
 Orteig, Raymond
 Orvis, Mrs. Charles E.
 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
 Ottenberg, Mrs. Irving S.
 Ottenberg, Dr. Reuben
 Oudin, Lucien
 Outhwaite, Leonard
 Ovington, Charles K.
 Owens, Wm. E.
- Pace, Homer S.
 Pack, Mrs. Charles Lathrop

Paddock, Mrs. Eugene H.
 Paddock, Mrs. Robert L.
 Paff, A. E. Merriman
 Page, Mrs. Arthur W.
 Page, F. Palmer
 Pagenstecher, G.
 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.
 Pappenheimer,
 Alvin M., M.D.
 Paquette, Percy C.
 Pardee, Ario
 Pardee, Mrs. Harold E. B.
 Pardoe, J. B., D.D.S.
 Parish, Mrs. Henry
 Parish, Wainwright
 Parish, William F.
 Park, Charles F., Jr.
 Park, F. A.
 Parker, A. W.
 Parker, Frank S.
 Parker, Junius
 Parker, Mrs. William Lincoln
 Parker, Winthrop
 Parkinson, Sidney N., M.D.
 Parks, Elton
 Parmentier, Mrs. Elsbeth
 Pabst
 Parodi, Dr. Teofilo
 Parson, Hubert Templeton
 Parsons, Argyll R.
 Parsons, Bertha R.
 Parsons, Chas. W.
 Parsons, Edgerton
 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, Frederick W.
 Patterson, Henry S., M.D.
 Patterson, Joseph Read
 Patterson, M.
 Patterson, Mrs. Rufus L.
 Patterson, Stuart H.
 Patterson, T. H. Hoge
 Patton, Mrs. J. B.
 Paulding, Charles C.
 Pavenstedt, Adolf J.
 Payne, Robert G.
 Payne, Mrs. W. T.
 Payson, Charles S.
 Peabody, Lincoln R.
 Peabody, Stephen
 Peacock, Charles A.
 Pearsall, Leigh M.
 Pearsall, Samuel
 Pearson, Mrs. Frederick
 Peaslee, Mrs. Edmund W.
 Peck, Charles E.
 Peck, E. Stuart
 Peck, Morton R., M.D.
 Peck, Wm. Halsey
 Peckham, Mrs. Wheeler H.
 Pedersen, Dr. James
 Pedersen, Victor C., M.D.
 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, F. Curtis, Jr.
 Perkins, G. Lawrence
 Perkins, George W.
 Perkins, Miss Hattie 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, Mrs. Charles G.
 Peters,
 Madame Edward McClure
 Peters, Miss Isabel M.
 Peters, William Y.
 Peterson, Frederick, M.D.
 Pettengill, Jason Seabury
 Peyton, William C.
 Peyton, Mrs. William C.
 Pfeiffer, Timothy Newell
 Pfeiffer, Wm., M.D.
 Pfender, W. S.
 Pforzheimer, Arthur
 Pforzheimer, Walter
 Phelps, Dr. G. M.
 Phelps, Mrs. Sheffield
 Philipp, M. Bernard
 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
 Phraner, Miss Mary Sumner
 Physioc, Wray
 Pickhardt, Carl
 Pickhardt, William Paul
 Pier, Roy
 Pierce, Alice R.

- Pierrepont, R. Stuyvesant, Jr
 Pierrepont, Robert Low
 Pierrepont, Seth Low
 Pierson, Mrs. C. W.
 Pierson, D. H.
 Pierson, J. Fred
 Piez, Ernestine
 Pilat, Mrs. F.
 Pilliod, James J.
 Pinkerton, Allan
 Pitkin, William Taft
 Pitman, Gen. John
 Pitney, Mrs. J. O. H.
 Pitney, John 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
 Plummer,
 Rt. Rev. George Winslow
 Plunkett, Charles T.
 Poel, Frank
 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.
 Pomeroy, Mrs. D. E.
 Pomroy, H. A.
 Pond, Miss Florence L.
 Poor, Hustace H.
 Poor, Ruel W.
 Poor, Walter S.
 Pope, Mrs. James E.
 Popham, Henry Meigs
 Popper, A. W.
 Popper, Mrs. Wm. C.
 Porter, Alexander J.
 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
 Potter, Miss Blanche
 Potter, Frank H.
 Potter, Dr. Mary Goddard
 Potter, R. Burnside
 Pottier, Auguste Ruffin
 Potts, William B.
 Powell, Miss Rachel Hopper
 Powell, S. C.
 Powers, Dr. Lillian Delger
 Prager, Prof. William
 Pratt, Dallas B.
 Pratt, Fletcher
 Pratt, Mrs. Herbert
 Pratt, Mrs. Richardson
 Preckett, Russell
 Prentice, Clare E.
 Prentice, Wm. M.
 Prentis, Edmund A., Jr.
 Prentiss, Marshall
 Presbrey, Frank
 Prescott, Dr. Henry D.
 Prescott, John O.
 Prescott, Sherburne
 Preston, Veryl
 Pretzfeld, Edgar S.
 Price, Mrs. Clarence
 Price, Joseph M.
 Price, Mrs. Walter Winston
 Priddy, Lawrence
 Prince, Benjamin
 Prince, J. Lloyd
 Prince, Julius
 Prince, Theodore
 Prizer, Edward
 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.
 Pulsifer, N. T.
 Purcell, Elizabeth
 Purdy, Wm. Macneven
 Purves, Robert Ogden
 Putnam, Helen C., M.D
 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.
 Quinn, Martin J.
 Quintard, Dr. Edward
 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, William L.
 Rathborne, Richard C.
 Rau, Eugene A.
 Rau, Henry M.
 Rayher, Edward R.
 Raymond, H. E.
 Raymond, H. H.
 Raymond, Irving E.
 Raymond, Mrs. William
 Raynes, George W.
 Read, Norman
 Read, R. Bartow
 Read, Mrs. R. Bartow

- Read, Mrs. William A.
 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.
 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, Shaw H.
 Reynolds, Thos. A.
 Reynolds, Mrs. Walter S.
 Rheinauer, Daniel
 Rheinstein, Alfred
 Rhoades, John Harsen
 Rhoades, Mrs. Lyman
 Ricé, Arthur
 Rice, Elwood E.
 Rice, Dr. Frederick W.
 Rice, Grantland
 Rice, Louis W.
 Rice, Oran Winthrop
 Rice, Philip B.
 Rich, Charles A.
 Rich, Jos. S.
 Rich, M. P.
 Richard, Miss Elvine
 Richard, Harold C.
 Richard, John MacBeth
 Richard, Joseph C.
 Richard, Oscar L.
 Richards, Ellis G.
 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
 Riesenbergl, Adolph
 Riglander, Mrs. M. M.
 Riley, Henry Alsop, M.D.
 Riley, Mrs. J. W.
 Rinelli, Peter
 Ringer, Dr. A. I.
 Rinschede, Charles A. W.
 Rippenbein Morris
 Risch, Otto Carl, M.D.
 Rives, George Barclay
 Robert, Samuel
 Roberts, Erastus T.
 Roberts, Owen F.
 Roberts, William
 Robinson, A. G.
 Robinson, Beverley R.
 Robinson, Mrs. C. L. F.
 Robinson, Charles B., Jr.
 Robinson, Edward
 Robinson, Mrs. F. I. W.
 Robinson, James H.
 Robinson, Dr. John A.
 Robinson, Karl H.
 Robinson, Mark H.
 Robinson, Monroe D.
 Robinson, Mrs. T. Douglas
 Robinson, W. Attmore
 Robson, Herman
 Rockefeller, Percy A.
 Rockefeller, Mrs. Wm. G.
 Rockwood, Miss K. C.
 Rodie, Mrs. W. S.
 Roelker, Alfred
 Roelker, Miss Anna E.
 Roesler, Edward
 Roethlisberger, Otto
 Rogers, Albert R.
 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
 Rollins, Max
 Ronalds, Miss Thora
 Roome, Howard LeC.
 Roos, M.
 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

- 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, S. M.
 Rosenthal, Sylvan E.
 Ross, F. J.
 Ross, Mrs. Henry C.
 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.
 Rottenberg, Mrs. Marcus
 Rounds, Arthur C.
 Rounds, Ralph Stowell, Jr.
 Rousmaniere, John E.
 Rowe, Wm. V.
 Rowland, Mrs. Chas. B.
 Rowland, Thos.
 Rowley, H. S.
 Roy, James Bryant
 Rubel, C. Adrian
 Rublee, Juliet Barrett
 Rubsam, C. William
 Rudolph Henry
 Ruhlender, Henry
 Rumbough, Stanley M.
 Rumely, Mrs. Edward A.
 Rumsey, Mrs. C. C.
 Runsheim, Joseph
 Runyon, Edward Wheelock
 Runyon, Walter Clark
 Ruperti, Justus
 Rupprecht, Frederick K.
 Rusch, Adolphe, Jr.
 Rusch, Henry A.
 Russek, Isidor H.
 Russell,
 Mrs. Charles Howland
 Russell, Mrs. Henry P.
 Russell, Marshall
 Russell, Thos. F., Jr.
 Rust, Edgar C.
 Rust, H. N.
 Rutherford, Livingston
 Ryan, Mother
 Ryle, Miss Julia
 Sabin, Charles H.
 Sachs, Arthur
 Sachs, Bernard, M.D.
 Sachs, Harry
 Sachs, Howard J.
 Sachs, Julius
 Sachs, Miss Miriam
 Sachs, Walter E.
 Sage, Mrs. Henry W.
 Sage, Mrs. William H.
 St. Damase, Sister
 St. Dominic, Sisters of
 St. Rodrigue, 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
 Sanders, John E.
 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
 Saul, Charles R.
 Saunders, Helen E.
 Saunders, William Lapham
 Sauter, Fred
 Saxl, Josef, M.D.
 Sayles, Robert W.
 Sayles, Mrs. Robert W.
 Saylor, James C.
 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.
 Schepp, Miss Florence
 Scheuer, Arnold L.
 Schey, Robert
 Schieffelin, W. J., Jr.
 Schieffelin, Wm. Jay
 Schiele, Lewis
 Schiffer, Jack W.
 Schimmel, Clarence C.
 Schippel, 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
Schmitt, George
Schmuck, Thomas K.
Schnakenberg, H. Ernest
Schnepel, Dr. George A.
Schniewind, Mrs. Elma M.
Schniewind, Henrich, Jr.
Schoenberg, Mrs. Herman B.
Scholle, A. H.
Scholle, Howard A.
Scholle, William D.
Schoonmaker, Herbert S.
Schowe, C. H.
Schramm, W.
Schuler, Charles
Schüllinger, J.
Schultz, Mrs. Albert B.
Schultz, Oswald R.
Schurman, Mrs. J. G., Jr.
Schuster, Lionel
Schuster, R.
Schwab, Mrs. H. C.
Schwartz, H. J.
Schwarz, Arthur A.
Schwarz, Dr. Herman
Schwarz, Max
Schwarzmann, Marguerite E.
Schweitzer, Mrs. H.
Schweitzer, Isidor S.
Schwerdtfeger, Otto M.
Schwob, Adolphe
Scofield, Miss Marion
Scott, Donald
Scott, Mrs. Frank Hall
Scott, Major R. T. M.
Scott, Mrs. Russell
Scott, William
Scovill, Margaret
Scoville, Herbert
Scoville, Robert
Scribner, Arthur H.
Scribner, Charles
Scripps, Miss E. B.
Scudder, Edward M.
Scudder, Hewlett
Scudder, Myron T.
Scudder, Willard
- Scully, C. Alison
Seabeck, Mrs. M. M.
Seabrook, H. H.
Seabury, Miss Eugenia R.
Seaman, Joseph H.
Seaman, Lloyd W.
Seaman, Louis L., M.D.
Searles, A. R.
Seasongood, Clifford
Seasongood, Edwin A.
Seaver, Benj. F.
Seckels, Richard
Seed, Miss R.
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
Sharlitt, Dr. Herman
Sharp, Mrs. W. G.
Shattuck, Frank G.
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.
Sheppard, Mrs. Charles E.
Sherman, Miss Corinne A.
Sherwin, Mrs. A. L.
Sherwood, Mrs. J. K. Ogden
Shibley, Fred. W.
Shields, William
Shiman, Abraham
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.
Siedenburg, Mrs. R.
Siegel, Benjamin
Siegel, Jacob
Siegel, William
Silberstein, Abraham
Sillcocks, Mrs. Henry
Silver, Rev. H. Percy, D.D.
Silverstein, Al. M.
Silverstein, Joshua
Simmons, Chas. H.
Simmons, Mrs. Elizabeth E.
Simon, Alfred L.
Simon, Franklin
Simon, Horatio S.
Simon, Leo L.
Simon, R. E.
Simonds, Louis B.
Simons, Miss Kate R.
Simons, Minot
Simonson, A.
Simonson, Miss Lucy C.
Simpson, Mrs. Ernest L.
Simpson, J. L.
Sinclair, Charles G., Jr.
Sinclair, Mrs. John
Sinkler, Wharton, Jr.

- Sinnigen, Mrs. W. C.
 Sisson, William W.
 Sittenfield, Milton M.
 Skeel, Mrs. H. Robertson
 Skeel, Mrs. Roswell, Jr.
 Skiddy, W. W.
 Skinner, Alburn E.
 Skinner, Milton P.
 Skinner, Norton
 Skinner, William
 Slade, Francis Louis
 Slade, Marshall P.
 Slater, Mrs. William A.
 Slaterry, George N., M.D.
 Slaughter, Rochester B.
 Sleigh, Arthur H.
 Sloan, Benson Bennett
 Sloan, Russell R.
 Sloan, Samuel
 Sloan, Mrs. Samuel
 Sloane, Henry T.
 Sloane, John
 Slocum, H. Jermain, Jr.
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