

**THE AMERICAN MUSEUM
OF NATURAL HISTORY**

**FIFTY-NINTH ANNUAL REPORT
FOR THE YEAR 1927**

BUILDING THE AMERICAN MUSEUM 1869-1927



“For the purpose of establishing and maintaining in said city a Museum and Library of Natural History; of encouraging and developing the study of Natural Science; of advancing the general knowledge of kindred subjects, and to that end of furnishing popular instruction.”

**FIFTY-NINTH ANNUAL REPORT OF THE TRUSTEES
FOR THE YEAR 1927 • THE AMERICAN
MUSEUM OF NATURAL HISTORY**

**THE CITY OF NEW YORK
Issued May 1, 1928**



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 1927, practically all of our scientific and administrative publications listed on the cover are printed in the American Museum Press, including *Natural History*.

CONTENTS

The American Museum of Natural History, vi; Founders and Incorporators of 1869, vi, History, vi; Permanent Endowment, vii; Form of Bequest, vii; Gifts and Bequests Exempt from Taxation, vii; Membership, Contributory and Honorary, vii; Endowment for General Purposes, 1884-1927, viii; Endowment for Special Purposes, 1890-1927, ix; Cash Gifts Exclusive of Endowment, 1869-1927, ix; Corresponding Foreign Membership, 1927-1933, xi; Institutions with which the Museum is Coöperating, xii; Free Public Institutions of New York, xii; Endowed Institutions of New York, xii; Institutions with which the Museum is Coöperating, xiii; Building the American Museum, xvii; Fifty-ninth Annual Report of the President, xvii; Administration of the Year 1928, xviii; Board of Trustees, xviii; Standing Committees of the Trustees, xix; Special Committees of the Trustees, xx; Department Committees, xx; Administrative Officers, xxii; Administrative Committees, xxiii; Scientific Staff, xxiv; Committees of the Scientific Staff, xxviii.

- I. Building the American Museum, 1869-1927, 1; Incorporated on April 6, 1869, as a Free Public Educational Institution, 3; The Reciprocal Contract of 1878 as to Collections and Building, 4; Financing of the Museum Building, 1869-1927, 5; Eleven Sections completed to 1928, 6; New Sections to be Erected before the Seventieth Anniversary, 7; Roosevelt Memorial, 8; Chapter 615, Laws of 1924, 8; The Completed Building Plans, 11; Progress of the Nineteen Building Sections and Key to Projected Arrangement of Exhibition Halls, 12; The African Hall—A Reality, 13; The South Asiatic Hall—Nearing Completion, 15; Groups for the North Asiatic Hall, 15; Central Bird Hall, 16; The Oceanic Hall, 17; Immediate Preparation Program, 18; Chief Expeditions of the Year 1927, 18; Valuable Gifts of the year 1927, 24; Need of \$5,707,831.69 Additional Endowment, 25; The Larger Divisions of Budget Expenditure, 26; Changes in the Board of Trustees, 27; Doctor Walter B. James, 28; Changes in the Scientific Staff, 29.

- II. Educational and Scientific Reports, 31; Department Reports, 31; Publications, 36; Preparation, 36.

Astronomy, 37; Amateur Astronomers Association, 37; Advisory Council, 37; New Exhibits in Pro-Astronomic Hall, 38; Astronomical Telescopes, 38; Gifts of Books, 39; Astronomical Missions, 39; Astronomical Lectures, 39; Newton Bicentenary, 39; Proposed Hall of Astronomy, 40; Advisory Committee, 40.

Minerals and Gems, 41; The Collection, 41; Research and Publication, 42; Notable Accessions, 42.

- Geology and Palæontology, 43; Invertebrate Palæontology, 43; Departmental and Staff Changes, 43; Temporary Appointments, 43; Regular Assistants, 44; Field Work, 44; Field Trips, 45; Editorial Work, 45; Publications, 46; Accessions, 46.
- Geology and Palæontology, 47; Extinct Vertebrates, 47; Dinosaur Hall, 47; Central Asiatic Collection, 47; Changes in Staff, 47; Research, 47; Field Work, 48; Departmental Work, 49; Acquisitions, 49.
- Lower Invertebrates, 50; Exhibition Halls, 50; Field Work, 51; Scientific Research and Publication, 51; Educational Use of the Darwin Hall, 52; Scientific Study Collections, 52; Noteworthy Accessions, 52.
- Insects and Spiders, 54; Building an Entomological Department, 54.
- Recent and Extinct Fishes, 56; New Hall of Fishes, 56; Research and Publication, 58.
- Reptiles and Amphibians, 60; The Year, 60; The New Hall of Reptiles, 60; Exhibition Work, 61; Exploration, 62; Research Results, 63; Chinese Fauna, 63; East Indian Fauna, 63; Amphibian Life Histories, 63; Anatomical Studies, 63; Local Fauna, 64; General Studies, 64; Popular Articles, 64; Miscellaneous, 64; Extra-Mural Activities, 64; Assistance to Students, 65; Additions to the Study Collections, 65; Future Outlook, 66.
- Birds, 67.
- Mammals, 70; Building Up a Department, 70; Expeditions, 70; Gifts, 74; Exhibition, 74; Publications, 76.
- Comparative and Human Anatomy, 77.
- Existing and extinct Races of Men, 81; Additions to the Collections, 81; Staff changes, 81; Expeditions, 82; Service to Public, 82; Care of Collections, 83; Handbooks, 83.
- Division of Asiatic Exploration and Research, 85.
- The Library, 88; Central Asiatic Expeditions (Publications), 90; The Museum and School Service, 91; Extent of School Service, 91; School Service Building, 93; New Activities, 93; Exhibition Hall Talks, 94; Practice-Teaching by Pupil-Teachers, 94; Aids for High Schools, 95; Bear Mountain Nature Trails and Trailside Museum, 95; School Nature League, 96; Coördinating Council on Nature Activities, 96; Circulating Nature Study Collections, 97; Distribution of Lantern Slides, 97; Five-Year Comparison Showing Growth in Circulation of Lantern Slides, 98; Distribution of Motion Pictures, 98; Four-Year Comparison Showing Growth in Circulation of Films, 100; Lectures, 100; Blind and Sight Conservation Classes, 101; Loans to Libraries, 101; Exhibition Hall Guidance, 102; Public Health, 102; Photographs, 103; Coöperation with Other Organizations, 103; Department Personnel, 104; Publications, 105; Acknowledgments, 105.

Public Information, 106; The Press, 106.

Accessions, 108; Astronomy, 108; Geology, 108; Mineralogy, 110; Vertebrate Palæontology, 114; Lower Invertebrates, 115; Entomology, 117; Ichthyology, 119; Herpetology, 121; Ornithology, 124; Mammalogy, 127; Comparative and Human Anatomy, 130; Anthropology, 131; Public Education, 134; Woods and Forestry, 136; Art, 136.

III. Administration, Operation and Building, 137; Attendance, 137; Statistics of Numbers Reached by the Museum and its Extension Educational System, 138; Construction and Maintenance in 1927, 138; General Construction, 138; Elimination of Fire Hazards, 140; Accident Prevention, 140; Future Building Plans, 141; New Restaurant, 141; Services of the Registrar, 143; Accessions, 144; Shipments, 144; Services of the Bursar, 145.

IV. Financial Administration, 147; Status of Endowment, 147; Bequests, 148; Ralph Winfred Tower Memorial Fund, 152; Contributions for Special Purposes, 153; Central Asiatic Expeditions Fund, 153; Emergency Exhibition and Education Fund No. 1, 154; Emergency Exhibition and Education Fund No. 2, 155; Louis Agassiz Fuertes Fund, 155; Contributions for General Purposes, 1927, 156.

Financial Statement, 1927, 157.

V. Membership, 173; New Members, 175; Deceased Members, 177.

List of Members, 179; Founders, 179; Endowment Class, 179; Benefactors, 179; Associate Founders, 180; Associate Benefactors, 180; Patrons, 181; Honorary Fellows, 185; Fellows, 185; Honorary Life Members, 187; Life Members, 188; Sustaining Members, 200; Annual Members, 203; Associate Members, 236.

VI. Municipal and State Relationship, 263; Act of Incorporation, 263; Charter of 1869, 263; Amendment to the Greater New York Charter, 265; Contract with the Department of Parks, 266; Constitution, 272; By-Laws, 278; Legislation, 281.

VII. Fifteenth Annual Report of the Pension Board, 293; Financial Statement of the Pension Fund, 304.

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 \$12,162,549.20 (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 \$7,800,000 is needed at present.

FORM OF BEQUEST

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

.....

.....

GIFTS AND BEQUESTS EXEMPT FROM TAXATION

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

MEMBERSHIP, CONTRIBUTORY AND HONORARY

The Classes of Contributory Membership are:

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

MEMBERS are entitled to the following privileges:

An Annual Pass admitting to 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, 1884-1927

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

1886	Vanderbilt, William H.....	\$50,000.00
1890	Constable, James M.....	25,000.00
1890	Dodge, W. E. (No. 2).....	10,000.00
1890-1904	Jesup, Morris K.....	225,000.00
1890-1910	Mills, D. O.....	125,000.00
1890-1901	Ottendorfer, Oswald	30,000.00
1890-1895	Pyne, Percy R. (No. 1).....	45,000.00
1890	Stuart, Mary (Mrs. R. L.).....	50,000.00
1890	Vanderbilt, C.	25,000.00
1891	Auchincloss, Hugh	10,223.56
1899-1910	Trevor, Emily N. (Mrs. John B.).....	30,098.90
1900	Fiske, Martha T. (Mrs. Josiah M.).....	10,000.00
1904	Havemeyer, H. O.	25,000.00
1904	Rockefeller, William	10,000.00
1907	Davis, Benjamin P.	22,799.25
1909	Sands, William R.	10,000.00
1911	Tilford, Charles E.	25,070.37
1913	Iden, Henry	10,000.00
1916	Bondy, Emil C.....	10,000.00
1917	Kitching, Frank W.....	10,043.00
1919	Douglas, James	100,000.00
1920	Bridgham, Fanny (Mrs. Samuel W.).....	15,000.00
1920	Juilliard, A. D.....	100,000.00
1920	Juilliard, Helen C. (Mrs. A. D.).....	50,000.00
1920-1926	Sage, Margaret Olivia (Mrs. Russell).....	1,357,805.09
1921	Combe, Louisa (Mrs. William).....	42,172.33
1921-1926	Rhineland, Charles E.....	10,478.33
1922	Baker, George F.....	250,000.00
1922	Eno, Amos F.....	246,033.33
1922-1923	Harkness, Edward S.....	100,000.00
1922	Iselin, Adrian	10,000.00
1922	Rockefeller, John D., Jr.....	1,025,000.00
1923	James, Arthur Curtiss.....	26,750.00
1923	Pratt, George D.....	50,000.00
1923	Warburg, Felix M.....	19,000.00
1924-1925	Sloane, William	50,000.00
1925	Huntington, Arabella D. (Mrs. C. P.).....	50,000.00
1925	Watson, Emily A.....	10,010.52
1926-1927	Fosdick, Wood	900,728.69
1927	Cook, Frances Julia (Mrs. Robert H.).....	20,000.00
1884-1927	58 contributors less than \$10,000.....	128,780.57
1890-1926	Patronship Fees	28,000.00
1890-1926	Fellowship Fees	9,000.00
1912-1926	Life Membership Fees	81,100.00
		\$5,438,093.94

ENDOWMENT FOR SPECIAL PURPOSES, 1890-1927

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
1926-1927	63 contributors: <i>Ralph Winfred Tower Memorial Fund</i>	23,997.00
Total Endowment December 31, 1927		\$11,979,278.44

CASH GIFTS EXCLUSIVE OF ENDOWMENT, 1869-1927

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

1869-1896	Colgate, Robert	\$11,975.00
1869-1903	Constable, James M.	38,208.37
1869-1899	Dodge, W. E. (No. 2)	25,002.01
1869-1899	Iselin, Adrian	21,550.00
1869-1908	Jesup, Morris K.	195,652.37
1869-1913	Morgan, J. Pierpont	326,271.75
1869-1891	Stuart, Robert L.	24,953.11
1872-1895	Pyne, Percy R. (No. 1)	17,840.00
1872-1906	Trevor, John B. (No. 1)	10,175.02
1874-1921	Lanier, Charles	28,500.00
1876-1916	Choate, Joseph H.	14,725.00
1877-1885	Wolfe, Catherine L.	15,586.80
1878-1899	Vanderbilt, Cornelius	29,300.00
1880-1903	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
1891-1927	Osborn, Henry Fairfield	72,795.06
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		\$998,936.26

Cash Gifts Exclusive of Endowment, 1869-1927 (Continued)

Brought forward	\$998,936.26
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
1901-1927 Huntington, Archer M.....	97,758.94
1901-1927 James, Arthur Curtiss.....	90,400.00
1901-1927 Pyne, Percy R. (No. 2).....	53,343.79
1902-1912 Jesup, Maria DeWitt (Mrs. Morris K.).....	83,466.52
1904-1926 Dodge, Cleveland H.....	113,180.26
1907-1927 Morgan, J. P., Jr.....	253,442.47
1908-1927 Iselin, Adrian, Jr.....	26,600.00
1908-1925 Trevor, John B. (No. 2).....	20,145.06
1910-1919 Douglas, James	110,500.00
1910-1927 Mills, Ogden	123,699.65
1910-1927 Warburg, Felix M.....	109,000.00
1911-1922 Cuyler, Thomas DeWitt.....	14,750.00
1911-1926 James, Walter B.....	11,522.54
1913-1927 Brewster, Frederick F.....	35,842.59
1913-1927 University of Illinois	10,625.00
1914-1927 Baker, George F.....	146,100.00
1914-1918 Frick, H. C.....	16,875.00
1915-1927 Dean, Bashford	15,100.97
1915-1927 Ford, James B.....	12,951.00
1915-1927 Frick, Childs	130,893.83
1916-1924 Davison, Henry P.....	20,500.00
1920-1926 Douglas, Walter	10,395.06
1920-1927 Frick, Adelaide (Mrs. H. C.).....	32,000.00
1920-1927 Whitney, H. P.....	150,000.00
1921-1926 American Asiatic Association and Asia.....	30,000.00
1921-1927 Baker, George F., Jr.....	36,000.00
1921-1927 Rockefeller, John D., Jr.....	62,500.00
1922-1926 Pomeroy, Daniel E.....	29,849.78
1922-1926 Pratt, George D.....	17,987.65
1923-1927 Vernay, Arthur S.....	25,503.00
1924-1926 Field Museum of Natural History.....	15,000.00
1925-1927 Carnegie Corporation of New York.....	45,000.00
1925-1927 Sage, H. W.....	23,500.00
1925-1927 Taylor, Irving K.....	16,439.41
1926-1926 Burden, Mr. and Mrs. James A.....	10,000.00
1926-1926 Eastman, George	100,000.00
1926-1926 Williams, Harrison	10,000.00
1927-1927 Stone, Julius F.....	10,000.00
1927-1927 Wentz, Daniel B.....	25,000.00
1927-1927 Cook, Frances Julia	20,000.00

Total cash gifts, \$10,000 and upward, 1869-1927. \$3,260,952.53

CORRESPONDING FOREIGN MEMBERSHIP*

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

(Limited to 25)

- | | |
|--|--|
| DR. CHARLES ANDERSON,
Director of the Australian Museum,
College Street, Sydney,
N. S. W., Australia | DR. ARCHIBALD G. HUNTSMAN,
Professor of Biology, University
of Toronto, Ontario, Canada |
| DR. J. G. ANDERSSON,
Statens Historiska Museum, Stockholm,
Sweden | PROFESSOR ALFRED LACROIX,
Professor of Mineralogy, Musée
National d'Histoire Naturelle,
Paris, France |
| MR. E. C. ANDREWS, M. A.,
Government Zoologist, Geological
Survey of New South Wales,
Sydney, N. S. W., Australia | DR. ADOLPHO LUTZ,
Instituto Oswaldo Cruz, Rio de
Janeiro, Brazil |
| DR. ROBERT BROOM,
Douglas, Union of South Africa | MISS BERTHA LUTZ,
Rio de Janeiro, Brazil |
| DR. CHARLES CHILTON,
Professor of Biology, Canterbury
College, Christchurch, New Zealand | HERMANG APOLINAR MARIA,
Instituto de La Salle, Bogotá,
Colombia |
| DR. ROBERTO DABBENE,
Museo Nacional de Historia Natural,
Buenos Aires, Argentina | HERMANG NICEFORO MARIA,
Instituto de La Salle, Colombia |
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London, England |
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College, London, England |
| DR. HANS GEYER,
Regensburg, Germany | PROFESSOR W. BALDWIN SPENCER,
National Museum of Victoria,
Melbourne, Australia |
| DR. VICTOR GOLDSCHMIDT,
Professor of Mineralogy, University
of Heidelberg, Germany | DR. SHIGEO TANAKA,
Professor of Zoology, Imperial
University of Tokio, Japan |
| FATHER J. G. HAGEN,
Director, Vatican Observatory
(Specola Vaticana), Rome, Italy | PROFESSOR FRIEDRICH VON HUENE,
Professor of Geology, University
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
BIOLOGICAL SURVEY, UNITED STATES DEPARTMENT OF AGRICULTURE, Washington, D. C.
BOMBAY NATURAL HISTORY SOCIETY, Bombay, India
BRITISH MUSEUM (Natural History), London, England
BUFFALO SOCIETY OF NATURAL SCIENCES, Buffalo, New York.
BUSSEY INSTITUTION, HARVARD UNIVERSITY, Forest Hills (Boston), Mass.

CALIFORNIA ACADEMY OF SCIENCES, San Francisco, California
CANTERBURY MUSEUM, Christchurch, New Zealand
CARNEGIE MUSEUM, Pittsburgh, Pa.
CHARLESTON MUSEUM, Charleston, South Carolina
CLEVELAND MUSEUM OF NATURAL HISTORY, Cleveland, Ohio
COLORADO MUSEUM OF NATURAL HISTORY, Denver, Colorado
CORNELL UNIVERSITY, Ithaca, New York

DAVENPORT PUBLIC MUSEUM, Davenport, Iowa
DURBAN MUSEUM AND ART GALLERY, Natal, South Africa

FIELD MUSEUM OF NATURAL HISTORY, Chicago, Illinois
FLORIDA GEOLOGICAL SURVEY MUSEUM, Tallahassee, Florida
FLORIDA STATE MUSEUM, Gainesville, Florida

GALTON SOCIETY
GEOLOGICAL INSTITUTE, Turin, Italy
GEOLOGICAL INSTITUTE, UNIVERSITY OF PADUA, Padua, Italy
GEOLOGICAL MUSEUM, UNIVERSITY OF NEBRASKA, Lincoln, Nebraska
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THE AMERICAN MUSEUM IDEAL, report of the year 1921, issued in 1922.

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

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

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

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

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

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

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**BUILDING
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1869-1927**

**FIFTY-NINTH ANNUAL REPORT OF
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FOR THE YEAR 1927**

**SCIENTIFIC AND ADMINISTRATIVE
STAFFS OF THE YEAR 1928
REPORTS OF THE PRESIDENT AND
OTHER OFFICERS
MEMBERSHIP, HONORARY AND
CONTRIBUTING
MUNICIPAL AND STATE—
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CHARLES H. TOWNSEND, Sc.D.	H. F. BEERS
WAYNE M. FAUNCE, Sc.B.	GEORGE H. SHERWOOD, A.M. <i>ex-officio</i>

Special Advisers in Preparation

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

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



DOCTOR WALTER BELKNAP JAMES

1858-1927

Trustee of the American Museum from 1911 to 1927

BUILDING THE AMERICAN MUSEUM

1869-1927

PRESIDENT HENRY FAIRFIELD OSBORN

And David said to Solomon his son, "Be strong and of good courage, and do it; fear not, nor be dismayed: for the Lord God, *even* my God, *will be* with thee; he will not fail thee, nor forsake thee, until thou hast finished all the work for the service of the house of the Lord."—*Chronicles I, XXVIII.*

In 1869, Albert S. Bickmore, a young naturalist of the State of Maine, projected this great Museum. First advised by Sir Richard Owen, Director of the British Museum, the plans for the building grew by the year 1875 into the titanic dimensions plotted by Frederick Law Olmsted, designer of Central Park.

The approaching sixtieth anniversary of our foundation, on April 6, 1929, will witness the construction of fourteen out of the twenty-one building sections planned by Professor Albert S. Bickmore and Mr. Frederick Law Olmsted. With strength and courage, the seventieth anniversary, April 6, 1939, will witness the completion of the Museum building according to the plan set forth in this Report.

THE Fifty-ninth Annual Report is devoted to the building of the American Museum of Natural History from the Charter year 1869 to the present year 1928. It is remarkable that the official Olmsted twenty-one-section ground plan of the year 1875, projected on a scale which seemed stupendous and almost fantastic at the time, in area proves to be none too large for the future City of New York. It is also fortunate that the great 800-foot square with its intersecting cross buildings adapts itself to the wonderful development of Natural History and related physical and astronomical sciences since the year 1869.

Meanwhile, the building sections which we expect to see completed by the year 1939, the seventieth anniversary of the founding of the Museum, will not far from equal in estimated cubage the original twenty-one sections projected by Frederick Law Olmsted, as shown in Figure 1 of this Report.

New York had in the year 1869 no Museum of any kind, either for art or for natural history, such as were to be found in Boston, Philadelphia, Chicago, Washington and in all the capital cities of Europe. Young Theodore Roosevelt built a small museum on the back porch of his house. His father in 1869 enlisted in the movement to start the American Museum of Natural History, and a

year later the Metropolitan Museum of Art followed. After fifty-eight years of financial, political, administrative and educational struggles, these sister institutions have reached their present high rank. Art and natural history collections which in 1869 were to be seen only in the houses of the wealthy are now within reach of people of every class in the City of New York, while the educational influence of these institutions spreads to all parts of the United States and to every city in the world.

Besides his cooperation in the American Museum, the President has had the privilege of working with the public-spirited and munificent group of men who founded the Zoological Park in 1895 and of taking over the management of the New York Aquarium in 1902. The intense public concern and the unanimous interest and approval of the people of New York, young and old, are shown by the attendance figures of the year 1927, a number which exceeds the entire population of the City of New York:

Visitors to the New York Zoological Park, The Bronx.....	2,750,704
Visitors to the New York Aquarium, Battery Park.....	2,129,305
Visitors to the American Museum of Natural History.....	2,292,876
<hr/>	
Grand Total Attendance in 1927.....	7,172,885

Despite its phenomenal growth in population and wealth, New York, in its museum buildings, is still relatively far behind Paris, London, Vienna, Berlin, Moscow, Leningrad and even Peking. The Russian capitals of Moscow and Leningrad, also Peking, have recently followed the enlightened example of Paris in 1792-1800, in converting the palaces of kings, emperors and princes into public educational museums. In these museums the imperial art and natural history treasures are now devoted to the education of the masses under the direction of state teachers. There are said to be several miles of free museum galleries in Russia. In Peking, the President of the American Museum in 1923 was invited to plan a natural history museum within the sacred imperial palace now the property of the Chinese Government!

What has been accomplished by revolution and confiscation in Paris, Leningrad, Moscow and Peking has come to pass in New York through voluntary gift to the public of private collections,

together with financial support by endowment, without precedent in the history of civilization.

In brief, the free public educational use of museums under public and private government is now universal in every part of the world, and museums are considered an essential part of public education of young and old.

On the completion of thirty-seven years of continuous service to the City of New York as Curator, Trustee, Assistant to the President, Chairman of the Executive Committee, and President, of The American Museum of Natural History, I desire to set forth the following concise financial and building history of the Museum from 1869 to December 31, 1927, referring for details to the first Annual Report written in 1870 by Joseph H. Choate and to the fifty-seven successive reports to the Department of Parks, ending with the Fifty-eighth Annual Report of the President, entitled: *The American Museum and School Service*, pages 259-284.

INCORPORATED ON APRIL 6, 1869, AS A FREE PUBLIC EDUCATIONAL INSTITUTION

Under Andrew H. Green, father of Greater New York, the American Museum was incorporated:

"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."

Under Chapter 290 of the Laws of 1871, the City of New York set aside the entire Manhattan Square for the Museum, and on September 17, 1875, the Comptroller and the Department of Parks officially approved the design of Frederick Law Olmsted, and Section 1 out of 21 Sections of the original Olmsted Plan was constructed and opened by the President of the United States on June 2, 1874.

In a period of 32 years, between 1874 and 1906, eight Museum Sections out of the 21 planned by Olmsted were constructed under

the original State Charter of 1869, *at the rate of a Section every four years, so that building kept pace with the gifts of citizens for this period.*

THE RECIPROCAL CONTRACT OF 1878 AS TO COLLECTIONS AND BUILDING

An extremely important contract was drawn up in 1878 between the Trustees and the City of New York, through the Department of Parks, ratified by both bodies, and recorded February 16, 1878, at nine o'clock A. M. Since the days of the first known museum and library in the City of Alexandria, 332 B.C., this contract between the City of New York and the American Museum is the most advantageous that has been entered into by any municipality. Its main educational provisions are:

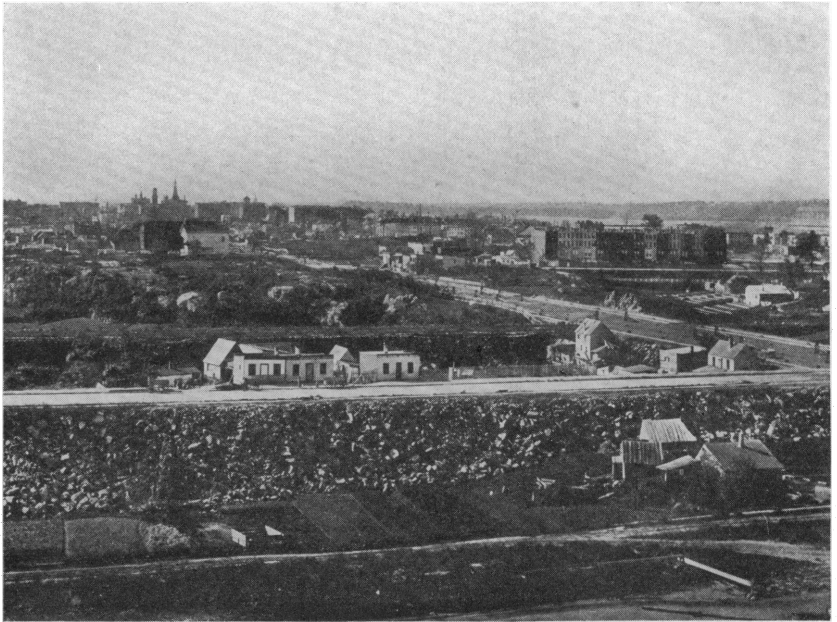
That the City shall establish, build and maintain; that the Trustees shall transfer to these buildings its museum, library and collections, and apparatus, to which all professors and teachers of the public schools of the City of New York, or other institutions of learning in said city, in which instruction 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.

The constructive educational purpose of this contract is reiterated and confirmed in the Greater New York Charter, as amended in 1921 by the Legislature as follows:

The city of New York shall not, except as hereinafter provided, expend any part of the proceeds of sales of corporate stock or serial bonds for other than revenue-producing improvements, except for the erection of school buildings and the acquisition of sites therefor and the acquisition of houses for school purposes, and except for the erection and equipment of the buildings of the American Museum of Natural History which by charter and contract with the city is an adjunct of the educational system of the city, . . .



THE ARSENAL BUILDING, CENTRAL PARK, NEW YORK CITY
First Home of The American Museum of Natural History, 1869 to 1877

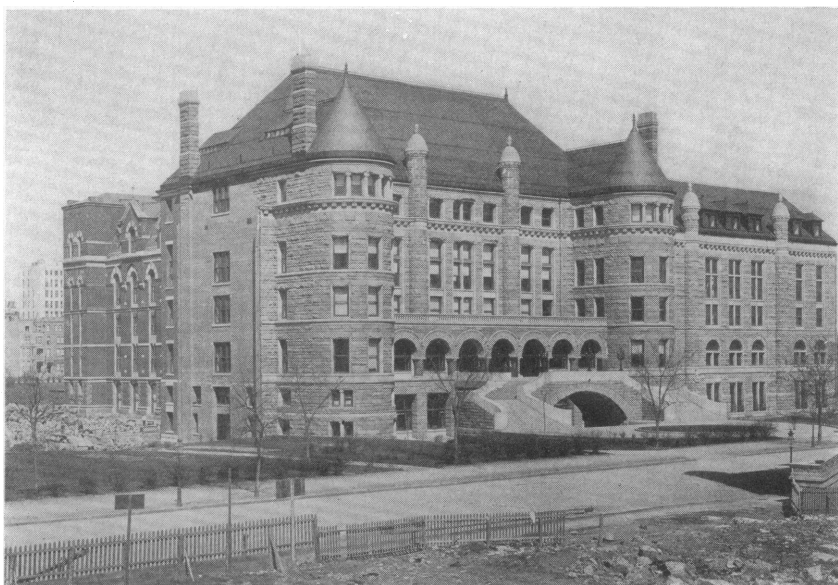


PANORAMIC VIEW, SOUTH AND WEST OF THE MUSEUM
The Intersection of Columbus Avenue and Seventy-seventh Street, About 1878



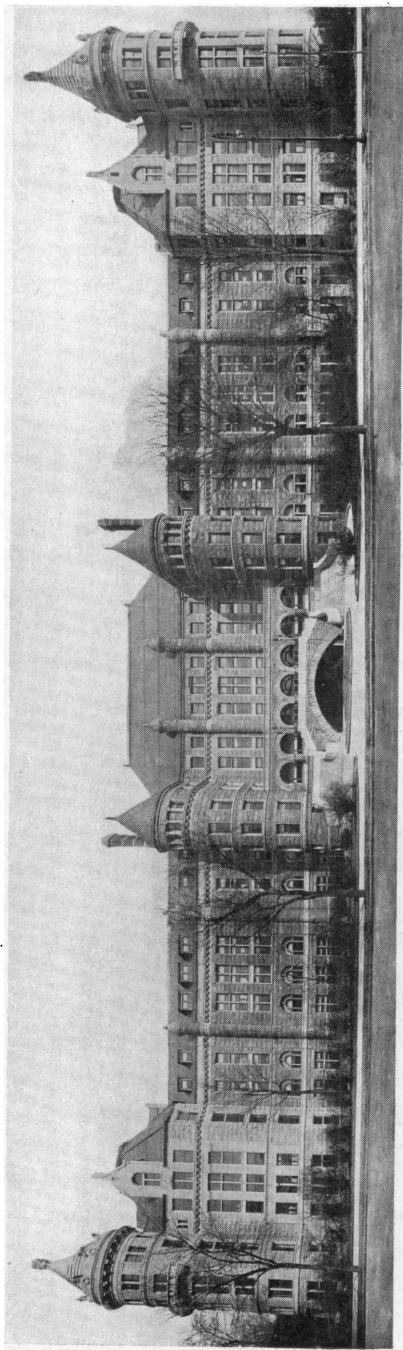
BICKMORE SECTION

First Section of the American Museum Building, Completed in 1877

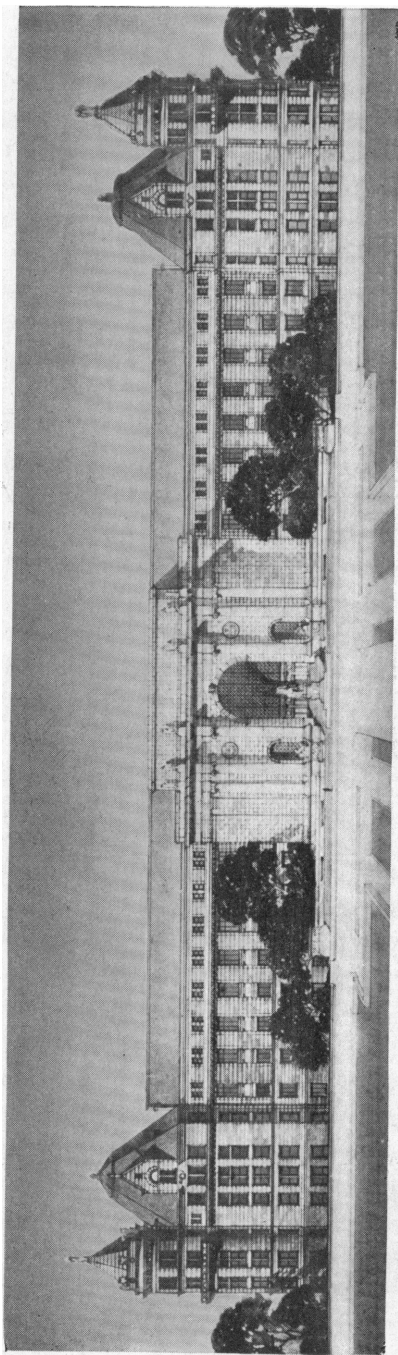


CENTRAL SECTION AND EAST WING (Sections 2 and 3)

1895

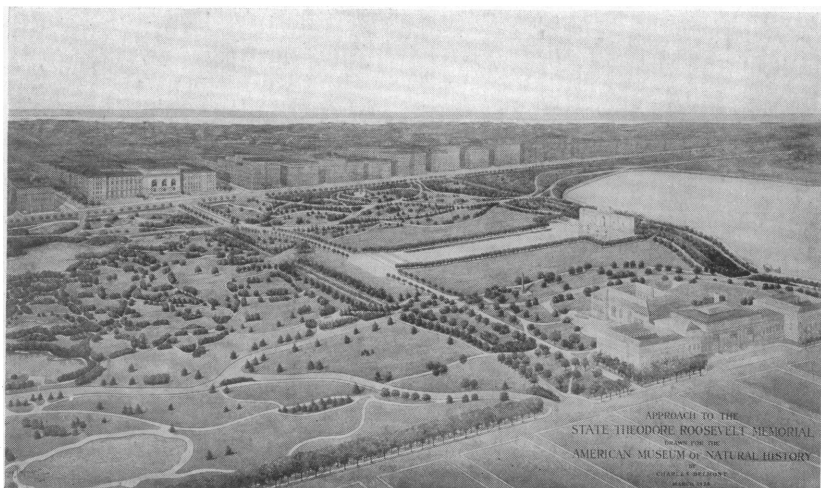


SOUTH FAÇADE OF THE AMERICAN MUSEUM
1900

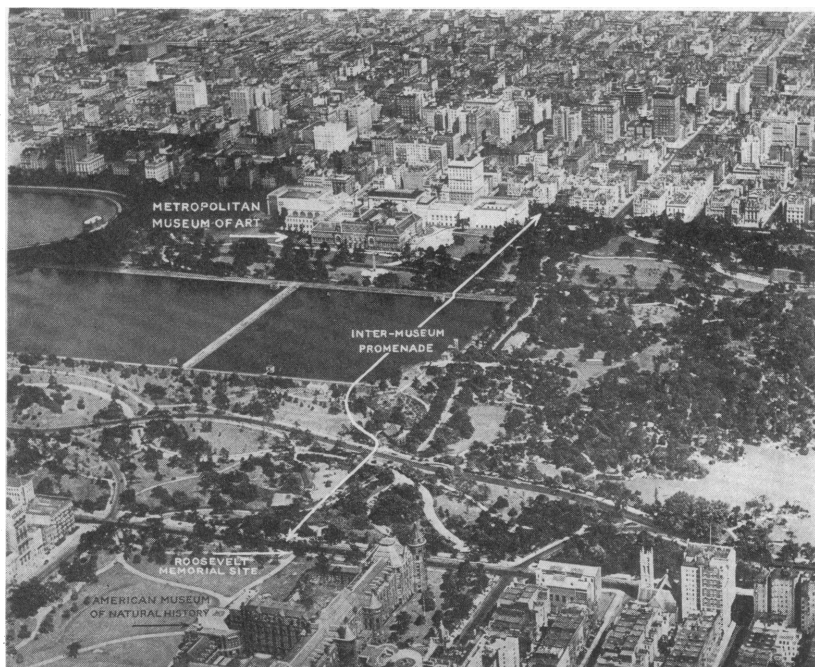


PROPOSED EAST FAÇADE, FACING CENTRAL PARK
1928

Proposed New York State Roosevelt Memorial Building in the Center, JOHN RUSSELL POPE, *Architect*



SKETCH OF PROPOSED INTERMUSEUM PROMENADE
Connecting the American and Metropolitan Museums
1924



Fairchild Aerial Surveys, Inc., N. Y. C.

AERIAL VIEW OF CENTRAL PARK
White Line Indicates Route of Proposed Intermuseum Promenade
1928

This completes the brief legal history of the American Museum as a Free Public Educational Institution by a series of steps which may be epitomized as follows:

Since 1869, the cooperation of the City of New York and The American Museum of Natural History has been secured by legislative Charters, by a series of Contracts, also by verbal Agreements.

1869—Chartered as a free Public Educational Institution.

1875—City sets aside Manhattan Square and plans twenty-one-section building, estimated at \$14,700,000, according to 1875 building costs.

1878—Andrew H. Green and Joseph H. Choate prepare a Contract as to Building and Maintenance by City, and Gifts of Collections, Library and Apparatus by Trustees.

By the 1878 Contract, citizens present, up to the year 1928, Collections, Library and Apparatus to a total value of \$23,000,000.

By the 1878 Contract, City builds, up to the year 1924, eleven sections at a total cost of \$8,390,599.68; ten sections remain to fill the City plan of 1875.

1921—Charter amended and Museum placed on the same basis as Public Schools in Bond Issues for future building.

1919—Roosevelt Memorial started by verbal Agreement of the Governor of the State, the Mayor, and the Comptroller, with President Osborn.

1928—January 9—Board of Estimate considers estimates of African Hall (Section 13), and Power and Service Building (Section 17), and plans of Roosevelt Memorial (Section 12), and suggests to President Osborn that these three buildings ought to be constructed concurrently.

1928—February 7—Governor Smith reaffirms by letter his support of the Roosevelt Memorial and considers that nothing should stand in the way of its construction in 1929.

FINANCING OF THE MUSEUM BUILDING, 1869-1927

In the Charter, as amended in 1921, the American Museum Building is placed on precisely the same financial basis as School Buildings in the City of New York. The Act covering this amendment was suggested in the Committee of the Whole of the Board of Estimate and Apportionment in 1921, at which time

President Osborn represented the Museum. It was duly adopted by the Legislature, approved by the Mayor and became a law under which building appropriations were to be financed from the date May 6, 1921.

This amendment to the Charter proved to be a turning point in the building of the American Museum, for between 1906, when Section 8 (European) was begun, and 1922, when Section 9 (Asiatic) was begun, *sixteen years had elapsed, during which the Museum collections had trebled, while no buildings were added.*

Consequently, the City of New York was sixteen years behind its own official building program of 1875. The overcrowded condition of the Museum was so serious that just before the World War (1914) the President made a great effort to build a new section by individual subscription. This effort ended abruptly when the World War began.

Immediately after May 6, 1921, plans and estimates for Sections 9 and 10 were prepared, and an appropriation of \$1,500,000 was made by the Board of Estimate and Apportionment on December 28, 1921. Section 11, the School Service Building, was finished in 1927, at a final cost of \$881,800, and is to be opened to the public on January 17, 1928.

To recapitulate—the financial history of the Museum Building from 1869 to 1927, a period of fifty-eight years, is as follows:

ELEVEN SECTIONS COMPLETED TO 1928

	Approximate Cost
Section 1, BICKMORE, 1874-1877	\$700,000.00
Section 2, MEMORIAL, 1890-1891	800,000.00
Section 3, NORTH AMERICAN, 1894-1895	600,000.00
Section 4, SOUTH AMERICAN, 1895-1897	511,775.00
Section 5, NORTH ASIATIC, 1897-1899	529,002.50
Section 6, POLYNESIAN, 1897-1899	417,632.50
Section 7, AUDITORIUM, 1899-1900	108,900.00
Section 8, EUROPEAN, 1906-1908	511,090.63
Non-Building Interval, 1906-1922	
Section 9, ASIATIC, 1922-1924	1,500,000.00
Section 10, OCEANIC, 1922-1924	
Section 11, EDUCATION, 1924-1926	881,800.00
	<hr/>
	\$6,560,200.63
Sections 1-11, Supplementary equipment, 1900-1926	1,830,399.05
	<hr/>
Total cost of Museum Building from City Appropriations, 1869-1927	\$8,390,599.68

During the 25-year period (1902-1927), the City of New York, from its relatively small and inconspicuous position, bounded forward to become the largest, most populous and richest City in the entire world. During this same period:

Cash gifts, bequests and endowment flowed into the Museum to the amount of.....	\$20,000,000
Expended in the construction of Sections 9 and 10 for the reception and care of these collections.....	1,500,000

The result of this retarded building and unprecedented inflow of gifts, not only from citizens of New York but from almost every state in the Union, as well as from many foreign countries, is that the American Museum is now congested from basement to roof with study collections and with the most superb exhibition collections ever assembled, especially from all parts of the continents of Asia and Africa. It is for the free public educational preparation and display of these collections that two new Building Sections are immediately and urgently needed, namely:

Section 13, AFRICAN HALL	\$1,350,000
Section 17, POWER AND SERVICE BUILDING.....	900,000
	<hr/> \$2,250,000

NEW SECTIONS TO BE ERECTED BEFORE THE SEVENTIETH ANNIVERSARY

Section 13, AFRICAN	\$1,350,000.00
Section 17, POWER AND SERVICE.....	900,000.00
Section 12, ROOSEVELT*	3,000,000.00
Section 7, ASTRONOMIC†	1,689,525.00
Section 15, AUSTRALIAN	1,006,549.00
Section 14, MIDDLE AMERICAN	2,306,592.00
Section 16, LECTURE AMPHITHEATRE	2,994,529.00
Section 19, SOUTH OCEANIC	1,006,549.00
Section 18, PREPARATION AND STORAGE.....	500,000.00
Estimated cost of equipping and casing of Sections 13, 17, 12, 7, 15, 14, 16, 19, 18.....	<hr/> 1,250,000.00

Estimated cost of erecting and equipping Sections 13, 17, 12, 7, 15, 14, 16, 19, 18.....	\$16,003,744.00
--	-----------------

Thus, the total actual and estimated cost of the American Museum Building, 1869-1939, as at present planned, will be,

1869-1927, 11 Sections Completed and Equipped.....	\$8,390,599.68
1928-1939, 9 Sections to be Constructed.....	16,003,744.00
	<hr/>
Total actual and estimated cost of the 19-section† American Museum Building as at present planned.....	\$24,394,343.68

*To be erected by the State of New York.

†Astronomic Hall to replace present auditorium.

The less than half completed American Museum building of the year 1927 is by far the most economic and effective public building construction in the City of New York, but it is wholly inadequate in space. Building costs have doubled or trebled since the year 1875, and Section 13, AFRICAN HALL, now urgently required, is estimated at \$1,350,000 as compared with the \$700,000 cost of Section 1. The Power and Service Building will cost \$900,000.

ROOSEVELT MEMORIAL

TO BE ERECTED BY THE STATE OF NEW YORK

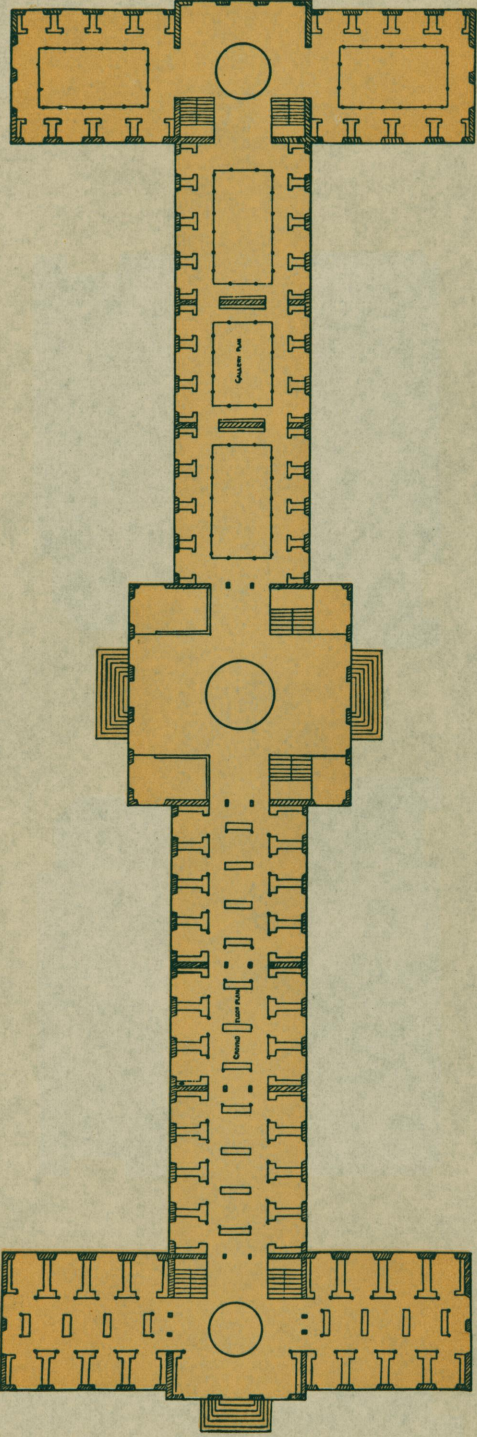
Eight years ago, in December, 1919, began the Roosevelt Memorial movement which will probably culminate in the year 1929 with an appropriation by the State of New York to erect a magnificent new entrance hall to the museum at the intersection of Seventy-ninth Street and Central Park West, at an estimated cost of \$3,000,000 in addition to the \$250,000 already appropriated by the State for the preparation of the detailed plans. At a very critical time for this great project, when a concerted attempt was made to transfer the Memorial from Theodore Roosevelt's birthplace to Albany, a public hearing was held in the State Capitol at which the relative claims of the two cities were presented. The Roosevelt Memorial Commission divided on the question, and the situation was saved by the decisive action of Senator James J. Walker, now Mayor of the City of New York, resulting in the following action of the Legislature:

CHAPTER 615, LAWS OF 1924

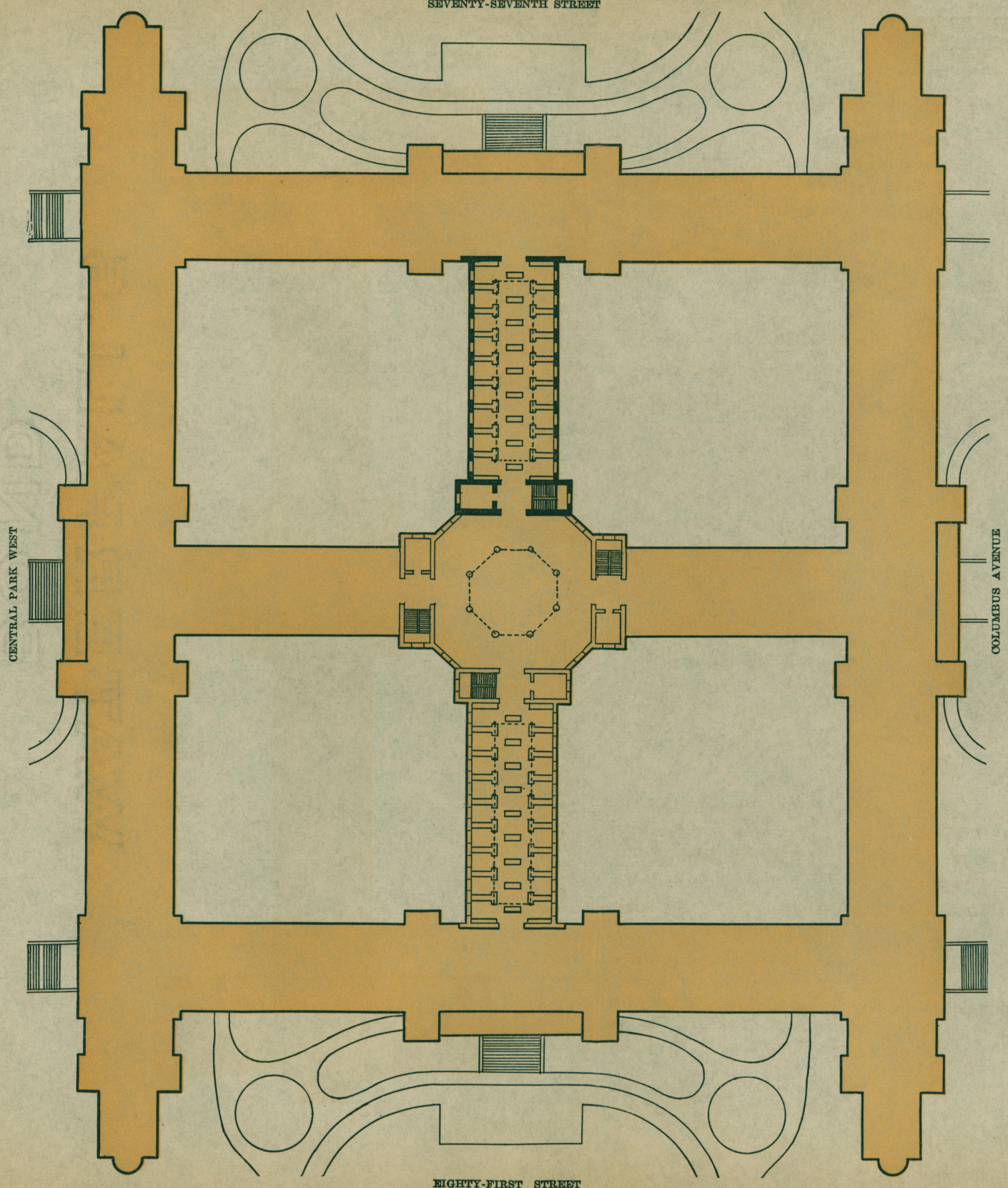
AN ACT providing for the construction of a free public education building as a memorial to Theodore Roosevelt, and making an appropriation for expenses therefor to be incurred in the year commencing July first, nineteen hundred and twenty-four.

The People of the State of New York, represented in Senate and Assembly, do enact as follows:

Section 1. As a tribute to the memory of Theodore Roosevelt there shall be erected, at a cost to the state of not exceeding two million five hundred thousand dollars, in the city of New York upon a site provided by the authorities of such city, adjacent to the American Museum of Natural History in such city, an education building, chiefly for the benefit



THE ORIGINAL PLAN FOR A MUSEUM OF NATURAL HISTORY IN NEW YORK
 Drawn by Albert S. Bickmore in 1863 After Conference with Sir Richard Owen, Director
 of the British Museum (Natural History), South Kensington



THE AMERICAN MUSEUM OF NATURAL HISTORY
 Olmsted Plan of Manhattan Square, 1875

of the youth of the state, which shall hereafter be known as and become the New York State Roosevelt Memorial. Such city is hereby authorized to dedicate to the state the site therefor.

On the passage of this Act, Governor Smith appointed a Board of Trustees, with Henry Fairfield Osborn as Chairman. This Board immediately laid down requirements for a competition for plans, according to the law of the State. The result of this competition of eight architectural firms in various parts of the State was the unanimous selection by the Trustees of the plans of John Russell Pope of New York, on June 2, 1925. Immediately after this choice was made, Chairman Osborn, with the cooperation of the other Members of the Plans Committee, Messrs. Chauncey J. Hamlin and Sullivan W. Jones, began a detailed study of the plans, which resulted in an entire modification of the original design of the interior of the Memorial, also in numerous changes on every floor level, to better adapt the building to the reception of large crowds of people, to the care and comfort of visitors from upper parts of the State, to the educational service of the State of New York and to the contiguous exhibition halls, south, west and north of the Memorial. The Chief Engineer of the Board of Transportation in charge of the new Central Park West subway cooperated by modifying the original station plans providing a convenient entrance from the Memorial to the new subway system of the City. All these matters are fully reported upon in the successive reports of Chairman Osborn to the State Legislature.*

It would be impossible to convey to the readers of this Report any idea of the time and labor which have been devoted to the financing and to the design of this Memorial, but some notion may be gained from the following epitome of the successive steps in the history of the Roosevelt Memorial movement up to the present time:

Theodore Roosevelt died on January 6, 1919, honored with nation-wide and world-wide respect. Two great American newspapers, *The World* and *The New York Times*, independently advocated a memorial connected with the American Museum of Natural History. The movement has at all

*First Annual Report of the Board of Trustees of the New York State Roosevelt Memorial, 1925.

Second Annual Report of the Board of Trustees of the New York State Roosevelt Memorial, 1926.

Third Annual Report of the Board of Trustees of the New York State Roosevelt Memorial, 1927.

times been non-partisan. The project of the memorial in the City of New York was successively approved by Mayor Hylan, Comptroller Craig and Governor Smith, by Judge Morgan J. O'Brien and Charles F. Murphy, as well as by the leading newspapers of the Democratic Party in New York and in Albany.

On December 9, 1919, Governor Smith advised President Osborn that this was a matter for legislative decision and action. In 1920 the State Legislature passed "An act creating a commission to investigate and report on the proposed Roosevelt memorials, and making an appropriation therefor." The Legislature of 1924 passed "An act providing for the construction of a free public education building as a Memorial to Theodore Roosevelt, making an appropriation for expenses therefor to be incurred in the year commencing July first, nineteen hundred twenty-four," and on May 5, 1924, enacted a law which provides that as a tribute to the memory of Theodore Roosevelt, there shall be erected a Roosevelt Memorial at a cost to the State not exceeding \$2,500,000.

In 1925 the Trustees invited a competition of the leading architects of the State of New York, in which competition John Russell Pope of the City of New York was awarded the prize. On July 28, 1926, the plans and specifications were ready for the award of the contract. On December 22, 1926, the model of the Memorial was completed. On March 31, 1927, Chapter 615, Laws of 1924, was amended by Chapter 549, Laws of 1927, of the Legislature, and provides among other enactments that the Trustees in office when this Act takes effect shall continue in office as a temporary Board of Trustees, and that upon completion of such building and its acceptance by resolution of the Board of Estimate and Apportionment of the City of New York, it shall be maintained by and under the supervision and control of such city.

This Act of the Legislature, suggested by Governor Smith, is extremely important because on completion the State Memorial Building passes entirely under the control of the City of New York and the American Museum of Natural History like all other parts of our building. This will greatly simplify the administration, whereas the original plan of having the building under the control of the State would have involved many difficulties in practical administration and maintenance.

Since December 1, 1927, the President has been engaged in prolonged and repeated conferences with Park Commissioner Herick, Mayor Walker, Comptroller Berry, and President McKee of the Board of Aldermen, resulting in a most important suggestion by the Mayor that the construction of the Roosevelt, the African and the Power Service buildings should proceed concurrently. This reaffirmation by the City of New York of its desire

to see the Roosevelt Memorial constructed as soon as possible and of its purpose to make financial provision for the erection of adjacent buildings, was the most fortunate outcome of a long series of negotiations and conferences, beginning December 1, 1927, and ending shortly before the preparation of this Report. The President and Trustees desire to express their very warm appreciation of the helpful attitude of the Governor, the Mayor, the President of the Board of Aldermen, the Comptroller and the Park Commissioner in this great advance for popular education and civilization in the City of New York.

THE COMPLETED BUILDING PLANS

Since 1908, the President has been continuously studying the building plans of the Museum with the cooperation of the administrative and scientific staffs, in order to insure an ideal educational sequence in all branches of natural history, to meet the needs of the rapidly increasing number of students and visitors from all parts of the country and in fact of the world. The new ground plan, published for the first time in the present Annual Report, practically represents twenty years of continuous study during the period in which the whole theory of Museum exhibition has been completely revolutionized, partly through discoveries in our own institution, partly through discoveries made by our sister institutions in this country which we are only too glad to adopt. The chief change is the shutting out of the rays of sunlight from all the exhibition halls in which the delicate colors of mammals and of birds are displayed, thus insuring the *permanence* of these beautiful colors.

The habitat group has grown from the tiny bird groups produced in our Museum by Mrs. Mogridge* of the British Museum (Natural History) to the large elaborate groups for the Akeley African Hall in the American Museum, which are now being designed at an average cost of \$25,000 each. Each of these groups is a *permanent* contribution to natural history. The present nomenclature and arrangement of the exhibition halls is as follows:

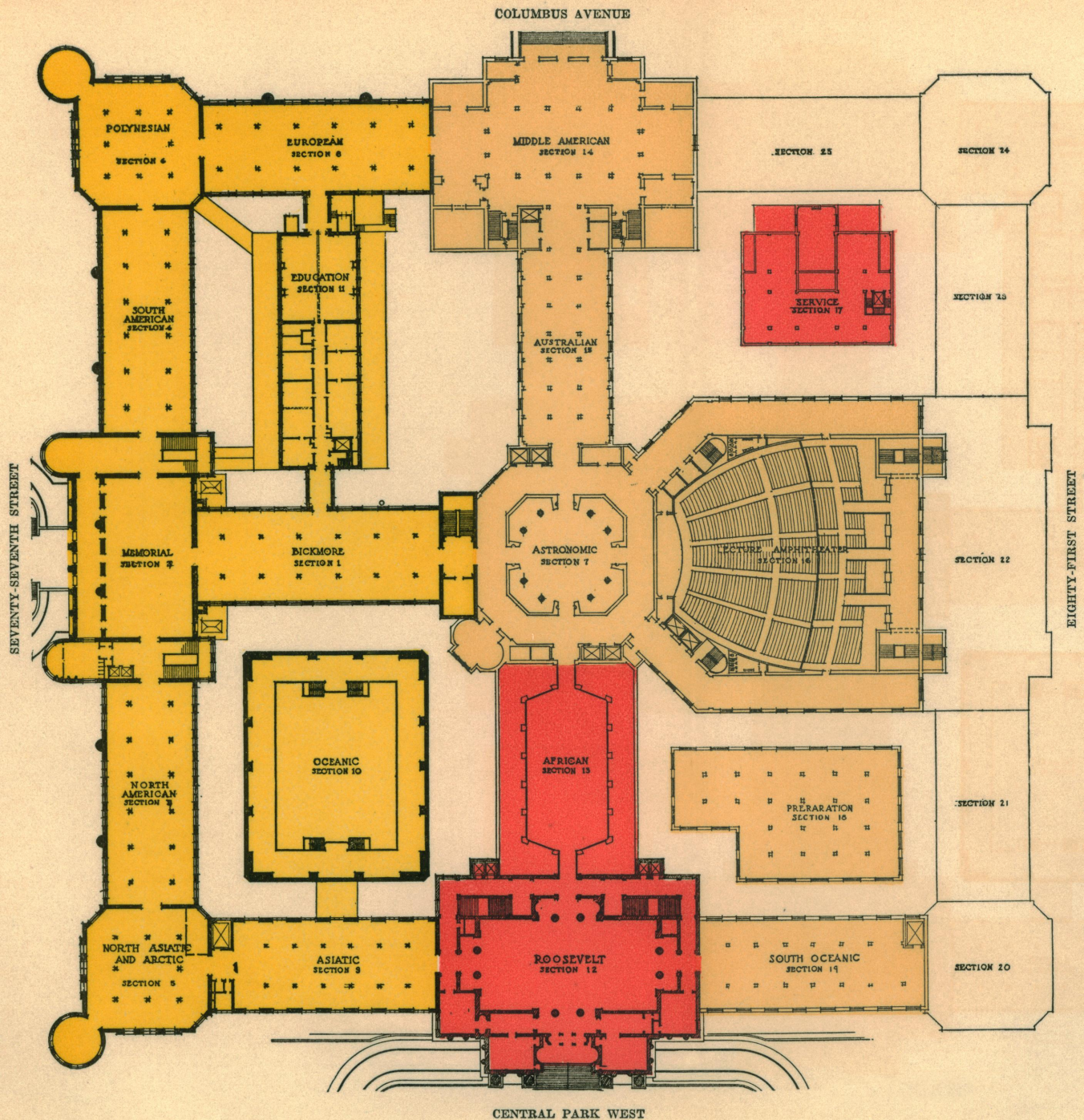
*1886.

PROGRESS OF THE NINETEEN BUILDING SECTIONS AND KEY TO PROJECTED ARRANGEMENT OF EXHIBITION HALLS

<i>Name of Section</i>	<i>First Floor</i>	<i>Second Floor</i>	<i>Third Floor</i>	<i>Fourth Floor</i>
<i>I Bickmore</i>	Northwest Coast Indians	Birds of the World	North American Bird Groups	History of the Earth I
<i>II Memorial</i>	Jesup Memorial	World Bird Groups	Primates	Age of Man (History of the Earth V)
<i>III North American</i>	Jesup Hall of North American Woods	North American Mammals (Allen Hall)	Mammals of the World (Buffon Hall)	Age of Mammals (Osborn Hall)
<i>IV South American</i>	Indians of the Eastern Wood- lands	African Ethnology	Siberia	Minerals and Gems (Morgan Hall)
	Pro-Astronomic Corridor	Burroughs Local Birds Corridor	Audubon Gallery	Age of Horse Corridor
<i>V North Asiatic and Arctic</i>	Darwin Hall of Biology	North Asiatic Polar Life	Insect Life	Closing Age of Dinosaurs (His- tory of the Earth IV)
<i>VI Polynesian</i>	Indians of the Plains	Prehistory of South America	China and Japan	Races of Man
<i>VII (Astronomic)</i>	Meteorite Hall	Cosmic Geography	Gallery	The Firmament
<i>VIII European</i>	Indians of the Southwest	Ancient Peru	Peoples of Malaysia	Stages of Human Culture
<i>IX Asiatic</i>	Fishes of the World	Mammals of Southern Asia	Reptiles of the World	Early Age of Reptiles
<i>X Oceanic</i>	Mollusks and Cetaceans			
<i>XI Education</i>	Education Hall Nature and Man (Public Health) Corridor	Class Rooms	School Service	Laboratories
<i>XII (Roosevelt)</i>	Association Headquarters	Roosevelt Memorial	Gallery - Roosevelt Memorial	Education Rooms
<i>XIII (African)</i>	Land Mammals of the World	Akeley Memorial African Hall	Gallery - Akeley Memorial African Hall	History of the Earth II
<i>XIV (Middle American)</i>	Aztec and Toltec	Maya	Central American Culture	Pacific Island Peoples
<i>XV (Australian)</i>	California and Plateau Indians	South American Tribes	Life of Australia	Study Hall (Crafts and Textiles)
<i>XVI (Lecture Amphitheater)</i>	Main Floor	Main Floor	Balcony	
<i>XVII (Power and Service)</i>	Power	Engineering Service	Engineering Service	Storage
<i>XVIII (Preparation and Storage)</i>	Preparation	Preparation	Storage	Storage
<i>XIX (South Oceanic)</i>	Birds	Birds	Birds	Birds

SUMMARY

Exhibition Halls	50	Assembly Halls	2
Exhibition Corridors and Galleries.....	8	Public Reception Halls.....	2



THE AMERICAN MUSEUM OF NATURAL HISTORY

Nineteen Building Sections for Which Plans Have Been Prepared
 Yellow, Sections Completed; Red, Sections Ready for Construction and Appropriations Pending;
 Buff, Sections in Preparation

THE AFRICAN HALL—A REALITY

It hardly seems possible that Carl E. Akeley's dream of the African Hall is to be realized in a manner far exceeding even his fondest dreams. The dominant motive of the African Hall is the lifelike and artistic preservation for all time of the beauty and grandeur of the African continent. The plans of the thirty-six groups were considered up to the very last moment by the President and Mr. Akeley before Mr. Akeley's departure on his last journey to Africa. Mr. Akeley's estimate of a million dollars as the total cost seemed fantastic and prohibitive, but the present outlook is that the completed Hall will not fall far short of this figure. The groups now planned and fully financed are as follows:

The African Elephant from Kenya Colony. Two males, cow, calf.	The Klipspringer Group from Kenya Colony. Klipspringer, Reedbuck, Baboons, Hyrax.
The White Rhinoceros from the Belgian Congo. Male, cow, calf.	The Wild Dog and Roan Antelope of Tanganyika Territory. Nine specimens.
The Gorilla of Kivu. Two males, two females, young.	The Plains Group of Tanganyika Territory. Grant Zebra, Gnu, Hartebeests, Robert's Gazelle, Thomson Gazelle, Topi.
The Greater Koodoo of Tanganyika Territory. Two males, two females, young.	The Water Hole of Kenya Colony Group. Giraffe, Grevy's Zebra, Oryx, Grant's Gazelle.
The Lesser Koodoo and Gerenuk of Tanganyika Territory. Six specimens.	The Buffalo Group, Kenya Colony. Two males, females, young.
The Sable Antelope from Portuguese West Africa. Two males, two females, young.	The Impalla Group of Tanganyika Territory. Six specimens.

Proposed Groups for Which Materials Have Not Been Fully Collected

The Lion. Two males, two females, three young.	The Giant Eland.
The Bongo and Giant Forest Hog.	The South African Gnu, Springbok, Blesbok, and Aard Wolf.
The Congo River Group. Pigmy Elephant, Red Buffalo.	The Nile River Group.
The Okapi.	The Water Birds Group.
The Sabre Antelope, Addax and Dorcas Gazelle.	The Ratel and Honey Bird.
	The Aard-Vark.
	The Greater and Lesser Bustard.

The Vulture, Jackal, Hyena, Marabout and Glossy Starling Group.	The Mongoose.
The Leopard, Red-River Hog and Ibis Group.	The Duiker, Suni.
The Ground Hornbill Group.	The Mandrill (West Africa).
The Pangolin.	The Cape Town Bay Group.
The Greater Otter.	The Lemurs, Insectivores (Madagascar).
The Inyala.	The Dik-Dik.

The following are the chief donations which have been made to the proposed 36 groups in the African Hall:

The African Elephant Group, collected by Carl E. Akeley and Theodore Roosevelt, presented by the Morris K. Jesup Fund.

The Gorilla Group, collected by Carl E. Akeley, presented by the Morris K. Jesup Fund.

The White Rhinoceros, collected by the Lang-Chapin Expedition as a gift of a number of the Trustees.

The Sable Antelope Group, collected by Messrs. Arthur S. Vernay and Herbert Lang, presented by Mr. Vernay.

Two groups including a lion group, to be collected and donated by Mr. and Mrs. G. Lister Carlisle.

The following groups are the gifts of Messrs. George Eastman, Daniel E. Pomeroy and D. B. Wentz, collected by the Eastman-Pomeroy-Akeley Expedition, 1926-27:

The Lesser Koodoo.	The Impalla.
The Greater Koodoo.	The Buffalo.
The Klipspringer.	The Water-hole Group.
The Wild Dog.	The Plains Group.

For the Hall of Mammals of the World, Floor I, the African Section, materials for two important groups have been donated by Mr. Irving K. Taylor:

The White-eared Cob.

The Nile Lechwe.

THE SOUTH ASIATIC HALL—NEARING COMPLETION

Our British friends, Mr. Arthur S. Vernay and Colonel J. C. Faunthorpe, have indicated their intention not only to complete the collection of the large animal groups for the Asiatic Hall but to attempt to secure the rarer and nearly extinct forms of South Asiatic life, such as the lion of India, the Sonda rhinoceros of Burma, the native two-horned Sumatran rhinoceros and many other smaller forms of mammals which will be planned as accessory exhibits in the great habitat alcoves of this Hall.

For the purpose of detailed study of the backgrounds, Mr. Vernay and Colonel Faunthorpe made a special tour of India, accompanied by Mr. Albert E. Butler, the Assistant Chief of our Preparation Staff, and Mr. Clarence C. Rosenkranz, artist. This expedition as reported was very successfully terminated early in the year 1928. The completed and prospective groups of the South Asiatic Hall are as follows:

The Banting.	The Sumatran Rhinoceros.
Two adults.	One adult, one young.
The Sloth Bear.	The Tiger.
Two adults, one young.	Two adults, two young.
The Blackbuck.	The Indian Elephant
Two adults, two yearlings.	Two adults.
The Axis Deer.	The Hog Deer and Boar Group.
Four adults, two young.	Four specimens.
The Indian Sambar Deer.	The Indian Rhinoceros.
Two adults, one young.	Two adults.
The Swamp Deer.	The Indian Buffalo.
Two adults, one young.	Two adults.
The Thamin Deer.	The Leopard Group.
Three adults, one young.	Two adults.
The Nilgai.	
Two adults, one young.	

GROUPS FOR THE NORTH ASIATIC HALL

The southeast hall of Floor II, long occupied as an atelier for the sculptural work of Carl E. Akeley, is being transformed by generous City appropriations into what will be known as the North Asiatic Mammal Hall, to be devoted to nineteen habitat groups of the large mammals of the northern mountainous, desert and steppe regions of Asia. This exhibition will furnish a most striking contrast to the mammalian life of the South Asiatic Hall characteristic of the warm southern climate of India, Burma, Siam and the East Indian Islands.

Through the expedition and gifts of Mr. William J. Morden and through the remarkable success of the Morden-Clark Expedition into Central Asia, the Museum has suddenly come into possession of magnificent materials which will form the central features of the North Asiatic Hall, now in the course of construction under an appropriation from the City of New York. The crowning feature of this collection is the material for a superb group of *Ovis poli* from the Russian Pamirs, which will form the central group beneath the dome; hardly less important are the Thian Shan ibex. Plans for this Hall have been gradually advancing, and when it is completed the Hall will display all the hardy large mammals of northern Asia, in contrast to the great mammals of southern Asia in the South Asiatic Hall. It is hoped that the northern or Siberian tiger may be added to this series, which will form a striking contrast to the southern or Bengal tiger.

Of the North Asiatic groups proposed for the North Asiatic Hall, the following are the gifts of Mr. William J. Morden as a result of the Morden-Clark Expedition to Central Asia:

Marco Polo's Sheep.
Thian Shan Ibex.

Roe Deer.
Snow Leopard.

As gifts of the benefactors of the Central Asiatic Expeditions, there have been collected under the direction of Doctor Roy Chapman Andrews materials for the following groups:

Takin.
Wild Ass and Goitered Gazelle.
Serow.

Goral.
Muntjac.

CENTRAL BIRD HALL

For ten years past, the building committee has been planning the reconstruction of the older portions of the building so as to increase the exhibition space and adapt this increased space to modern and up-to-date methods of exhibition. The formerly dark South Central Exhibition Hall on Floor II is being converted into a beautiful new Central Bird Hall around which will be placed superb new habitat groups, representing the varied environment of birds in every region of the world. Of the twelve groups planned for this beautiful exhibition, the following are completed or in progress:

Tropical Bird Group of the Barro Colorado Island, Panama Canal, gift of Dr. Evan M. Evans.

Andean Highlands Group of South America, collected by Mr. Frederic C. Walcott and Doctor Frank M. Chapman.

Sub-Antarctic Penguin Group of South Georgia, collected by Doctor Murphy.

Pampas Group of South America, collected by Doctor Chapman.

Pheasants of the World Group, collected for Colonel Anthony R. Kuser by Mr. William Beebe.

Arctic Island Group of the Pacific.

The remaining six groups will be planned during the coming year. These twelve superb bird habitat groups of the world will form the central axis of the south side of the Museum and will connect to the north with the systematic collection of birds of the world known as Elliot Hall.

THE OCEANIC HALL

An Oceanic Hall for the life of the sea was projected by the President in 1910 and found its way into the great building of the southeast court, known as the Oceanic Hall, planned on a scale adequate to exhibit the whales and all other oceanic mammals, the marine invertebrates or shell collection, and all the great aspects of sea life, from the oceanic Coral Islands to the Polar Seas of the North. The exhibits have been planned by a special committee of the Scientific Staff with the welcome aid of Director Townsend of the Aquarium and Curator Bashford Dean. Many extremely difficult architectural, artistic and zoological problems are in the course of solution, including the designs of a superb series of twelve mural paintings surrounding the walls. Meanwhile, the great groups of marine life planned for this hall are the following:

- | | |
|--------------------------|--|
| 1. Elephant Seal. | 8. Pacific Walrus. |
| 2. Hooded and Harp Seal. | 9. Sea-otter. |
| 3. Hair Seal. | 10. Action Group of Cetaceans under water. |
| 4. Antarctic Group. | 11. Sea-turtle group. |
| 5. Australian Dugong. | 12. Coral Reef. |
| 6. Steller's Sea-lion. | 13. Pearl Fishery. |
| 7. Fur-seal. | 14. Sponge Fishery. |

It is planned to open this Hall, as well as the adjacent Fish Hall, during the autumn of 1928.

IMMEDIATE PREPARATION PROGRAM

The following is a summary of the *ninety-two* groups in progress or required for the six new exhibition halls:

South Asiatic—8.
North Asiatic—19.
Akeley African—36.

Central Bird—12.
Oceanic—14.
Fishes of the World—3.

This gives some idea of the extent of our preparation program, which will take from five to ten years to complete; and of the stupendous amount of work required to carry this program through.

CHIEF EXPEDITIONS OF THE YEAR 1927

The interest in world-wide exploration is growing by leaps and bounds, and the Museum is fortunate to receive a series of splendid donations for this purpose, in addition to a constantly increasing number of donors, either to finance, or to finance and conduct, expeditions in various parts of the world. All together, during the year 1927, thirty-two expeditions were sent out from the American Museum. These are important factors in the future development of our Museum. The President takes pleasure in giving the following brief summary of the expeditions.

THE CENTRAL ASIATIC EXPEDITIONS. The Central Asiatic Expedition was unable to carry on field operations during 1927, owing to the political upheavals in China. However, Mr. Walter Granger and Mr. Nels C. Nelson spent several months in Yunnan Province in southern China, examining fossil and archæological sites. The Expedition will take the field early in 1928, when it is planned to visit a part of the interior hitherto scientifically unexplored. Supported by friends of the Museum.

THE MORDEN-CLARK ASIATIC EXPEDITION. In March of 1926, Messrs. William J. Morden and James L. Clark set out to secure specimens of *Ovis poli* and other Asiatic fauna in Chinese Turk-estan. After a thrilling series of adventures, some of which threatened to be tragic, the Morden-Clark Expedition succeeded in reaching Peking with a splendid series of specimens for Museum groups. They returned to the Museum in February, 1927, bringing also several thousand feet of motion picture film and

numbers of still photographs made along the trip. The expedition was financed and led by Mr. William J. Morden.

THE TAYLOR SUDAN EXPEDITION. Mr. Irving K. Taylor, and Mr. Harold E. Anthony, who is Curator of the Department of Mammalogy, left New York in November, 1926, on the Taylor Sudan Expedition to collect mammals and birds on the White and Blue Nile. The expedition was fortunate in securing representatives of all the species planned for, as well as a series of shallow-water fishes. The party returned to the Museum in June, 1927. The work was financed by Mr. Irving K. Taylor.

THE RUWENZORI-KIVU EXPEDITION. In January, 1926, Dr. James P. Chapin of the Department of Ornithology, accompanied by Messrs. De Witt L. Sage and Frank P. Mathews, left New York on the Ruwenzori-Kivu Expedition to collect birds of the subtropical zone in Ruwenzori and Kivu, and in Kenya Colony, Africa. The trip was a long and difficult one, but recompensed with much valuable material. Mr. Mathews returned to New York in the late summer of 1927, but Doctor Chapin and Mr. Sage did not return to this country until October of 1927. The Expedition was made possible through the generosity of Mr. Henry W. Sage and Mr. Childs Frick.

THE LEE GARNETT DAY RORAIMA EXPEDITION. Through the generosity of Mr. Lee Garnett Day, the Roraima Expedition left New York in July, 1927, to collect birds and mammals on Roraima, a high plateau in British Guiana. Members of the Museum staff, Messrs. George H. H. Tate and T. Donald Carter, are conducting the Expedition. They planned the trip by way of the Amazon to Manaos, thence along the Rio Branco to the limit of navigation, and by porters the remainder of the way. They are expected to return early in 1928.

THE WHITNEY SOUTH SEA EXPEDITION. The Whitney South Sea Expedition, under the auspices of Mr. Harry Payne Whitney and leadership of Mr. Rollo H. Beck, has continued for the eighth year collecting birds of the Pacific. During the year, collections have been made among the Solomon Islands. At the New Hebrides, collections were made of birds never before represented in the Museum collections, and some quite new to science. The

Expedition has been augmented by some new members, and will continue its work actively during 1928. The expedition is under the directorship of Curator Robert Cushman Murphy.

PALAEONTOLOGIC EXPEDITIONS TO THE SOUTHWEST. Through the generosity of Mr. Childs Frick, several expeditions were made in the West during the summer in search of palæontological material. Mr. Albert Thomson was again in charge of work on Pliocene fossils in western Nebraska. Mr. Carl Sorensen worked in cooperation with the Colorado Museum on Miocene deposits of western Nebraska. Mr. Barnum Brown conducted a reconnaissance in Cretaceous and Jurassic material in Colorado, Wyoming and Montana. Messrs. Joseph Rak in New Mexico and John C. Blick in Keams Canyon, Arizona, secured a collection of Pliocene material.

EXPEDITION TO NORWAY AND SWEDEN. Mr. George D. Pratt visited Norway and Sweden during the summer and secured a fine series of educational films for use in the school service work of the Museum.

EXPEDITION TO THE MEDITERRANEAN COUNTRIES. In June, Mr. Philip H. Pratt sailed to the Mediterranean, where he visited the ports of Alexandria, Jaffa, Beirut, and Piræus, as well as the countries of Syria, Palestine, Germany, Hungary, Greece, Turkey, Roumania, and Egypt, making still and motion pictures of the peoples of those lands for use in the school service work of the Museum. The trip was made possible through the generosity of The Export Steamship Corporation of New York. Financed by Mrs. Leonard K. Elmhirst and the Carnegie Corporation.

HEILNER EXPEDITION TO ALASKA. Mr. Van Campen Heilner has collected several excellent specimens of the Alaska brown bear at Pavlof Bay for the basis of a museum group. Although Mr. Heilner is field representative in the department of fishes, he frequently takes trips into other fields of science. Financed by Mr. Heilner.

THE VERNAY-FAUNTHORPE EXPEDITION. Mr. Arthur S. Vernay has continued his interest in Museum collections with the

result that this institution has been the recipient during the year of several fine specimens to add to the Indian collections. In November he again set forth to collect in India the *Rhinoceros sondaicus* in order to complete the Museum's collections of Asiatic Rhinoceroses. Messrs. Butler and Rosenkranz of the Museum staff accompanied him to secure accessory material for the Asiatic groups and paintings for backgrounds. After leaving Mr. Vernay in India, Messrs. Butler and Rosenkranz will stop in Angola to obtain accessory material and background studies for the Giant Sable Antelope Group which Mr. Vernay collected there for the Museum.

BRAZILIAN EXPEDITION. Through the generous support of Mrs. Walter Wehle Naumburg, field work on birds has been continued in Brazil by Mr. Emil Kaempfer.

THE SIXTH BERNHEIMER EXPEDITION. Mr. Charles L. Bernheimer maintained and conducted the Sixth Bernheimer Expedition in the vicinity of Navajo Mountain, in further search of material for the Department of Anthropology.

EXPEDITION TO THE GASPÉ PENINSULA. Through the generosity of Mr. Childs Frick, Mr. George Goodwin spent two months this summer in southern Quebec collecting animals for study groups in the Museum. In all, 350 mammals were collected.

THE MARTIN JOHNSON AFRICAN EXPEDITION. Mr. and Mrs. Martin Johnson returned from Africa early in the year, with the photographic results of four years in Africa, including 200,000 feet of film of African wild life. This has been edited to form the great nature film, "Simba." These photographic records are of great importance in the preparation of the habitat groups for the Akeley African Hall of the Museum. Financed by the Martin Johnson African Expedition Corporation, Daniel E. Pomeroy, President.

THE GRISCOM-CROSBY EXPEDITION TO EASTERN PANAMA. Mr. Ludlow Griscom of the Department of Ornithology, with Mr. Maunsell S. Crosby, started in February for Panama and Pearl Island, to study the birds of Panama and its environs. Some

new species were found for the Museum collections. The party returned at the end of March. Financed by the Jesup Fund and Mr. Maunsell S. Crosby.

EXPEDITION TO BARRO COLORADO ISLAND. Last January, Dr. Frank M. Chapman, Curator of Ornithology, with Dr. Evan M. Evans, made a study of tropical bird life in the Canal Zone as found on Barro Colorado Island. Doctor Chapman returned to the Museum in May with some excellent studies. The expedition was financed by Dr. Evan M. Evans.

EXPEDITION TO MEXICO. Mr. Clarence L. Hay, Research Associate in Mexican Archæology, spent some time in Mexico in the early part of the year examining anthropological material. The expedition was financed by Mr. Hay.

EXPEDITION TO NEVADA. Dr. Chester A. Reeds, Curator of Fossil Invertebrates, spent some time during the summer in Nevada, examining meteorites. This trip was financed by Mr. J. P. Morgan.

EXPEDITION TO THE HACKENSACK VALLEY. Doctor Reeds during the summer spent considerable time on the varved clays of the Hackensack Valley. Financed by the Jesup Fund.

THE WOODCRAFT INDIAN TRIP. On June 20, Dr. G. Clyde Fisher undertook a trip with Mr. Ernest Thompson Seton and others to make photographs and studies of Indian dancing and sign talking. This was known as the Woodcraft Indian Trip, and extended from North Dakota to Arizona, including visits to the Grand Canyon and the Petrified Forest.

BEAR MOUNTAIN NATURE TRAIL AND TRAILSIDE MUSEUM. During the summer, the Bear Mountain Nature Trail and Trailside Museum attained considerable popularity under the direction of Mr. William H. Carr. Mr. Carr met with many difficulties naturally to be expected in the first year of such work, but, on the whole, the season was a very successful one. Established at the request of the Commissioners of the Palisades Interstate Park.

FIELD STATION FOR THE STUDY OF INSECTS. The insect station at Tuxedo, New York, under the direction of Dr. Frank E. Lutz, continued the splendid work already well established there. In the three years since the Station was established, it has had the volunteer assistance of bacteriologists, chemists and physicists, as well as of entomologists, and has proved its value. The Station was established through the courtesy and cooperation of the Harriman Estate.

EXPEDITION TO MONTANA AND WYOMING. President Henry Fairfield Osborn spent some time during the summer in the fossil fields of Montana and Wyoming, giving particular attention to the examination of dinosaur and mammal prospects and a first-hand study of artifacts in conjunction with the remains of Pleistocene bison.

EXPEDITION TO ARIZONA. Dr. Harry L. Shapiro, Assistant Curator of Physical Anthropology, visited Mitten Rock in the Navajo country east of the Arizona line in search of skeletal material. He secured a number of skulls and some representative pottery. Doctor Shapiro also attended a conference at Pecos, Mexico, on Southwest Archaeology. This work was financed by Mr. Ogden Mills.

EXPEDITION TO ST. LAWRENCE SHORE. Mr. Francis B. Shields of the Department of Mammals spent his vacation along the north shore of the St. Lawrence River, where he made some Museum collections by means of a bow and arrow.

EXPEDITION TO NORTH CAROLINA AND KENTUCKY. During the summer, Mr. Clifford H. Pope visited the mountains of Western North Carolina and Eastern Kentucky to complete his studies of the salamanders of that region. This is Mr. Pope's second expedition to investigate the amphibian and reptilian faunas of these mountains. He secured many specimens for experimental research work. This work was financed by the Jesup Fund and the Herpetological Research Fund.

EXPEDITION TO MOUNT DESERT ISLAND. Dr. Roy W. Miner spent some time on Mount Desert Island, working in coopera-

tion with the Mount Desert Island Biological Laboratory, and made studies to be used in constructing models for the Darwin Hall. Jesup Fund.

STUDIES AT WOODS HOLE. Dr. G. K. Noble spent part of the summer at the Marine Biological Laboratory at Woods Hole, Massachusetts, where he made studies on the anatomy and evolution of the Amphibia. Jesup Fund and Herpetological Research Fund.

EXPEDITION TO THE OZARK MOUNTAINS. Doctor Noble visited the Ozark Mountains, Missouri, where he studied the salamanders found in the caves there. Jesup Fund and Herpetological Research Fund.

THE PUTNAM BAFFIN ISLAND EXPEDITION. Mr. F. N. Lime-killer accompanied the Putnam Expedition this summer to Baffin Island, in the interests of the Department of Preparation. Financed by contributions of Mrs. Dorothy Binney Putnam, Mr. David Binney Putnam, Mr. W. F. Kenny, Mr. Gustavus D. Pope, and the Jesup Fund.

PERU AND ECUADOR. The Museum has continued to receive birds from Ecuador and Peru from the Olalla brothers. This work is financed by the Jesup Fund.

VALUABLE GIFTS OF THE YEAR 1927

Among the many valuable miscellaneous gifts received during 1927, may be mentioned: A skin and skeleton of adult male wood bison, gift of the Canadian Government, through Professor William Rowan; nearly 1,000 feet of motion-picture negative of horses in action, and 200 feet of motion-picture positive, "Horsing the Army," from Mr. A. J. O. Culbertson; 12 reels of motion-picture positive—Amundsen-Ellsworth Polar Flight of 1925-1926, from Mr. Lincoln Ellsworth; 32 enlarged photographs of fishing scenes, hand-colored, from Dr. Zane Grey; a collection of Plains Indians specimens, from Dr. George Bird Grinnell; an ethnological collection from Dutch Guiana, from Dr. Morton C. Kahn; 10 reels of motion-picture positive, "Story of Copper," from Kennecott Copper

Corporation; a Dodge station-wagon, from Mr. Alfred L. Loomis; skins and skeletons of three Mediterranean seals, from Mr. Jesse Metcalf; 11 gems from Mr. J. P. Morgan; many specimens of mammals, birds and reptiles from the New York Zoological Society; serpent head from Temple of Quetzalcoatl, Teotihuacan, Mexico, from Paramount Famous Players Lasky Corporation; ethnological collection, Java, 9 reels motion-picture positive, 4 wood-carvings of Lapps, 4 reels motion pictures, "The Mountain People," from Mr. George D. Pratt; oil painting, framed, "Lion and Lioness," by Mr. Jan van Essen, 1887, from Mr. S. Brinckerhoff Thorne; 29 framed paintings of fish collected on the "Ara" Expedition (Mr. William Belanske, artist), from Mr. William K. Vanderbilt; and 100 mounted heads and horns from Mr. J. Norman de R. Whitehouse; a collection of Pleistocene fossils, from St. Petersburg (Seminole), Florida, gift of Mr. Walter W. Holmes; 3,004 slides and two flashlight outfits, from Mr. William Nesbit.

NEED OF \$5,707,831.69 ADDITIONAL ENDOWMENT

As repeatedly stated in previous Annual Reports, the American Museum needs for its educational and scientific operation a total endowment of not less than \$20,000,000, of which \$14,292,168.31 was in hand or in sight on December 31, 1927. This matter is of such extreme and pressing importance that the following statement by the Treasurer to March 21, 1928, is submitted:

The Permanent Endowment Fund of the Museum on January 1, 1928, amounted to a book value of \$12,161,452.52, which was invested as follows:

Book Value of Securities:

Railroad Bonds	\$8,925,091.38	
Industrial Bonds	825,651.25	
Public Utility Bonds	1,938,396.51	
Other Securities	472,313.38	\$12,161,452.52

Uninvested Cash		1,096.68
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Total Endowment January 1, 1928.....		\$12,162,549.20
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Bequests and Gifts Received January 1 to February 29, 1928:

Estate of Margaret Olivia Sage.....	\$90,000.00	
Estate of Wood Fosdick	36,328.00	
Subscriptions to Ralph Winfred Tower		
Memorial Fund	10.00	126,338.00
		<u>\$12,288,887.20</u>

Schedule of Increase and Decrease in Permanent Endowment Fund:

Decrease in Book Value by Sale of Chicago, Milwaukee & St. Paul Ry. Co. Bonds	\$89,219.25	
Increase in Book Value by Sale of Securities other than Chicago, Milwaukee & St. Paul Ry. Co. Bonds.....	69,000.36	
Net Decrease in Book Value.....		20,218.89
Book value of Endowment Fund, February 29, 1928...		\$12,268,668.31

Bequests and Gifts in Process of Settlement, on which the Museum is likely to realize within the next year or two:

Anna M. Harkness	\$1,000,000.00	
Wood Fosdick, balance	170,000.00	
Caroline B. Sellew (amount not obtainable)		1,170,000.00
		\$13,438,668.31

Bequests Subject to Life Interests:

Louis V. Bell	\$385,000.00	
Charles M. Jesup Trust Fund.....	300,000.00	
Louisa Combe	100,000.00	
J. Kennedy Tod	40,000.00	
Jennette Robertson	2,500.00	
Ludwig Dreyfuss	10,000.00	
James Gaunt	15,000.00	
Joseph E. Roelker.....	1,000.00	
Robert Jaffray (amount not obtainable) ..		853,500.00
		\$14,292,168.31
Amount necessary to provide Endowment of \$20,000,000....		\$5,707,831.69
Minimum Endowment necessary to operate Museum.....		\$20,000,000.00

Bequests, Contingent:

Estate of Julius Hallgarten	\$42,000.00
Estate of Leo M. Prince.....	6,000.00
Estate of David Lydig.....	10,000.00
Estate of Henrietta Olive Littleton.....	10,000.00
Estate of Minna Godwin Goddard.....	50,000.00

The newly adopted budget of 1928 displays the larger divisions of budget expenditure as follows:

Administration and Operation	\$423,368.98
Financial Administration	65,229.44
Scientific and Research	274,378.85
Printing and Publishing	103,004.95
Preparation and Exhibition	128,129.74
Educational, Public School Work.....	72,788.01
	\$1,066,899.97

This budget of \$1,066,899.97 will be aided by individual gifts during the year 1928, which already amount to \$398,173.86.

The thirty-three exhibition halls make constantly increasing demands on our funds for preparation which is the most important public educational feature of our work.

To keep pace with the educational demands upon the Museum there is urgent immediate need of \$5,707,831.69 which will be sufficient to raise the permanent endowment to \$20,000,000.

Since the World War, because of the decline in the purchasing value of our Endowment, the Museum's research work from endowment funds has been year by year curtailed and the Trustees and citizens alike who have knowledge of the facts have been most appreciative of the response which a number of individuals have given in making it possible through personal contributions to maintain each year a number of research workers in the field. A resolution adopted by the Trustees at the November meeting, expressing appreciation of the fact, disclosed that Professor Henry Fairfield Osborn, President, had recently turned over to the Museum \$5,000 which he had received on his seventieth birthday. The gift of Professor Osborn will be used to establish the Osborn Palæontological Research Fund. Movements are in progress to establish other research funds.

CHANGES IN THE BOARD OF TRUSTEES

At the Annual Meeting of the Board of Trustees held January 3, 1927, the Trustees accepted with keen regret the resignation of Mr. Adrian Iselin who had been a member of the Board since 1905. The following resolution adopted at this meeting is indicative of the high esteem in which Mr. Iselin is held by his American Museum colleagues:

RESOLVED, That it is with deepest regret that the Trustees accept the resignation of their beloved colleague and friend, Mr. Adrian Iselin, as a Trustee of the Museum. Mr. Iselin has been a member of the Board for more than twenty-one years and was for nine years its Secretary. Throughout this period he served with singular devotion the interests of the Museum and his support of its work has been most generous. The Trustees regret that they are to be deprived of their delightful association with him as a member of the Board, but wish to assure him that he carries with him their very best wishes for continued good health and happiness.

Equally regretfully the Trustees accepted the resignation of Mr. George F. Baker, Jr., as Treasurer of the Museum. Mr. Baker's keen financial insight and his ever willingness to devote himself to the study of the Museum's perplexing problems of finance made his service in this office especially valuable. Mr. Baker had been Treasurer since 1922 and remains on the Board as a member of the Class of 1928. To the vacancy caused by Mr. Baker's resignation, Mr. James H. Perkins was elected Treasurer of the Museum.

At this meeting the following Trustees were elected: to the Class of 1928, Kermit Roosevelt; to the Class of 1929, Mr. Oliver G. Jennings; to the Class of 1931, Messrs. Frederick F. Brewster, Douglas Burden, Cleveland Earl Dodge, Childs Frick, James H. Perkins and Leonard C. Sanford. Messrs. Brewster, Burden, Dodge, Frick and Sanford were members of the Class of 1926 whose terms expired at the Annual Meeting of 1927. Mr. Roosevelt was elected to the vacancy due to the death of Mr. Cleveland H. Dodge, and Mr. Jennings to the vacancy caused by the death of Mr. Walter Douglas. At the regular meeting of the Board of Trustees on May 2, 1927, Mr. Lincoln Ellsworth was elected to the vacancy in the Class of 1927 caused by the resignation of Mr. Adrian Iselin.

The death of Dr. Walter B. James on April 6, 1927, removed from our midst a Trustee who has been singularly devoted to the Museum's work. At the meeting of the Board of Trustees on May 2, 1927, the following tribute to Dr. James was adopted:

The Trustees desire to record their deep sense of loss through the death of their co-Trustee and friend,

DOCTOR WALTER B. JAMES

who passed away on April 6, 1927. Doctor James was elected to the Board in February, 1911, and served as a member of the Executive Committee from 1911 to 1913. He was also a member of the Committee on Buildings and Plans from 1912 to 1927; of the Nominating Committee from 1920 to 1927, and of the Pension Board from 1916 to 1927. Throughout his Trusteeship, he was intensely interested in all of the activities of the Museum and was always earnest and painstaking in his duties as a member of the various committees.

His advice and hearty cooperation were always valuable, especially where the welfare of our employees was concerned.

The same qualities which distinguished him as a Trustee of the Museum made him a valuable and influential citizen in the community.

His colleagues on the Board greatly miss his genial presence and valuable counsel.

The vacancy in the Class of 1930 caused by the death of Doctor James remains unfilled.

CHANGES IN THE SCIENTIFIC STAFF

During 1927 the following appointments and promotions were made in the Scientific Staff: Henry Fairfield Osborn, D.Sc., was appointed Curator-in-Chief of the Division of Mineralogy, Geology, Geography and Astronomy; G. Clyde Fisher, Ph.D., was promoted to Curator of Astronomy; Charles C. Mook, Ph.D., was promoted from Associate in Palæontology to Associate Curator of Fossil Reptiles; George G. Simpson, Ph.D., was appointed Assistant Curator of Vertebrate Palæontology; John T. Nichols, A.B., was promoted from Associate Curator of Recent Fishes to Curator of Recent Fishes; Francesca R. La Monte, A. B., was promoted to Assistant in Ichthyology; Clifford H. Pope, B.A., was promoted to Assistant Curator of Herpetology; Robert T. Hatt, A.M., appointed Assistant Curator of Mammalogy; William J. Morden was appointed Field Associate in Mammalogy; George C. Vaillant, Ph.D., was appointed Assistant Curator of Mexican Archæology; Hawthorne Daniel was appointed Curator of Printing and Publishing and Editor of *Natural History*; A. Katherine Berger was promoted from Assistant Editor of *Natural History* to Associate Editor of *Natural History*.

It is with keenest regret that we record the resignation of Dr. William Diller Matthew, Curator in Chief of the Department of Geology and Palæontology, who had been in the service of the Museum for more than thirty-two years. Doctor Matthew resigned to accept the important position of Professor of Vertebrate Palæontology in the University of California. While Doctor Matthew's departure is a great loss to the Museum because of the high quality of his research and his fine personal characteristics, his colleagues on the Staff wish him every success in his new field of endeavor, for which he is so eminently qualified. Doctor Matthew, throughout his long connection with the Museum, rendered conspicuous service, and it is largely due to his careful and painstaking labor that the collections of Vertebrate Palæontology, now numbering more than 21,000 specimens, are so orderly arranged and completely catalogued. Doctor Matthew's researches

and contributions place him in the front rank of Palæontologists of the day.

We also regret to record the resignation of Assistant Curator Ludlow Griscom, who resigned the latter part of the year to accept the position of Research Curator of Zoology in the Museum of Comparative Zoology, Cambridge, Massachusetts.

II. EDUCATIONAL AND SCIENTIFIC REPORTS

GEORGE H. SHERWOOD, Director

The mushroom-like rapidity with which a modern skyscraper takes shape fills us with astonishment, and we can hardly believe our eyes, as daily we see tons and tons of steel girders arise, story upon story. In viewing this modern miracle, too often we forget the months and months of close, painstaking work in the drafting rooms, with rule, caliper and micrometer. So it is in building the American Museum: it is the explorations and the research that constitute the foundation and the mighty supporting structure of the American Museum, which cannot be expressed in terms of steel and granite. Always, therefore, first attention must be given to these phases of building, because without proper foundation and an adequate framework, a structure is bound to fall. Our Scientific Staff appreciate the fundamental importance of these facts, and with patience, energy and effectiveness have been building the American Museum.

It is to be greatly deplored that because of lack of funds and because of the increased cost of operation, it has been necessary to retrench in exploration and particularly in research, so that preparation and exhibition might proceed at a greater speed. The scientific staff have accepted the situation with understanding and have assisted in carrying out the desired program with good will, loyalty and helpful cooperation.

At the beginning of the year, it was decided to adopt a policy of clearing up. Because of budget deficiency and other demands, there was on hand an accumulation of unfinished work in many departments, while several of our exhibition halls were in process of renovation, and in some cases exhibition work had been at a standstill.

The Director has the honor to submit herewith the reports of the department chiefs, and points with justifiable pride to the work accomplished, in spite of many necessary economies.

Department Reports The loyalty of all the staff members, their devotion to their chosen science, their high regard for the reputation of our institution, and their maintenance of the highest and best tradition of scientific endeavor, convince me that their

achievements in the future will bring further prestige to the name of The American Museum of Natural History.

The program for the year had for its keynote the completion of construction, installation, research and publication on hand before taking up new activities; while we are considerably behind our hoped-for schedule, substantial progress has been made.

When the year opened, there were seven exhibition halls, including the five new halls in the Southeast Wing and Court Building, not open. We stressed the importance of opening these halls, not only to make good our pledges to the City but to give the public access to these valuable exhibits. What are the results?

In March, the Dinosaur Hall, with its incomparable collection of fossil reptiles, was opened. At the same time in the former Dinosaur Hall was installed the fossil collection of the Central Asiatic Expeditions. These include the famous dinosaur eggs and nests, the wonderful series of *Protoceratops* skulls; the largest known mammal, *Baluchitherium*, and the largest carnivore that ever existed, *Andrewsarchus*. The Age of Mammals Hall was rearranged.

In June, the public was admitted to the Hall of Reptiles, with its many beautiful exhibits planned by Doctor Noble.

Since midsummer, energies have been concentrated on the Hall of Fishes and Hall of Ocean Life. While far from complete, installation is advancing so that an opening of these two halls will be made early in 1928.

The Hall of Primates with its habitat groups of monkeys was recently opened.

The fireproofing of the cases of the Habitat Bird Groups has advanced so that one half is completed and open.

The final touches have been put on the North Pacific Hall, containing the Jesup North Pacific Expedition collections.

Six of the Habitat Group cases for Birds of the World are under construction. The Panama Bird Group is done and a second group showing the bird life of the high Andes is in process of installation.

The School Service Building has been occupied by the Department of Education, greatly facilitating the Museum's service to the schools.

Storage capacity for study collections and particularly for publications has been increased by salvaging space in the attic and

finally much has been accomplished in reducing the fire hazards within the building.

I desire to express my great indebtedness to Honorary Director Lucas for the generous and helpful ways in which he has lightened my duties as Director. His long acquaintance with Museum practices, his extensive knowledge of scientific matters, his wide experience in Museum methods, have made his advice (always freely given) most valuable. In addition to this general assistance, Doctor Lucas has had charge of certain special lines of work, including the Hall of Primates, the Hall of the Trees of North America, the Synoptic Hall of Mammals and sections of the Hall of Ocean Life. In addition to this, he has also taken charge of popular publications. In reporting on some of these activities, Doctor Lucas says:

"The building of a museum does not consist merely in erecting four walls of stone or brick; the real museum lies within these walls, and the building up of the collections they contain is the really important work.

"The occupation of the new sections has led to, or permitted, many changes in other halls and the continuance of work checked by the congestion that has prevailed in the exhibition halls for some years past.

"These changes have been especially noticeable in the Primates Hall, where the closed corridor for habitat groups has been opened and provision made for the two groups of Asiatic Monkeys for which the specimens are on hand; in fact, the Nilgiri Langurs are mounted and awaiting the accessories and background for the completion of the group.

"The case for the specimens illustrating the comparative structure of the Primates from Lemurs to Man, permits the skeletons to be brought together for the first time, and the installation of the series, showing the stages in the assumption of an erect attitude, has been commenced.

"Thus the work of building up the remarkable series of apes and monkeys, begun about fifty years ago, is again making progress.

"The cases freed by the removal of the Primates skeletons have been utilized for the assembling and rearrangement of examples of domesticated dogs, and while, owing to the great amount of

work on hand, no effort has been made to secure specimens, several noteworthy examples have been placed on exhibition and others are waiting to be mounted. Preeminent among the additions is the Irish wolfhound Ballyshannon, given by Mrs. Glenn Stewart, and the Bulldog Silent White Duke, given by Mrs. William A. Richards.

"The collection is not only very attractive to visitors but is used as one of the most striking illustrations of the great and rapid changes that may be produced by artificial selection, and how profound these changes are is emphasized by the skeletons of Bulldog and Borzoi, which represent almost the extremes of structure.

"It is also a record of the breeds popular at various times. As an example of the changes in fashion is the fact that the collection includes no example of the Pug, such a universal favorite in the eighties, when the Pomeranian and Pekingese were practically unknown.

"The collection is also being used as an illustration of the importance of the ductless glands, for research is showing that at least some breeds of dogs are based upon abnormal conditions of the thyroid and pituitary glands.

"The changes in the Primates Hall have provided space for the display of the photographs of Mammals shown some time ago in the Hall of Trees of North America, and the racks and frames for these are now ready, so that the arrangement can be taken up early in 1928.

"The skeletons and reproductions of the smaller cetaceans, Killer, Blackfish and Porpoises, have been removed from the Hall of Mammals and rehung in the Hall of Ocean Life, in such a manner that, while all may be readily seen, they do not interfere with view of the skeletons of whales that were put in place last year.

"Comparatively few changes have been possible in the Hall of Trees of North America, but Mr. Narahara has continued the addition of sprays of foliage, and under his skilled hands the reproduction of local species is well advanced. By collecting in spring and fall, he has been able to reproduce many species in flower and fruit and to show the changes in foliage from the green of summer to the varied hues of autumn.

"Thus, the building of the Museum goes steadily forward, not

only in the material sense, but in those changes in and additions to the exhibits, which not merely increase their size and number but add to their educational value.

"The total sales of Popular Publications, Handbooks, Leaflets, and Reprints, during the year, was 20,039 copies, of which 1,375 Handbooks and 2,192 Leaflets were sold through the Library.

"There were sold in addition, 3,979 Guides, 2,457 of the little 'An Hour in the Museum,' and 1,911 of the 'Guide Note Book,' which is the Hour in the Museum plus pages for notes.

"Among the publications most in demand are the Handbooks, 'Indians of the Plains,' 'Indians of the Southwest,' 'Ancient Civilizations of Mexico,' and 'Animals of the Past,' which are used largely as textbooks, and practically as many are sold for this purpose outside the Museum as are sold to visitors.

"The Guide Leaflets dealing with design are purchased extensively by art classes, the most popular being that on 'Peruvian Art.'

"The most popular leaflet of all continues to be the 'Hall of the Age of Man,' though it has a rival in the 'Hall of Dinosaurs,' and these are followed by the 'Big Tree' and 'Indian Costumes.'

"The labels for visitors to take away, prepared at the suggestion of Doctor Beardsley Ruml, continue to be in demand, and 15,000 (7,500 of each) of those on *Triceratops* and *Brontosaurus* were taken during the two months succeeding the Opening of the Hall of Dinosaurs.

"The purpose of these labels is that the visitor may take away for future reference information in regard to some object or objects of special interest. Hence they have been devoted to those exhibits whose descriptive labels are most frequently read by visitors.

"So far, few of these appear to be wasted, in spite of the fact that at Expositions a large portion of the public will take almost everything that is given away.

"Owing to the extensive changes in the exhibits, it has not been possible to issue a comprehensive Guide for some time past, but the demand has been met by the issue of a guide to the present exhibition halls, and the needs of visitors whose time is but brief has been supplied by the Hour in the Museum and the Guide Note Book, which sell at the nominal price of two and five cents."

In building the real American Museum, publication is a factor of prime importance—for it is through publication that scientific workers in other parts of the world profit by American Museum discoveries.

One of the most serious problems confronting us at the beginning of 1927 was that of publication. The manuscripts on hand, which represented the labor of our scientists, and a large investment, were more than five times the annual output of our printing department. The Trustees, to meet this situation, added new equipment, and toward the close of the year established a department of printing and publishing, and in December appointed Mr. Hawthorne Daniel, Curator, as well as Editor of Natural History. Mr. Daniel brings to us much professional experience in printing, and his supervision and leadership will increase the efficiency of this department. We are justly proud of the accomplishment of our printing department under the direction of Mr. Stephen Klassen. With the added new equipment, the output for ten months (January 1 to November 1), in spite of inadequate supervision, was as great as the production of any previous year. This is in addition to the work on Professor Osborn's Monograph on the Proboscidea, of which 500 pages are now in type.

Preparation has also received a great deal of attention because of our obligations to donors and to the City of New York. Under the direction of Assistant Director James L. Clark, preparation has been pushed forward in accordance with our program of finishing work in hand and getting exhibition halls open to the public. This department, from the very character of its work, is an adjunct of the scientific departments of the Museum, because, with the exception of the Department of Vertebrate Palaeontology, the departments rely on it for the preparation and installation of their exhibits. It is becoming increasingly difficult to find men with the necessary technical skill for preparation, and progress in exhibition is necessarily slower than could be wished. A survey of the year's work, however, shows that substantial results have been produced. The details of the work accomplished will be found in the reports of the several departments, especially the departments of Mammals, Birds, Reptiles and Fishes.



DEPARTMENT OF ASTRONOMY
Telescope Lent to the Amateur Astronomers Association

ASTRONOMY

CLYDE FISHER, In Charge

The outstanding development in connection with the Department of Astronomy was the organization on May tenth of the Amateur Astronomers Association, and its subsequent phenomenal growth. At the end of the year, the paid-up membership was 387 regular members, 24 life members, and two patrons. Meetings have been held in the Museum twice a month, with an attendance so large as to be most encouraging. The speakers at these meetings have included Mr. Russell W. Porter, on amateur telescope-making, Mr. Stansbury Hagar on the mythology of the zodiacal constellations, Oliver P. Medsger on The Great Nebula in Andromeda; Dr. Oswald Schlockow on the location of the planets, and sun and moon in the zodiacal belt, Dr. Clement S. Brainin on the Solar System, Mr. Harry Lawton on sunspots, Mr. Charles W. Mead on the meteoric shower of August, 1868, and Dr. Harlow Shapley on current researches at the Harvard College Observatory.

The following persons, which list includes the leading astronomers of eastern United States, have kindly consented to act as an Advisory Council for the Amateur Astronomers Association:

PROFESSOR HENRY FAIRFIELD	President, American Museum of Natural History
DR. FREDERICK SLOCUM	Director, Wesleyan University Observatory
DR. CAROLINE E. FURNESS	Professor of Astronomy, Vassar College
DR. ANNE S. YOUNG	Director, Mount Holyoke Observatory
DR. S. A. MITCHELL	Director, University of Virginia Observatory
DR. ASAPH HALL	U. S. Naval Observatory
DR. FRANK SCHLESINGER	Director, Yale University Observatory
DR. HENRY NORRIS RUSSELL	Director, Princeton University Observatory
DR. HARLOW SHAPLEY	Director, Harvard College Observatory
DR. EDWIN B. FROST	Director, Yerkes Observatory
DR. HEBER D. CURTIS	Director, Allegheny Observatory, University of Pittsburgh
DR. JOHN A. MILLER	Director, Swarthmore College Observatory
DR. C. H. ABBOT	Secretary, Smithsonian Institution
MR. HOWARD RUSSELL BUTLER	Formerly of Princeton University
MR. WORCESTER REED WARNER	Of Warner and Swasey Company
MR. DAVID B. PICKERING	President, American Association of Variable Star Observers
MR. GARRETT P. SERVISS	Lecturer and Popular Writer on Astronomy

The enthusiastic interest shown in this society is a significant indication of the widespread and growing interest in the subject of Astronomy.

A frieze of Solar Prominences has been installed on the lateral walls of the Pro-Astronomic Hall. There are seven paintings in all, done in oil, in natural colors, the largest being of the hydrogen prominences observed in the total solar eclipse of 1918. These are not imaginary drawings, but all are careful, realistic representations of prominences observed and photographed by astronomers. They were done by Mr. Howard Russell Butler, N.A., who painted six astronomical subjects which had already been installed in the hall. The frieze of hydrogen prominences makes a striking decorative exhibit of gorgeous color. It was presented to the Museum by Mr. and Mrs. Charles J. Liebman.

In the corridor just outside of the Pro-Astronomic Hall, opposite the Angelo Heilprin volcanism paintings, has been installed a case containing a collection of sundials, hour-glasses, and astrolabes. Some of these are very old, and altogether they form a most interesting exhibit of time-measuring instruments. They were deposited in the Museum by Miss Susan Dwight Bliss.

In addition to the Brashear five-inch equatorially mounted telescope, lent in 1926 by Mr. S. B. Grimson, several others have been lent during the year 1927 for use at the outdoor meetings of the Amateur Astronomers Association. Among these are: a five-inch Alvan Clark, lent by Mr. George A. Galliver; a four-inch Moge, lent by Mr. Charles W. Elmer; a three-inch Busch, lent by Miss Laura B. Garrett; and a three-inch Bardou, lent by Mr. B. T. B. Hyde. Besides these, several others have been brought to the Museum for use at particular meetings, some of them several times. For the use of all of these instruments, the Department is extremely grateful. They have been put to good use, many members of the society having thereby had their first opportunity to see sun-spots; the craters and mountains on our moon; Jupiter and his four larger satellites; Saturn and his rings; the other planets including Uranus and Neptune; double stars; star-clusters, nebulae, etc.

Copies of recent books on Astronomy, both popular and technical, have been presented to the Amateur Astronomers Association by the various publishers, for which we wish to make acknowledgment.

In the interest of our proposed Hall of Astronomy, the Curator has during the year made visits to: The Atwood Planetarium at the Chicago Academy of Sciences Museum; the **Astronomical Missions** Diego Arzic Planetarium, built by a Yugoslavic American in Chicago; the factory of J. W. Fecker, maker of astronomical instruments, in Pittsburgh, where they were engaged in making a twenty-four-inch refractor and a sixty-inch reflector for the Harvard College Observatory, and a large twin duralumin mounting for Yerkes Observatory; The Lowell Observatory at Flagstaff, Arizona, where he had the privilege of being shown about by Director V. M. Slipher and Professor Henry Norris Russell, the latter of whom happened to be vacationing there; and the exhibit of photographic transparencies of comets and other Barnardiana held in Nashville at the annual meeting of the American Association for the Advancement of Science.

In the interest of these plans, the Curator has lectured during the year on the Zeiss Projection Planetarium and other astronomical subjects before the Illuminating Engineering Society, New York Section; at the Field Museum of Natural History; at the Carnegie Museum; at the Brooklyn Museum; at the Buffalo Society of Natural Science; at the Roerich Museum; before the Douglaston Yachting Squadron; and before other clubs and organizations.

At the annual meeting of the New York Electrical Society, the Curator, upon invitation, reviewed the chief advances in astronomy made in 1927.

The bicentenary of the death of Sir Isaac Newton (1642-1727) was commemorated by meetings and exhibitions in the American Museum of Natural History, on November 25 and **Newton Bicentenary** 26; meetings were held in collaboration with the American Astronomical and several other scientific societies, and these were addressed by leading American scientists

in the fields in which Newton made contributions. Dr. W. W. Campbell, Honorary Director of Lick Observatory and President of the University of California, read a paper on Newton's Influence on the Development of Astrophysics.

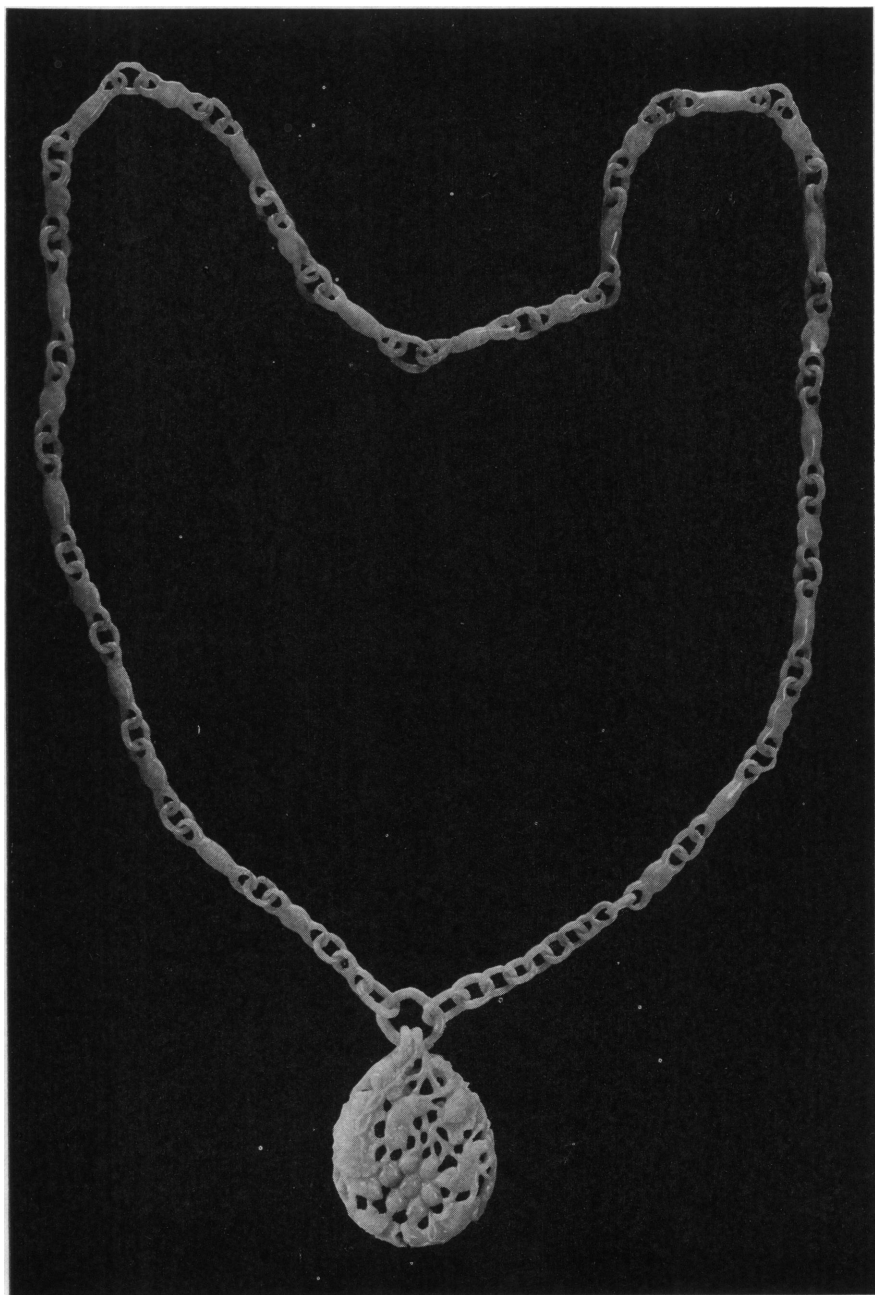
Among the Newtoniana on exhibition at the Museum for three weeks were the various editions of Newton's books, including an extremely valuable copy of the Principia from the Babson collection, and a copy which had been presented to Yale College by Newton. A model of a sundial, made by Newton when a school-boy, and a model of the first Newtonian telescope were also shown. The exhibit included several hundred items, consisting of books, portraits, medals, letters and documents relating to Newton and his achievements.

The awakening interest in astronomy points more certainly to a realization of our dreams of a great hall of astronomy, to be erected as the hub of the great series of buildings of the American Museum of Natural History,—this five-story, octagonal-shaped hall to be crowned with a Carl Zeiss Projection Planetarium.

**Proposed
Hall of
Astronomy**

The Department of Astronomy is fortunate in having as members of its Advisory Committee the following eminent American astronomers: Professor Henry Norris Russell, Director of the Princeton Observatory, Chairman; Mr. Howard Russell Butler, Adviser to the Architects; Professor George Ellery Hale, Honorary Director of the Mt. Wilson Observatory; Professor Samuel Alfred Mitchell, Director of the Leander McCormick Observatory; and Professor Harlow Shapley, Director of the Harvard College Observatory.

**Advisory
Committee**



DEPARTMENT OF MINERALOGY
Pendant and Chain of 65 Links Carved from a Single Piece of Jadeite
Gift of Mr. J. P. Morgan

MINERALS AND GEMS

HERBERT P. WHITLOCK, Curator

The past year has been marked by notable progress toward the ideal of rendering the general collection of minerals a completely representative one. Every collection, even the largest and finest, must of necessity show certain gaps in its series, gaps caused by the absence of species of which relatively few specimens are known to exist. During 1927 the number of these gaps, which represent the difference between the General Mineral Collection and a theoretically perfect series of the minerals of the world, have been reduced by about 20%. Five years ago this collection was 75% complete; it is now 88% complete, a very appreciable gain. Furthermore this gain is in reality greater than the figures express, because the number of known minerals is constantly being augmented by the addition of newly discovered species. The policy of the Department is to keep pace as far as possible with current discovery, while the old lists of missing species are gradually being cut down.

Another and very important function of the development of the collection is the making of it more usable by the public. The ideal that represents the ultimate goal in this respect is a collection which will contain within itself and include in its offshoots all the components necessary to render it a complete course of instruction in descriptive mineralogy. The collection has been growing around and toward this ideal, and the past year has seen some significant results in relation to it. A new series of models has been devised and installed to show the symmetry of the different classes of crystals. Also the Department has instituted during the year small "feature" exhibits which explain certain features of mineral occurrence and deposition. These are displayed for a limited period and then replaced by another feature exhibit, the series of five or six rotating in order throughout the year and repeating. The explanatory exhibit known as "What is a Mineral?" has been reinstalled in a more permanent form with some added mounts.

It is very gratifying to note that parallel with the growth of the Mineral Collection and the Gem Collection toward an ideal of instructional efficiency has come a more general and more intelli-

gent use of the collections by the public. Visitors to the Morgan Hall of Minerals and Gems are now spending more time in studying the collections than they were accustomed to do in former years, and in not a few instances we find these visitors copying into note books our explanatory labels.

The Curator has continued his studies of the crystallography of the calcite from areas of diabase rocks. The first of these studies has been issued as a *Bulletin* of the Museum, under the title, "A Study of the Crystallography of the Calcites of the New Jersey Diabase Region." Other crystallographic studies along this and other lines are now in progress.

A popular article devoted to the study of problems of Museum installation in foreign Museums was contributed by the Curator to *Natural History*, under the title, "A Museum Pilgrimage."

In addition to 45 specimens of rare mineral species and varieties, hitherto unrepresented in our series, and purchased through the Bruce Fund, the Department has received, through exchange with Mr. L. H. Bauer, characteristic specimens of two new species, discovered during the year at Franklin, New Jersey. Among its other exchanges, the Department acquired a large and unusually perfect crystal of microcline.

The Gem Collection has been enriched, through the munificent gift of Mr. J. P. Morgan, with a series of notable gem stones and carved objects. These include three large cut gems, i. e., a spinel of rare color, a blue zircon, and a deep-colored amethyst. There are also comprised in this series a pendant and chain of 65 links, carved from a single piece of jadeite, a large mass of Baltic amber, and six bowls of various sizes and materials.

A beautiful example of wood replacement by precious opal was acquired through the Bruce Fund.

GEOLOGY AND PALÆONTOLOGY

Invertebrate Palæontology

CHESTER A. REEDS, Curator

At a meeting of the Board of Trustees, January 3, 1927, the Department of Geology and Invertebrate Palæontology and that of Vertebrate Palæontology were merged to constitute the Department of Geology and Palæontology. With the joining of the Departments, two sections were recognized, namely, I, Vertebrate Palæontology, and II, Invertebrate Palæontology.

Doctor W. D. Matthew, Curator of Vertebrate Palæontology, and Acting Curator of Geology, was appointed Curator of the new department. His position as Curator-in-Chief of Division I, which includes Mineralogy, Geology, and Geography, was extended to include Astronomy. At the time these appointments were made, Curator Matthew was in England. On his return to the Museum in March, he assumed his new duties until July 1, 1927, when he accepted the position of Professor of Palæontology at the University of California.

At the October meeting of the Executive Committee of the Board of Trustees, Professor Henry Fairfield Osborn was appointed Curator-in-Chief of the Division of Mineralogy, Geology, Geography and Astronomy, and Curator-in-Chief of the Department of Geology and Palæontology for the year 1927.

With the amalgamation of the two departments mentioned above, Mr. Barnum Brown was promoted from Associate Curator of Fossil Reptiles to Curator of Fossil Reptiles; Mr. Walter Granger was promoted from Associate Curator of Fossil Mammals to Curator of Fossil Mammals; Doctor Chester A. Reeds was promoted from Associate Curator of Invertebrate Palæontology to Curator of Invertebrate Palæontology. During 1927, Doctor Reeds remained in charge of the administrative and other duties connected with geology and invertebrate Palæontology.

During the Summer months, temporary appointments of assistants in geology were as follows: C. I. Alexander, A.M., Princeton; R. H. Beckwith, Ph.D., Columbia; M. S. Chappars, A.B., Miami; Clarence E. Miller, A.B., Cornell; Joseph W. Monahan, Hamilton;

**Temporary
Appointments**

and Mr. Berthold Zellner of New York. The services of Messrs. Chappars, Monahan and Zellner were retained until the end of the year.

Miss Elizabeth R. Powell, A.B., Michigan, was engaged as editorial assistant on Central Asiatic Publications from July 20 to October 31, and Miss Adela M. Pond, A.B., Smith, from November 10 to December 31.

The work accomplished by these assistants included the preparation and labeling of invertebrate fossils from Oklahoma; the cataloguing of the Mongolian series of rocks collected in 1922, 1923 and 1925, by the Central Asiatic Expeditions; the selection and identification of fifteen sets of duplicate fossils for the Department of Education; the collection and identification by Mr. Alexander of 181 fossil specimens suitable for exhibition from the Comanchean and Cretaceous beds of Texas; assisting with field and laboratory work on glacial clays, the care of the seismograph, and revising and proof-reading manuscript submitted to Doctor Reeds as Editor of Division I Publications.

Mr. P. B. Hill served as laboratory assistant, prepared special tools for Curator Reeds' clay investigation, attended the seismograph, sectioned specimens for Mr. Frick and Doctor Reeds, and made a "dummy" model of a proposed band-saw for sectioning large specimens. Miss Edith G. Marks served as the Department Secretary and Accession Clerk.

Field Work Curator Reeds with two assistants spent fair-weather days in the nearby field collecting samples of the varved glacial clays from the Hackensack valley, the Haverstraw district on the Hudson River, and from the bed of old Lake Passaic near Mountain View and Summit, New Jersey. Three hundred and seven samples, each twenty inches long, were collected. The purpose of this work was to obtain a series of samples showing: first, a continuous section of the deposits laid down seasonally in fresh-water glacial lakes; second, to count the annual layers and determine the number of years involved in the retreat of the ice of the last glacial period; third, to gain some knowledge of the fluctuating climate during this period, and fourth, to study the varying rate of sedimentation exhibited by these deposits.

Through the courtesy of Mr. J. P. Morgan of New York, Curator Reeds left New York on May 2 to investigate a meteorite prospect, which was reported by Mr. John T. Reid of Lovelock, Nevada, to be in the Jackson Mountains of northwestern Nevada. The locality was visited on May 9, 10 and 11, but no specimens were found. On leaving Nevada, Doctor Reeds made observations along the San Andreas earthquake rift near San Francisco, in the Yosemite Valley, and at the Rancho la Brea asphalt pits in Los Angeles, California. On the return journey he went down the Bright Angel trail to the Colorado River in the Grand Cañon of Arizona and examined the rock exposures which total a mile in thickness.

On invitation of the State Geologist of Illinois, Doctor Reeds attended the State Geologists' field excursion in northwestern Illinois, October 18-23. The conference was attended by eighty-five delegates representing sixteen geological surveys and fifteen educational institutions. Type localities of Pleistocene deposits were examined on Farm Creek and East Bureau Creek near Peoria, also coal bed No. 5, and Mazon Creek, the famous collecting ground for fossil leaves and insects of Carboniferous age. Many other places of interest were also visited.

Doctor Reeds also attended the annual meeting of the Geological Society of America, which convened in Cleveland, Ohio, December 29, 30 and 31, 1927. At this meeting he presented a paper on the results of his field investigations during 1925, 1926 and 1927, of the varved glacial clays at Haverstraw, New York. He stated that 766 consecutive varves, which he had counted and diagramed, required as many years for their deposition. After leaving Cleveland, he made a side trip to Niagara Falls and the seven-mile gorge below the falls to collect data and take photographs for a guide leaflet on the locality.

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, seven *Novitates* papers and four *Bulletin* articles were edited. Most of his attention, however, was given to editing three proofs of the "Geology of Mongolia" by C. P. Berkey and F. K. Morris. This volume, which consists of 508 pages of text

and 205 illustrations, 10 in colors, was printed by the Knickerbocker Press of G. P. Putnam's Sons. As Volume II of the *Natural History of Central Asia*, it made its appearance in bound form at the end of 1927.

With the assistance of the Misses Powell and Pond, considerable progress was also made in editing the manuscript of the "Permian of Mongolia," by A. W. Grabau, which will constitute Volume IV of *The Natural History of Central Asia*.

Four articles by Curator Reeds were published in the course of the year:

Publications "Glacial Lakes and Clays near New York City"; "James Furman Kemp, 1859-1926," and "Desert Landscapes of Northwestern Nevada" appeared in *Natural History*. "The Natural Bridge of Virginia and its Environs," a 64-page booklet containing 85 illustrations, was issued in August by the Nomad Publishing Company, New York. Five thousand copies of this booklet were placed on sale at the Natural Bridge Hotel, Natural Bridge, Virginia, in September.

The more important of the 39 accessions received in 1927 consist of the following entries:

Accessions By expedition: 181 fossils from the Comanchean and Cretaceous beds of Texas, collected by Mr. C. I. Alexander; 137 fossils of Permian age from Mongolia, collected by the Central Asiatic Expeditions, and described by Professor A. W. Grabau; 132 specimens of rocks and fossils from northwestern Nevada, and 307 samples of varved glacial clay from New York and New Jersey collected by Doctor Chester A. Reeds.

By gift: 49 fossils from Colombey les Belle, France, by Mr. Josh Weimer; 3 fossil pelecypods from Paita, Peru, by Mr. L. M. Stone; 8 volcanic rocks from Wolf Creek, Montana, by Mr. A. J. Harstad; 21 fossil mollusks from Lebanon Mountains, Syria, by Mr. J. M. Aboussleman, New York City; 3 fossil plants, *Protolpidodendron primærum*, from Delaware, New York, by Miss Angelica Gerry; 175 Miocene fossils from Coalinga, California, by Mr. E. E. Halvorsen.

GEOLOGY AND PALÆONTOLOGY

Extinct Vertebrates

BARNUM BROWN, Curator-in-Charge

The new Dinosaur Hall was opened March 9, giving for the first time an adequate space for the display of this magnificent collection. The South end of the Hall, devoted to **Dinosaur Hall** Cretaceous reptiles, is permanently installed, with a considerable overflow extending into the North half, where about one-third of the Jurassic collection is permanently placed.

A part of this unique collection, embracing nests of dinosaur eggs and a large series of skulls ranging from newly hatched up to adult skeletons, with the type specimens and finer examples of fossil mammals, has been temporarily installed in the center of the old Dinosaur Hall pending its reconditioning.

Central Asiatic Collection

Dr. W. D. Matthew resigned from the scientific staff in June, after thirty-one years' service in this department, to become Professor of Palæontology in the University of California. This announcement is made with the sincere regret, not only of members of this department, but of the entire staff of the Museum. Dr. G. G. Simpson, graduate of Yale University, was appointed Assistant Curator of Fossil Mammals on November 1st.

Changes in Staff

The following papers have been published by members of the department and associates:

Research "A Fossil Porpoise from California," by W. K. Gregory and R. Kellogg, *Novitates*; "Critical Observations upon Siwalik Mammals," by W. D. Matthew, *Bulletin*; "Hackberry Seeds from the Pleistocene Loess of North China," by R. W. Chaney, *Novitates*; "The Skull Characters of *Crocodylus megarhinus* Andrews," by C. C. Mook, *Novitates*; "A New *Populus* from the Eastern Altai Mountains," by Alfred Rehder and R. W. Chaney, *Novitates*; "A New Mammalian Fauna from the Fort Union of Southern Montana," by G. G. Simpson, *Novitates*.

In addition to these minor publications, Professor Osborn has

completed his colossal Monograph on the "Titanotheres," now in press, to be published by the United States Geological Survey, and his monumental work "The Evolution of The Proboscidea," an American Museum *Memoir*, is practically half completed. "Creative Education," a book of personal observation and experience, was published by Charles Scribner's Sons, and "Man Rises to Parnassus" was published by the Princeton University Press.

Mr. Childs Frick's parties continued explorations in California, New Mexico and Arizona, obtaining, besides a large general collection, two notable specimens—an unusually perfect group of three Oreodons, preserved in a resting position, and a partial skeleton of a gigantic camel, the skull of which is approximately a third larger than the largest living camel.

Field Work Mr. Barnum Brown conducted reconnaissance work in Colorado, New Mexico, Utah, Wyoming and Montana. In the latter State he discovered a dinosaur skeleton, re-covered it for future excavation, and secured a representative collection of a new microfauna of Eocene Mammals in a coal mine.

In New Mexico Mr. Brown visited the important locality near Folsom, where the Colorado Museum of Natural History has excavated several skeletons of an extinct species of Pleistocene bison associated with prehistoric artifacts, and uncovered the fifth stone implement so far discovered. Arrangements were made with the Colorado Museum to secure a large male and female skeleton of this bison.

Mr. Albert Thomson spent his seventh season in the Snake Creek Pliocene and Sheep Creek Miocene excavations in Western Nebraska, completing this part of our explorations. His work this year enriched our collections with some new species and several fine *Merychippus* horse skulls with jaws, a camel skull and a rare fossil antelope skull, besides many jaws and fragmentary skulls representing these rich faunae.

Carl Sorensen represented the American Museum on a joint expedition with the Colorado Museum in late Tertiary deposits of Western Nebraska. The party worked in various localities, and finished the season at Ainsworth, Nebraska, where they completed the excavation of an *Aphelops*, a rhinoceros skeleton, and packed and shipped a large collection jointly purchased by the American Museum and Colorado Museum from two local collectors—

Messrs. Skinner and Quinn. The American Museum's share of this collection includes a magnificent skull and jaws of the primitive mastodon *Tetrabelodon*, skeleton and skulls of *Aphelops*, and important horse, camel and carnivore material.

Much has been accomplished in laboratory work, cataloguing and reconditioning of collections. The Central Asiatic collection is nearly prepared; within a period of six months
Departmental one man will complete it. Two *Oxydactylus*,
Work camel, skeletons have been prepared ready for mounting, and the Jurassic dinosaur *Stegosaurus* assembled ready for mounting. Besides several minor collections prepared *in toto*, the Siwalik collection is nearing completion.

Two new rooms were arranged for casts and molds, and these materials were installed and partly catalogued. The entire fossil fish collection was reinstalled in the upper storage room of the east tower.

In addition to the collections secured by field parties, many exchanges of casts and original specimens have been made and noted elsewhere. Special mention should be made here of
Acquisitions the large and important collection of Florida Pleistocene mammals collected and presented by Mr. Walter W. Holmes, also to the rare collection of fossil mammal footprints—an unusual series, impressed in limestone, representing cats, tapir, camel and deer—collected by H. H. Nininger near Cornville, Arizona.

LOWER INVERTEBRATES

ROY WALDO MINER, Curator

During the year 1927, the work of this Department has been characterized by considerable progress on projects initiated during the past few years, and which, in spite of their magnitude, are now drawing rapidly to completion. In this work, the staff of the Department has shown commendable industry and energy, while our chief difficulties may be attributed to the paucity of funds assigned to us in comparison with the pressure and necessity for expansion due to the normal growth of our activities and their continually rising cost.

Work on the exhibits in the Hall of Ocean Life and in the Darwin Hall has been pursued with vigor. With the efficient cooperation of the Department of Construction, the ironwork and masonry construction for the Coral Reef Group **Exhibition Halls** has been substantially advanced. The backgrounds, curving around an area thirty feet in length and of the same total height, are ready for coloring. The framework on which the artificial sea-bottom is to be constructed has been prepared, and the huge plate-glass sheets, to form the transparencies to give the submarine distance effect, have been installed on sliding tracks to permit of their coloration. Three artists have been constantly employed in coloring the forty tons of coral specimens to be installed. The great twelve-foot coral tree has been colored and is now practically assembled on concealed iron supports. Work has been started on modeling sea fans and sea bushes, and other subsidiary forms of life. Mr. F. L. Jaques has completed the preliminary sketch for the great cyclorama of the coral lagoon to form the setting of the upper part of the group.

In the Darwin Hall, the remarkable glass modeling work of the Rotifer Group has been completed, and is a masterpiece of its kind. Finishing touches are now being added to the transparencies forming the background. Upon the completion of the outer transparency and work to be done by the Department of Construction on the great magnifying glass framing the group, this exhibit will be ready for public view.

Progress has also been made on new items for the Annulate Alcove, and an exhibit illustrating Variation of the Chipmunks of the Western United States has been completed and installed.

In the Shell Exhibit, a case containing a series of Atlantic Coast marine shells has been made ready for exhibition.

During July and August, the Curator, accompanied by Research Associate Myers and Dr. G. H. Childs, as artist, made a trip to Mount Desert Island, where, through the courtesy of Director Herbert V. Neal and his associates of the Mount Desert Island Biological Laboratory, he obtained additional observations for use in the Rotifer Group and studies for a series of annulate models for exhibition in the Darwin Hall.

During the past year, the important and elaborate paper, on "The Aquatic Mollusks of the Belgian Congo" by H. A. Pilsbry and J. Bequaert, was published in the *Bulletin*. Dr. Ralph V. Chamberlin's paper, entitled "The Chilopoda and Diplopoda Collected by the American Museum Congo Expedition," was also published, and is an important contribution to the knowledge of these groups in the region covered. Dr. H. W. Stunkard has completed and presented for publication during the coming year a noteworthy paper on the parasitic worms collected by the Congo Expedition. This will bring to a close the work of this department on this expedition, except for possible minor papers on a few scattered groups. Research Associate Frank J. Myers, as co-author with H. K. Herring, has published (January, 1928) the fourth part of their epoch-making work on North American Rotifers, under the auspices of the University of Wisconsin. The types described have been added to the collections of this Museum, by donation. Dr. Van Name reports progress with his monograph of American Isopods, and Curator Miner has continued his studies of corals and coral-reef fauna, as well as a work on the life of the oceans. He expects to present for publication this year a guide to exhibits in the Darwin Hall, which is also in progress.

Owing to the illness of Mr. Robert Hazard during several months of the past year, it is impossible to give a full report of

Educational Use of the Darwin Hall the use of the Darwin Hall by the students of the public schools and colleges. During each of the months recorded, however, the student attendance varied from 1,400 to 1,700, which indicates the continued usefulness of the exhibits to the total of 125 different institutions represented by the classes recorded. Visits by more than 6,500 pupils were recorded during five months.

Nearly 4,000 catalogued and identified specimens were added to the scientific collections of the Department during the year 1927, of which over 2,800 are coelenterates and crustacea.

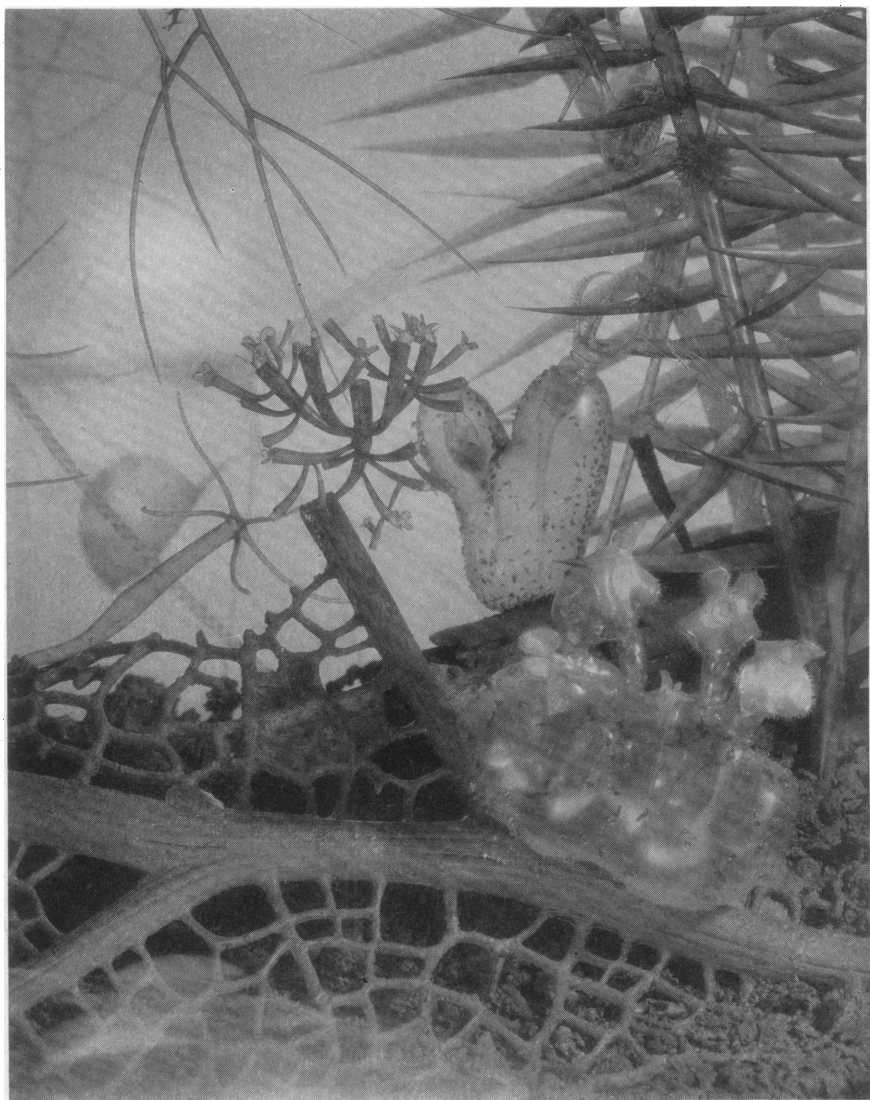
Scientific Study Collections The additions to the general invertebrate groups comprise 499 species, of which 255 are new to the collection, including 80 new genera.

Mrs. Ida S. Oldroyd, of Stanford University, continued her efficient work on the shell collections during two months of the year. The study collection was carefully revised, and all unidentified material named or taken to California for working up during the coming year. The location of the study collection was reorganized for more convenient reference, and substantial progress was made in cataloguing.

Doctor Van Name reports that the rearrangement of the lower invertebrates, made necessary by the great increase of catalogued material during the last few years, has been completed, with the exception of the coelenterates. The collection of Porto Rico invertebrates has been identified and catalogued, and material has been prepared for the preliminary reports in connection with the publications of the Biological Survey of the New York Academy of Sciences. Many identifications have been made for outside persons and institutions. The large Verrill Hawaiian collection has been catalogued and incorporated with the collections. This collection strengthens our Pacific invertebrate collections, which hitherto have been weak.

The most important accessions to the collections during the past year are: A valuable collection of land shells made in India by Mr. Barnum Brown and donated to the Museum; a

Noteworthy Accessions collection of 150 marine shells from Ireland, the gift of Mr. George Coughlin; 434 fresh-water pearl shells, 6 precious corals and other invertebrates, a valuable donation made



DEPARTMENT OF LOWER INVERTEBRATES

Section of the Rotifer Group
Pond Life Enlarged 400 Diameters

by Dr. George F. Kunz; a collection of fresh-water shells from Georgia, donated by Mr. E. S. Marks; a new instalment of mounted and identified rotifers, including 8 types, from Mr. Frank J. Myers; an important collection of identified shells from the island of Lifou, from Mrs. Ida S. Oldroyd; a series of models of dredges used on the U.S.S. "Albatross" for the Hall of Ocean Life, the gift of Dr. C. H. Townsend; a series of 300 identified annulates, including 9 paratypes, donated by Professor A. L. Treadwell. Also, by exchange, a series of identified ascidians from Dr. A. Arnback Christie-Linde of Stockholm, Sweden; 160 identified shells from New Zealand, including 60 species; a series of marine shells from the Loyalty Islands, from Mrs. Ida S. Oldroyd; and a collection of *Pyrosoma* from the Vanderbilt "Ara" Expedition. The important collection of marine invertebrates made by the late Professor A. E. Verrill in the Hawaiian Islands, comprising 4,238 specimens, mostly identified, was purchased from the Verrill Estate. Among collections brought back by Museum expeditions may be mentioned a series of 250 invertebrates from the Putnam Baffin Island Expedition; a collection of over 1,000 land and marine shells from the Solomon Islands, acquired by the Whitney South Sea Expedition; and a series of blind crayfish collected by Dr. G. K. Noble in Smalin's Cave in Missouri.

INSECTS AND SPIDERS

FRANK E. LUTZ, Curator

In most museums the entomological department has been founded upon the gift of one or more large collections made by amateurs. In the case of the American Museum

**Building an
Entomological
Department**

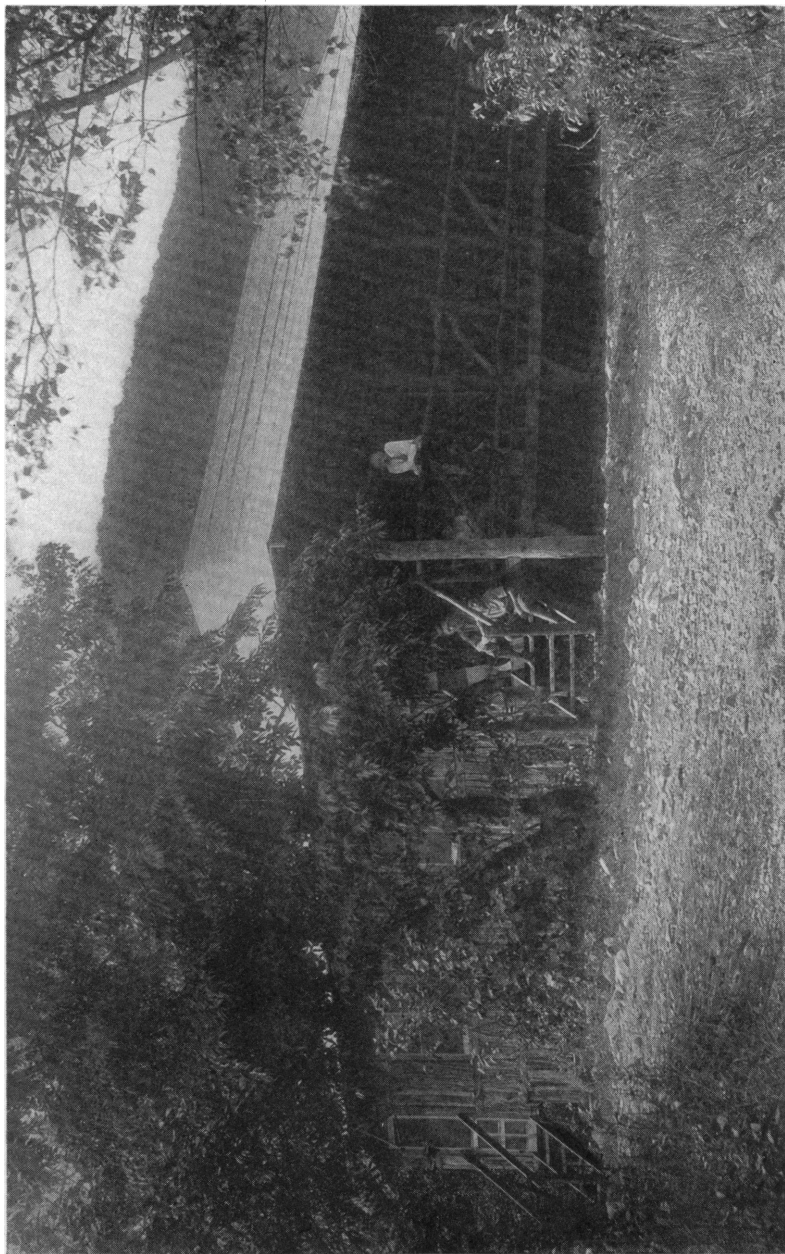
these foundation collections were those made by Baron Osten-Sacken, Russian consul general in New York City from 1862 to 1871, Coleman T.

Robinson, who at about the same time served without salary as our Curator, August R. Grote, and R. A. Whitthaus. A history of the relation between amateur entomologists and our museum during the first fifty years of its growth was given in the 1924 volume of *Natural History*, concluding with the following sentences:

"Naturally, we hope that our department may continue to enlarge its collections and, what is even more needed, its curatorial staff; but our most earnest hope is that we may be increasingly helpful to the amateur entomologist. It is from this class of naturalists that we derive much of our support, and honesty demands efforts to repay our debt."

Once established and with one or more curators in charge, it is to be expected that the collection of insects will be increased by the field activity of the curators. In a properly organized department such additions will be even more valuable than the gifts of miscellaneous collections because the field work will be done on a carefully predetermined plan and the specimens will come to the museum accompanied by notes of biological value.

However, entomologists suffer from an embarrassment of riches. Three-fourths of the known kinds of animals are insects, and, consequently, not only is each kind of insect more difficult to identify than is a species of a smaller group but there are three times as many to be named as there are of all other kinds of animals. It seems clear to an entomologist that a fair distribution of help would result in assigning to the entomological department of a museum three-fourths of the zoological staff. Lacking the specialists to identify large parts of any general collection, it does not seem desirable to obtain such collections, and therefore our expeditions tend more and more to bring back merely those few



DEPARTMENT OF ENTOMOLOGY

Laboratory of Field Station for the Study of Insects, Palisades Interstate Park, Tuxedo, N. Y.
The Museum Also Maintains a Nature Trail and a Testing Trail in This Park

groups for which we have specialists, resulting in a very uneven development of the collection as a whole.

However, the collecting and naming of specimens is only a part of entomology. So little is known of the habits, physiology and pathology of the 15,000 different kinds of insects to be found within a short distance of New York City (to say nothing of the rest of the world) that there is much to be done along those lines and such studies are of prime importance in man's battle with insects for the mastery of the earth.

Accordingly, the American Museum's entomological department established a field station near Tuxedo, through the courtesy of the Commissioners of the Palisades Interstate Park and with the help of financial contributions from a number of other friends. The purpose of this Station is to study insects in a very broad way. In the three years since our Station was established it has had volunteer assistance from bacteriologists, chemists, and physicists, as well as from entomologists, and has proved its value.

Thus, although the American Museum's department of entomology is small as compared with those of some other institutions and pitifully small as compared with the magnitude of its field, it has progressed from the purely amateur stage until it embraces not merely the naming of species but general biology as well.

RECENT AND EXTINCT FISHES

WILLIAM K. GREGORY, Curator

BASHFORD DEAN, Honorary Curator

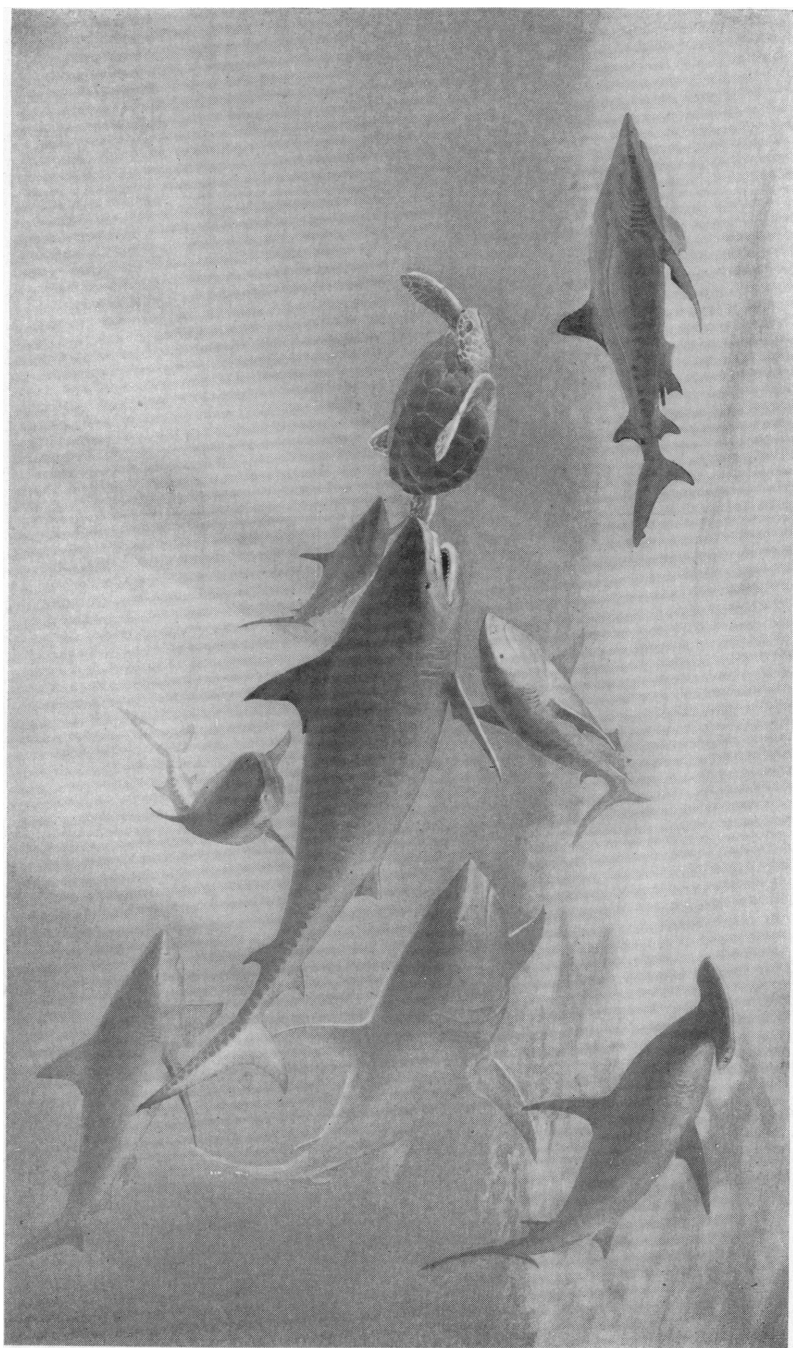
The equipment of the new Fish Hall, which has proceeded steadily during the past year, has reached about seventy percent of completion of the exhibits now in hand. The Department of Preparation, under the able direction of Assistant Director James L. Clark, has carried out our plans with great skill and artistic feeling, while the Divisions of Construction, under Mr. Beers, and of Lighting, under Mr. Langham, have at all times given us strong coöperation.

New Hall of Fishes

The Sailfish Group, which is the centerpiece of the Big Game Collection, has been completed, and all who have seen it agree that it is the climax of the entire Hall. We owe special acknowledgments to Mr. and Mrs. Keith Spalding for their generosity in connection with this group. The Shark Group, the centerpiece of the south end of the hall, is nearing completion. The series of four mounted groups, representing the Ganoid Fishes, has been rearranged with special lighting and new cases, and the same thing is being done for the Blue Shark, Sargasso Sea and old Deep Sea groups.

The new series of seven Deep Sea fish groups, by Dwight Franklin, which was begun last year, is nearly completed. Difficulties were encountered in securing sufficiently brilliant luminosity of the luminous forms without installing expensive and delicate apparatus, but through the kind advice and assistance of Professor R. W. Wood of Johns Hopkins University and Dr. E. E. Free of New York University, a satisfactory method was finally attained. The New York Zoological Society, through the kindness of Mr. Beebe, has presented a series of color drawings of deep sea fishes, with enlarged photographs of deep sea dredging operations on the "Arcturus," together with preserved specimens of deep sea fishes, all to be arranged as a special exhibit outside the partition in front of the Deep Sea mounted groups.

The installation of the Zane Grey collection of Big Game Fishes was completed. These superb trophies of Doctor Grey's prowess occupy the whole north wall of the hall and arouse all who have



DEPARTMENT OF ICHTHYOLOGY
Shark Group in the New Hall of Fishes

seen them to enthusiastic interest. The remaining cases of the Game Fish collection, as arranged by our Field Representative, Mr. Van Campen Heilner, also contain some fine examples of fresh-water, surf and ocean game fishes, presented by the late Jacob Wertheim, Mr. S. W. Eccles, and others. The large series of lifelike models and mounted fishes has been made during the past year and installed in the alcoves and wall cases of the collection illustrating the orders and families of fishes. Among the larger models and mounted skins are the Greenland Shark, Thresher Shark, Torpedo, a nine-foot Sting Ray, Mahseer or Great Carp, and Ocean Sunfish. The supervision of modeling and installation of the specimens in the systematic and game fish collections; preparation of copy for several hundred labels and the liaison work between the departments have been ably carried on by Miss Francesca R. La Monte. Over five hundred small labels giving the common and scientific names of each specimen have been made by hand on celluloid. Unfortunately, funds for the series of mural paintings, which are to be the centerpieces of the systematic collection, were lacking, and so the hall will have to be opened without these important decorative and educational units. Meanwhile, Miss Isabel Cooper, under the Curator's direction, has designed a series of decorative charts illustrating the interrelationships of the principal families of teleost fishes, for use in the systematic collection, and two large decorative panels, one representing the Evolution of Fishes in Geologic Time, the other representing the Descending Zones of Fish Life from the surface to the bottom of the ocean.

The Biological Exhibit has recently been started. It will illustrate the locomotor machinery of fishes; their diverse body forms; the ways in which fishes resemble ships and differ from them; the food-getting apparatus; the digestive apparatus; care of the young; reproduction, etc. For the present, the Giant Manta and some other large rays have been hung along the east wall of the central enclosure, but eventually they all have to be transferred elsewhere to make room for the future mounted groups of Hawaiian reef fishes.

Mr. William K. Vanderbilt presented a beautiful series of water-color pictures of oceanic and deep-sea fishes collected by him on his cruise to the Galapagos Islands in his yacht, the "Ara." The paintings are very accurately drawn and colored from fresh speci-

mens, by Mr. William Belanske. They have been placed on two long panels on either side of the main entrance to the hall.

From present indications, sufficient progress in the construction and installation of the exhibits and on the lighting of the hall will have been made to justify opening the hall to the public early in 1928; but the hall will not be entirely completed for some years, as many groups already planned for have still to be made. For the near future, the most important matters are the development of the Biologic Exhibit and the painting of the murals for the alcoves of the systematic collection.

Among important accessions to the study collections were the beautifully preserved fishes from the Red Sea and Nile River, collected by Mr. Frederick K. Taylor and Mr. Harold E. Anthony during the Taylor Sudan Expedition.

Work on the Continuation Card Catalogue of the Bibliography of Fishes has made good progress during the year, and a large number of important references to the literature of ichthyology have been made available. Continued efforts to bring the Bibliography and the Catalogue to the attention of students of fishes all over the world have resulted in 77 orders this year for the printed work,—these are chiefly orders for all three volumes. There has also been a noticeable increase in the use of the Continuation Catalogue, and requests for the references therein are coming in from scientists and students in Europe, Asia and America.

Among research and publication work in the department, the following may be mentioned: the publication of the extremely useful handbook of Marine Fishes of New York and Southern New England (published by the New York Zoological Society), by Nichols and Breder; the publication in the Museum *Bulletin*, of The Fishes of Hainan, by Nichols and Pope, completing the reports on undescribed fishes of the Asiatic Expedition; the completion of Curator Nichols' illustrated Checklist of Chinese fishes, which awaits publication in the *Bulletin*; the completion of a paper by Nichols and Breder, dealing with the evolution of Flying Fishes, awaiting publication in *Zoologica*. Dr. Gudger has published twelve papers during the past year, of which nine were published in various journals outside the Museum.

The Curator continued his studies on the anatomy of the skull of recent and fossil fishes and supervised the making of a large series of excellent drawings by Mrs. Louise Nash. The department has been especially hampered by the small appropriation available for illustrations.

Other papers prepared by members of the Department Staff are: By Dr. Gregory, 1 published in the *Dollo Festschrift*, and 1 for *Zoologica* (in press); by Mr. Nichols, 1 in *Novitates* and 2 in *Natural History*; by Mr. Nichols and Mr. Breder, 1 in *Natural History*; by Mr. Nichols and Mr. Boulton, 1 in *Novitates* and 1 in *Copeia*; by Dr. Gudger, 9 in press or ready for publication; by Mr. Breder, 1 in *Bulletin Bingham Oceanographic Collection*, 1 in *Copeia* and 1 in the *Museum Bulletin*.

The study collection of fossil fishes has been transferred to new and more commodious quarters in the attic of the southeast wing.

The most noteworthy accessions during the year have been the gift of a large series of Cretaceous fishes from Mt. Lebanon, presented in exchange by Beirut College, Syria, through the kindness of Dr. Alfred Ely Day, and the gift of six very valuable fossil Anaspida from Ringerike, Norway, presented in exchange by Dr. Johan Kiaer.

The exhibit of fossil fishes has been closed to the public, owing to necessary changes in an adjoining hall. It is hoped that it may be opened again during the coming year, as this collection has been much studied by university classes in palæontology. Great advances in this field are being made, but without special assistance in the department we are unable to keep up with them.

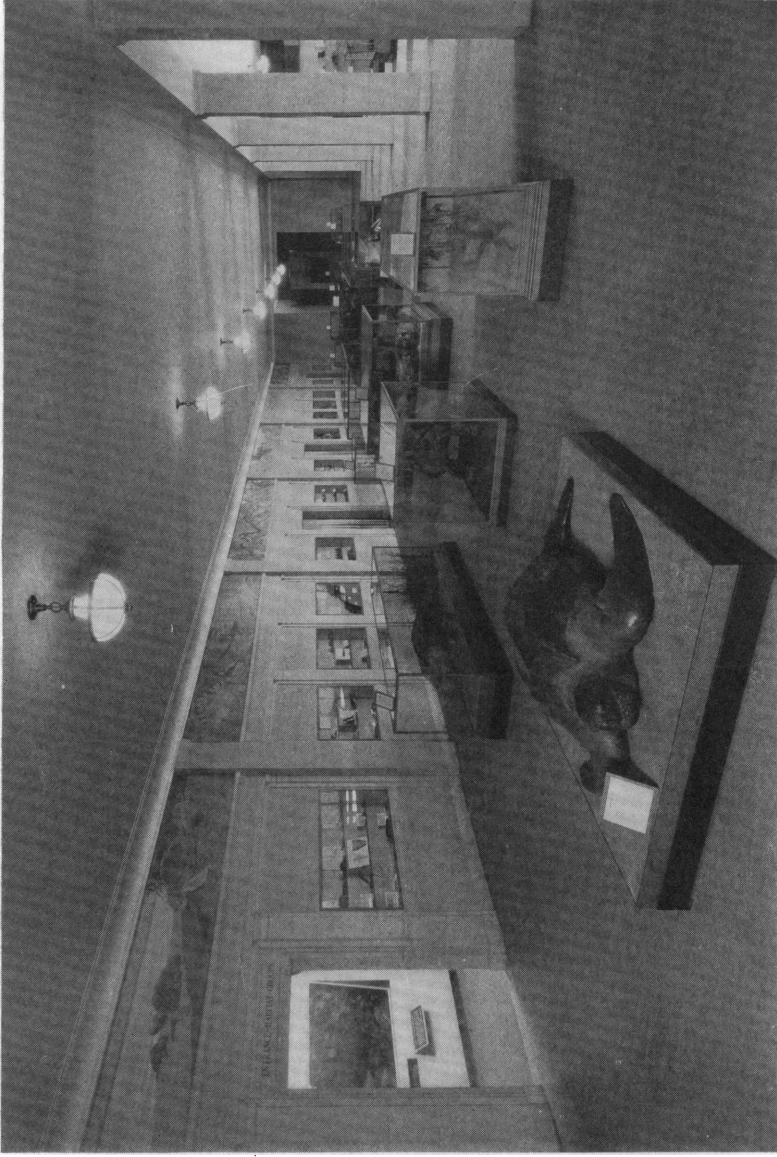
REPTILES AND AMPHIBIANS

G. KINGSLEY NOBLE, Curator

The year 1927 will be remembered as one of the most important in the history of the Department. The New Hall of Reptiles with its many innovations and striking demonstrations of reptilian and amphibian life was opened to the public in June. The staff then turned its attention to the completion of scientific work in progress, with the result that more papers were published than in any previous year. An advance was made over the brilliant record of last year in the number of reptiles and amphibians received and accessioned. This was made possible largely by special funds secured through the efforts of Mr. W. Douglas Burden. These funds have also permitted the Department to place its research program on a much more comprehensive basis, and results of general interest to all students of animal life may be expected.

The primary work of every scientific department in the Museum is the planning and arranging of exhibitions which will best portray the most essential and interesting facts concerning one or more groups of animals. Such exhibitions usually develop slowly over a long period of years. At rare intervals, a curator has the opportunity of completely rearranging the existing exhibits and of installing them in a more unified manner. The assigning of the whole third floor of the New East Wing to the Department gave the American Museum an unrivaled opportunity of exhibiting reptiles and amphibians. Work on the installation of old groups and the construction of new exhibits was advanced rapidly after the completion of the new section, and a formal opening of the new hall was held the middle of June.

The public visiting our halls have varied interests. Perhaps the majority are attracted by the more spectacular or odd creatures. But there are a great many who come to be informed about animals they have seen or expect to find. No one type of exhibit will appeal to all visitors. A large habitat group which stirs the emotions of even the most casual visitor will naturally fail to show the relationships of the forms considered. With modern technique it is possible to reproduce with startling realism the most



DEPARTMENT OF HERPETOLOGY
New Hall of Reptiles and Amphibians Opened June 14, 1927

beautiful scenes in nature. But the Curator's task only begins with the habitat group. He must in supplementary exhibits dissect and analyze Nature in such a way that the public will understand the principles controlling the life of the creatures portrayed. The ultimate purpose of an exhibition hall is the demonstration with specimens and models of the fundamental biological principles controlling life in general.

In the New Hall of Reptiles an attempt has been made to satisfy the diverse demands of the public. On entering the hall, one is attracted by four floor groups portraying the largest of existing reptiles. On the right of the hall displayed is the unique group of Dragon Lizards; on the left a series of habitat groups showing the home life of American reptiles and amphibians is in an enclosed corridor. The visitor who does not enter the darkened corridor at once will find his attention attracted to the many floor groups showing reptiles and amphibians in their natural environment. The remainder of the exhibits represents an analysis of reptilian and amphibian life. There are cases which answer such common questions as, "How do reptiles and amphibians feed?" "How protect themselves?" and "How breed?" Or again, "What is the economic value of reptiles and amphibians?" The whole west wall of the main hall is equipped with attractive sunken cases in which some of the principles controlling the existence of reptiles and amphibians are illustrated. These exhibits include "Natural Selection, the Directing Principle of Evolution," "Isolation, a Major Factor in the Origin of Species," "The Growth Factor in Evolution," "Parallel Evolution," "Concealing Coloration and Form," "Adaptation," "Parallel Evolution," etc. At the far end of the hall is a case devoted to "Snake Yarns" and another to "The Reptile Skeleton." The central exhibit at this end of the hall is a habitat group of sea snakes illustrating their feeding habits and also showing how an eel of the same region imitates the snakes in color and in this way gains protection from its enemies.

A great many of the exhibits in the new hall were prepared this year. Thanks are due especially to Miss Sarah Davis for her skill in employing the new technique of paraffin infiltration in much of this work. Through the assistance of the Department of Preparation a series of group-lets was made with many of the infiltrated specimens.

**Exhibition
Work**

In addition to the Sea Snake Group, two other habitat groups were completed before the hall was opened to the public. The first was a group of Leatherback Turtles feeding on the bottom in shallow water off the New York coast. The other was the West Indian Tree Frog Group mentioned in a previous report. The latter group portrays a West Indian mountain ravine with many tree frogs breeding in its vicinity. One type lays its eggs in the water where they develop into tadpoles; the other lays eggs on land, and these hatch out as fully formed frogs. The magnificent Dragon Lizard Group was brought nearly to completion by the close of the year.

In preparing for the opening of the new hall, the entire exhibition collection was rearranged, and every label rewritten. The latter task was found necessary in order to give uniformity to the hall. It was also found desirable to print by hand the explanation to the "biological diagrams" which play such an important part in increasing the teaching value of the hall.

For many years biological laboratories have been investigating the processes which control animal form and structure, while on the other hand, museums have been storing up specimens which represent the results of these processes.

Exploration Very little attempt has been made previously, at least in museums, to determine exactly what factors have changed species A into species B. With the increasing importance of the experimental method in modern zoölogy, the need of developing this type of research in the Museum laboratories has become obvious. The American Museum has been one of the first to recognize the importance of this work, but, under the heavy financial obligations of recent years, little support could be given to it. During the past year, through the efforts of Mr. William Douglas Burden, a sum was made available to take up the work again on a much more comprehensive basis. Three expeditions were sent into the field to investigate salamanders under natural conditions and to collect a series of living specimens for an experimental analysis of the more important features of their biology. Mr. Clifford H. Pope went to the mountains of western North Carolina and to Kentucky to work on the distribution, habits and life histories of several little-known forms. He succeeded in discovering the eggs of the rarest of these, *Aneides æneus*, and of working out many

facts of evolutionary importance concerning others. Mr. William G. Hassler collected *Cryptobranchus* and *Necturus* in western Pennsylvania. He discovered several nests of the latter form and sent to the Museum laboratories many living specimens. The Curator, during September, explored the caves of the Ozark Mountains and collected a large series of blind salamanders, *Typhlotriton*. Experiments were at once begun to determine the cause of blindness and depigmentation in these strange cave animals. By the close of the year satisfactory progress in this study had been made. There is no doubt that the experimental method will solve many problems which have puzzled naturalists for centuries. Incidentally the three expeditions netted over fifteen hundred preserved specimens of reptiles and amphibians which have been placed directly in our study collections.

During the current year the results of several different investigations were published. The diversity of subject matter is a fair **Research** index of the many-sidedness of the Department's **Results** search activities.

Chinese Fauna.—Three papers by Mr. K. P. Schmidt dealing with the collections of the Asiatic Expeditions were published in the *Bulletin*: one considers the Hainan reptiles, the other two the mainland collections.

East Indian Fauna.—Three papers considering the reptiles and amphibians collected by the Burden East Indian Expedition were published by Dr. E. R. Dunn in *Novitates*. The first deals with the osteology and relationships of *Varanus komodoensis*; the other two report the reptiles secured by the expedition and give descriptions of the new forms. A fourth paper describing the Amphibia has been completed.

Amphibian Life Histories.—An extensive paper by the Curator on the "Value of Life History Data in the Study of the Evolution of the Amphibia" was published in the *Annals of the New York Academy of Sciences*.

Anatomical Studies.—These deal chiefly with the integument and osteology of various Amphibia. The Curator published in *Novitates* a paper on "The Plethodontid Salamanders; Some Aspects of their Evolution." He has in press a paper with Miss Jaekle on the tree-climbing mechanism of Amphibia.

Local Fauna.—The Curator published in the *Guide Leaflet* Series a "Distributional List of the Reptiles and Amphibians of the New York City Region." Mr. Hassler published a note in *Copeia* on "The Fence Lizard in the Hudson River Valley."

General Studies.—A pamphlet by Mr. Hassler on "Reptile Study" in the Merit Badge Series of the Boy Scout publications has appeared. It is intended to guide the Scouts in their field work with reptiles. The Curator has prepared three articles for the forthcoming edition of the *Encyclopædia Britannica*. The longest is a general article on the Amphibia.

Popular Articles.—Mr. Clifford H. Pope has published three articles dealing with his work in China: one appeared in *Asia*, another in *Boy's Life*, and the third in *Natural History*. Mr. Hassler wrote some notes on the largest leatherback turtles for *Natural History*. The Curator published in the same journal an article on "What is Inherited?" and another describing his field work in the Ozarks. He also published an article on Reptiles in the new Boy Scout Handbook which has just appeared.

Miscellaneous.—Under this head may be listed a note in *Copeia* by Dr. Hoffmann and the Curator on "The Bullfrog in Cuba," also a book review of Dakin's "Elements of General Biology" published in *Science* by the Curator.

In addition to the papers listed above were several others completed this year. One by Dr. E. R. Dunn reports the Mexican Snakes in the American Museum collections. A second by Mr. Pope is a record of the habits and relationships of the salamanders he collected in North Carolina and Kentucky. In a third paper the Curator describes "Two Fossil Amphibia of Zoögeographic Importance."

Many of the activities of the staff outside of Museum hours are of great importance towards increasing the scope of the Department's work. The Curator is one of the section editors of *Biological Abstracts* and also collaborates in the writing of abstracts. Mr. Burden's remarkable film, "The Dragon Lizards of Komodo," was loaned to the Department last year for the purpose of increasing its re-

Extra-
Mural
Activities

search funds. The Curator introduced the film before a variety of audiences and found this new departure in fund-raising the most successful yet attempted by the Department.

Mr. Hassler and the Curator, through their work with the Boy Scouts, have added considerably to the number of boys actively engaged in reptile study. On Saturday afternoon the study rooms of the Department are usually filled with scouts seeking advice from Mr. Hassler, who is not only an Assistant Scout Master, but also the author of the scout publication, *Reptile Study*.

One of the major purposes of the Department is the maintenance of an extensive collection of preserved reptiles and amphibians which are available to any serious student. This year extensive loans of snakes and lizards were made to research workers at the University of Michigan. Other loans of lizard and frog material were sent to the Museum of Comparative Zoölogy at Harvard University. Dr. S. C. Bishop of the State Museum, Albany, and Dr. E. R. Dunn of Smith College have also availed themselves of the opportunities afforded by our collections.

On the other hand, hundreds of specimens are sent each year to the Museum for identification. This year such material was sent from Colombia, Mexico City, Honduras, South Africa, China, and many parts of the United States. Usually the sender offers part of the collection in exchange for our trouble in identifying the material. In this way our collection is becoming rapidly built up with specimens from all parts of the world.

During the past year, 12,757 reptiles and amphibians have been received and accessioned. Of these, 3,239 are reptiles and 9,518 amphibians. The number received through gift is 465 reptiles and 252 amphibians; through exchange, 62 reptiles and 499 amphibians; through purchase, 11 reptiles and 350 amphibians; through expeditions, 2,701 reptiles and 8,417 amphibians. This year, as in previous ones, the expeditions have secured the great majority of specimens.

Among the many who have given material to the Department collections this year, mention should be made especially to Mr. Jay A. Weber, who has continued as in previous years to give us the

choice selection of his private collection. Brother Nicéforo María of Bogotá has sent us a handsome collection of South American reptiles and amphibians. Professor W. H. Hoffmann of Havana has sent us many living specimens during the year, while Professor de la Torre of the same city has sent an important collection of rare Cuban reptiles. Mr. L. M. Klauber of San Diego, California, has presented us with a number of living Amphibia which have materially helped our researches.

In conclusion, it may be emphasized that the Department, while upholding the high standard of exhibitional and educational work found throughout the Museum, has made rapid advances in applying the experimental method to natural history problems. This field of approach offers unsurpassed opportunities for determining *causes*, not merely *courses*, of change in organisms. If modern biological methods are to be applied to the old and fundamental problems of natural history, special funds must be made available to support the work. A fund of fifteen thousand dollars would give the Department an adequate equipment to carry on the work for the next two years.

**Future
Outlook**

BIRDS

FRANK M. CHAPMAN, Curator-in-Chief

The exhaustion of publication funds has made it inadvisable for members of the department staff to concentrate on the preparation of lengthy scientific reports during 1927. Consequently, the order of the day has been emphasis on collection and accession. Thanks to Dr. Murphy's visit to European museums in 1926, and Dr. Sanford's visit to British museums during the past summer, cooperative relations have been established with various institutions, and fruitful exchanges have added greatly needed material to the collection. Special effort has been made to round out this institution's representation of the genera of the birds of the world. At the beginning of 1926 we lacked 259 Old World genera and 30 New World genera, but this list has now been reduced to 141 in all.

Since the first of the year we have received thousands of birds collected by Beck in Melanesia; several thousand more collected by the Olallas in Upper Amazonia; over one thousand specimens from northeastern Brazil; 800 specimens from western Panama; two thousand specimens from Guatemala; about 150 selected specimens collected by Brown in various parts of Mexico, the gift of Dr. L. C. Sanford; advance shipments from Tate from Brazil, containing two or three exceedingly rare and desirable birds, including a genus new to the collection; and an interesting collection from the Azores.

Perhaps the most notable genus received in exchange from the Museum of Comparative Zoölogy is a specimen of the extinct *Ciridops* of the Hawaiian Islands, of which there are only two specimens in this country. From the same source we have also received a skin of the peculiar Hornbill from Narcondam Island, in the Bay of Bengal. Forty years ago, when this species was discovered there, there were only about two hundred individuals on the island. Mr. David Binney Putnam has presented the skin of a young Blue Goose taken by him in Baffin Land. It is the first juvenal bird in the wild state known to science.

In addition to the accessions listed above, various members of the Museum staff have contributed very desirable material. Mr. Anthony, for example, procured a collection of birds in the eastern

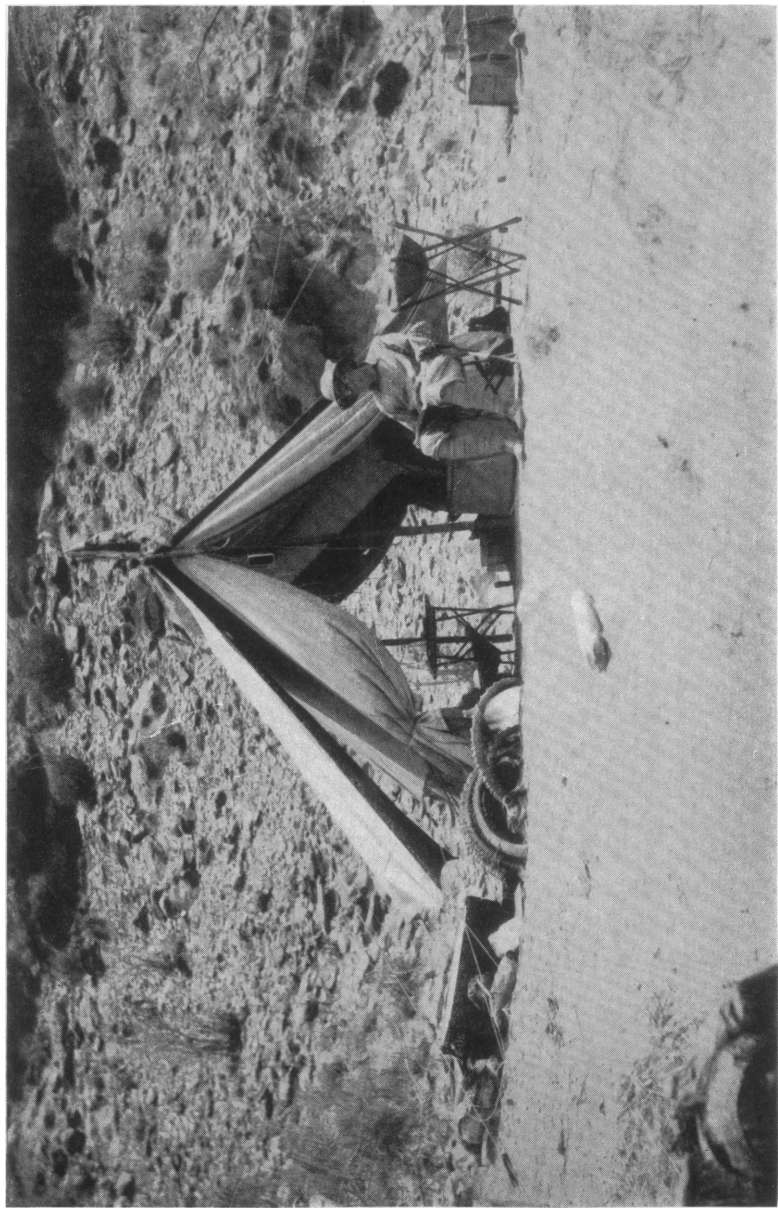
Sudan. Mr. Granger made a collection in Yunnan, China. Dr. Chapin has just returned from Africa with 2,692 specimens, and the Griscom-Crosby Expedition to eastern Panama brought back 287 specimens, including five new forms.

One important point was emphasized in connection with our relatively great accessions, and that is that the space to house them is entirely occupied. The problem of how to take care of future accessions is now acute.

The time of the Staff has been roughly allocated as follows: Dr. Chapman spent the winter on Barro Colorado Island, in the Canal Zone, engaged in field studies of the Oropendola, and studies for the group which was opened to the public during December. He has devoted the balance of the year to research on eastern Ecuador and Upper Amazon collections, and to exchanges that are being made with this material. Several preliminary papers have been published containing descriptions of new forms and a review of *Saltator aurantiirostris*. Dr. Murphy has devoted himself primarily to work on the Brewster-Sanford collection and also to exchanges and the care of the Polynesian material. He has published several preliminary papers based on the Brewster-Sanford collection. Mr. Miller has, as usual, devoted a greater part of his time to anatomical researches.

Dr. Chapin returned in September from an African journey financed chiefly by Mr. H. W. Sage, during the course of which he spent 18 months in the field between Mombasa and Cape Town. Throughout the expedition he was accompanied by Mr. De Witt L. Sage, and for the first five months by Mr. Frank P. Mathews. The results have been particularly fruitful, the collection including many birds from East Africa, the Ruwenzori mountain range, the Semliki Valley, the regions west of Lake Edward, and the Kivu Volcanoes.

Mr. Griscom, with the volunteer assistance of Mr. Maunsell S. Crosby, was in eastern Panama during the winter and early spring, and since his return has published a report on the collections made, and another describing all the new forms in the collections received in recent years from western Panama. Dr. Dwight's long illness has prevented him from making much progress in his Costa Rica and Guatemala collections; but he and Mr. Griscom have published two preliminary papers, one a revision of the Blue Grosbeak, and the other a description of a remarkable new genus of



DEPARTMENT OF MAMMALOGY

Camp of Taylor Sudan Expedition in 1927

This Expedition Was Financed by Mr. Irving K. Taylor

Flycatcher from Guatemala. Mrs. Naumburg has been working, as time permitted, on her Brazilian collections.

An important project in South American ornithological research was launched during the year through the generosity of Mr. Lee Garnett Day, of New York. Mr. Day provided funds for a long-anticipated expedition to the isolated Mt. Roraima, in Guiana. In August, Messrs. Tate and Carter, representing the Museum, sailed up the Rio Branco, Brazil, and before the end of the year they had already attained the summit of Roraima.

On November 1, Mr. Griscom resigned from the staff of the department to accept a post with the Museum of Comparative Zoölogy at Cambridge, Massachusetts.

MAMMALS

H. E. ANTHONY, Curator

In building up a museum department there are three main phases of activity which must be considered. These are so fundamental that a neglect of any one of them cripples a department and renders it inefficient.

**Building Up
a Department**

The first of these activities is the collection and careful custody of specimens, the raw material that serves as the foundation for all subsequent work in the department. The second activity is the identification, study, and publication of all research based upon this material which is of sufficient importance to justify the outlay of time and money. The third activity, and from the point of view of the general public the most important, is the creation of exhibits which are true to fact, interesting, and instructive. Each of these activities is closely dependent upon the others for the fullest expression, and every year plans are made in the Department of Mammals with this end in view, that the departmental resources may be strengthened in collections, exhibitions and publications. Not infrequently one phase of activity outruns another, but before this condition has resulted in uneven development it is advisable to plan for a readjustment and catch up in the neglected quarters.

During 1927, the greatest activity has taken place in collection and exhibition. So many of the departmental personnel have been in the field that work on publications has dropped behind in consequence. Although shortage of museum funds prevented the planning of expeditions financed by the department, generous outside support from friends of the Museum made possible several very important undertakings and the accession of much valuable material for the collections.

The Taylor Sudan Expedition returned to New York on June 14, after an absence of nearly seven months. This expedition was entirely financed by Mr. Irving K. Taylor, who generously donated to the Museum everything taken on the trip. Curator H. E. Anthony accompanied Mr. Taylor as the Museum naturalist.

The party covered an extensive itinerary in the Anglo-Egyptian

Sudan, traveling about 4,000 miles during the time they were in this region. The principal objects of the trip were the collecting of specimens of mammals, birds, fishes, and reptiles, and in this the expedition was very successful. More than 250 mammals, 500 birds, hundreds of fishes, and a small collection of reptiles were brought back to the Museum. In addition, important photographic results were obtained, both motion pictures and still.

The work in the Sudan was divided into three principal stages. Outfitting at Khartoum, Messrs. Taylor and Anthony took two native sailing craft—nuggers—and spent a month working south along the White Nile, stopping to collect on either bank wherever conditions were favorable. Most of this time was spent in building up series of birds and small mammals.

On February 15, the expedition took over a charter on the "Beatrice," a Nile shooting steamer, and for the next six weeks the main emphasis was laid upon larger mammals. Steaming south from Khartoum up the White Nile, no stop was made for collecting until the Bahr-el-Ghazal was reached. From there southward to Mongalla the boat tied up wherever game was plentiful, and splendid series of large mammals, such as Buffalo, Nile Lechwe, White-eared Cob, Waterbuck, Tiang, Roan, Gazelles, etc., were secured. Some of this material will be used for exhibition purposes, and work has been started on groups of Lechwe and White-eared Cob. Although 1927 was a year of high Nile and the tall grass was too green to burn, resulting in far more cover than during normal years, the expedition was fortunate in securing a representation of all the species for which the trip was particularly planned.

At the conclusion of the collecting on the Nile, the party moved into the Red Sea Provinces and made a trip into the Red Sea Hills, especially for the Nubian Ibex. Here four good specimens of Ibex were taken, as well as other desirable species of that dry region, such as Wart-hog, Dorcas Gazelle, and Ariel.

The expedition awaited a homeward-bound steamer at Port Sudan on the Red Sea and improved the interval by collecting the brilliantly colored shallow-water fishes about the harbor. A great number of these were brought back as specimens.

The Morden-Clark Expedition, which was in Asia at the time of the last annual report, returned to the Museum in February,

1927. As has been previously reported, the purpose of this expedition was to secure specimens of the large mammals of the Pamirs, the Thian Shan Mountains, and of Central Asia in general, with especial regard to a series of the largest of all sheep, *Ovis poli*. After traversing an itinerary of 7,800 miles, during which the transportation facilities varied from horses, camels, and coolies to motors and railroads, the expedition eventually achieved its purpose. Mr. William J. Morden planned and financed this expedition and acted as leader of the party, and Mr. James L. Clark, Assistant Director of the Museum, was the museum representative.

The expedition left the United States January 30, 1926, and two months later set out from Srinagar, Kashmir. The Russian Pamirs were entered by way of the Gilgit-Hunza route, the expedition being the first granted the privilege of transporting full equipment over the difficult passage. In the Pamirs, twenty-seven specimens of the spectacular Marco Polo sheep (*Ovis poli*) were obtained in a month's strenuous hunting at altitudes averaging 15,000 feet. Owing to the unusually early season in which the expedition reached the hunting grounds, they were able to obtain *Ovis poli* in their winter coats.

The Thian Shan Mountains were next visited. Here, in about two months' collecting, a splendid series of Ibex and Roe Deer were secured, and data were taken from which groups could later be constructed.

At Urumchi, the capital of Chinese Turkestan, the expedition re-outfitted and left October 16 for Kuchengtze, where camel transport was taken for the journey to Mongolia. Outer Mongolia was entered November 1, but six weeks later a band of suspicious and unfriendly Mongol soldiers captured Mr. Morden and Mr. Clark. For two days they were tortured and kept tied to a post in weather below zero. After enduring unusual hardships, they were released and late in December reached the Trans-Siberian Railroad, whence they proceeded to Peking, arriving there January 1, 1927, just nine months after leaving Kashmir.

The expedition returned with not only a fine series of skins, complete skeletons, and full scientific measurements of the large game of the country which they visited, but a complete record of the trip in motion pictures, still photographs, and field notes.

Through the generosity of Mr. Childs Frick, Mr. George G. Goodwin, assistant in the Department, continued the field work in the Gaspé Peninsula begun in 1923. Mr. Goodwin spent six weeks with Mr. Frick in the valley of the Cascapedia River and brought back a valuable collection of 350 specimens of mammals which includes rare species of Shrews and Voles.

An expedition from which much is expected left New York early in July to explore the region about Mt. Roraima in British Guiana. This expedition, known as the Lee Garnett Day Roraima Expedition, is in charge of Mr. G. H. H. Tate, who is accompanied by Mr. T. D. Carter, both of the Department of Mammals. Geoffrey Tate went with the party as a volunteer assistant. The biological exploration of the Roraima sector is one of the most important pieces of South American work upon which this Museum could be engaged, and the department is especially fortunate in having the interested coöperation of Mr. Lee Garnett Day whose financial support alone has made the expedition possible. Communications from the field have informed the Museum that the party has successfully penetrated to Roraima. The itinerary was by way of the Amazon to Manaos, thence north along the Rio Branco to the limit of launch navigation, and from there on by means of canoes and Indian porters. Due to the customary delays, it was some weeks after leaving Manaos before the final objective was reached, but specimens have been collected en route and the time has not been lost.

The especial importance of Roraima as a focus of zoological interest lies in the fact that it is the highest plateau in north-eastern South America and represents a remnant of a former elevated area which undoubtedly had a fauna more or less peculiar to it and with elements found today only in the Andes far to the west. The Museum expedition spent some days on the summit of Roraima, and although the word received from the party has been only fragmentary, there is reason to believe that collections of great scientific value will be brought out.

A less promising part of the word received told of widespread forest fires of several seasons previous which had wiped out most, if not all, of the primeval forest about the foot of Roraima, a fact that may interfere with the securing of a complete collection in that particular section. The expedition is expected to return early in 1928.

Valuable additions to the collections have come in during the year from the Olalla Brothers, working for this Department and the Department of Birds, on the Ucayali and other tributaries of the Upper Amazon River, and from Mr. A. W. Anthony in Guatemala.

Some valuable specimens of Alaskan mammals have been donated to the department by Mr. Van Campen Heilner, Field Representative of the Department of Ichthyology. **Gifts** Mr. Heilner made a trip to King Cove on the Alaskan Peninsula after the Big Alaska Brown Bear, *Ursus gyas*, and was successful in securing four animals, a good-sized male, a female, and two young. Measurements were taken, skeletons saved, and data collected for the possible use of this material in an Alaska Bear Group. Mr. Heilner also donated a splendid head of Grant's Caribou, *Rangifer granti*, which has horns of record size.

A very fine collection of 105 heads and horns was presented to the Museum by Mr. Norman de R. Whitehouse. The trophies are from animals shot by his father, the late Mr. J. Henry Whitehouse, and represent many successful hunting trips into almost all parts of the world. Many of the heads are of rare species, and some are unusually large specimens, especially an Indian Buffalo which was listed by Rowland Ward in 1922 as the second largest on record. The gift was received with the understanding that the Museum had the privilege to dispose of any specimens which could not be placed on exhibition here, and thirty-two of the best heads were donated by the Museum to the National Collection of Heads and Horns of the New York Zoological Society in Bronx Park, where they will be displayed with labels telling their history.

The needs of exhibition have received considerable attention during 1927. Plans of far-reaching scope have been formulated and set in train, and work has been directed along **Exhibition** lines already laid out.

In the *Hall of South Asiatic Mammals* noticeable progress has been made. Some seven groups of mammals are being withdrawn temporarily from the Southeast Wing and installed in glass cases on the Third Floor, West Corridor. The species being placed in cases are the Black Buck, Thamin, Chital, Sambar Deer,

Marsh Deer, Nilgai, and Sumatran Rhinoceros. This provides for the groups in question a safe method of storage while it also allows many of the Asiatic mammals to be placed on public exhibition. Of even more importance, however, is the fact that the *Hall of South Asiatic Mammals* is freed for the time being of seven groups and the Department of Preparation has the space to begin the erection of large background cases and the permanent construction which must be completed before this hall is finally ready for opening to the public. The larger mammals mounted and now ready for installation include Indian Elephant, Gaur, Indian Buffalo, Indian Rhinoceros, and Tiger.

Mr. Arthur S. Vernay, who has displayed such a keen interest in the development of this hall, and who, with Colonel Faunthorpe, has undertaken to collect all the necessary groups of South Asiatic mammals, has placed the Museum yet more deeply in his debt by setting forth for Asia once more to secure desiderata. The prize which he wishes to add to the hall is the Sonda Rhinoceros, *Rhinoceros sondaicus*, becoming very rare and threatened soon with extinction. Mr. Vernay believes he has information which will allow him to collect this scarce mammal, which, if he does, will make the American Museum collection of Asiatic Rhinoceroses complete.

Mr. Vernay has taken with him Mr. A. E. Butler and Mr. Clarence C. Rosenkranz of the Department of Preparation, with the plan to secure background studies and accessory material for the groups of Asiatic mammals. When these preparators return, they will stop at Angola to make similar studies for the magnificent group of Giant Sable Antelope which Mr. Vernay has so generously donated to the African Hall.

With all this activity on the *Hall of South Asiatic Mammals*, it is expected that the hall will soon reach the stage where the final, finished product is in sight. The necessary structural changes in the *Hall of North Asiatic Mammals* have been started, and the high dome of the hall is being erected.

The plans for the new *Hall of African Mammals* have been taken over by Mr. Daniel E. Pomeroy since the passing of Mr. Carl E. Akeley. Although a great deal has been done on this

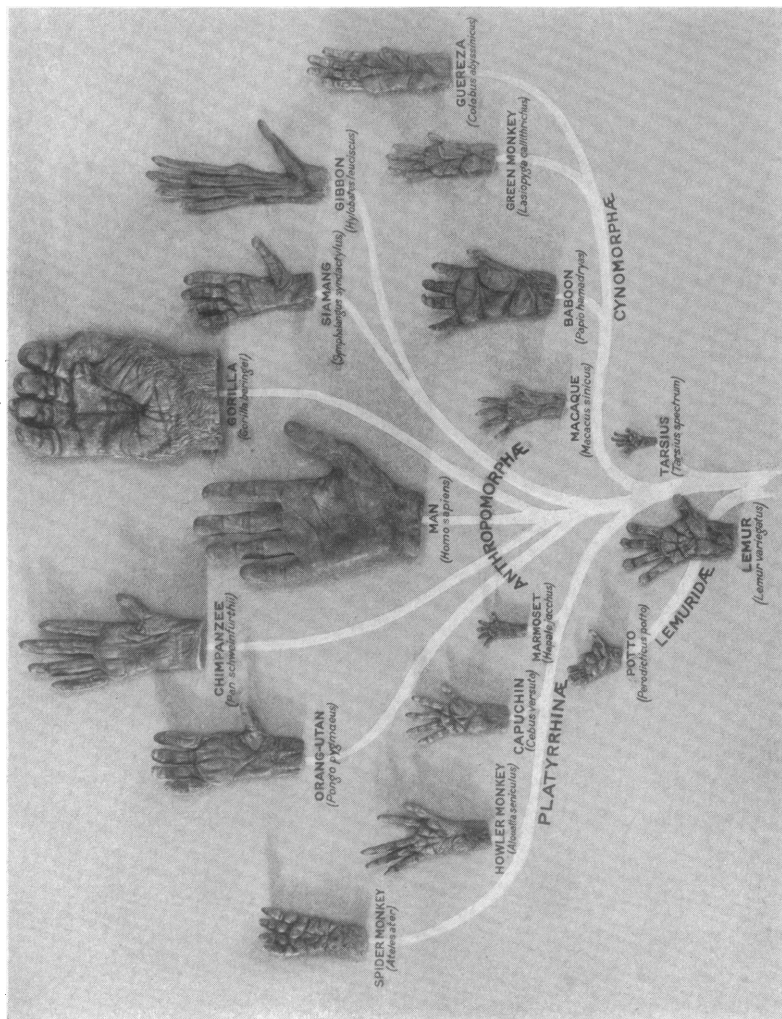
proposed new hall, the lack of a building and of sufficient space to press forward with the active mounting of material has dictated a policy of anticipation and preparation rather than consummation.

Small-scale models of groups for the *African Hall* have been made for about half the space involved and work has been begun on several of the large groups. The following habitat groups are now under way: Buffalo Group, Waterhole Group, and Giant Sable Group.

In the *Hall of Ocean Life* installation of exhibits has gone forward during the year in the hanging of cetacean skeletons and models. Plans for the construction of a group of Pacific Walrus have also reached a definite stage, and material will be collected in 1928. A detailed account of changes in this hall, as well as in the *Hall of Primates*, is given in the report of the Honorary Director.

Mr. William J. Morden, Field Associate in this department, has written an interesting and valuable account of the experiences on the Morden-Clark Expedition, entitled "Across Asia's Snows and Deserts," published by G. P. Putnam's Sons.

Other publications of the year include an article in *Natural History* and one in the *New York Zoological Society Bulletin* by H. E. Anthony; and three papers in *Novitates*, based upon the mammals of the Asiatic expeditions, have been written by Dr. G. M. Allen of the Museum of Comparative Zoology, Cambridge, Massachusetts.



DEPARTMENT OF COMPARATIVE AND HUMAN ANATOMY
The Hand of Man and Other Primates
Prepared for the Exhibit, "Introduction to the Study of Man"

COMPARATIVE AND HUMAN ANATOMY

WILLIAM K. GREGORY, Curator

The plans for the general exhibit of Human and Comparative Anatomy and Embryology have been completed in considerable detail and accepted by the Department of Anthropology, as part of a general Introduction to Anthropology. Space allotments for cases have been carefully worked out. Out of some twenty-five exhibits of this series already under way, ten have been completed or nearly completed during the year, including the following:

(1) Evolution of the upper molar teeth of Primates; (2) Evolution of the lower molar teeth of Primates; (3) Occlusion of upper and lower teeth of Primates; (4) Ten Structural Stages in the evolution of the skull as a whole; (5) Ten Structural Stages in the evolution of the skull roof; (6) Ten Structural Stages in the evolution of the jaws; (7) Ten Structural Stages in the evolution of the temporal region; (8) Ten Structural Stages in the evolution of the circumorbital region; (9) Comparative Series of Hands of Primates; (10) Comparative Series of Feet of Primates.

The planning and supervision of all this work has been in charge of Miss Marcelle Roigneau under the direction of the Curator, the modeling and coloring being done chiefly by Miss Allen and Miss Renaud of the Department of Preparation. The preparation of these and other exhibits has been greatly facilitated by a large series of excellent drawings made by Mrs. Helen Ziska under the direction of the Curator, which will also be used in the publications of the department.

The Curator's researches in this department have been chiefly in connection with the various exhibits mentioned and with the supervision of research work by others. The following papers and researches have been completed during the year:

Review of Palæontology (*American Year Book*).
Mongolia the New World (*Scientific Monthly*).
The Mongolian Life Record (*Scientific Monthly*).
Mongolian Mammals of the Age of Reptiles (*Scientific Monthly*).
The Mongolian Age of Mammals (*Scientific Monthly*).
Did Man Originate in Central Asia? (*Scientific Monthly*).
Missing Links of the Gobi Desert (*Scientific American*).

Dawn-Man or Ape—Which Was Our Ancestor? (*Scientific American*).
 Palæomorphology of the Human Head (*Quarterly Review of Biology*).
 Palæomorphology of the Human Head (Abstract, *Bulletin of N. Y. Academy of Medicine*).

Two Views of the Origin of Man (*Science*).

How Near Is the Relationship of Man to the Chimpanzee-Gorilla Stock? (*Quarterly Review of Biology*).

The Origin of Man from the Anthropoid Stem—When and Where? (*Proceedings of The American Philosophical Society*).

New Material for the Study of Evolution: A Series of Primitive Fossil Rhinoceros Skulls (*Trigonias*) from the Lower Oligocene of Colorado (with H. J. Cook) (*Proceedings of the Colorado Museum of Natural History*).

A Fossil Porpoise from California (with R. Kellogg) (*American Museum Novitates*).

Body Forms of Fishes (Dollo *Festschrift*).

Studies on the Body Forms of Fishes (*Zoologica*).

Comparative Anatomy of the Human Face (*Guidebook*, Hall of Anthropology.)

Our Face from Fish to Man. 8vo.

Review of Daudin's *Les Classes Zoologiques* (*Journal of Philosophy*).

The Testimony of Man's Teeth (*Evolution*).

Hesperopithecus Apparently Not an Ape nor a Man (*Science*).

Definitions of palæontological terms for *Dental Dictionary*.

The manuscript of Dr. C. J. van der Klaauw's extensive work on "The Auditory Bulla in Some Fossil Mammals" is being edited in the department and will be published in the *Bulletin* early in 1928.

A series of articles on the orders of mammals for a future edition of the *Encyclopædia Britannica* is in progress.

Five addresses were made before scientific societies, and seven illustrated lectures were given, mostly to high school teachers and other classes in the School Service Building.

The Curator has continued to serve as Secretary and Treasurer of the Galton Society. Eight meetings were held in the Museum during the year.

Many specimens received as gifts, chiefly from the New York Zoological Park and from Mr. Ellis S. Joseph, have been injected with preservatives, prepared, and either turned over to other departments of the Museum or placed in the hands of investigators needing the material, or kept in the department for present and future use. The entire collection of preserved specimens has been overhauled, rearranged in a more accessible way and

checked up with the catalogue of the department. The anatomical material collected and prepared by the late Dr. Ralph W. Tower (formerly Curator of Physiology) has been received, worked over and catalogued.

Associate Curator Raven has devoted the greater part of his time to the current work of caring for the collections of the department and in placing its resources at the disposal of investigators. He has made good progress in his study of the anatomy of the foetal narwhal, the paper being one of a series on the narwhal by several members of the Society of Mammalogists, which will be published by the Society. An illustrated lecture was delivered before the Royal Canadian Institute of Toronto, and several articles for *Natural History* were prepared. During 1928 Mr. Raven plans to resume his systematic and anatomic researches on the splendid collection of Australian marsupials which he collected in 1921 to 1923. The department's long-cherished plans for a great educational exhibit illustrating various aspects of the natural history and anthropology of Australia have received no substantial advancement during the past year, although abundant and excellent material is at hand. This is chiefly because it seems impossible for the Museum to do any more than it is now doing, in view of its immense present tasks, without special support for the Australian exhibit.

Associate Curator Chubb has continued his studies on the methods of locomotion of running animals and has secured many excellent photographs of running wolf hounds, which have been useful in mounting the beautiful skeleton of the Russian wolf hound. The zebra skeletons have been cleaned and are now ready to mount.

For the new Hall of Fishes, this department, in collaboration with the Departments of Ichthyology and of Preparation, is preparing two large models showing the anatomy of a typical fish.

The study material of the department has been placed at the disposal of many investigators, including the following:

Professor Frederick Tilney, College of Physicians and Surgeons, studying the comparative anatomy of the brain of the narwhal.

Professors Tilney and Riley, studying the comparative anatomy of the brain of man.

Professor Adolph H. Schultz, Johns Hopkins Medical School, studying the bodily measurements of young and adult primates.

Dr. Dudley J. Morton, Yale University, studying the comparative anatomy of the human foot.

Professor Ernst Huber of Johns Hopkins Medical School, studying the anatomy of a very small foetal narwhal.

Mr. H. C. Raven of this Museum and Dr. A. B. Howell, Secretary of the Society of Mammalogists, studying the anatomy of the adult and foetal narwhal.

Dr. W. L. Straus, Jr., studying the comparative anatomy of the primates.

Miss Harriet C. Waterman, studying the comparative anatomy of the primate pelvis.

Mr. Herbert O. Elftman, studying the comparative anatomy of the pelvis of marsupials.

Mr. R. T. Hatt, New York University, studying the comparative anatomy of the lumbo-sacral region in reptiles and mammals.

Mr. Herbert C. Ruckes, College of the City of New York, studying the development and osteology of turtles (in conjunction with the Department of Herpetology).

To provide necessary space for several of these investigators, one of the fireproof storerooms of the department was cleared and facilities installed.

Attention is directed to the fact that the very limited storage space allotted to this department is already more than comfortably filled with storage tanks and cases and that there is urgent need of much additional space and facilities in the near future. It is also necessary to report that, as a consequence of its activities in various directions, the department is frequently in need of additional secretarial assistance, and there is also constant need of a man to assist in the manual work of caring for, shifting and cleaning the heavy tanks, large earthenware vessels, as well as the great number of glass jars, etc., in which our valuable specimens are lodged.

In conclusion, the department desires to acknowledge its indebtedness to the members of the departments of Anatomy, of Neurology and of Zoology of Columbia University, to the department of Human Anatomy at Johns Hopkins University, and to other friends at home and abroad, for constant inspiration and assistance in furthering its plans to make known the far-reaching results of modern morphology to wider circles of educated people.

EXISTING AND EXTINCT RACES OF MEN

CLARK WISSLER, Curator-in-Chief

It is gratifying to report that many donors have enriched the collections in anthropology. A full list of these will be found in the accession record, but mention may be made here

Additions to the Collections of a large stone sculpture from a prehistoric temple at San Juan Teotihuacan, Mexico, presented by the Paramount Famous Players Lasky Corporation, a substantial addition to our collection of original sculptures; an unusually fine series of masks and shadow-play equipment from Java, presented by Mr. George D. Pratt; a series of old and choice specimens from the Indians of the Plains, from Doctor George Bird Grinnell; and an extensive collection from the Bush Negroes of Guiana, from Doctor Morton C. Kahn. The number of accessions was 73, of which 54 were gifts. The latter ranged: for ethnology, 24; anatomy, 6; and archæology, 24. Of collections made by members of the staff and volunteer collectors, there were nine accessions.

The staff personnel for research among the ancient civilizations of Mexico and the Central American States was greatly strengthened by the appointment of Doctor George C. Vaillant as assistant curator in the Department. Working under the general supervision of Research Associate Clarence L. Hay, Doctor Vaillant has checked over the collections from these countries and taken up a revision of the exhibits, giving particular attention to native art, as shown in ceramics and sculpture. In the way of constructive research, an analysis is being made of ceramic forms and decorative types as possible indices to culture areas and horizons, using our collections as the point of departure, supplemented by published material. On the educational side, since more and more use is being made of the Mexican collections by students of decorative and industrial art, a series of drawings in color, representing typical pottery designs, is in preparation, to be exhibited in conjunction with the ceramic series now in the Hall. It is further contemplated that a selected series of these designs will be published in a guide leaflet covering the art of Middle America.

Associate Curator N. C. Nelson, senior archæologist in the Department, returned from Asia early in the year, where he made extensive archæological collections approximating 4,000 specimens. Two years were spent in these explorations, as part of the work of the Central Asiatic Expeditions (Doctor Roy Chapman Andrews, leader), the second year being devoted to archæological reconnaissance in eastern Yunnan. Two sites of early pre-Chinese culture were discovered and studied; also excavations were made in a shell-heap near Yunnanfu.

The Sixth Bernheimer Expedition left Kayenta, Arizona, on May 20, the objective being the still unvisited parts of the rough, almost inaccessible country between Navajo Mountain and the Colorado River. Nine difficult canyons were traversed and a new natural bridge located. Dinosaur tracks were discovered, and a few were brought back with the collection. The chief objective, however, was to survey the canyon walls and adjacent mesas for evidences of prehistoric man, and in this Mr. Bernheimer was as successful as in previous years, locating several hundred house sites, a few cliff dwellings, and a number of burial caves.

Mr. Earl H. Morris made a return visit to Canyons del Muerto and de Chelly to secure a full series of log sections from the ruins previously explored by the Museum under the Ogden Mills Survey. From the study of these log sections by the "tree-ring" method, it is hoped to determine the ages of these ruins. Later in the season Mr. Morris made trial excavations on the Museum's property adjoining the Aztec Ruin, revealing hitherto unobserved evidence of cremation as a prehistoric burial custom. The major work of the season, however, was the excavation of burial sites at Mitten Rock and Tocito, New Mexico, by Doctor H. L. Shapiro. These sites, as well as others in the valley of the La Plata River, were rich in Post Basket Maker burials, a period of Southwestern culture not formerly well represented in our collections.

As noted in preceding reports, the staff is rendering increasing public service in advising students, collectors, authors, etc., as to how the collections may be used as reference sources and where other reliable data may be found. This is encouraging in that it shows a growing serious interest

**Service to
Public**

in the human problem and a desire properly to utilize available information. Realizing that our exhibits are more and more used by public and private school classes in history, geography, and art, certain minor revisions have been undertaken in several hall units, but as these have not been of a fundamental character, details may be omitted. Progress has been made in the labeling of exhibits, and a number of guide leaflets for students of design are in preparation.

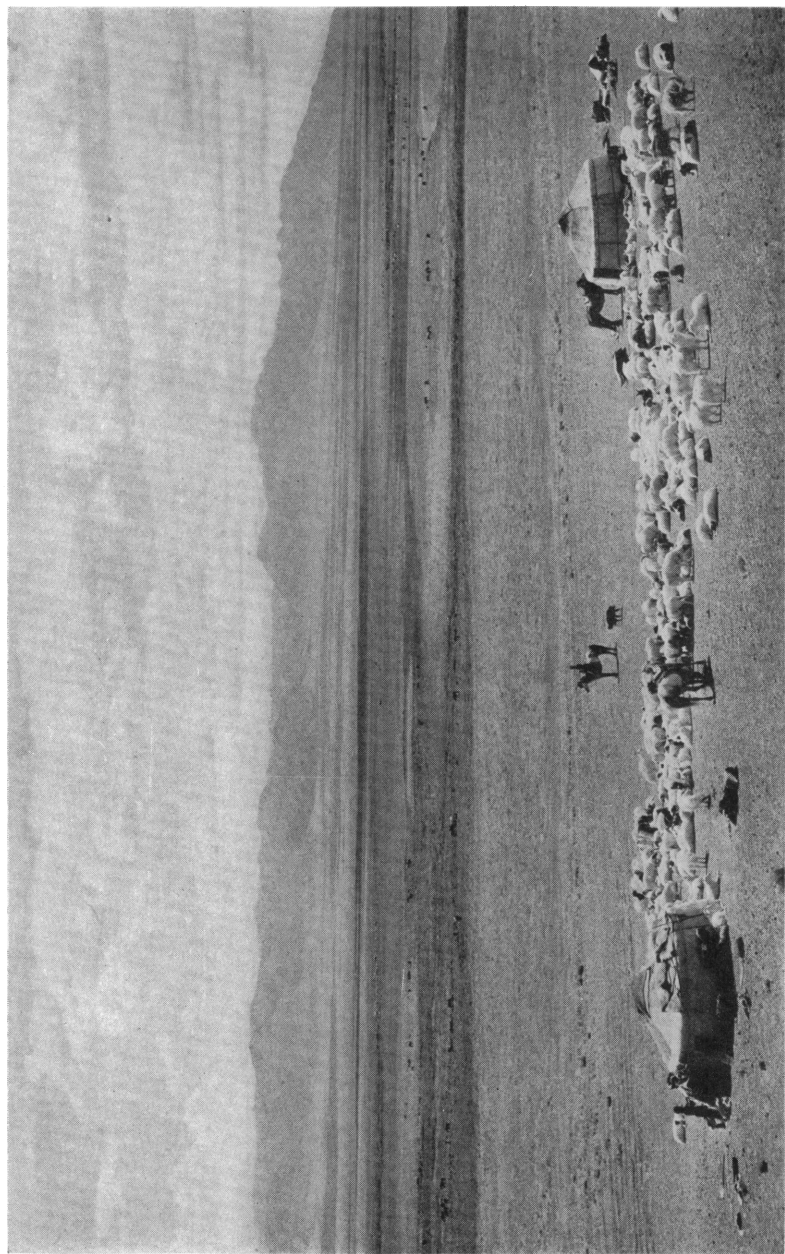
Cataloguing and the care of collections in archæology and physical anthropology proceed with difficulty. The many valuable collections resulting from systematic field researches prosecuted by our curators in archæology and physical anthropology have far outgrown the available space for their storage and study. A large part of these collections must be stacked, one tray upon another, in tiers reaching the ceiling, thus rendering it well-nigh impossible to consult the reference specimens needed in working up reports of current field-work. Also, there is lack of sufficient table space to lay out and classify incoming collections. This applies equally to archæology and physical anthropology, but is particularly unfortunate in the latter, since a number of serious-minded outsiders are trying to use our collections in their own investigations. Fortunately, this condition does not hold for the collections from living peoples, adequate housing facilities for which have long been available, and in which a systematic arrangement has been possible, making all parts of the collections readily available and affording a moderate amount of space for study and cataloguing. As most of these materials are perishable, such provision was the proper first step, and its further justification is to be seen in the school and loan service based upon these collections and in their extended use by college students and students of art. All this is gratifying, but we must now face the problem anew in archæology and physical anthropology, for until new space is available these two important phases of the human problem must proceed under great handicap.

Many years ago the Curator-in-Chief proposed a series of museum handbooks in anthropology, one for each of our major exhibition units, and was permitted to issue two of them in the general Museum series. Since that time,

**Care of
Collections**

Handbooks

four others have appeared, the series covering to date the Plains, the Southwest, the North Pacific Coast, Mexico, Peru, and the Philippines. The opening of the year found all but two of these out of print and no facilities for reprinting. This brought the matter up for consideration anew, resulting in a decision to continue the series and to set up a revolving fund to care for printing costs. To this fund a sufficient sum has been subscribed to keep these volumes in print.



CENTRAL ASIATIC EXPEDITIONS

Scene at Five-Stream Meadow, 797 Miles from Kalgan
Field Work Will Be Resumed in Mongolia in 1928

DIVISION OF ASIATIC EXPLORATION AND RESEARCH

ROY CHAPMAN ANDREWS, Curator-in-Chief

The year 1927 has been one of scientific study of the great collections already gathered by the Central Asiatic Expeditions, because the chaotic condition of China made field work impossible.

Returning to New York, in October, 1926, the Curator almost immediately proceeded to London, upon invitation of the Royal Geographical Society, to present a résumé of the explorations in Mongolia before that distinguished body. The remainder of the winter he spent lecturing in almost every state of the Union and gathering additional funds for continuation of the field work.

Mr. Andrews returned to Peking in April, 1927, to find political conditions so disturbed that field work in Mongolia was out of the question, and even if it had been possible to leave China, the American Minister wisely would not have given his consent to the Expedition's departure for the interior.

The only course that remained was to close the work temporarily, send the staff back to New York, cut down current expenses to the minimum, and pack and assemble the cars and equipment so that they could be moved rapidly, or the headquarters defended, in case foreigners were ordered to leave Peking. The Curator and Mr. J. McKenzie Young were the only foreign members of the staff who remained in China.

By the end of 1927, conditions have become so much improved that it now appears highly probable that the Expedition can resume its interrupted field work. It is proposed to lay a course through the Gobi Desert, slightly northwest from Kalgan, and south of the Altai Mountains. This will bring the Expedition into scientifically unexplored territory, and high hopes are entertained for the success of the trip in all departments of the Expedition's work.

The same train that brought the Curator to Peking from Japan in April was boarded at Tangku by Messrs. Granger and Nelson and their wives. They had spent the winter in Yunnan Province, southwestern China, on palæontological and archæological exploration. Mr. Granger discovered a large Pleistocene fossil deposit, which appeared to be of considerable importance but

which could not be thoroughly investigated because of bandit trouble. Mr. Nelson extended to the Upper Yangtze the late Neolithic and pre-Chinese culture found in various parts of China by Doctor Andersson and himself. The trip was a successful reconnaissance.

Mr. J. McKenzie Young suffered a serious accident in March, while in Mongolia upon a visit to the camel herd of the Expedition. He was caught in a blizzard, and the fingers of both hands were badly frozen. Upon his return, it was at first thought that all the fingers of both hands would have to be amputated, but because of the careful treatment of Dr. Loucks, Surgeon of the Expedition, and Mr. Young's splendid physical condition, all but the ends of three fingers have been saved. Mr. Young is doing well and will be able to carry on with the Expedition in the summer of 1928.

During the summer, the Curator has been engaged in writing Volume I of the Expedition Reports. This is to be entitled, "The New Conquest of Asia," and consists of a narrative of the Expedition's work and an introduction to the scientific volumes.

Volume II, "The Geology of Mongolia," by Professor Charles P. Berkey and Professor Frederick K. Morris, was issued from the press at the end of 1927, and sets a splendid standard for the series. Great credit is due to Dr. Chester A. Reeds for his indefatigable editorial work during the preparation of this volume. Professors Berkey and Morris have an additional volume upon Mongolian Geology well advanced. This will contain an account of the topographic work of the Expedition by Major Roberts, Chief Topographer, and his superb maps, which during the year were issued as separate sheets for distribution to various world geographical societies.

Dr. A. W. Grabau, Research Associate, after a year's work upon the invertebrate material brought back by the Expedition, has forwarded to the Museum a splendid manuscript consisting of some five hundred pages. This is entitled "The Permian of Mongolia," and will be Volume IV of the Scientific Reports.

Twelve *Bulletin* and *Novitates* papers, some of them of considerable size, were published in 1927, under the authorship of the following: Messrs. Glover M. Allen, Ralph W. Chaney, T. D. A. Cockerell, Henry W. Fowler, N. C. Nelson, John T. Nichols, Clifford H. Pope, Alfred Rehder, and Karl Patterson Schmidt.

These papers were all studies of the collections brought back by the Expedition.

The costs of publication and much research have been met up to date from the Expedition's finances. Sufficient funds remain for the field work of 1928, but if the Exposition is to be continued, additional money must be obtained.

The possibility of finding very early pre-human remains in Asia has been strengthened by the recent discovery of basal Pleistocene human teeth in a cave deposit of the Western hills, less than twenty miles from Peking. These excavations were conducted jointly by the Rockefeller Institute and the Chinese Geological Survey, under the direction of Dr. Davidson Black.

THE LIBRARY

IDA RICHARDSON HOOD, Acting Curator

A good library goes far in the building of a scientific institution. It may well be said to hold the key to the work of all other departments. In this Museum the term includes not only the central library but also the Osborn Library of Vertebrate Palæontology, the Osborn Biological Library and the new School Service Library. The latter, maintained almost entirely by contribution and gift, is already showing encouraging results.

The steady growth of the central library to its present total of over 115,000 volumes is due to several factors, the most important of which are the Museum's liberality in the matter of purchase, the high standard and large scope of its publications available in soliciting and maintaining exchanges, and the gifts of friends and patrons through whose generosity priceless works, and, in some cases, whole nuclear units have found their way to our shelves.

The general aspect of the Library has changed materially in the past year. The Reading Room has been redecorated, work on the store-room in the attic has progressed almost to completion, a book-lift has been installed to make this storage space easy of access, stacks have been built in the mezzanine of the center stack room, a packing room has been provided to care for the sales and exchanges which are sent out daily and the space formerly used for this purpose is now converted into an office.

The Osborn Biological Library has been transferred to the Osborn Editorial Room, and the space thus gained in the Osborn Library of Vertebrate Palæontology has made possible desirable rearrangement in shelving.

The following are the most outstanding among many items of interest received during the year:

Turner, W.—*Avivm Praecipvarvm, Qvarvm apvd Plinivm et Aristotelem mentio est, brevis & succincta historia*. Cologne, 1544. Gift of Mr. Ogden Mills.

Lichtenstein, H.—*Verzeichniss der Doubletten des zoologischen Museums der Universität zu Berlin*. Berlin 1823. Gift of Mr. Gregory M. Mathews.

Vanderbilt, William K.—To Galapagos on the *Ara* 1926. Gift of Mr. William K. Vanderbilt.

Osborn, Lucretia Perry (Mrs. Henry Fairfield Osborn)—Washington Speaks for Himself. Gift of Mrs. Henry Fairfield Osborn.

Osborn, Henry Fairfield—Man Rises to Parnassus. Gift of President Henry Fairfield Osborn.

Forty-nine pictures of the Amundsen-Ellsworth Polar Expeditions of 1925-1926. Advance copies of plates for Lincoln Ellsworth's biography. Gift of Mr. Lincoln Ellsworth.

Herrich-Schäffer, G. A. W.—Sammlung Neuer oder Wenig Bekannter Aussereuropäischer Schmetterlinge. Anson W. Hard Library Fund.

Sowerby, James—The Mineral Conchology of Great Britain. Volumes 1-7, 1812-1846. Anson W. Hard Library Fund.

Thompson, C. G.—Opuscula Entomologica. Fascicules 1-22, 1869-1897. Anson W. Hard Library Fund.

Huebner, Jacob—Sammlung Europäischer Schmetterlinge. Bände 1-III, Augsburg, 1796-1830.

Huebner, Jacob—Geschichte Europäischer Schmetterlinge. Augsburg, 1796-1841.

Six files of scientific periodicals from Moravia, scarcely to be found in America.

Nyt Magazin för Naturvidenskaberne. Oslo. Volumes 22-65, 1876-1927.

Bollettino della Società Sismologica Italiana. Volumes 1-26, 1895-1926.

The Museum has continued publication in its various series throughout 1927.

The *Bulletin*, containing the larger scientific papers, has appeared as follows: Title-page and index to Volume 51; Volume 53, article 2, dealing with invertebrate zoology; Volume 54, articles 1 to 5, dealing respectively with invertebrate zoology, herpetology and ichthyology; Volume 56, article 5, on mineralogy; Volume 57, articles 1 to 4, dealing respectively with ornithology, invertebrate zoology, and ichthyology. These articles total 1,363 pages, 104 plates, 435 text figures and 1 map.

The *Anthropological Papers*, concerned with results of research conducted under the auspices of the Department, have been issued

in three parts totaling 301 pages and 179 text illustrations. Also title-pages and indices for Volumes 19 and 23 were issued.

The *American Museum Novitates*, containing the shorter scientific contributions, have been issued in 49 numbers, 244 to 292, totaling 467 pages and 77 text figures. Of these, 6 numbers were on palaeontology, 18 on invertebrate zoology, 7 on ichthyology, 5 on herpetology, 9 on ornithology, 3 on mammalogy and 1 on forestry.

The *Handbooks*: New Editions of two important books were issued: No. 1, "Indians of the Plains," by Clark Wissler, and No. 2, "Indians of the Southwest," by Pliny E. Goddard.

The *Guide Leaflets*. Two new numbers, 69, "Distributional List of the Reptiles and Amphibians of the New York City Region," by G. Kingsley Noble, and No. 70, "Hall of Dinosaurs," by Frederic A. Lucas, were issued, as well as new editions of numbers 36, 38, 39, 42, 50, 52, 59, 61, General Guide and An Hour in the Museum.

Natural History has completed its twenty-seventh volume.

CENTRAL ASIATIC EXPEDITIONS:

Collected papers from the American Museum *Bulletin* and *Novitates*:

One hundred copies of the first sixty-three papers, Volume I, "Preliminary Contributions in Geology, Palaeontology and Zoology of the Central Asiatic Expeditions," were beautifully bound in yellow cloth, with Title-page, Contents, Bibliography, and Introduction by Henry Fairfield Osborn. These were distributed to institutions, governments and individual workers in acknowledgment of courtesies received and for the permanent use of their libraries.

The Natural History of Central Asia:

Of this series of twelve volumes, there have appeared (1927):

Volume II, "Geology of Mongolia," by Charles P. Berkey and Frederick K. Morris. The volume contains 308 pages and 205 illustrations, 10 in colors.

Of Volume III, the 30 Mongolia Route Maps (Kalgan to Orok Nor, surveyed by L. B. Roberts in 1925) were published, and after the necessary number were laid aside to await the publication of the volume, the remainder have been made available for separate distribution and sale.

THE MUSEUM AND SCHOOL SERVICE

GEORGE H. SHERWOOD, Curator-in-Chief

What does it mean when the statistics state that our school service in 1927 was supplied to 643 schools in Greater New York, and that it reached more than 9,900,000 school children? It means a great deal more than that the equivalent of every school child has come within the influence of the Museum's instruction at least nine times during the year. It means that the Department of Public Education is taking an important share in building the American Museum of Natural History, because it is helping to mould and prepare the most important building material in its structure—the interest of children—for the growth and development of the institution is absolutely dependent upon the support and confidence of public opinion. There are no more potent factors in shaping this public interest than the children's influence in their homes. Often "Sonny's" enthusiastic description of the dinosaurs, birds at home, or big creatures of the sea is father's first knowledge of the existence of the American Museum of Natural History, while at dinner the tales of travels to foreign lands, or glimpses of the wonders of nature through our lantern slides and films, serve to intensify father's and mother's interest in the work of the Museum. Finally, the children of today are the citizens, taxpayers and officials of tomorrow, and the impressions of school days carry over into private and public life.

From its very inception in 1869, education has been one of the fundamental purposes of the Museum, and through its Department of Public Education, it has developed a practical service to the schools of the city. During the year 1927, the field of this activity has been greatly increased. The number of contacts with educational organizations and with interested individuals has been constantly growing. New methods of teaching have been developed and an effort has been made to extend and to promote museum service throughout the elementary, grammar and high schools of Greater New York. The pupils, their parents and teachers are reached by lectures in the museum and by museum exhibits and publications. The lending of colored lantern slides is perhaps the

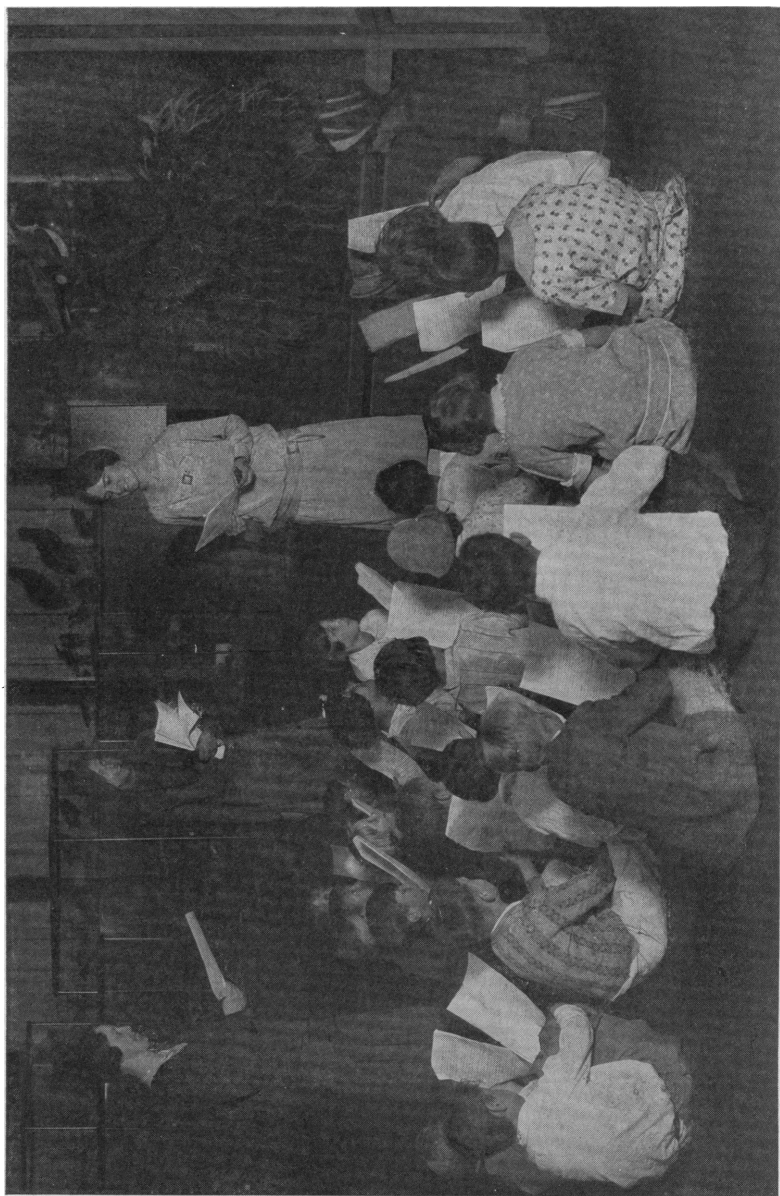
**Extent of
School Service**

most far-reaching phase of the work with schools. Circulating collections of nature study specimens, also loaned to schools, have proved of great aid to teachers in stimulating interest in nature. Collections are loaned to libraries to further the cause of visual instruction. Docent service in the museum halls has been a regular feature of the department, and has met with the growing approval of the schools and of the general public as well. Special instruction by staff members, in museum classrooms, includes not only the blind and sight conservation classes, but general public school classes as well, in a series of lectures known as "Exhibition Hall Talks." The following is a summarized report of the extent of this work as expressed by the number of pupils reached.

Attendance at lectures, Exhibition Hall Talks, Sight Conservation Classes and miscellaneous lectures within Museum and in outside schools; Guiding, etc.	212,917
Pupils using nature study collections.....	1,679,589
Attendance at library loan exhibits.....	27,372
Pupils viewing motion picture film.....	1,123,704
Pupils viewing lantern slides.....	6,866,112
High School students studying special collections.....	810
Visitors to Bear Mountain Nature Trail.....	23,000
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Grand total of persons reached by educational activities	9,933,504

School Service is not merely local, for it is supplied free to any school anywhere in Greater New York and extends into every borough. That it is really municipal and city-wide is proven by the following statistics showing the number of schools using our facilities in 1927:

Borough	Number of Public Schools Supplied
Manhattan	188
Bronx	82
Brooklyn	193
Queens	90
Richmond	23
<hr/>	
Total Public Schools Served.....	576



DEPARTMENT OF PUBLIC EDUCATION

The End of an Indoor Nature Trail

More Than 145,300 Pupils Visited the Museum in Classes for Regular Study During 1927

The most important event of the year was the completion of the School Service Building, erected by the City of New York to house the Museum's school activities. This fine building, especially designed for school needs, is unique in museum history, and for the first time gives the American Museum adequate provision for care of the thousands of pupils and teachers who come yearly to the Museum. It is a basement and four-story structure, 160 feet long by 90 feet wide on the first floor, and 55 feet wide on the upper floors. It is thoroughly fire-proof in its construction, and has been most carefully planned to take care of the Museum's needs in its School Service work.

The four floors are assigned as follows:

First floor: Education Hall, reserved for temporary exhibits.

Second floor: Reception floor to provide for classes visiting the Museum.

Third floor: Administrative offices, study rooms, library, and activities connected with the extra-mural work of the Museum.

Fourth floor: Production floor, where photographs and negatives are cared for and the photographic studios are located.

With this splendid structure available and its practical equipment, the Museum is in a position not only to extend its service to the schools, but to render it more effective.

The problems of the Department of Public Education differ from those of the other Museum departments in that any activity with the schools, if it is found worth while, must be continued year after year, and cannot be dropped or discontinued for a while in order to try out some new method. This handicap often limits the broadening of the scope of our work because of lack of personnel. However, during the year 1927, while the established phases of our school service have been maintained, several new experiments have been undertaken, the results of which will form the basis of new activities. Up to this year, the Museum school service has been directed mainly to *mass* instruction—auditorium lectures, use of slides and films, and large group guidance in the exhibition halls, chiefly for the elementary schools. Attention is now being given to more intensive instruction and a more thorough study of objective material.

Foremost in this new phase of the educational work is the series of Exhibition Hall Talks that has been given throughout the year.

Exhibition Hall Talks The primary purpose of these talks is to definitely correlate exhibits in the halls of the Museum with subjects that are being taken up by teachers in their classrooms. The topics are prepared by members of the department staff. The class, accompanied by its teacher, is taken into one of the small classrooms in the new School Service Building, where a dozen or more specimens have been placed. Under the guidance of the Museum instructor, the children handle these specimens and obtain first-hand information concerning them. After a half-hour of this visual instruction in the classroom, the instructor takes the group into the exhibition hall for another half-hour's study of the larger related collections. Thus a lesson in geography or history becomes a real thing. This type of instruction bids fair to become one of the permanent activities of the department.

A second experiment in this intensive instruction was undertaken at the suggestion of some of the teachers in the Training Schools for Teachers and of the Committee on Visual Education of which Superintendent James J. Reynolds is chairman. The plan proposed was to have groups of pupil-teachers from the Training Schools have five weeks of their practice-teaching at the Museum, through which they would learn Museum methods of using these practical aids in teaching. In the Spring the plan was tried out informally by having five pupil-teachers from the Maxwell Training School assigned to the Museum for four weeks. A comprehensive program was worked out by Mrs. Grace Fisher Ramsey and her associates, and the results demonstrated the value and possibilities of such training. Our experience indicates, however, that we could not undertake such guidance on a large scale without increasing our present personnel by two or three instructors or teachers. It is hoped that the Board of Education will assign two or three teachers to the Museum for this purpose.

Heretofore our greatest service has been rendered to the elementary schools. We are now, however, giving attention to the

Aids for High Schools special needs of high schools, and under the advice of Mr. Paul B. Mann, several aids for high school teachers have been prepared. These include a selected series of microscopic slides, a teaching collection of fossils, the supplying of live fruit flies for biological experiments and the laying out of indoor nature trails in the Museum.

Bear Mountain Nature Trails and Trailside Museum In the advancement of outdoor nature education, the Museum has made important contributions. At the invitation of the Commissioners of the Palisades Interstate Park, the Museum took over the operation and maintenance of the Nature Trails and Trailside Museum at Bear Mountain. This movement was inaugurated by the American Association of Museums, and through it the Laura Spelman Rockefeller Foundation provided funds for the erection of the Trailside Museum, while the Park Commissioners set aside some twenty acres for this purpose. The area provided for the trails is an ideal one. It includes a brook, swamps, high rocky places, historic spots, and a fine view of the Hudson and nearby mountains. Major William A. Welch, Superintendent of the Park, not only is intensely interested in the project, but has given a good deal of time to carrying out the plans, and the building itself was constructed under his direction. Mr. William H. Carr was appointed Assistant Curator on our educational staff and assigned as resident naturalist in charge of the trails and the museum. Through his experience in Scout work and his wide knowledge of nature, Mr. Carr is especially fitted to develop this project. He resided at the Park from May 1 to October 1, and, with the aid of Mrs. Carr, established about two miles of nature trails. The trails are designated Botanical, Zoological, Geological and Historical. Signs of general informational type were placed along the trails at about twenty-foot intervals. The visitors to the trails numbered some 23,000 persons during the season.

In developing these plans, we were fortunate in having the advice and suggestions of Dr. Frank E. Lutz, who established the Museum's first Nature Trail at Tuxedo; of Dr. H. C. Bumpus, chairman of the special committee of the American Association of Museums; of Dr. Chester A. Reeds on the geology of the trails,

as well as the experience of Dr. Fisher and others of the department staff. In a printed pamphlet, "Signs Along the Trail," Mr. Carr has given an excellent account of the aims, problems and accomplishments of the work at Bear Mountain. We hope that other trail-makers will find helpful guidance in this booklet. Mr. Carr did a splendid piece of nature work under many handicaps.

Under the supervision of Doctor Lutz, Albert Redmond, representing the Museum's Department of Education, maintained the original Nature Trail at Tuxedo, principally, however, as a demonstration trail. Camp groups and others were referred to the Bear Mountain trails for general work.

The Department has continued to give its support and assistance to the School Nature League, which has its headquarters in the Museum and maintains a model nature room there.

School Nature League This organization is doing most excellent work in bringing nature into the schools of the city.

Mr. Sherwood, Curator-in-Chief, and Doctor Fisher are the Museum representatives of the Coördinating Council on Nature Activities. This Council is composed of many of the largest organizations interested in outdoor nature activities, including Boy Scouts, Girl Scouts, Campfire Girls, American Nature Association, Camp Directors' Association, Girl Pioneers of America, Nature Study Society, Playground and Recreation Association, Woodcraft League of America, American Museum of Natural History, American Nature Study Society, Pioneer Youth of America and the National Board of the Young Women's Christian Association. The object of this organization is to further the interests of nature studies and activities by focusing attention on conservation of wild life and natural resources, and by assisting in the development of the nature programs of volunteer organizations, camps, schools and museums. As a contribution to the work of the Council, the American Museum has provided space for headquarters in the School Service Building.

Coordinating Council on Nature Activities

The oldest feature of our school service is the circulating nature study collections which have been sent on loan to schools of the

**Circulating
Nature Study
Collections**

city for more than twenty-four years. The pupils of city schools have little opportunity to study, to touch and to see natural objects. Thus, these collections are of the utmost importance in the teaching of natural history. Any teacher who desires these collections may secure them by filling out a special request card and mailing it to the Museum. The specimens are then delivered to the school and are called for after the loan period by Museum automobiles, all without cost to the teacher or to the school. These collections include five different sets of mounted birds, cases of rocks and minerals, native woods, mammals, insects, food collections and other types of nature materials, all accompanied by written handbooks. "A Manual of Bird Study," an 80-page publication, was prepared by Mr. Carr, to be used in connection with the loan collections of birds and as a general guide to bird study as well. The pamphlet, which is profusely illustrated, describes 25 local birds and gives study outlines. Special collections are loaned to art classes. Aids for high school biology teachers have been developed and include the loan of silk exhibits, fossil collections, microscopic slides and live fruit-flies. Individual specimens of mounted birds, mammals and insects, as well as special habitat groups, are also loaned.

Through the keen interest and devotion of Mr. Herman Sievers, this branch of the work has been greatly increased during the past year. The following table of statistics gives the comparison of the work during the past five years:

	1923	1924	1925	1926	1927
Number of collections in use	1,409	1,327	877	970	1,188
Number of schools in Greater New York supplied	472	433	410	443	495
Number of pupils studying collections	1,491,021	1,247,914	997,384	765,790	1,679,589

Since its inception, seventeen years ago, the American Museum has been steadily enlarging and developing its circulating lantern slide library. Our colored slides are now delivered, free of charge, to hundreds of schools, where they supplement the explanations of teachers and vitalize the study, not only of natural-history topics, but of geographical, economical and historical subjects as

**Distribution
of
Lantern Slides**

well. Through the furthering of this type of school aid by the Museum, thousands of pupils are enabled to visit the haunts of birds, mammals and other creatures; to see how their neighbors live in other hemispheres as well as their own, and to grasp, in a more comprehensive way, the story of life, past and present, the world over.

Through the cooperation of the Intelligence Service Bureau of the Canadian Government, ten sets (732 slides) with manuscripts have been deposited with the Museum for free circulation among the schools. The titles of the sets are: "The Newer Commercial Canada," "Canada—Coast to Coast," "The Manufacture of Pulp and Paper," and "The Canoe in Canada." These sets, which have been circulated among 101 schools and viewed by 21,615 pupils during the past term, are helping to fill the need for slides on Canada.

Even with these valuable additions, about one request in every four received from teachers had to be refused because of lack of duplicate sets of slides. The greatest needs at present are ten duplicates of each set and group of slides. It is hoped that some friend will be found to aid in the support of this work, which is so well worth while, as shown by many letters of appreciation received from principals and teachers, and by the following statistics, showing the phenomenal growth of the last five years:

FIVE-YEAR COMPARISON SHOWING GROWTH IN CIRCULATION OF LANTERN SLIDES

	1923	1924	1925	1926	1927
Total number of borrowers...	328	354	377	399	439
Total number of public schools borrowing	240	253	291	320	354
Total number of loans.....	9,677	12,847	15,796	18,470	21,949
Total slides lent.....	440,315	598,132	697,171	808,789	921,811

This branch of our work is in the immediate charge of Mrs. Grace Fisher Ramsey, and its splendid growth is in a large measure due to the energy and the faithful and efficient work of herself and her associates.

Greater expansion of our circulating film library has been made possible by the improved facilities of the School Service Building.

Distribution of Motion Pictures

There is an ever-increasing demand for motion pictures which supplement the slides, and, through the medium of motion, give

vivid and detailed treatments of a wide variety of subjects. Despite the cost of securing, storing and maintaining films, the Museum's library has steadily increased, until we now have 463 of these reels.

During the past year, the United States Bureau of Mines made the Museum one of its distributing centers. Twenty-two subjects (fifty-eight reels) are now deposited with the Museum for circulation in this vicinity. Of these films, 193 reels have been lent for 219 showings to 57,330 pupils. In May, 1927, the Canadian Government Motion Picture Bureau deposited twelve reels of twelve subjects with the Museum. Of these films, 42 reels were lent for 86 showings to 21,280 pupils. Also in May, 1927, the Consolidated Gas Company of New York deposited four reels on the history of gas lighting and manufacture, including the uses of gas in the home and industries. These reels were lent for eight showings to 2,540 pupils.

The film library has been enriched during the past year by a number of valuable accessions. Mr. George D. Pratt, a trustee of the Museum and a member of its Committee on Education, has generously given two sets of films of three reels each, on "Mediaeval Moderns," showing the home industries of the peasants in Hungary; a four-reel film, "With Inka Lanta in Arctic Lapland"; a three-reel film on "An Unknown Race," showing the Berber tribes of North Africa, and the negative and print of a two-reel film on the "Life History of the Bumble Bee." Through the interest of Mr. Pratt, the motion-picture library has also been enriched by a gift from the Kennecott Copper Corporation, of ten reels on the "Story of Copper." Mr. Lincoln Ellsworth has presented the Museum with the only print in America of the Amundsen-Ellsworth Polar Flight of 1925-1926.

During the past summer, Doctor Fisher accompanied Mr. Ernest Thompson Seton and others on an expedition through the Indian Reservations from North Dakota to Arizona, to study sign-language, dances and other customs among the Indians. Four reels of excellent motion pictures were secured of the Sioux, Navajos, and Pueblos, as well as some three hundred still photographs. These motion pictures have been edited and used in several lectures for the public schools.

Mr. Philip H. Pratt visited Egypt, Palestine, Syria, Greece and France for the purpose of making still and motion pictures of

subjects especially needed by the Department of Public Education. As in all his previous work, Mr. Pratt contributed his services. The transportation was provided by the American Export Steamship Corporation, through the courtesy of its president, Mr. Henry Herbermann, while the other expenses of the expedition were met through contributions of Mrs. Leonard K. Elmhirst and the Carnegie Corporation. Mr. Pratt secured more than 3,000 still pictures and some 6,000 feet of motion-picture film, which contained exceptionally fine data from Alexandria, Cairo, Jerusalem, Damascus, Beirut, Athens and Paris.

The new Motion Picture Catalogue, recently issued by the Department, with Museum films classified according to grades and subjects, has proved a valuable aid to teachers desiring to borrow films to correlate with classroom work. The films are delivered, free of charge, to any public school in Greater New York having a motion picture booth, a projector and a licensed operator. The increasing use of films is indicated by the following statistics over a four-year period.

FOUR-YEAR COMPARISON SHOWING GROWTH IN CIRCULATION OF FILMS

	1924	1925	1926	1927
Total number of borrowers	31	48	91	122
Total number of public borrowing ..	20	42	72	80
Total number of reels lent	309	1,076	2,057	3,301
Total number of showings	316	819	1,423	2,676
Total number present	115,849	333,097	530,955	1,123,704

One of the most valuable ways of establishing personal contact with teachers and pupils is through the lectures by staff members.

These are given in the Museum and at various schools. **Lectures** For a number of years, regular courses have been given at three lecture centers, Washington Irving High School, The New York Training School for Teachers, and Public School 42, Bronx, besides many miscellaneous lectures given in response to requests from schools. These talks deal with geography, history, industry and natural history, supplementing the classroom work. They are usually illustrated by lantern slides and motion pictures, which our years of experience have made us feel is the ideal combination. In several instances, the experiment of using live animals to illustrate lectures was made, much to the delight of the audience.

Printed announcements of lectures in the Museum are sent to the public schools, and seats are reserved by teachers desiring to bring their classes. So popular are some of the talks that it has been necessary to repeat them as many as four times. During 1927, 281 lectures were given, reaching 185,794 people.

Through the generous cooperation of Miss Mabel Williams and her assistants of the 58th Street Library, valuable bibliographies were compiled of material supplementary to the lectures. Mimeographed copies were distributed to teachers at the Museum lectures and proved helpful in stimulating class interest in the lecture subjects.

Many enthusiastic letters of thanks and praise for the lectures have been received from the schools, and in a number of cases, each member of the class has written a personal note of appreciation.

A particularly inspiring opportunity for service is afforded by the work with children of defective eyesight, and consequently of limited mental outlook. These pupils, accompanied by their teachers, come to the Museum to be instructed by staff members, and are allowed to feel and examine the mounted specimens and live animals used to illustrate the talks. In this way, children who must use their fingers to "see" become familiar with objects as diverse as cocoanuts, silk worm cocoons and skunks.

The most serious problem in this work is that of transportation, and it is to be hoped that buses for this purpose may be provided by the Board of Education or by the Department of Plant and Structures.

Continuing its policy of lending natural-history and ethnological exhibits to the various branches of the New York Public Library, the Museum this year made 36 loans to 21 libraries. It is estimated that 27,372 people viewed this material, which was placed near books on a related subject to stimulate reading. The collections were also used to awaken interest at certain seasons of the year, like Thanksgiving and Christmas.

The loans of this material have been extended in 1927 to the public schools, where it is used to vitalize the study of geography and history.

The year 1927 has seen important developments in this field. While the department staff has continued, as in past years, to extend free guiding service to public, parochial and

**Exhibition Hall
Guidance**

private schools, and to other educational institutions, to members of the Museum and to special groups and visitors, attention has also been given to the general public. The new feature of the work is a regular schedule of Museum tours, six trips being conducted each week by Dr. William Lord Smith at stated hours through the Museum halls, for the general public. On these trips alone, 4,875 people have been guided out of the total 10,947 given free docent service.

Aside from the general trips for the public, the practice has been inaugurated of having each school group coming to the Museum met by a member of the department, who supplies a guide on request.

Experiments have been carried on with a view to increasing the instructional value of the exhibition halls. At the suggestion of Mr. George D. Pratt, an automatic motion picture machine which projects narrow-width film has been placed near the Adirondack deer group, with the purpose of showing life habits of the animals in the habitat group. A second projector, presented to the Museum through the generosity of Mr. Prentiss N. Gray, carries a film of the pottery-making and basket-weaving of the Hopi Indians in the Southwest Indian Hall. The deer film was run for 94 days with a record of 40,032 people observing it, while the Indian film was run for 50 days with a count of 9,732 people. Further experiments are being carried out to demonstrate this type of exhibit, which can be applied in several of the halls.

The Public Health and Food exhibits have been transferred to their permanent location in Education Hall on the first floor of the School Service Building. There Miss Mary Greig, Assistant Curator of Public Health, has rearranged the exhibits and prepared them for the public. Honorary Director Lucas very kindly undertook the installation and labeling of the Public Health exhibits, and has assisted in the installation of the food exhibits, which is in immediate charge of Miss Greig.

Miss Greig has also revised the circulating food exhibits of model meals for children, which are in constant demand by the

schools, and has given special health talks to public school classes, to teachers, college students and to groups of nurses.

The photographic division plays an important part in the work of the department, at the same time rendering essential service to all the departments of the Museum. The photograph librarian, Miss Dorothy Van Vliet, is the custodian of all the negatives and photographs taken on Museum expeditions. These furnish an incomparable source of material for our circulating library of slides, and at the same time supply scientists, authors, educators, and the world at large with valuable data and illustrations. By means of this photographic material, the Museum has, during the year just ended, been able to reach more than one hundred educational institutions in thirty-four states and eleven foreign countries.

This work has been greatly facilitated by the removal to the spacious and modernly equipped offices and work rooms in the School Service Building, and by the addition of a third photographer.

The usual cooperation was extended to the Bureau of Visual Instruction of the Board of Education by the Museum. A number of loans were made of the "Chronicles of America" films which Miss Rita Hochheimer had chosen for use in the history film course. The "Gray Squirrel" film was also lent for primary nature study, and the "Wonderful Work of Water" film for the physical geography course. For practically all the film courses, small groups of lantern slides were lent to correlate with the subject matter of the films.

The staff of the department participated in a series of regional conferences of Museum educators in New York City and vicinity. Three such conferences were held during the year, namely, at the Metropolitan Museum of Art, the American Museum and the Brooklyn Museum. Talks were given on Museum methods in education and were followed by general discussion. It was felt that these conferences were very much worth while because of the opportunity of interchanging ideas and of meeting colleagues in the work.

The department has been represented at several of the educa-

tional conventions and conferences, frequently taking an active part. Doctor Fisher attended the meetings of the American Association for the Advancement of Science at Nashville, Tennessee, in December, as delegate for the Museum and as Chairman of the Coordinating Council on Nature Activities. He also represented the Museum at the National Conference on State Parks at Bear Mountain in May.

Doctor Fisher and Mrs. Ramsey were our delegates to the Annual Meeting of the Better Films Conference of the National Board of Review.

Mr. Carr attended the Eastern Conference of the American Association of Museums, held in September at Portland, Maine. He spoke at Portland, Bowdoin College, and at the Children's Museum in Cambridge, on the Bear Mountain Nature Trails and Trailside Museum.

Owing to the demands upon the time of the Curator-in-Chief as Director of the Museum, the enormous detail connected with the administration of the Department has fallen largely upon Dr. Clyde Fisher, who, in addition to fulfilling the duties of Curator of Visual Instruction, is also developing plans for the Department of Astronomy.

Mrs. Ramsey is directly responsible for the supervision of the lantern slide and motion picture film distribution. She also rendered valuable assistance in the general administration of the Department.

Miss Nancy A. True has continued in general charge of the sight conservation work, the exhibition hall talks, the loans to the libraries, and the general guidance through the Museum.

The Curator-in-Chief desires also to acknowledge the effective assistance of the following department members who gave exhibition hall talks, conducted sight conservation classes, aided in the general Museum guidance, or participated in the experiment with the pupil teachers: Dr. Clyde Fisher, Mrs. Grace Fisher Ramsey, Mr. William H. Carr, the Misses Nancy A. True, Elizabeth A. Eckels, Dorothy Van Vliet, Almeda E. Johnson, Farida A. Wiley, Mrs. Gladys L. Pratt, and Dr. William Lord Smith.

At the beginning of the year, Mr. William H. Carr was appointed Assistant Curator. Mr. Carr's previous experience as a teacher of nature with Boy Scouts and others, together with his wide acquaintance with the out-of-doors, especially fitted him for

our staff, and he was assigned as resident naturalist at Bear Mountain.

Our lecture and docent staff was increased by the appointment of Dr. William Lord Smith, F. R. G. S. Doctor Smith is very successful in interesting both children and adults in nature, and his service to the public through personally conducted tours is much appreciated.

Early in the year, Miss Elizabeth A. Eckels joined the department and has rendered excellent service in organizing lecture work and exhibition hall talks, and is a member of our lecture staff. Miss Eckels is a graduate of Brown University and has had practical experience as a teacher.

Our technical staff in the photographic division has been increased by the engagement of Mr. Irving Dutcher.

The year's progress was marked by several publications. The July-August number of *Natural History* was devoted entirely to **Publications** Education, and the article by Mr. Sherwood, "The Story of the Museum's Service to the Schools," was reprinted in pamphlet form for wider distribution. Both these publications were beautifully illustrated. The Motion Picture Catalogue, compiled under the supervision of Mrs. Ramsey, "Signs Along the Trail," and "A Manual of Bird Study," by Mr. Carr, have been previously mentioned. Much valuable material was mimeographed for distribution to pupils and teachers, for use in the Museum halls, especially in connection with the study of birds and mammals.

It is impossible for us here to make individual acknowledgment to the many friends who have aided and encouraged our work by **Acknowledgments** gifts and financial support. We, however, desire especially to mention our indebtedness to the Carnegie Corporation and the Cleveland H. Dodge Foundation, whose financial support during the past three years has greatly facilitated the development of our educational activities. A complete list of the gifts will be found in the accession record for the year. We wish, however, to express our appreciation of the generosity of all these friends, which means so much in carrying on the School Service of the American Museum of Natural History.

PUBLIC INFORMATION

GEORGE N. PINDAR, Chairman

Inspired by the widespread interest in the work of the many expeditions sponsored by the Museum during the past year, the **The Press** press has shown an increasing eagerness to secure definite and correct information concerning this particular branch of our activities, and has utilized it in a most potential fashion to create a heightened interest, as evidenced by the increased hosts of visitors.

In the early years of the work of this Committee, it is recalled that there was a great demand by the press for what might be termed the sensational. Today this attitude has changed. While the press is glad to use the unusual and curious for the purpose of quickening interest, there is unquestionably a very real demand for what has been accomplished in research and scientific work. Special writers of scientific training have been detailed by their editors to interview members of our Curatorial Staff during the past year as never before, and occasionally this department is called upon to "translate" into popular language the material from the scientific departments when it is in too technical form. It is also our office to supervise articles written on Museum work before they go to press, and we have made every effort to afford the writers unhampered facilities in the prosecution of their work.

A decidedly new feature of our activity has been the rendering of assistance to students of journalism, and during the past twelve months this institution appears to have been the special target upon which budding reporters were instructed to train their pencils.

More frequently than ever we have been called upon to issue bulletins concerning the financial condition of the Museum and its need for enlarged endowment. These items in many instances have been of sufficient importance to warrant editorial comment in addition to their news feature, and to the whole-hearted co-operation, in particular of our metropolitan press, is due an appreciation which the Museum unreservedly pays and which it is a pleasure to acknowledge in this report.

During the year, sixty news bulletins were sent out, and from the returns noted in our clippings, few if any were overlooked. In fact, very often information contained in these bulletins aroused

the additional interest of the press in some particular item which afforded material for a special article.

The demand for photographs has been quite unusual. With the growing popularity of the gravure sections in the newspapers has come an increased call for photographs of Museum groups and specimens. At times we have been unable to supply these as liberally as we desired, owing to the restrictions placed upon us.

The members of the Scientific Staff have rendered invaluable service to this department in helping the newsgatherers, and the generous attitude which they have shown in supplying copy is a courtesy which is deeply appreciated.

In addition to the daily press, the editors of encyclopedias, almanacs, magazines and guide books have requested articles on the Museum and its activities, which we have prepared for their columns in order that the work of the institution might have the widest possible dissemination.

Besides this general distribution of publicity, we have prepared, as in past years, the Museum calendar, which has been sent out to members. This feature of the Museum work has been assigned to this Committee. To the work of the Committee is also added the preparation of postcards, stamp albums, and a series of striking souvenirs in the form of plaster models which are placed in the sales booth for visitors.

As Chairman of the Publicity Committee, I can frankly say that my relations with the members of the press and with the editors and writers of publications with whom I have come in contact have been stimulating indeed, and it is my hope that the contact has been of mutual benefit.

ACCESSIONS, 1927

ASTRONOMY

BY GIFT

ANONYMOUS

- 1 Painting, "Northern Lights," by Howard Russell Butler.

BLISS, SUSAN DWIGHT, New York City.

- 3 Books on Sun-dials.

BUTLER, HOWARD RUSSELL, Princeton, New Jersey.

- 1 Oil painting, "Approaching Shadow of the Moon," by Howard Russell Butler.

EICHEMEYER, DR. CARL, Brooklyn, New York.

- 1 Volume, "The Center of the Universe," by Dr. Carl Eichemeyer.

LIEBMAN, MR. and MRS. CHARLES J., New York City.

- 7 Oil paintings, "Solar Prominences."

OBSERVATORIO ASTRONOMICO DE LA NACION, Argentina

- 2 Transparencies, 7 x 9¼, Halley's comet.

GEOLOGY

BY GIFT

ABOUSSLEMAN, J. M., New York City.

- 1 Oyster, both valves intact, interior casts of pelecypods and gastropods, crystals of copal and garnets; Lebanon Mts., Syria.

ACKER, JOSEPH H., New York City.
Part of brachiopod shell; Seman Lane, Annadale, N. Y.

ANONYMOUS

- 2 Fossils.

BARKMAN, C. P., San Rafael, California.

- 1 Brick; "Thunder Peak" pagoda of Hangchow, China.

DEVENDORF, MR. PERL W., Watertown, New York.

- 5 Bryozoa; Watertown, New York.

GERRY, ANGELICA, New York City.

- 3 Fossil plants, *Protolepidodendron primævum*; Lake Delaware, New York.

GOODMAN, DR. D. N., New York City.

- 3 Specimens of clay varves in ancient strata; Kuruman, district of South Africa.

HALVORSEN, E. E., Coalinga, California.

- 175 Miocene fossils; Coalinga, California.

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

- Felsite, fine-grained granite, porphyry showing crystals of feldspar, rhyolite, obsidian, porphyritic felsite, altered volcanic mud impregnated with copper solutions; Wolf Creek, Montana.

HEYER, GEORGE G., New York City.

- 11 Specimens of clay; El Cerrillo, Parana Guazu, Argentina.

HOOPES, THOMAS T., New York City.

- 17 Fossils; Storra Carlsö, Sweden.

KENYON, J. N., New York City.

- 3 Fossil fish scales; 21 miles south of Elmira, New York.

LARSON, LOUIS B., Big Timber, Montana.

- 1 Fragment of Obsidian.

LEE, HENRY E., Rapid City, South Dakota.

- 4 Fossils from the Sudance formation near Rapid City, South Dakota.

LITTLEFIELD, A. T., New York City.

- Mica schist, iron-stained quartzite; Sabbathus, Maine.

- LOWER INVERTEBRATES, DEPARTMENT OF (Transfer)
- 4 Specimens of lava; Nawiliwili Bay, Hawaii.
- MATTHEW, DR. W. D., Berkeley, California.
- 1 Granite; Penang Island, Malacca.
- MINERALOGY, DEPARTMENT OF (Transfer).
- Green porphyry, Zlatauc, Russia; Tachylite, Säsebühl, Germany; Perlite, Jalisco, Mexico; Variolite, France; Napoleonite, Sardinia; Obsidian, Utah; Orbicular diorite, Oslo, Norway.
- MORGAN, LESTER, New York City.
- 2 Limestones; Crugers Point, New York.
- MURPHY, DR. ROBERT C., New York City.
- 1 Common boulder; Vanihoro Island, South Pacific.
- 3 Specimens of lava from volcano of Peco Island, in the Azores. Black mineral glass; Fanui Lai, Tonga Group, S. Pacific.
- 1 Volcano ash; islet of La Horadada, Mediterranean Sea.
- 1 Stalactite from limestone cave in Majorca, Balearic Isles.
- OSBORN, WM. J., New Brunswick, New Jersey.
- 7 Specimens and fragments of belemnite; Monmouth County, N. J.
- PICCIANO, ANTHONY, New York City.
- Sea urchin; France.
- PUTNAM, E. H., New York City.
- 1 Geode; Woodbridge, New Jersey.
- REEDS, DR. CHESTER A., New York City.
- Bentonite, 4 Arbor Vitæ wood, 2 Travertine rock, 2 Brachiopod fossils in limestone, 9 Limestones; Natural Bridge, Virginia.
- REID, JOHN J., Lovelock, Nevada.
- Concretionary mass of "Thinolite"; Lake Lahonton basin, Nevada.
- SCHWACHHEIM, CARL, Raton, New Mexico.
- 6 Carboniferous fossils from Pecos, New Mexico.
- 25 Carboniferous fossils from vicinity of Guadalupita, New Mexico.
- SMITH, PAUL J., Beckley, West Virginia.
- 12 Coal plants from Beckley, West Virginia.
- STOKER, GEORGE C., Lovelock, Nevada.
- Fossil wood; 10 miles West of Oreana, Nevada.
- STONE, L. M., London, England.
- 3 Fossil bivalves; Paita, Peru.
- STURGIS, WILLIAM, Long Island, N.Y.
- Fossils (*Gryphea*), cast of the interior of a species of marine clams; shells, *Inoceramus*; Great Plains, Montana.
- TOPLITZ, S., New York City.
- 1 Shale.
- VAN RIPER, Newland, Long Island City, New York.
- 2 Fossils, *Terebratella plicata*; Marboro, New Jersey.
- VAN TIL, MISS JACQUELINE, New York City.
- 1 Rock.
- VERTEBRATE PALÆONTOLOGY, DEPARTMENT OF (Transfer)
- 43 Sediments; South Dakota. 11 Sandstone, pebbles, shale, clay; South Dakota, Wyoming, and Montana. 2 Volcanic products; Nevada and California. 42 Rocks; Wyoming. 15 Unios, lower Eocene; Tiffany, Colorado. 15 Specimens of Cretaceous and Tertiary sediments; Mongolia. 43 Specimens and

slides of sediments from Eocene of Western States.

WEIMER, JOSÉ, Philadelphia, Pa.

49 Fossil brachiopod shells; Colombey-les-Belle, France.

WILLIAMS, COLEMAN S., New York City.

82 Specimens of Cretaceous chalk, including Oxford clays, from England.

BY EXPEDITION

ALEXANDER, C. I., Fort Worth, Texas.

181 Specimens of fossils; Texas.

CENTRAL ASIATIC EXPEDITIONS.

137 Fossils; Mongolia. 38 Rocks, 2 Boxes of pebbles and sand.

DEPARTMENTAL FIELD WORK (DR. CHESTER A. REEDS).

307 Samples of glacial clay from Little Ferry, N. J., Carlstadt, N. J., Haverstraw, N. Y., Dutchess Junction, N. Y., Mountain View, N. J., Berkeley Heights, N. J., and White Bridge, N. J.

GOODWIN, GEORGE G.

45 Fossils from Flat Island, Port Real, Vieques Island, Catouche Bay, from the top of Cave Country, Anguilla Island.

NOBLE, DR. G. KINGSLEY.

45 Specimens including Stalactites, Calcite crystals; Missouri.

REEDS, DR. CHESTER A.

24 Specimens, including Diabase; Palisades. Schist; Manhattan. Dolomite; Inwood. Gneiss; Fordham.

132 Geologic specimens including "Thinolite," Obsidian, Opalized wood, Fossilized wood, Chalcedony, Lava and Greenstone, Volcanic mud, White volcanic ash, Red pumice, "Manganese

balls," satin spar, Desert weathering of bottle glass; Nevada.

5 Redwall limestone; Arizona.

1 *Productus* sp. (in rock); Arizona. 3 Granitic rocks; Arizona. 1 Specimen of sand barite crystal; Norman, Oklahoma.

5 Marine shells, recent; San Francisco, California.

1 Specimen from the Redwood tree; Hondo, California.

1 Lump of Brea from Rancho la Brea pits, Los Angeles, California.

1 Specimen of Cinnabar, 35 miles east of Lovelock, Nevada.

MINERALOGY

BY GIFT

ABBE, DR. ROBERT, New York City.

3 Gypsum crystals, "Desert Roses"; Desert Sands of Eastern North Africa.

BAIRER, JOSEPH G., New York City.

1 Pyrrhotite; New Caledonia.

BOLTON, REGINALD P., New York City.

2 Opalized wood; Teller Co., Colorado.

BOYAJIAN, JOHN M., New York City.

1 String of copal beads; West Coast of Africa.

BROWN, MORRIS D., Standardsville, Virginia.

1 Epidote; Standardsville, Virginia.

CARTIER, PIERRE, New York City.

9 Colored lantern slides of gems.

COLBURN, W. B., Statesville, North Carolina.

1 Chabazite (Phacolite); Hiddenite, North Carolina.

CRAM, H. W., New York City.

1 Pyrite concretion; Isle of Wight.

- D'AUBY, THEODORE, Birney, Montana.
 2 Gypsum on petrified wood; Birney, Montana.
 2 Shale; Birney, Montana.
- DIXON, CAPTAIN JOSEPH, New York City.
 3 Diamond crystals; Talbot Co., Georgia.
- ENGLISH, H. A., New York City.
 1 Huebnerite; Nevada.
 1 Orpiment and Realgar; Manhattan, Nevada.
 1 Perlite; Southwestern United States.
 1 Pyrolusite; California.
- GOODMAN, D. N., New York City.
 16 Crocidolite and associated rock; Kuruman District, South Africa.
 1 Serpentine; Kaaschee Hoop, Barberton District, South Africa.
 1 Unknown phosphate; Griqualand, South Africa.
- HARSTAD, A. J., Wolf Creek, Montana.
 1 Barite encrusted with Limonite and Malachite; New Era, Wolf Creek, Montana.
- HAWKINS, DR. ALFRED C., New Brunswick, New Jersey.
 5 Glauberite in red shale; Blackwell Mine, New Jersey.
- HENLEY, LEWIS, Rome, New York.
 1 Muscovite; Subway, New York City.
- HOADLEY, CHARLES W., Englewood, New Jersey.
 1 Eosphorite and Dickinsonite; Portland, Connecticut.
 1 Psilomelane.
- ILVENTO, DEODORO, Groton, Connecticut.
 1 Feldspar; Groton, Connecticut.
- KAYTON, MISS M., New York City.
 Collection of miscellaneous duplicate minerals.
- LIVINGSTON, COL. M. H., New York.
 1 Argentite; Pinal, Arizona.
 1 Argentite; near Bitter Root, Arizona.
 2 Azurite, Copper Queen Mine; Bisbee, Arizona.
 1 Azurite and Malachite; Yavapai Co., Arizona.
 12 Azurite and Malachite; Bisbee, Arizona.
 1 Calcite and Aragonite; Huachuca Mt., Sonora, Mexico.
 2 Calcite, Copper Queen Mine; Bisbee, Arizona.
 5 Cerussite; Pinal, Arizona.
 2 Copper; Yavapai Co., Arizona.
 1 Copper; Butte, Montana.
 7 Copper; Bisbee, Arizona.
 1 Copper and Cuprite; Bisbee, Arizona.
 1 Copper; Sonora District, Mexico.
 2 Cuprite and Malachite; Bisbee, Arizona.
 2 Cuprite; Pinal Co., Arizona.
 1 Galena.
 5 Malachite; Copper Queen Mine, Bisbee, Arizona.
 10 Opal (Hyalite) on Galena; Pinal Co., Arizona.
 1 Opal (Hyalite) on Sphalerite; Pinal Co., Arizona.
 1 Quartz (Amethyst) encrusting Calcite; Colorado.
 1 Silver; Pinal Co., Arizona.
- MERCER, ROBERT, Paterson, New Jersey.
 1 Calcite; Paterson, New Jersey.
- MORGAN, J. P., New York City.
 1 Amber, 52.80 ounces; Sammland, Eastern Prussia.
 1 Amethyst, 48.64 carats; Madagascar.
 1 Amethyst and Chalcedony irregular dish.
 1 Aventurine dish; India.
 1 Chalcedony dish; Uruguay.

- 1 Chrysoprase dish; Siberia, mined in 1826.
 1 Fluorite dish; England.
 1 Jade pendant and chain carved from one piece without breaks; Tammau, Burma.
 1 Jasper banded dish; India.
 1 Spinel, 46.48 carats; Ceylon.
 1 Starlite, Blue Zircon, 30.10 carats; Chantabun, Siam.
- PAPKE, H., Union City, New Jersey.
 3 Calcite; West Paterson, New Jersey.
- RADIUM MINERAL CORPORATION, New York City. (Through Hon. McDougall Hawkes.)
 2 Torbernite; White Signal, New Mexico.
- RANDOLPH, E., New York City.
 1 Gypsum on petrified wood; Birney, Montana.
- SEAMAN, HERBERT, Paterson, New Jersey.
 1 Stilbite; Paterson, New Jersey.
- SHELDON, FRANKLIN, New York City.
 1 Allanite and Tourmaline; Bedford, New York.
- SHEREVE, R. H., New York City.
 1 Galena; Broadway, New and Beaver Streets, New York City.
- SMALLECK, HOWARD, New York City.
 5 Garnets; Inwood, New York.
- STAVER, W. H., Jackson Heights, New York.
 1 Linarite; Inyo Co., California.
 1 Pyrolusite; Deming, New Mexico.
- WHEELER, MRS. LAURA, New York City.
 1 Beryl; Wilton, Conn.
- WOLFF, J. P., New York City.
 2 Coccolite; Orange Co., New York.
 1 Diamond crystal; Mazaruni River, British Guiana.
- BY EXCHANGE
- BAUER, L. H., Franklin, New Jersey.
 1 Cahnite; Franklin, New Jersey.
 1 Friedelite; Sterling Hill, New Jersey.
 2 Lollingite; Franklin, New Jersey.
 1 McGovernite; Franklin, New Jersey.
 8 Zinc crystal; Parmerton, New Jersey.
- BROOKS, W. B., Sound Beach, Connecticut.
 1 Microcline; Bedford, New York.
- COOPER, MORRIS, New York City.
 1 Sphalerite; Tinton, British Columbia.
- DE LA TORRE, DR. RICARDO, Habana, Cuba.
 1 Agatized wood; Los Villas, Cuba.
 1 Vial of Garnierite; San Domingo, Cuba.
- HOADLEY, CHARLES, Englewood, New Jersey.
 1 Idrialite; Idria, Carniola, Italy.
- MANCHESTER, JAMES G., New York City.
 1 Feldspar; Bedford, New York.
- SEAMAN, HERBERT, Paterson, New Jersey.
 1 Laumontite on Datolite; Paterson, New Jersey.
- BY PURCHASE
- MATILDA W. BRUCE FUND.
 1 Albite; Newry, Maine.
 1 Analcite and Datolite; West Paterson, N. J.
 1 Anhydrite; Prospect Park, Paterson, N. J.
 1 Apophyllite; West Paterson, N. J.
 6 Babingtonite; Woburn, Mass.

- 7 Babingtonite; West Paterson, N. J.
- 3 Barite; Prospect Park, Paterson, N. J.
- 1 Barite and Babingtonite; West Paterson, N. J.
- 1 Beaverite; Beaver Co., Utah.
- 1 Bismuthosmaltite; Zschorlau, Saxony.
- 1 Boothite; California.
- 1 Brunsvigite; Schmalenberg, Saxony.
- 8 Calcite; West Paterson, N. J.
- 1 Calcite and Datolite; West Paterson, N. J.
- 1 Calcite on Prehnite; West Paterson, N. J.
- 2 Calcite on Quartz; West Paterson, N. J.
- 1 Calcite; Rossie, N. Y.
- 7 Chabazite; West Paterson, N. J.
- 1 Chabazite and Hematite; West Paterson, N. J.
- 1 Chlormanganokalite; Vesuvius.
- 1 Chrysotile; Prospect Park, Paterson, N. J.
- 1 Cuproplumbite; Butte, Montana.
- 7 Datolite on Prehnite; West Paterson, N. J.
- 21 Epidote; Sulzer, Alaska.
- 1 Florencite; Datlas, Brazil.
- 12 Garnet; Westchester and Elder Avenues, Bronx, N. Y. C.
- 1 Garnet; Sulzer, Alaska.
- 1 Garnet (Spessartite); West Cummington, Mass.
- 1 Grothite; Plauen, Saxony.
- 3 Gypsum; West Paterson, N. J.
- 1 Harstigte and Rhodonite; Pajsberg, Sweden.
- 1 Hartite, Diamantina; Minas Geraes, Brazil.
- 1 Heulandite on Quartz; West Paterson, N. J.
- 1 Hugelite; Geroldseck, Baden, Germany.
- 1 Hulsite; Seward Peninsula, Alaska.
- 1 Iddingsite; San Bernardino Co., Cal.
- 1 Ilsemanite, Freiberg, Saxony.
- 1 Iridium; Nishne Tagilsk, Urals, Russia.
- 3 Kernite; near Riche, Kern Co., Cal.
- 1 Limonite after Pyrite; Sulzer, Alaska.
- 1 Lotrite; Parangu, Transylvania, Roumania.
- 1 Luneburgite; Luneburg, Hanover, Germany.
- 1 Manganostibiite; Nordmark, Germany.
- 1 Mendozite; Box Elder Co., Utah.
- 1 Microlite; Newry, Maine.
- 1 Morenosite; Nassau, Germany.
- 1 Natrolite; West Paterson, N. J.
- 3 Opal; Barcoo River, Queensland, Australia.
- 15 Opal; Virgin Valley, Nevada.
- 2 Pectolite; West Paterson, N. J.
- 4 Phenacite; Ouro Preto, Minas Geraes, Brazil.
- 1 Parsettensite and Errite; Parsettens, Grisons, Switzerland.
- 1 Picropharmacolite; Freiberg, Saxony.
- 1 Prehnite; West Paterson, N. J.
- 1 Pyrophanite; Pajsberg, Sweden.
- 1 Quartz; West Paterson, N. J.
- 2 Quartz (Smoky); West Paterson, N. J.
- 1 Quartz Pseudomorph; West Paterson, N. J.
- 1 Raspite; Broken Hill, New South Wales.
- 1 Richmondite; Richmond, Mass.
- 1 Rutherfordine, Uruguru Mts., East Africa.
- 1 Safflorite; Schneeberg, Saxony.
- 1 Samsonite; Andreasberg, Harz, Germany.
- 1 Senaite; Minas Geraes, Brazil.
- 1 Stilbite and Chabazite; West Paterson, N. J.

- 1 Sitaparite; Sitapar, India.
 1 Spangolite; Arenas, Sardinia.
 1 Taramellite; Candoglia, Aosta, Italy.
 1 Tinzenite; Tinzen, Grisons, Switzerland.
 1 Trippkeite; Copiapo, Chile.
 1 Thomsonite; West Paterson, N. J.
 1 Thomsonite on Prehnite; West Paterson, N. J.
 1 Thomsonite and Datolite; West Paterson, N. J.
 1 Tourmaline; Newry, Maine.
 2 Vesuvianite; Sulzer, Alaska.
 325 Miscellaneous Russian minerals.
- MUNICH MUSEUM, Munich, Germany (Through Dr. Stromer).
 Cast of mastodon tooth fragment.
 PAVLOW, MME.
 4 Casts, lower jaw and palate of *Indricotherium transeuralicum*; Russian Turkestan.
 SANTOS, SUAREZ, Habana, Cuba.
 1 Fossil shark tooth; Cuba.
 UNIVERSITY OF CALIFORNIA, Berkeley, California.
 (Through Dr. W. D. Matthew)
 Tooth of *Desmostylus*, tooth fragments and piece of matrix; East Walnut Creek, California.
 HOLMES, WALTER W., Waterbury, Conn.
 Collection of Pleistocene fossils from St. Petersburg (Seminole), Florida.

VERTEBRATE PALÆONTOLOGY

By GIFT

ANONYMOUS

- 4 Teeth and jaw fragments of fossil camel; Penon Viejo, Mexico.
 BARBOUR, DR. THOMAS, Cambridge, Mass.
 1 Historical color-print of locality where Warren mastodon was found.
 BIJLMER, DR. H. J. L., Weltevreden, Java.
 Lower jaw of fossil gaur (*Bibos palaoondaicus*) from the Pithecanthropus locality; Trinil, Java.
 COLORADO MUSEUM, Denver, Colorado.
 5 Bones, samples for chemical and microscopic examinations; Texas, New Mexico, Oklahoma.
 DICKINSON, A. W., Superior, Wyoming.
 Dinosaur track.
 LAUZER, DR. E. S., Rock Springs, Wyoming.
 10 Miscellaneous fossil bones; near Rock Springs, Wyoming.

BY EXCHANGE

- BRIGHAM, DR. E. M., Battle Creek, Michigan.
 Fragments belonging with *Phytosaurus* skull; Post, Texas.
 BRITISH MUSEUM (Natural History), London, England.
 Cast of type molar of *Mastodon angustidens* Cuvier.
 MUSÉE ROYAL D'HISTOIRE NATURELLE, Bruxelles, Belgium.
 Casts of portions of *Iguanodon* skeleton.
 MUSÉUM D'HISTOIRE NATURELLE, Geneva, Switzerland.
 5 Casts of fossil teeth *Hyamartos insignis*; Boutennet, near Montpelier.
 THORPE, MALCOLM R., New Haven, Connecticut.
 2 Casts of palate and frontals of *Tetrameryx shuleri* Lull; Lagow Sand Pit, Dallas, Texas.
 UNITED STATES NATIONAL MUSEUM, Washington, D. C.
 39 Bones of *Stegosaurus*.

BY PURCHASE

DAMON AND COMPANY, London, England.

2 Sets of colored casts of rostracarimates and sub-crag flints, from J. Reid Moir.

NININGER, H. H., McPherson, Kansas.

About 25 footprints of fossil mammals; Oak Creek near Cornville, Arizona.

OTTAWA MUSEUM, Ottawa, Canada.

3 Negatives of skull and jaw of *Hypacrosaurus altispinus*; Red Deer River, Alberta.

SKINNER, MORRIS, and QUINN, JAMES, Ainsworth, Nebraska.

Fossils, collected at Ainsworth, Nebraska.

STERNBERG, CHARLES H., San Diego, California.

Rostrum of fossil cetacean; San Diego, California.

BY EXPEDITION

BERNHEIMER, CHARLES L.

Several blocks of sandstone, containing footprints of Dinosaurs; Northeastern Arizona.

BROWN, BARNUM, New York City.

Small fossil mammal jaws; Bear Creek, Montana.

Slabs of coal containing fossil mammals; Bear Creek, Montana.

CENTRAL ASIATIC EXPEDITIONS (Mr. Walter Granger).

1 Egg of *Struthiolithus*; Shantung or Honan, China. Collected by Native Chinese, purchased by Roy C. Andrews.

Fossils, Ma Kai Valley, Red River Valley, China.

LUCKHOFF, A., South Africa.

Portions of skull, jaws, and skeleton of *Dicynodon*; South Africa.

SORENSEN, CARL.

Fossil mammals; Ainsworth, Nebraska.

THOMSON, ALBERT, Agate, Nebraska.

Fossil mammals; Agate, Nebraska.

LOWER INVERTEBRATES

BY GIFT

BRADLEY, F. W., Upper Montclair, New Jersey.

1 Gorgonian; West Coast, Florida.

BROWN, BARNUM, New York City.

500 Land shells; India.

CHRISTMAN, CHARLES, New York City.

1 *Scolopendra*; Keams Canyon, Arizona.

CLAPP, P. E., New York City.

1 Crayfish (*Cambarus limosus*); Ramapo River, Suffern, N. Y.

COUGHLIN, GEORGE, New York City.

Collection of 150 marine shells; Bangor, County Down, Ireland.

CREHORE, JOHN D., New York City.

3 Crustaceans, 2 Centipedes, 1 Octopus, 1 Annulate, 4 Echinoderms, 4 Shells, from Dominican Republic.

FALLICK, MISS SALLY, New York City.

3 Mollusk shells.

GRAVE, PROF. CASWELL, St. Louis, Missouri.

3 Species of Ascidians, from Tortugas, Florida.

JACOT, A. P.

50 Specimens of marine shells, from Beaufort, North Carolina.

KENTZ, H. M., Riverside, California.

3 Cup sponges; Tarpon Springs, Florida.

KNOWLES, H. C., New York City.

2 Holothurians (*Stichopus badiotus*); Florida.

- KUNZ, DR. GEORGE F., New York City.
434 Fresh-water bivalve pearl shells,
6 Precious corals, 6 Annulates,
2 Octopus.
- MAMMALOGY, DEPARTMENT OF
(Transfer).
9 Shells; Galapagos Islands.
- MARKS, E. S., Arlington, New
Jersey.
About 300 shells, from White
Pond, New Jersey, and Wright
Landing, Georgia.
- MORRIS, L. V., Garden City, Long
Island, New York.
1 Crustacean (*Livoneca ovalis*);
Long Island.
- MYERS, FRANK J., Ventnor, New
Jersey.
31 Slides of mounted and identi-
fied rotifers, including 8 types
and 18 trophi; Mount Desert I,
Me., and New Jersey.
- OLDROYD, MRS. IDA S., Leland Stan-
ford University, California.
25 Lots of identified shells, 25
species, many specimens; Island
of Lifou.
- OVERTON, DR. FRANK, Patchogue,
Long Island.
(Through the Department of
Public Education).
Eggs and young of Horseshoe
crab (*Limulus polyphemus*);
Asbury Park, New Jersey.
- SHAMBERG, MRS. L., New York City.
9 Marine shells.
- TOWNSEND, DR. CHARLES H., New
York City.
Models (scale) of three types of
dredges used on the U. S. S.
"Albatross."
- TREADWELL, PROFESSOR A. L.,
Poughkeepsie, New York.
300 Identified annulates, including 9
paratype specimens (33 species).
- VAN NAME, DR. W. G., New York
City.
2 Clam shells; Long Beach, Long
Island.
- VIDEA, ANTHONY, New York City.
1 Star fish (*Oreaster reticulatus*).
- WEEKS, W. H. Brooklyn, New
York.
8 Identified shells (3 species);
New Zealand and Sicily, Italy.
- WELCH, D. A., New York City.
3 Land shells; Riderwood, Mary-
land.
- WRIGHT, HAMILTON, New York
City.
1 Copepod; Off Miami, Florida.
- BY EXCHANGE
- CHRISTIE-LINDE, DR. A. ARNBACK,
Stockholm, Sweden.
14 Identified ascidians (5 species).
- GEORGE, PROF. W. C., Chapel Hill,
North Carolina.
3 Ascidians; Bermuda.
- MARWICK, J., Wellington, New Zea-
land.
160 Identified shells (60 species);
Auckland and Wellington, New
Zealand.
- OLDROYD, MRS. IDA S., Leland Stan-
ford University, California.
67 Identified marine shells (15
species); Lifu, Loyalty Islands.
- VANDERBILT "ARA" EXPEDITION TO
THE GALAPAGOS.
15 *Pyrosoma aherniosum*; coelen-
terates; Pacific Ocean.
- WELCH, D. A., New York City.
150 Land shells (3 species);
Roslyn, Long Island, and South
America.
- BY PURCHASE
- ANTHONY, A. W., Guatemala.
94 Land shells; Guatemala.

VERRILL, A. E., Estate of
Collection of marine invertebrates
from Hawaiian Islands. (890
lots, 4,238 specimens).

BY EXPEDITION

NOBLE, DR. G. K.
11 Blind Crayfish, 1 Centipede;
Smallins Cave, Mo.

PUTNAM BAFFIN ISLAND EXPEDITION.

Collection of 250 invertebrates;
Cape Dorset, Baffin Islands.

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

1 Earth worm; Lulonga, Kivu
District, Africa.

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

6 Myriapods.

1,050 Land and marine shells; Solo-
mon Islands.

ENTOMOLOGY

BY GIFT

ACADEMY OF NATURAL SCIENCES,
Philadelphia, Pa.

324 Orthoptera, including 24 para-
type specimens.

ANGELL, JOHN W., New York City.

1 *Eurymus eurytheme*, Oradell,
New Jersey.

ARANGO, A. VILLEGAS, Panama City,
Panama.

1 Beetle (*Plusiotes resplendens*),
Chiriqui, Panama.

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

198 Lepidoptera, various localities.

BIRBECK, R., New York City.

217 Lepidoptera, Cuba.

BROWN, BARNUM, New York City.

3,407 Insects of all orders, 70
Samos, 62 India, 3,375 Abyssinia.
These specimens were re-
ceived from time to time at
earlier dates.

CAHALAN, J. and T., New York
City.

75 Lepidoptera, Western United
States.

CANADIAN GOVERNMENT, Ottawa,
Canada.

(Through Mr. J. McDunnough).

4 Anthidiine bees, Canada.

COCKERELL, PROF. T. D. A., Uni-
versity of Colorado, Boulder,
Colorado.

50 Specimens, including 14 named
species of bees, Old World and
New; 15 specimens of Hy-
menoptera, Diptera, Lepidoptera,
Peru and Philippine Islands; 5
Vials (100 or more) unmounted
insects, Yura, near Arequipa,
Peru; 26 Bees, New World and
Old.

CREHORE, JOHN D., New York City.

8 Specimens of spiders and in-
sects in alcohol, Dominican Re-
public.

DARLINGTON, P. J., Forest Hills,
Mass.

25 Coleoptera, Cuba.

DAVIS, WM. T., Staten Island, N. Y.

34 Cicadidæ.

DURY, CHAS., Cincinnati, Ohio.

4 Beetles (*Blaps mucronata*), Cin-
cinnati, Ohio.

ENTOMOLOGICAL MUSEUM, Lawrence,
Kansas.

33 Heteroptera, including 27 para-
types.

FALL, PROF. H. C., Tyngsboro,
Mass.

1 Paratype of *Monocrepidius*
(*Heteroderes*) *planediscus*.

FRISON, DR. THEODORE H., Urbana,
Illinois.

1 *Tiphia tuberculata*, male and
female paratypes, 1 *Muscidi-
furax raptor*, male and female
paratypes, Illinois.

- GENERAL SILK IMPORTING COMPANY, New York City.
Cocoons and silk in different stages of manufacture.
- GUNDER, J. D., Pasadena, California.
85 Photographs of W. G. Wright's types of butterflies.
- HALL, G. C., New York City.
340 Lepidoptera, 19 Hymenoptera, Newfoundland, British Columbia.
- HAYES, SAMUEL P., JR., South Hadley, Mass.
1 Aberrant butterfly, Becket, Mass.
- HEINEMAN, MR. and MRS. B., New York City.
8 Insects, chiefly Lepidoptera, Porto Rico.
- HOLMES, C., Cordoba, Vera Cruz, Mexico.
497 Insects, Mexico.
- ISOME, K., Tokyo, Japan.
Lot of silk cocoons; pamphlets, etc., regarding silk culture; exhibition material concerning the life-history of the silk-worm.
- JOHNSON, FRANK, Glen Ridge, New Jersey.
907 Insects, Lepidoptera.
- JONES, FRANK M., Wilmington, Delaware.
50 Bees and wasps, Royal Palm Park, 6 Lepidoptera, 3 biological specimens, United States.
- LEONARD, D. D., New York City.
150 Silk cocoons and Japanese silk wadding, Italy, Japan and China.
- LOOMIS, ALFRED L., Tuxedo Park, New York.
1 Dodge station-wagon.
- LOWER INVERTEBRATES, DEPARTMENT OF, Museum.
309 Insects and spiders, Hawaiian Islands.
- MAMMALOGY, DEPARTMENT OF, Museum.
Collection of 15 insects and arachnids in alcohol, West Indies.
- MARSHALL, DR. M. Y., Henderson, Kentucky.
4 Beetles, Henderson, Kentucky.
- MATHIAS, W. C., Portland, Oregon.
47 Insects, chiefly Lepidoptera, Washington and Oregon.
- NAUMBURG, MRS. E., New York City.
15 Beetles, Barra, Bahia, North Brazil.
- NICOLAY, A. S., Upper Montclair, New Jersey.
36 Beetles, United States
- NOTMAN, HOWARD, Brooklyn, N. Y.
2 Carabidæ, North and South Carolina.
- REED, GUILLERMO, Valparaiso, Chile.
12 Beetles (Carabidae), Valparaiso, Chile.
- SMITH, DR. H. M., Washington, D. C.
102 Lepidoptera, Siam.
- STETSON, SERENO, New York City.
13 Specimens, chiefly Lepidoptera.
- TIMBERLAKE, PROF. P. H., Riverside, California.
28 Anthidiine bees, Riverside, Cal.; 1 *Anthidium tricuspidum*, Florida; 1 Female and 2 Male of *P. gerardia*, California; 23 specimens, California and New Mexico; 26 Perdita, including 14 species, many of them paratypes, California and Washington.
- UNITED STATES NATIONAL MUSEUM, Washington, D. C.
2 *Ptilodactyla exotica*, paratypes, Melrose Park, Illinois.
9 Beetles including 2 *Telsimia emarginata* paratypes.
- WINTERS, FRED E., Santa Barbara, California.
72 Insects, California.
- WOLCOTT, GEO. N., Port au Prince, Haiti.
15 Beetles, including 10 paratypes of *Phyllophaga*, Haiti.
8 Weevils, Haiti.

By EXCHANGE

CORNELL UNIVERSITY, Ithaca, New York.

(Through Prof. J. C. Bradley).

22 Anthidiine and Stelid bees, United States

DE ANDRADE, DR. E. NAVARRO, Rio Claro, Brazil.

19 Coleoptera, Brazil.

FRIESE, DR. HEINRICH, Mechlenburg, Germany.

18 Bees (13 *Anthidium*, 2 *Eriades*, 1 *Stelis*, 2 *Englossa*), Old and New World Tropics.

MANCINI, CESARE, Genova, Italy.

128 Beetles (*Carabidæ*), Italy.

68 *Scarabæidæ*, Italy.

MEYER, DR. R., Darmstadt, Germany.

120 Bees, Old World.

RUMMEL, CHARLES, Newark, New Jersey.

120 Inflated Lepidoptera larvæ, biological specimens.

UNITED STATES NATIONAL MUSEUM, Washington, D. C.

3 Diptera paratypes.

By EXPEDITION

CENTRAL ASIATIC EXPEDITIONS (Mr. Walter Granger).

3 Bees, 1 Beetle, about 200 ants in alcohol, China.

WHITNEY SOUTH SEA EXPEDITION (Clarence E. Hart, Rollo H. Beck, Hannibal Hamlin).

1,094 Insects, mostly Lepidoptera, Solomon Islands, South Seas.

ICHTHYOLOGY

By GIFT

BLOCK, E. H., New York City.

1 Fish (*Pterois volitans*).

BROWN, BARNUM, New York City.

1 Blenny, 1 Sea horse (*Hippocampus*); Island of Samos, Greece.

CLEAVES, HOWARD H., New York City.

Vial of capelin spawn; near Salmon Bay, Labrador.

COLES, DR. RUSSELL J., Chatham, Virginia.

1 Slab fossil herrings; Albert Co., New Brunswick.

DEEDERA, C., Winter Haven, Florida.

1 Fossil shark tooth (*Lamna*); Florida.

ERNST, HOWARD M., New York City.

2 Trout skins; White Pine Lake, Ontario.

GREY, DR. ZANE, Altadena, California.

32 Enlarged photographs of fishing scenes, colored by hand.

HERPETOLOGY, DEPARTMENT OF, MUSEUM.

3 Fishes; Rock Island, Illinois.

HEWITT, E. R., New York City.

Framed panel and label of angling tackle, made in England.

HUBBS, CARL L., Ann Arbor, Michigan.

2 *Cyprinodon variegatus*; Bahamas.

JANVRIN, MRS. E. R. P., New York City.

1 Butterfly fish (*Chatodon ocellatus*); Long Beach, L. I.

KENNEDY, DONALD G., Vaitupu, Ellice Island, South Sea.

3 Bottles of *Ruvettus* (fish) oil; South Sea.

KIMZEY, A. H., Farmersville, Texas.

Collection (about 50) fossil shark's teeth; Farmersville, Texas.

LOWER INVERTEBRATES, DEPARTMENT OF, MUSEUM.

8 Bottles of fishes; Hawaiian Islands.

MAIN, ROLLAND, New Brunswick, New Jersey.

10 Fishes; New Jersey.

- MARTIN, ANDY, Beverley Hills, California.
 2 Sucking fishes; Catalina Island.
- MEBANE, S., Great Falls, South Carolina.
 1 Darter; South Carolina.
- MOWBRAY, L. L., Miami, Florida.
 8 Sucking fishes
- MYERS, G. S., Stanford University, California.
 2 Fishes; Bangkok, Siam; 1 Fish; Luzon, Philippine Islands.
- NELSON, DR. T. C., Rutgers University, New Brunswick, New Jersey.
 1 *Gobiosoma bosci*, Sloop Creek State Oyster Bed, New Jersey.
- NEW YORK AQUARIUM, New York City.
 1 Buffalo fish (*Ichtiobus cypri-nella*); 1 Cobia (*Rachycentron canadus*); 1 Sting ray.
- PEARSE, DR. A. S., Durham, N. C.
 1 Fish (*Periophthalmus kalreuteri*); Adu, Nigeria.
- PROCTOR, MRS. L. Sanford, New York City.
 1 Fish (*Gnathypops*); Palm Beach, Florida.
- SENNETT, MACK, Los Angeles, California.
 Piece of film of submarine life, dealing with the whale shark; Cape San Lucas.
- SOWERBY, ARTHUR D. C., Shanghai, China.
 About 80 fishes (*Amphioxus*); Amoy, China.
- SZENTAMORSKY, ALEX, New York City.
 Jaws of mackerel shark; Atlantic Ocean, 16 miles out.
- VANDERBILT, W. K., New York City.
 29 Framed paintings, of fish collected on the "Ara" expedition, Wm. Belanske, artist.
- VAN NAME, DR. WILLARD G., New York City.
 1 Anchovy (*Cetengraulis mysticetus*); Panama.
- VERTEBRATE PALÆONTOLOGY, DEPARTMENT OF, MUSEUM.
 Shark's tooth (*Carcharodon megalodon*); Miocene, Cuba.
- VIEDA, ANTHONY, New York City.
 1 Flying Gurnard; Atlantic Ocean.
- WRIGHT, HAMILTON M., New York City.
 6 Sucking fishes from off Miami, Florida.
- BY EXCHANGE
- KIAER, JOHAN, Paleontologisk Museum, Oslo, Norway.
 6 Fossil Anaspida, 10 Casts of type specimens of Anaspida and Cephalaspids, Ringerike, Norway.
- PRATER, DR. S., PRINCE OF WALES MUSEUM, Bombay, India.
 Dried skin of giant carp "Mah-seer," Bahwani R., Mysore, India.
- BY PURCHASE
- DE MARTINO, JOSEPH, New York City.
 1 Halibut head.
- PAIOFF, MME. RAY, New York City.
 4 Fossil fishes.
- WEST, FRANCIS, New York City.
 6 Mounted fishes, including 2 Snappers, 1 Mackerel, 1 Parrot-bird, 1 Red Grouper, 1 *Seriola dumerili*.
- BY EXPEDITION
- BURDEN, WM. DOUGLAS, EXPEDITION.
 26 Fishes; Komodo Islands, East Indies.
- CENTRAL ASIATIC EXPEDITIONS (MR. WALTER GRANGER).
 101 Fishes; China.

LEE GARNETT DAY RORAIMA EXPEDITION (GEO. H. H. TATE and T. DONALD CARTER).

7 Fresh-water fishes; Brazil.

RUWENZORI-KIVU EXPEDITION (DR. JAMES P. CHAPIN and MR. DE WITT L. SAGE).

2 Crocks of Fishes; Africa.

25 Small fishes; Southeastern Belgian Congo, Africa.

TAYLOR SUDAN EXPEDITION.

450 Fishes; Red Sea and Nile.

WHITNEY SOUTH SEA EXPEDITION (MR. ROLLO BECK).

7 Fishes; Solomon Islands.

HERPETOLOGY

By GIFT

ANONYMOUS.

1 Frog; Paraguay.

BELLINGER, HAROLD, Huntington, Massachusetts.

1 Rattlesnake; Mt. Tekeva, Wronoco, Massachusetts.

BEUTENMULLER, WILLIAM, JR., Tenafly, New Jersey.

1 Salamander; New Jersey.

BURCH, MEREDITH, New York City.

3 Turtles; Syosset, Long Island, Plainfield and Bay Head, New Jersey.

BURT, CHARLES, Ann Arbor, Michigan.

1 Frog, 25 Lizards; Kansas.

BUTLER, L. N., Phoenix, Arizona.

1 Gecko; Arizona.

CLARK, MISS H. C., Taos, New Mexico.

1 Tiger Salamander; New Mexico.

DE LA TORRE, CARLOS, Havana, Cuba.

14 Lizards; Cuba.

DE VILLIERS, DR. C. G. S., Stellenbosch, South Africa.

1 Toad; Transvaal, South Africa.

ENGELHARDT, GEORGE P., Brooklyn, New York.

1 Spring Peeper; New Jersey. 1 Salamander; Indiana.

ESKRIGGE, ROBERT B., New Orleans, Louisiana.

1 Hognose snake; Highlands, North Carolina.

FRICK, CHILDS, New York City.

3 Red-backed salamanders; Gaspé Peninsula, Quebec.

GAMEZ, LOUIS E., Caracas, Venezuela.

1 Piece of tortoise shell; Venezuela.

GISSELL, SCOUT HARVEY C., New York City.

6 DeKay's snakes; Long Island.

GORDON, MALCOLM, New York City.

1 DeKay's snake; 2 Water snakes; 6 Musk turtles; Tuxedo, New York.

GRINELL, CAPTAIN O. C., Bay Shore, Long Island.

1 Leatherback turtle; Fire Island Inlet, Long Island.

HASSLER, WILLIAM G., New York City.

30 Tadpoles and 1 bunch of frog's eggs; New York City.

HASSLER, W. G., MALCOLM GORDON, FREDERICK KAYSER, L. BRODHEAD, and R. LEFFINGWELL, New York City.

19 Snakes; 4 Salamanders; Wil- low, New York.

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

2 Snakes; 11 Frogs, 5 Tadpoles; Havana, Cuba.

HOWES, PAUL G., Greenwich, Conn.

1 Snake; Dominica.

JOSEPH, ELLIS S., New York City.

7 Turtles.

KAYSER, SCOUT FREDERICK, New York City.

1 Snapping turtle, 3 Musk turtles, 33 Salamanders, 1 Pickerel frog; Peach Lake, New York.

- KLAUBER, L. M., San Diego, California.
 8 Frogs; San Diego, California.
- LEWIS, MRS. TRACY H., Plandome, Long Island.
 7 Newly-hatched box turtles; Long Island.
- MARIÁ, BROTHER NICÉFORO, BOGOTÁ, Colombia.
 33 Coecilians, 23 Frogs, 20 Tadpoles, 160 Lizards, 37 Snakes, 1 Turtle; South America.
- MARSHALL, BYRON C., Imboden, Arkansas.
 7 Salamanders; Kansas.
- MARTIN, SCOUT FRANK, New York City.
 3 DeKay's snakes; New York City.
- MILLER, MISS B. S., Kingston, New York.
 1 Salamander; Kingston, N. Y.
- MILLER, W. DEW., New York City.
 2 Garter snakes, 1 Green snake; 1 Black snake, New Jersey.
- MURPHY, DR. ROBERT C., New York City.
 1 Frog; South Carolina.
- NEW YORK AQUARIUM, New York City.
 1 Salamander.
- NEW YORK ZOOLOGICAL SOCIETY, New York City.
 1 Axolotl, 1 Alligator, 1 Chameleon, 2 Alligator tegus, 1 Yellow tegu, 6 Lizards, 6 Crested iguanas, 4 Turtles, 7 Snakes, 10 Rattlesnakes, 3 Copperheads, 1 Moccasin, 1 Boa, 4 Cobras, 2 Pythons, 2 South American rat snakes, 1 Hog-nose snake, 1 Green snake, 1 Yellow king snake, 1 Velvet tree snake, 1 Green-headed whip snake, 1 Boyle's king snake, 1 Red racer, 3 Wood snakes, 1 Emory's coluber, 1 Green mamba, 1 African puff adder.
- PEARSE, PROF. A. S., Durham, North Carolina.
 1 Salamander, North Carolina.
- PRATER, MISS OPAL, Gretna, Missouri.
 1 Snake; Missouri.
- RIPPIN, MRS. J. D., Briarcliff Manor, New York.
 1 Puffing adder; Briarcliff Manor, New York.
- RYAN, CLARENCE M., Alstead, New Hampshire.
 1 Red-bellied snake.
- SHIELDS, FRANCIS B., New York City.
 2 DeKay's snakes; Long Island.
- SHOEMAKER, E., Brooklyn, New York.
 5 Snakes; Fairfax County, Virginia.
- SMITH, DR. MALCOLM, London, England.
 2 Frogs; Southeastern Siam.
- STRAUSS MARKET, INC., New York City.
 1 Marine turtle.
- THOMSON, VICTOR, and CHARLES SEIDEL, New York City.
 2 Musk turtles, 1 Frog, 4 Wood turtles; West Nyack, New York.
- TOTTEN, MASTER THOMAS, Yonkers, New York.
 2 Toads; Woodlands Lake, New York.
- TREMPER, W. I., Nyack, New York.
 6 Snakes and 2 milk snake eggs; Nyack, New York.
- VERTEBRATE PALAEONTOLOGY, DEPARTMENT OF (TRANSFER)
 1 Toad skeleton; Hastings, New York.
- WEBER, JAY A., Leonia, New Jersey.
 1 Snapping turtle; 50 Salamanders; New Jersey.
 1 Snake, 67 Lizards, 5 Frogs; Cuba.

By EXCHANGE

- BARBOUR, DR. THOMAS, Cambridge, Massachusetts.
 5 Frogs; Du River and St. Paul's River, Liberia.
- DE COULON, PIERRE, PUERTO CORTÉS, Honduras.
 4 Snakes, 19 Lizards; Honduras.
- DE VILLIERS, DR. C. G. S., Stellenbosch, South Africa.
 2 Frogs; South Africa.
- DRS, MRS. ALICE, Berkeley, California.
 19 Salamanders; California.
- FRIERSON, L. S., Shreveport, Louisiana.
 53 Amphibians; 5 Reptiles; Louisiana.
- GEYER, HANS, Regensburg, Germany.
 7 Salamanders, 4 Frogs; Europe.
 10 Salamanders; Spain. 3
 Salamanders; Corsica. 12
 Salamanders; Roumania. 13
 Frogs; Sardinia.
- HALLINAN, THOMAS, Paterson, New Jersey.
 187 Frogs, 86 Salamanders, 17 Snakes, 17 Lizards; Japan.
- KLAUBER, L. M., San Diego, California.
 20 Salamanders; California.
- LAFRENTZ, DR. KARL, Mexico City, Mexico.
 2 Tiger salamanders; Mexico.
- SLEVIN, JOSEPH R., California Academy of Sciences, San Francisco, California.
 7 Salamanders; San Francisco, California.
- THURSTON, HENRY, New York City.
 68 Salamanders; 1 Cluster of salamander eggs; New York.

By PURCHASE

- 73 Salamanders, 5 dozen Salamander eggs; Imboden, Arkansas.

- 54 Frogs, 14 Toads, 36 *Siren* and *Pseudobranchius*; Florida.
 2 Chameleons, 2 Lizards, 2 Frogs; London, England.
 6 dozen Tadpoles; New Jersey.
 13 Axolotls; Colorado.
 26 Salamanders; Tennessee.
 7 Lizards; Spain.

By EXPEDITION

ANONYMOUS.

- 3 Lizards, 1 Frog.

CENTRAL ASIATIC EXPEDITIONS (CLIFFORD H. POPE).

- 5,520 Amphibians and 2,250 reptiles; China.

DEPARTMENTAL FIELD WORK.

MISSOURI EXPEDITION (DR. G. KINGSLEY NOBLE).

- 179 Preserved salamanders, 1,000 Living salamanders, 26 Frogs, 22 Tadpoles, 3 Bunches of eggs, 13 Lizards, 18 Snakes; Ozarks, Missouri.

KENTUCKY-NORTH CAROLINA EXPEDITION (CLIFFORD H. POPE).

- 4 Snakes, 641 Salamanders; Kentucky and North Carolina.

PENNSYLVANIA EXPEDITION (WILLIAM G. HASSLER).

- 401 Salamanders, 11 Snakes, 1 Egg cluster; Meadville, Pa.

LOCAL FIELD WORK (DR. G. K. NOBLE, W. G. HASSLER).

- 40 Salamanders, 26 Frogs; Long Island. 1 Garter snake, Westchester Co., N. Y. 112 Salamanders, 1 Frog, 2 Turtles; Millburn, New Jersey. 6 Salamanders, 1 Cluster of Salamander eggs; Willow, New York.

LEE GARNETT DAY RORAIMA EXPEDITION (G. H. H. TATE, T. DONALD CARTER).

- 29 Lizards, 6 Snakes, 1 Turtle.
 10 Toads and frogs; Brazil.

RUWENZORI-KIVU EXPEDITION (DR.
J. P. CHAPIN, DEW. L. SAGE,
F. P. MATHEWS).

427 Frogs, toads, tadpoles, 215 Lizards, 13 Snakes, 4 Turtles, 1 Crocodile skin; Africa.

THOMSON, ALBERT.

1 Lizard, 5 Lizard eggs; Sioux County, Western Nebraska.

WHITNEY SOUTH SEA EXPEDITION (R. H. BECK, J. G. CORREIA).

83 Lizards, 39 Snakes, 1 Crocodile skull, 1 Crocodile skin; Santa Cruz, Utupua, and Solomon Islands.

ORNITHOLOGY

BY GIFT

ABBOTT, JOHN, Ridgewood, New Jersey.

1 Wood duck; Saddle River, New Jersey.

ACKLAND, MYRON, Monticello, New York.

1 Nuthatch, 2 Old squaws.

ADAMS, C. T., Sound Beach, Conn.

3 Ivory-billed woodpeckers, 1 Sandhill crane, 1 King rail.

ALEXANDER, W. B., Croydon, England.

2 Broad-billed dove-petrels; West Australia.

ALLEN, CHAS. E., Pasadao, Argentina.

1 Heron (*Syrigma sibilatrix*).

AMERICAN GEOGRAPHICAL SOCIETY OF NEW YORK.

1 Mounted penguin.

ATKINS, J. W., Key West, Florida.

1 Rail (*Creciscus jamaicensis*).

BARROS, RAFAEL, Los Andes, Chile.

4 Bird skins from Chile.

BARTELS, HENRY, New York City.

1 Denham's bustard, 1 Rosa cockatoo, 2 European goldfinches, 1 Bluewinged love-

bird; 2 Halfmoon parakeets, 1 Parrot.

BLAAUW, F. E., Hilversum, Holland.

6 Emperor geese, 4 African Black ducks, 6 Trumpeter swans, 2 Black-necked swans; bred in Holland.

BLATT, MRS. S., New York City.

1 Mounted great horned owl.

BOWDISH, B. S.

1 Asiatic barbet, 1 Parakeet, 1 East Indian crowned partridge, 1 Eclectus parrot.

BROMWALL, MISS LAURA B., Far Rockaway, New York.

1 Sapsucker.

CALDWELL, CAPT. KEITH, Nairobi, Kenya Colony, Africa.

2 Bustard skins.

CARTER, T. DONALD, New York City.

1 Sparrow, 1 Chickadee.

CONNOLLY, BENJAMIN, New York City.

1 Canary.

CROSBY, MAUNSELL, Rhinebeck, New York.

2 Bronzed grackles.

DALLETT, MR. and MRS. FRED A., New York City.

1 White-fronted goose.

DE RAMIREZ, MISS AMELIA, Puerto Cabello, Venezuela.

3 Eggs of Tinamus.

EAGAN, JOHN, New York City.

1 Sandpiper.

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

1 Cuban black finch, 1 Nyasa love-bird, 1 Hyacinth macaw, 1 Parrot.

GRISCOM, LUDLOW, New York City.

1 Hudsonian curlew, 1 Piping plover, 1 Grey-cheeked thrush, 1 Warbler, 1 Sandpiper, and 1 Grouse, 1 Sparrow, 2 Flycatchers, 1 Junco.

- HARRISON, MANUEL, New York City.
Several African love-birds, 2 Black-headed love-birds.
- HOFFMAN, THEODORE, New York City.
1 Sapsucker.
- HOWELL, W. HUNTING, Glen Head, Long Island, N. Y.
1 Brunnich murre.
- JACK, MRS. C. B., New York City.
2 Mounted ruffed grouse.
- JAMES, HENRY, Islip, Long Island, New York.
1 Goshawk.
- JAQUES, FRANCIS, New York City.
2 Prairie hens.
- JOSEPH, ELLIS S., New York City.
2 Brazilian cardinals, 1 Coscoroba, 1 Cassowary, 3 Sarus cranes, 2 Eagles, 1 Hawk, 1 Lory, 2 Ostriches, 1 Parakeet, 2 Parrots, 1 African gray parrot, 1 Monk parrot, 1 Partridge, 1 Argus pheasant, 1 Polyborus, 1 Wood rail, 1 Crested screamer, 1 Roseate spoonbill, 2 Storks, 1 Maguari stork, 1 Maribu stork, 1 Spotted tinamou, and 50 Small birds.
- KLEIN, A., British East Africa.
99 Bird skins.
- KLOTS, A. B., Ithaca, New York.
1 Ruffed grouse, 1 Downy woodpecker.
- LARER, MISS MARIE, New York City.
1 Ring-necked pheasant.
- MACKAY, CLARENCE H., New York City.
2 Ring-necked pheasants.
- MATHEWS, F. P.
100 Bird skins from Santo Domingo and Haiti.
- METCALF, JESSE, New York City.
12 Bird skins from Canary Islands.
- MEYER, E. J., Angola.
1 Secretary bird.
- MOTTRAW, FRANK, Newark, New Jersey.
1 Herring gull.
- MÜLLER, R. O., New York City.
Head of Kittiwake.
- NEW YORK AQUARIUM, New York City.
1 Shearwater, 1 Auk, 2 Gannets.
- NEW YORK STATE CONSERVATION DEPARTMENT, New York City.
1 European woodcock, 4 Thrushes from Norway.
- NEW YORK ZOOLOGICAL SOCIETY, New York City.
1 Pearl spotted barbet, 1 Bittern, 1 Booby, 1 Cassowary, 1 Brush chat, 1 Cockatoo, 2 Cranes, 1 Crowned crane, 1 Siberian crane, 1 Abyssinian crow, 1 Cuckoo dove, 2 Ground doves, 1 Mexican dove, 2 Eagles, 1 Sea eagle, 1 Emu chick, 1 Pygmy falcon, 1 Finch, 1 Cereopsis goose, 2 Guans, 1 Pacific gull, 1 Silver gull, 1 Hawfinch, 1 Hemipode, 1 African tiger heron, 1 Black-capped night heron, 1 Ecuador jay, 1 African lapwing, 2 Lovebirds, 1 South African great horned owl, 3 Parakeets, 3 Parrots, 1 Parrot (*Amazona guildingi*), 1 Crowned partridge, 2 Humboldt's penguins, 2 Impeyan pheasants, 2 Manchurian pheasants, 3 Pigeons, 1 Crowned pigeon, 1 Fruit pigeon, 1 Raven, 1 Sheldrake, 1 Siskin, 3 Starlings, 1 Stork, 1 Trumpeter swan, 1 Thrush, 1 Tit-babbler, 1 Cuban Trogon, 1 Turaco, 1 Vulture, 1 Warbler.
- NICHOLS, J. T., New York City.
1 Ruffed grouse.
- NOEL, CAPT. JOHN, New York City.
28 Birds' eggs.

- ODENWALD BIRD COMPANY, New York City.
 2 Lories, 1 Parakeet, 2 Blue-headed quail doves.
- PENHALE, CLAYTON, New York City.
 1 Scaup duck (albinistic).
- PUTNAM, DAVID BINNEY, New York City.
 1 Young Blue Goose from Baffin Island.
- RICHARDS, MRS. F. L., New York City.
 1 American coot.
- ROBERTSON, H. S., Bay Head, Long Island, N. Y.
 1 Brown thrasher.
- ROGERS, MRS. H. H., New York City.
 1 Mounted snowy owl.
- RUHE, LOUIS, New York City.
 2 Babblers, 1 Barbet, 2 Black-birds, 2 Bulbul, 1 Bunting, 2 Crested gray cardinals, 2 Cockatoo, 2 Cross-bills, 2 Doves, 2 Blue-headed quail doves, 1 Grey-headed quail dove, 1 Finch, 1 Hilltit, 1 Hornbill, 1 Jay-thrush, 4 Lories, 9 Love-birds, 2 Ostriches (*Struthio camelus*), 2 Hanging parakeets, 7 Parrots, 1 African parrot, 2 Redbreasts, 1 Japanese robin, 1 Indian roller, 1 Skylark, 3 Java sparrows, 1 Sparrow, 2 Starlings, 1 Tanager, 1 Cuban trogon, 2 Turacos, 10 Waxbills, 16 Weaver birds, and 100 small birds.
- SANFORD, DR. L. C., New York City.
 150 Bird skins, collected by W. W. Brown in Mexico.
- SHEARSON, EDWARD, New York City.
 2 Capercaillies.
- SHIELDS, FRANK, New York City.
 2 Long-eared owls.
- SUMNER, MRS. GRAHAM, Englewood, New Jersey.
 1 Swan, 1 Tree-duck.
- TOWNSEND, DR. C. H., New York City.
 1 Anhinga.
- URNER, CHARLES, Elizabeth, New Jersey.
 1 Glaucous gull.
- VOSS, MRS. JOHN H., New York City.
 30 Mounted birds.
- WALKER, LOUIS J., Douglaston, Long Island.
 1 Barn owl.
- WANAMAKER, JOHN, New York City.
 1 Wonga Wonga pigeon.
- WASHINGTON, MISS LOUISE, Brooklyn, New York.
 1 Parakeet, 1 Lory, 1 Bird of paradise.
- WATSON, F. E., New York City.
 1 Semipalmated sandpiper, 1 Razor-billed auk.
- WEBER, JAY A., New York City.
 2 Sora rails, 1 Lesser yellow-legs.
- WEIKEL, ELWOOD T.
 1 Booted trumpeter pigeon, mounted. (Placed in Darwin Hall.)
- WOOD, FRANK, New Bedford, Mass.
 1 Fish hawk from Cape Verde Islands.

BY EXCHANGE

- BRITISH MUSEUM (NATURAL HISTORY), London, England.
 64 Bird skins.
- CARNEGIE MUSEUM, Pittsburgh, Pa.
 313 Bird skins from French Guiana.
- DICKEY, DONALD R., Pasadena, California.
 1 Wren (*Salpinctes guttatus guttatus*).

MUSEUM OF COMPARATIVE ZOOLOGY,
Cambridge, Mass.

Three-toed woodpecker (*Tiga everetti*).

1 Palm cockatoo (*Probosciger aterrimus*).

1 Hawaiian *Ciridops*, 1 Hornbill
from Narcondam Island.

ROYAL MUSEUM OF STOCKHOLM,
Stockholm, Sweden.

6 Bird skins, Old World birds.

SUDAN GOVERNMENT MUSEUM,
Khartum, Sudan.

205 Bird skins from Sudan.

U. S. NATIONAL MUSEUM, Wash-
ington, D. C.

1 Cuckoo-shrike, 1 Bulbul, 1
Hornbill.

ZOOLOGICAL MUSEUM OF TRING,
Herts, England.

128 Bird skins, all Old World.

BY PURCHASE

CORREIA, JOSÉ G.

5 Skins of shearwaters.

OLALLA Y HIJOS.

1,998 Bird skins from northeastern
Peru and Ecuador.

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

29 Bird skins, all Old World.

BY EXPEDITION

BENSON, REX R.

415 Bird-skins from Panama.

CENTRAL ASIATIC EXPEDITIONS
(WALTER GRANGER AND F. T.
METCALF).

52 Bird skins from Yunnan.

63 Bird skins from Fukien.

EASTMAN - POMEROY - AKELEY
EXPEDITION.

39 Bird skins from East Africa
and the Belgian Congo.

GRISCOM-CROSBY EXPEDITION to
EASTERN PANAMA.

500 Bird skins.

LEE GARNETT DAY RORAIMA EXPE-
DITION (G. H. H. TATE and T.
DONALD CARTER).

400 Birds skins and alcoholics from
Brazil.

PUTNAM BAFFIN ISLAND EXPEDI-
TION (H. C. RAVEN).

105 Bird skins.

RUWENZORI-KIVU EXPEDITION (DR.
J. P. CHAPIN, D. L. SAGE AND
F. P. MATHEWS).

2,692 Bird skins from Africa.

TAYLOR SUDAN EXPEDITION (H. E.
ANTHONY).

461 Bird skins from Africa.

WHITNEY SOUTH SEA EXPEDITION
(R. H. BECK).

4,360 Bird skins, 6 Tins of alcohol-
ics, Nests, Eggs; from New
Hebrides and Solomon Islands.

MAMMALOGY

BY GIFT

AMERICAN GEOGRAPHICAL SOCIETY
OF NEW YORK.

1 Walrus skull, 1 Narwhal skull
and 1 tusk, 1 Caribou skull, 1
Pair of muskox horns.

BAUER, FRED, New York City.

1 Japanese spaniel, male; Prize
in New York Dog Show for
five years in succession.

BIANCE, MRS. GERTRUDE, New York
City.

1 Persian cat.

BISSEY, H. W., Point Pleasant,
New Jersey.

Humerus of blue whale; Barne-
gat Inlet, New Jersey.

BOSCO, T. L., Jersey City, New
Jersey.

1 Common Dolphin (*Delphinus
delphis*); New Jersey.

BOWDISH, B. S. Demarest, New
Jersey.

2 Short-tailed shrews (*Blarina b.
brevicanda*); New Jersey.

- BUBU, JAMES H., Rochester, New York.
 1 Jumping mouse (*Zapus hudsonius*); Rochester, New York.
- CANADIAN GOVERNMENT, Ottawa, Canada. (Through Prof. Wm. Rowan).
 Skin and skeleton of adult male wood bison.
- DRUMMOND, DR. I. Wyman, New York City.
 1 Belgian sheep dog, Ghent; Montreal, Canada.
- GEISLER, M., Bird Company, New York City.
 1 Sun bear.
- GOODWIN, GEORGE G., New York City.
 8 Cave rats, 7 small mammals; West Point, New York.
- HASSLER, W. G., New York City.
 1 Grey squirrel; New York City.
- JOSEPH, ELLIS S., New York City.
 2 Binturong, 1 Blesbok, 1 Patagonian cavy, 1 Panda, 1 Puma.
- MCINTOSH, WARD, New York City.
 1 Small monkey.
- MARIA, BROTHER NICÉFORO, Colombia, South America.
 13 Small mammals, skins and skulls; South America.
- METCALF, JESSE, New York City.
 Skins and skeletons of 3 Mediterranean seals.
- MILLER, W. DEW., New York City.
 1 New York weasel; Collier's Mills, New Jersey.
- MINIONE, MRS. MILDRED, New York City.
 Hoary bat (*Nycteris cinerea*); New York City.
- MORDEN, WM. J., Chicago, Illinois.
 1 Antelope; Wyoming.
- MURPHY, DR. ROBERT C., New York City.
 15 Gray squirrels; New York.
- NEW YORK ZOOLOGICAL SOCIETY.
 1 Tailed agouti, 1 sable antelope, 2 armadillos, 1 galada baboon, 1 badger, 1 brown bat, 1 black bear, 1 polar bear cub, 1 American bison, 1 bison calf, 1 camel, 1 cebus, 2 cheeta, 1 coati, 3 ferrets, 1 swift fox, 1 young red fox, 1 genet, 1 gerbille, 1 young giraffe, 1 red river hog, 1 wart hog, 1 kangaroo, 1 lynx, 1 Canadian lynx, 1 Indian martin, 1 mink, 2 monkeys, 1 langur monkey, 1 mouflon, 1 opossum, 1 murine opossum, 1 aoudad, 1 paradoxure, 1 puma, 1 rat, 1 skunk, 1 suricata, 2 tahr, 1 tiger, 1 South American wild dog, 1 albino woodchuck, 1 zebra.
- OBRIEN, MASTER THEODORE, New York City.
 1 Gray squirrel, Central Park.
- OTTO, COMMANDER E. F., City Island, New York.
 1 Black fish (*Globicephalus*); Orchard Beach, New York.
- PARKS, DEPARTMENT OF, New York City.
 1 Leopard, 1 Wallaroo.
- POWELL, WALDO, Fairy Cave, Missouri.
 1 Bat; Fairy Cave, Missouri.
- POWERS, DR. LILLIAN D., New York City.
 1 Squirrel (*Sciurus adolphei dorsalis*); Central America.
- PULITZER, RALPH, New York City.
 1 Black rhinoceros skull; Tanganyika, Africa.
- PYNE, MEREDITH, New York City.
 Skin and horns of black rhinoceros; Kenya Colony, East Africa.
- RICHARDS, MRS. WILLIAM A., Huntington, Long Island.
 1 Thoroughbred bulldog, male; \$50 towards cost of mounting.

SIEGEL, WM. New York City.

1 Piece of whalebone of bowhead whale; Arctic Ocean, Pacific Side.

STRAUSS MARKET, New York City.

1 Porpoise (*Tursiops truncatus*).

STURGIS, WILLIAM, Merrick, Long Island, New York.

Commercial skin of female mountain buffalo.

TRABUE, W. H., Jacksonville, Florida.

1 Fox squirrel (*Sciurus niger niger*); Florida.

WELLS, CARVETH, New York City.

4 Lemmings; Stavanger, Norway.

WHITE, G. B., Weehawken, New Jersey.

1 Pair ox jaws; New York City.

WHITEHOUSE, NORMAN DE R., Irvington-on-Hudson, New York.

100 Mounted heads and horns (33 of which were presented by the Museum to the New York Zoological Society).

WYHE, E. A. G., JR., NEW YORK City.

1 Albino grey squirrel; North Carolina.

YOUNG, THOMAS, New York City.

1 Bulldog, "Hefty Fearless."

BY EXCHANGE

MARIA, BROTHER NICÉFORO, Bogota, Colombia.

3 Small rodents, 10 small mammals, 1 South American gray fox, 4 South American mammals; Colombia.

BY PURCHASE

ANTHONY, A. W.

470 Mammals; Guatemala.

CALLEWAERT, REV. R., Luluabourg, Belgian Congo.

120 Mammals.

DE LAPORTE, C. R., Nelspruit, Transvaal, South Africa.

16 Mammals.

KAEMPFFER, DR. EMIL.

5 Mammal skulls; Brazil.

6 South American mammals; Brazil.

MOGENSEN, JUAN.

75 Small mammals; Argentina.

OLALLA Y HIJOS.

911 Mammals; Peru.

ROIGNEAU, MISS M., New York City.

20 Small mammals; Westchester Co., N. Y.

SULZER, WILLIAM, New York City.

1 Sea otter skin.

TEESDALE, F. W., Perth, West Australia.

8 Marsupials, West Australia.

WARD, ROWLAND, London, England.

Skin and skull of Capybara; Miriliba, Brazil.

BY EXPEDITION

CENTRAL ASIATIC EXPEDITIONS (Walter Granger).

128 Mammals; Yunnan Province, China.

EASTMAN-POMEROY-AKELEY EAST AFRICAN EXPEDITION.

108 Mammals; Kenya Colony and Tanganyika, Africa.

FAUNTHORPE-VERNAY EXPEDITION.

3 Indian wild dogs, 1 Indian deer, 1 four-horned antelope, 2 leopard cubs, 2 boars, 1 black buck.

FRICK CANADIAN EXPEDITION (Mr. George G. Goodwin).

350 Mammals; Casapedia River, Quebec, Canada.

HEILNER, VAN CAMPEN.

4 Alaskan brown bears; 2 caribou and 3 red squirrel skins. Alaska.

- LEE GARNET DAY RORAIMA EXPEDITION (Mr. G. H. H. Tate and Mr. T. Donald Carter).
 145 Mammals sent in from field; Brazil.
- MORDEN-CLARK ASIATIC EXPEDITION.
 40 Mammals.
- NOBLE, DR. G. K.
 27 Bats; Southwest Missouri.
- PUTNAM BAFFIN ISLAND EXPEDITION.
 24 Arctic mammals; Baffin Island.
- RUWENZORI-KIVU EXPEDITION (Dr. J. P. Chapin, DeW. L. Sage and F. P. Mathews)
 375 Mammals; Africa.
- SARAWAK MUSEUM, Borneo.
 4 Skins of Proboscis monkey (*Nasalis larvatus*), old male, adult male, old female, young female; Kuching, Borneo.
- TAYLOR SUDAN EXPEDITION (Mr. H. E. Anthony).
 194 Mammals; Sudan, Africa.
- THOMSON, ALBERT, New York City.
 1 Common ox skeleton; Nebraska.
- WHITNEY SOUTH SEA EXPEDITION.
 13 Fruit bats.
- GREEN, REV. GEORGE A.
Phoca vitulina (part of skull).
 JOSEPH, ELLIS S., New York City.
 1 *Auchenia glama*; South America, 1 cheetah, 1 chimpanzee, 1 duiker buck, *Elephas*, urogenital system, brain and spinal cord, 1 genet, 2 hamadryas baboons, Africa, 2 langurs (*Pygathrix cristatus*), Sumatra; 1 Leopard tortoise, 1 Thylogale, 2 tigers, Indo-China; 1 tortoise, 1 wallaby, Australia; 1 drill.
- KELLOGG, DR. REMINGTON, Washington, D. C.
Tursiops truncatus, stomach and intestines; Hatteras Island, New York.
- MCGREGOR, PROF. J. H., New York City.
Mesohippus, brain cast.
- NEW YORK ZOOLOGICAL SOCIETY, New York City.
 1 Aoudad, 1 armadillo; South America; 1 gelada baboon, Africa; 1 badger, United States; 1 beaver, United States; 1 cebus; 1 coatimundi; 1 *Cynopithecus niger*, Celebes; 1 white-tailed deer; 1 wild dog; South America; head of an eland; 1 ferret; 1 red fox, local; 1 gannet, St. Lawrence River; 1 silver gibbon; 1 white-handed gibbon; 1 langur, Sumatra; 1 lemur, Madagascar; 1 slow loris; 2 macaques, Java; 1 moor macaque, Celebes; 1 mangabey, 2 sooty mangabeys; West Africa; 3 marmosets, South America; 1 colobus monkey; 3 green monkeys, Africa; 1 grivet monkey, India; 1 guenon monkey; 1 owl monkey; 2 saki monkeys; 1 squirrel monkey; 1 red-brown mongoose lemur, Madagascar; 1 white-fronted musk ox skull, Ellesmere

COMPARATIVE AND HUMAN ANATOMY

BY GIFT

- BROOKS, J. E., Glen Ridge, New Jersey.
 1 Opossum; Morris Co., New Jersey.
- BURRELL, HARRY, Sydney, Australia.
 2 Rabbit skulls; Australia.
- CULBERTSON, A. J. O., New York City.
 About 200 feet motion picture positive, "Horsing the Army," and somewhat less than 1,000 feet motion picture negative taken at Army Remount Station, showing horses in action.

Island; 1 opossum; 1 peccary, Europe; 1 brown pelican, California; 1 serval; 1 sapajou, South America; 2 white-faced sapajous; 1 white-throated sapajou; 1 trumpeter swan; 1 Tasmanian devil; 1 tegu, 1 tortoise, South America; 1 ring-tailed wallaby; 2 woodchucks, Eastern United States; 1 spider monkey; 1 mongoose lemur.

TATE, GEO. H. H., New York City.
1 Cat.

TAYLOR, NORMAN, New York City.
Woolly monkey (*Lagothrix*);
South Brazil.

THOMSON, ALBERT, New York City.
Horse skull; Nebraska.

BY EXCHANGE

UNITED STATES NATIONAL MUSEUM,
Washington, D. C.
Phalanger ursinus, skin and skull;
Celebes, Dutch East Indies.

BY PURCHASE

MERFIELD, F. G., Ysunde, West
Africa.
Skeleton of chimpanzee; West
Africa.
PHILIPS, H. E., Philadelphia, Pa.
Foot of horse with double hoof,
dried in the flesh.

ANTHROPOLOGY

BY GIFT

ACKIS, IVY W., Waterlily, North
Carolina.
Arrow smoother.
ADAMSON, THELMA, New York
City.
17 Songs, from Northwest Coast,
North America (recorded on
records provided by the
Museum).

ADGER, W. GORDON, Shreveport,
Louisiana.

Pair of sandals, found in cliff
dwelling in Marble Canyon, Col-
orado River.

AMERICAN GEOGRAPHICAL SOCIETY,
New York.

Ethnological collection; Asia.

ANONYMOUS.

3 Bows; 1 carved club; 1 twisted
stick; 16 arrows. Locality un-
known.

ARENDHOLZ, FRANK G., New York
City.

3 Arrowheads; Naugatuck, Conn.

BENCE, M. A., New York City.

1 Skull; 1 pottery vessel; Peru.

BOLTON, REGINALD P., New York
City.

116 Archaeological specimens; Vir-
ginia.

BURRITT, LANCE, New York City.

Rice planter's suit, hat and cape;
Philippine Islands.

CALHOUN, DR. CHARLES, Ruther-
ford, New Jersey.

1 Carved stone cup; lower salt
region, Arizona.

CHRISTMAN, CHARLES G., New
York City.

Potsherds; Keams Canyon, Ari-
zona.

CLEMENTS, MRS. GEORGE HENRY,
New York City.

1 Lamp; Fiji.

CONNOLLY, MAURICE E., Long
Island, New York.

3 Skeletons; 1 fragmentary skull,
Long Island.

DE BELLARD, DR. E. P., New York
City.

13 Archaeological specimens from
Venezuela.

EHRET, DR. WILLIAM F., New
York City.

Samples of bone, metal and pot-
tery; 185th St., New York City.

- FOWLER, MISS MARIE K., New York City.
Collection of 60 South American silver objects.
- GONZALES, MANUEL, Porto Rico.
1 Clay head; Porto Rico.
- GRINNELL, GEORGE BIRD, New York City.
Collection of Plains Indians specimens.
- GUGGENHEIM BROTHERS, New York City.
Ethnological collection; Mentawai Island, Indonesia.
- HAY, CLARENCE L., New York City.
Woman's dress; Merida, Yucatan.
- HERZOG, GEORGE, New York City.
Songs from Southwestern United States (recorded on records provided by the Museum).
- HILL, MRS. E. LOGAN, Douglaston, Long Island.
Ethnological collection of 111 specimens; South Seas.
- HOLSTEIN, MAJOR OTTO, Trujillo, Peru.
Slag from Chan Chan ruin; Peru.
- HOWLAND, MRS. ABBY R., New York City.
Feather Cape; Pacific Islands.
- HUNT, ROBERT A., New York City.
3 Garments; Abyssinia.
- HYDE, B. T. B., and McDONALD, L. L., New York City.
Collection of ground stone and chipped implements; Arkansas.
- JACOBS, MELVILLE, New York City.
40 Songs, from the Northwest Coast, North America (recorded on records provided by the Museum).
- KAHN, DR. MORTON C., New York City.
Ethnological collection of 93 specimens; Dutch Guiana.
- KING, A. J., New York City.
Skeletal material—7 skulls; 4 lower jaws; odd bones.
- LANGHE, ALGOT, Pará, Brazil.
3 Baskets.
- LAWTON, MRS. JAMES, Paramirabo, Dutch Guiana.
Arawakan woman's beaded apron; Dutch Guiana.
- LEDERER, WILLIAM, New York City.
Mortar of hornblende schist; Purchase, New York.
- LEWCOCK, HAROLD N., New York City.
Etched stone; near Jerome, Arizona.
- LIONBERGER, MRS. JOHN H., Omaha, Nebraska.
Decorated elk robe from Wyoming.
- MC CREERY, ARTHUR, East Hampton, Long Island.
1 Broken skull; Three Mile Harbor, Long Island.
- MILLS, DR. J. M., New York City.
Ethnological collection, photographs; Southern Greenland.
- MORA, MISS OLIVE, New York City.
1 metate; Mexico.
- MUNNICH, A. O., Port Simon, Costa Rica.
2 Stone hammers from Santa Marta, Colombia.
- NYLER, JOHN A., New York City.
Shawl pin; Ecuador.
- OLBRECHTS, FRANZ.
2 Baskets; Cherokee, North America.
- OLNEY, MRS. G. A., New York City.
1 Lamp of steatite; Winchester, England.
- ORNITHOLOGY, DEPARTMENT OF, MUSEUM.
6 Crania and other human bones, and artifacts; Solomon Islands.
- OSBORN, MRS. HENRY FAIRFIELD, New York City.
1 Pair moccasins; 1 pair leggings; Plains and Eastern Woodlands, North America.

- PARAMOUNT FAMOUS PLAYERS
LASKY CORPORATION, New York
City.
Serpent head from Temple of
Quetzalcoatl; Teotihuacan, Mex-
ico.
- PARSONS, DR. ELSIE C., Harrison,
New York.
5 Prayer sticks; Pueblo, South-
western United States.
- PIX, MISS ALICE J., New York City.
4 Pottery vessels; South America.
- PRATT, GEORGE D., New York City.
Ethnological collection; Java.
- REINS, MRS. W. S., Asbury Park,
New Jersey.
1 Buffalo tooth necklace from
Sitting Bull's reservation; Fort
Yates, Dakota.
- RICE, DR. PHILIP, New York City.
Model of Hawaiian outrigger
canoe; Hawaii.
- ROBINSON, C. B., JR., New York
City.
Archæological collection of 10
specimens; North America.
- SMITH, MRS. GERRIT, Nyack, New
York.
Stone axe; Michigan.
- SMITH, MRS. HERMA RUPÈ, Peak's
Island, Maine.
Tlingit basket, Haida hat; North-
west Coast, North America.
- SMOLLECK, HOWARD, New York
City.
Local archæological collection,
mostly hammerstones and rough
stones.
- STAIGHT, MRS. E. W., St. George.
Staten Island.
Native costume; Philippine
Islands.
- STECKLER, PETER, New York City.
1 Carved cocoanut shell; Philip-
pine Islands.
- STEFANOULO, NICOLAS, Panama City,
Panama.
1 Mummy found in Arica, Chile.
- STILLWELL, DR. JOHN E., New
York City.
13 Specimens of spears and shields;
mostly Africa.
- STRONG, DR. S. M., Flushing, New
York.
Gourd found with mummy; Tula-
rosa Mts., New Mexico.
- TAYLOR, IRVING K., New York City.
Collection of baskets; America
and Africa.
- WEBSTER, SAMUEL, New York City.
Deformed skull; Washington Ter-
ritory.
- WILSON, DR. G. L., St. Paul, Min-
nesota.
Saddle, Crow.
- WISSLER, DR. CLARK, New York
City.
Chipped implements, flakes, shells;
Australia.
- WOODWARD, MRS. GRAHAM, New
York City.
2 Necklaces of beads and teeth;
New Mexico.

By EXCHANGE

- GILL, W. H., Melbourne, Australia.
49 Chipped stone implements; 3
Meteorites; Australia.
- OTAGO UNIVERSITY MUSEUM, Dune-
din, New Zealand.
1 Bone club; New Zealand.
- UNIVERSITETS ETNOGRAFISKE MU-
SEUM, Oslo, Norway.
Ethnological collection from
Borneo (part of the Lumholtz
collection).

By PURCHASE

- BERLINER GESELLSCHAFT FÜR AN-
THROPOLOGIE, Berlin, Germany.
470 Photographic prints showing
various racial types.
- BRAZYNISKI, GREGOR, New York
City.
2 Anatomical models.

BUCKLEY, GRACE, Sharon, Conn.
Skull; lower jaw and some other bones; Sharon, Conn.

MOIR, J. REID.
30 Casts of flints from Ipswich region; England.

WARD, CHARLES H., Rochester, New York.
Skull and jaw of *Simia satyrus*; Sumatra.

BY EXPEDITION

BERNHEIMER, CHARLES L.
Archæological collection; South-western United States.

CENTRAL ASIATIC EXPEDITIONS (N. C. Nelson).

2 Cans of ethnological and archæological specimens; Yunnan Province, China.

MORRIS, EARL H.
2 Skeletons and other archæological material, Canyon del Muerto, Arizona.

SHAPIRO, DR. HARRY L.
Archæological and skeletal specimens; Southwestern United States.

PUBLIC EDUCATION

BY GIFT

AGÜERO, AUGUSTIN, Havana, Cuba,
30 Colored lantern slides of Cuba.

ANONYMOUS.

1 Canary.

BEACH, WILLIAM N., New York City.

2,700 feet motion picture positive, "The Alaskan Range."

BENDER, GEORGE F., New York City.
112 Birds.

BINGLER, MRS. CHAS., Jamaica, Long Island.

Collection of mounted birds and mammals.

BLAKE, G. G., De Funiak Springs, Florida.

1 Golden eagle.

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

1 Negative of tailless goldfish; 1 Negative of tailless pearl roach.

BRIGHAM, EDWARD M., Battle Creek, Michigan.

2 Colored slides.

BURCH, MEREDITH, Plainfield, New Jersey.

1 Wood turtle, Plainfield, New Jersey.

CARY, MELBERT B., JR., New York City.

8 Photographs of curious rocks near Minneapolis, Kansas.

CLIFTON, ELMER, Culver City, California.

10,000 feet motion picture positive of "Nanook."

COMPARATIVE ANATOMY, DEPARTMENT OF (Transfer).

200 feet motion picture positive, "Horsing the Army."

1,000 feet motion picture negative, "Horsing the Army."

CORTICELLI SILK COMPANY, New York City.

23 Colored and 36 plain slides on silk.

DEL MANZO, DR. M. C., New York City.

13 Photographs of the Japanese Exhibit at the Sesqui-centennial Exposition in Philadelphia, Pa.

EARL, MISS MAUD, New York City.

1 Mounted ringnecked pheasant.

ELLSWORTH, LINCOLN, New York City.

12 Reels of motion picture positive of the Amundsen-Ellsworth Polar Flight of 1925-1926.

ENGEL, PAUL, New York City.

3 Juncos.

FAR ROCKAWAY HIGH SCHOOL, New York City.

1 Scarlet tanager, 1 Black and white warbler.

- GRAY, PRENTISS N., New York City.
1 Capitol motion picture projector.
- HERMANN, MRS., New York City.
Several large mounted birds.
- HORN, MISS MARY A., Arverne,
New York.
1 Robin, 1 hermit thrush, 1 black-
burnian warbler, 1 scarlet tana-
ger, 1 Maryland warbler, 1 oven
bird.
- JOSEPH, ELLIS S., New York City.
4 Java sparrows.
- KENNECOTT COPPER CORPORATION,
New York City (C. T. Ulrich).
10 Reels motion picture positive
"Story of Copper."
- KLOTS, ALEX. B., Ithaca, New York.
1 Gray squirrel skin, 1 mole skin,
3 mouse skins, 1 cedar waxwing
skin.
- NESBIT, WILLIAM, New York City.
3,004 Slides, 2 flashlight outfits,
complete.
- NEW YORK ZOOLOGICAL SOCIETY,
New York City.
1 Raccoon, 1 bald eagle.
- ORNITHOLOGY, DEPARTMENT OF
(Transfer).
1 American goldfinch, 1 mute
swan.
- OVERTON, DR. FRANK, Patchogue,
Long Island.
50 feet motion picture positive and
50 feet motion picture negative
of Horseshoe crabs.
- PRATT, GEORGE D., New York City.
2 Sets of 3 reels on "Medieval
Moderns," 1 set of 3 reels on
"An Unknown Race," 4 wooden
carvings of Lapps, 4-reel film,
"With Inka Lanta in Arctic Lap-
land," 2-reel film, "Life His-
tory of the Bumble Bee," 4
reels motion picture, "The
Mountain People," 863 feet mo-
tion picture reduced positive,
"Adirondack Deer," 390 feet
motion picture negative of the
manufacture of pottery by the
Indians of the Southwest.
- PRATT, MRS. GLADYS L., Clinton,
Connecticut.
1 Quail.
- PRUDENTIAL INSURANCE COMPANY,
Newark, N. J.
(Through Mr. Arthur Fisk.)
38 Colored slides on Health Habits.
- PUBLIC SCHOOL 61, The Bronx, New
York City.
1 Pigeon, 1 hermit thrush.
- RAND, AL, Ithaca, New York.
3 Rabbit skins, 2 red squirrel
skins, 1 mole skin.
- ROBERTS, MISS, Jamaica, Long Is-
land.
1 Shore bird.
- ROCKWELL, ROBERT H., Yonkers,
New York.
78 Negatives of Africa, 1 print of
Africa.
- RUHE, LOUIS, New York City.
1 Cockatoo, 1 dove, 3 love birds,
2 parakeets, 4 Java sparrows, 1
thrush, 40 weaver birds.
- SAXL, DR. JOSEPH, New York City.
Nest of a bird from Java, 2 cigars
of Betel nut leaves used by na-
tives of Burma.
- SCHOMBERG, BERTRAM, New York
City.
1 Plaster cast of the Mastodon.
- SHERWOOD, GEO. H., New York City.
1 Hermit thrush.
- SOCIETY FOR THE PREVENTION OF
CRUELTY TO ANIMALS (Mrs. H.
Clay Preston), New York City.
95 Colored slides, 4 plain slides.
- THEODORE ROOSEVELT HIGH SCHOOL,
New York City.
1 Barred owl, 1 starling, 1 hermit
thrush.
- THOMSON, H. V., New York City.
2 Wood turtles, West Nyack,
N. Y.
- WOOD, FRANK, New Bedford, Mass.
1 Glass negative of whaling ship.

BY EXCHANGE

WILLIAM, PRINCE OF SWEDEN.

- 1 Reel motion picture positive, cuts
of African subjects.

BY PURCHASE

POTTER, RAYMOND B., New York
City.

- 26 Local birds.

BY EXPEDITION

FISHER, DR. CLYDE, AND SETON,
ERNEST THOMPSON.

- 4 Reels motion picture negative,
"Camping among the Indians."

MEDITERRANEAN EXPEDITION (MR.
PHILIP H. PRATT).

- 6,500 Feet motion picture negative,
and 3,000 still negatives of the
Mediterranean countries, 200
feet reduced positive of Ver-
sailles.

WOODS AND FORESTRY

BY GIFT

SCOTT, J. JAMES, New York City.
Fragment of oak ceiling from
Westminster Hall, London,
showing damage by worms,
ceiling put up in 1397 by Rich-
ard II.

WYSOR, D. C., Monarat, Virginia.
Section of trunk of rhododendron
about 18 inches long and $4\frac{1}{2}$
inches by 6 inches in diameter,
of interest because of unusual
size.

ART

BY GIFT

THORNE, S. BRINCKERHOFF, New
York City.

- 1 Framed oil painting, "Lion and
Lioness," by Jan van Essen,
1887.

III. ADMINISTRATION, OPERATION AND BUILDING

GEORGE H. SHERWOOD, *Director*

In a program which had as its main object the completion of unfinished work throughout the Museum, it is to be expected that great demands must be made on the construction and operating departments. Too frequently the fact is overlooked that the appointment of a new staff member or a scientific assistant, or an artist, or a preparator, necessarily adds to the amount of service required of the operating departments. The year 1927 was no exception to this rule. Throughout the year there has been great activity in these departments, in order to carry forward the plans for installation, exhibition, and research in which the various scientific departments have been engaged. In order to meet the obligations imposed upon the Museum by the appropriations allowed by the City for case construction and equipment, it has been necessary to temporarily increase our mechanical force to cope with the work on hand. All of this has placed an added burden upon the Bursar's office, because of the payroll records and adjustments that must be made, and because of the increase in the number of requisitions for materials and supplies. These demands upon our service departments have been met with faithfulness and efficiency on the part of the entire personnel, and credit is rightfully due to the members of the various departments for the effective way in which they have carried on. While much remains to be done, we can point with pride to the results achieved.

Just as an increase in the scientific force makes new demands upon our service departments, so the increase in the attendance by the public makes similar demands.

Every year the Museum is becoming better known, and is being sought by greater numbers. This is especially true in respect to the education activities of the Museum. The extent to which the institution appeals to the public of all classes and the index of its rapid growth is the following summary of statistics, showing the numbers reached by the Museum through its many activities.

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

	1923	1924	1925	1926	1927
Board of Education Lectures	18,917	26,484	26,968	10,460	10,914
Lectures to School Children and classes visiting the Museum for Study.....	134,669	139,433	133,386	138,514	145,304
Meetings of Scientific Societies and Other Meetings and Lectures	31,734	22,637	37,389	34,976	47,680
Total	185,320	188,554	197,743	183,950	203,898
Attendance in Exhibition Halls	1,246,402	1,445,289	1,578,147	1,886,315	2,088,978
Total attendance for all Purposes	1,431,722	1,633,843	1,775,890	2,070,265	2,292,876
Lectures to Pupils in Local Centers	22,598	24,792	27,055	33,255	20,421
Number reached by Motion Picture Service	85,302	115,849	333,097	530,955	1,123,704
Number reached by Lantern Slide Service	3,839,283	5,407,525	3,941,494	4,358,423	6,866,112
Numbers reached by Circula- ting Collections	1,491,021	1,247,914	977,384	798,382	1,679,589
Grand Total	6,869,926	8,429,923	7,054,920	7,791,280	11,982,702

CONSTRUCTION AND MAINTENANCE IN 1927

At the beginning of the year, in order to relieve the Director of many administrative details, Mr. Wayne M. Faunce was promoted from Assistant Secretary to Assistant to the Director and Assistant Secretary, and was appointed Chairman of the Committee on Operation, Construction and Transportation. He brought to bear on the problems of this office a broad training in mechanical, electrical and civil engineering, which is of great value in helping to solve the complex questions of construction and building, many of which are quite specialized in an institution of this kind. The Director desires to express his appreciation of the great assistance that Mr. Faunce has rendered in this new position, for to him the Director has intrusted in very large measure the direction of the work of the mechanical departments.

The Director takes pleasure in presenting the following extract from Mr. Faunce's report as Chairman of the Operation, Construction and Transportation Committee:

"In accordance with the policy laid down by the Director early in the year, it has been our program to finish as many as possible of the projects already begun rather than start new ones, in order to open to the public those halls which have been disrupted for some time. To this end, the efforts of the Engineering, Construction and Electrical forces were concentrated on the new Southeast Wing, with

**General
Construction**

the result that on March 9 the public was admitted to the great Hall of Dinosaurs on the fourth floor. The opening of the Hall of Reptiles on the third floor of this wing on June 14 was the second progress mark in this direction.

"The equipping of the School Service Building has gone forward speedily, so that the formal dedication of this great educational plant, fully completed, is expected to take place in January, 1928. The Bickmore Memorial Corridor, principal approach to the School Service Building, was finished during the summer. Funds from an appropriation by the City of New York provided for the construction of a beautiful speaker's platform in Botticino marble in Education Hall on the first floor of this wing. On the platform, its impressiveness greatly enhanced by the superb architecture of the platform, will stand the memorial to William H. Maxwell, first Superintendent of Schools of Greater New York. Wrap-checking rooms for classes have been provided in the basement of the School Service Building. To afford the maximum seating capacity in the Duplex Assembly Halls, two extra-room motion picture booths have been erected and are now in use. Arrangements have been made to hang the official emblems of all the colleges, training schools and high schools of New York City in Education Hall. Thermostatically controlled heat has been installed in the fireproof film storage vaults on the fifth floor of this building.

"In the old Sections of the building also, gratifying progress has been made in this 'clean-up' schedule. The enclosure of the habitat primate groups, third floor, South Center Section, has been finished as far as group material on hand will permit and the corridor opened to visitors. The adjoining hall of Habitat Groups of Birds of North America has been opened in part. The groups on the east side have been fireproofed and those on the west side are now receiving similar attention. Comfortable built-in benches have been provided for visitors in this hall. Twelve small portable benches have been added to the many in other parts of the building, further to combat museum fatigue.

"Six large habitat cases have been constructed for the Hall of Habitat Groups of Birds of the World on the second floor, Central Section. One of these groups, the Barro Colorado or Panama Bird Group, has been completed and was opened to the public on December 8.

“Perhaps the most important work undertaken by our mechanical force during 1927 is the elimination of fire hazards. Subsequent to an inspection of the building by a committee of the Administrative Staff, the Trustees engaged an expert fire inspector, Mr. Earl W. Harrington, to make an exhaustive survey of conditions in the Museum and recommend means of further safeguarding our priceless collections. In general Mr. Harrington reported conditions satisfactory, and the Trustees have made an initial appropriation to carry out his recommendations as far as they are practicable from the Museum operating standpoint.

“Our new incinerator was put in operation the latter part of the year and is proving very satisfactory. The accumulation of inflammable rubbish waiting to be carted away is a thing of the past. The Superintendent of Buildings makes a weekly inspection of the building to check up on the condition of fire-fighting equipment and to make sure that all fire doors are in proper working order. Following each of these inspections he submits in written form a report of all infractions of fire regulations. Our employees have evinced a splendid cooperative spirit in these matters and we believe that all possible is being done to guard against fire in this building.

“An energetic accident-prevention campaign was instituted the latter part of the year. In a meeting of foremen of mechanical departments and in departmental meetings, measures to make the Museum a safer place in which to work were discussed. As a result many safety devices have been added to our mechanical equipment; lighting conditions in obscure passageways, etc., have been improved, and the workers in all departments are giving the fullest cooperation to the reduction of the number of accidents and in reporting injuries for proper treatment.

“In an institution like this Museum, employing some 500 workers, a large proportion of which are engaged in manual operations, there are bound to be many minor injuries during the course of a year. To properly care for such injuries and to render first treatment to employees and visitors who become ill in the Museum, there has been established and equipped a thoroughly modern First Aid Room on the ground floor near the auditorium. A trained nurse is on call throughout the working day to care for emergency cases.

"Good progress has been made in the new Fish Hall and the Hall of Ocean Life. It is expected that the former will be completed early in the spring of 1928 and that it will be possible to open the Oceanic Hall in part at the same time. Although the Asiatic Hall is still urgently needed for preparation space, construction of the habitat group cases therein has begun. Awaiting the completion of these cases, it is planned to make a temporary exhibit of the superb new Asiatic mammal mounts on the third floor, Central Section of the old building.

"The removal of the Department of Public Education to the School Service Building has released valuable space in the third floor north, which has been turned over to the Department of Preparation.

Under a City contract, the doming-over of the North Asiatic Hall is in progress. In this hall are to be installed habitat groups of north Asiatic mammals with the *Ovis Poli* Group as the key exhibit directly beneath the dome, representing a boreal sky.

"During the year the members of the Operation, Construction and Transportation Committee have given much attention to the future building plans of the Museum. Accurate 1/32 scale composite plans are in process of preparation by our architects, Trowbridge and Livingston, for each floor of the Museum, showing existing and projected buildings. Much study has been given to the plans for the proposed new African Hall and to the Power and Service Section. Since application has already been made to the City of New York for the erection of these two sections, it is expected that they will be the next additions to our building. The plans and specifications for the Roosevelt Memorial section, to be erected by the State of New York, have been submitted to the Museum for study, and in conference with the architect, John Russell Pope, modifications have been suggested which will simplify the service which the Museum may be called upon to render.

"A committee of the Administrative Staff has made a detailed study of plans for the Museum restaurant. For some time we have felt that the physical arrangement of the restaurant and the method of its operation were not all that could be desired, and the small patronage which the

**Future
Building
Plans****New
Restaurant**

restaurant received was significant evidence that our opinion was well founded. Consequently, it is expected that in accordance with the recommendations of the Restaurant Committee, a trained and experienced dietician-manager will be engaged temporarily to give expert study to the problems and advise us as to the type of restaurant which will best serve our employees and visitors.

"In an effort to procure colorless plate glass desired by President Osborn for our exhibition cases, the Operation, Construction and Transportation Committee has devoted to the subject considerable study, some of it little short of research, and has determined that for a price of about 50% in excess of that of domestic glass, a very clear product of foreign manufacture can be obtained.

"Memorializing the work of great American naturalists, four marble tablets have been placed at two doorway openings from Memorial Hall. They designate the busts in the niches of this hall, which is the main entrance hall of the Museum. Two additional tablets at the entrance to the North Pacific Hall bear tribute to those who made possible the collection and exhibition of the specimens in this hall. Two cases in the North Pacific Hall have been rebuilt and provided with intra-case illumination. The new Taylor mural at the end of this hall has also been provided with illumination. Marble trim for the new sales booth has arrived. Several new electrically illuminated signs for the first floor corridors have been installed, a new departure in Museum hall labeling.

"As usual a tremendous amount of general maintenance work has been handled by our always inadequate maintenance force. In the summer it became necessary to replace the two lower rows of tubes in all the boilers of our power plant. The entire call-bell system of the Museum was modernized during the year and carried into the new School Service Building. The entire time of one so-called "handy man" has been taken up with minor repairs, such as window shades, sash cords, etc. The general lighting system in the Fish Hall and Library was changed over to indirect illumination. The Library, administrative offices, membership office and visitors' room were repainted. The new *Natural History* editorial office on the second floor was completely renovated. To provide book transportation between the Library and its stack-rooms in the attic, a dumb-waiter was installed. Modern automatic electric controls have been installed on some of our shop equipment.

"Such a varied problem is a particularly trying one for those in charge who lay out and schedule work. With customary dispatch and efficiency, Mr. Beers, Chief of Construction, and Mr. Langham, Chief Engineer, have pushed forward the work in their respective departments. Mr. Foulke, Superintendent of Buildings, handicapped as he is by lack of a sufficient number of men to properly care for the building, has given prompt and cheerful attention to our internal administration problems. The hearty cooperation of these staff members is a prime factor in the gratifying success of our construction and maintenance program."

SERVICES OF THE REGISTRAR

Another of the administrative departments of the Museum which require service of high character is that of the Registrar. This department is responsible for the recording of all accessions, of supervising all incoming and outgoing shipments, of attending to all matters pertaining to the entry through the customs of goods intended for the Museum. The direction of this work has been in the hands of Mr. George N. Pindar, who has again rendered effective service to the Museum. In addition to discharging these duties, Mr. Pindar has also continued as Secretary of the Pension Board and the Welfare Committee, and as Chairman of the Public Information Committee. Some of the activities of this department are presented in the following extracts from his report to the Director:

"The close of the year witnesses continued interest of the public in the expansion of the Museum's collections to an extent heretofore unsurpassed—not alone in quantity but in quality.

"Twenty-one centuries ago, Cato said, 'The best way to keep good acts in memory is to refresh them with new,' and the year 1927 would indicate that the spirit of this adage has been observed by hundreds of people interested in the progress of the Museum to the extent that our acquisitions have exceeded those of any preceding year. Residents of this city, this state, other states and other countries have responded most magnanimously to the Museum's need for support of its educational activities by placing in our hands an unusual number of many desired collections and individual specimens to round out the present abundance in our exhibition halls, and in those reserved for future exhibits in the needed halls now planned for erection.

"The 32 expeditions financed almost entirely without Museum aid, except the lending of its name, have brought back for our use material from all sections of the world. During the **Accessions** past year 920 accessions were recorded in this office, divided as follows: By gift, 713; by purchase, 82; by exchange, 65; by expedition, 44; by transfer, 16. All these individual accretions are collated in another part of this report and special mention of their importance to the departments to which they are particularly pertinent will be found in those individual reports.

"In this division of our departmental work, it has been possible to carry on, without undue delay, although an increase in the personnel is desired to properly take care of the packing **Shipments** of shipments. It should not be required of workers in scientific departments, because of lack of workers in this department, to be compelled to prepare shipments. This work should be concentrated in the hands of trained packers. It is particularly recommended that more storage room be made available and that a secure and separate room be set aside for the storage of bonded goods.

"Our records show that, during the year, 13,360 pieces were handled in our shipping room, these being exclusive of all material handled by post. To take care of this volume of business it was necessary to box in this department, 311 shipments, consisting of 384 boxes and packages, and in addition fifty-three bonded shipments were handled, involving 269 boxes. Together with the total number of pieces received through the shipping room, large numbers of animals in the flesh were handled, the total of which is not made a part of this report, but is mentioned by the several departments to which they were delivered. This portion of the department's work necessitated that the delivery truck cover 4,374 miles, making 585 stops during the year. It is a pleasure to report and commend the faithfulness and efficiency of the workers in this division. They have performed their tasks without regard to stated working hours, whenever urgency of delivery demanded, and they have handled this volume of business most satisfactorily.

"The work of the Registrar's Department is not by any means confined to a mere report of the volume of work covered by accessions and shipments. The receipt of all this material is only the beginning of what has to be done. The cataloging and recording

of accessions, the acknowledging and invoicing involve great detail and care and have been most splendidly taken care of by the Misses Newman and Graefe whose painstaking work is most heartily commended. A report of the publicity work, the Pension Fund, including health and welfare activities, are other items of work supervised by this department but which are separately reported."

SERVICES OF THE BURSAR

While the work of the Bursar's office is shown in the report of the Treasurer, the Report of the Director would be incomplete if he did not make reference to the effective work of our Bursar, Frederick H. Smyth, whose service has extended far beyond the technical requirements of his office. His efficiency, his careful watchfulness of all financial matters, his knowledge of Museum problems, his effectiveness in carrying on his work, and particularly his special service in presenting Museum needs to the City authorities, have been of great value to the institution.

The Director further desires to make recognition of the careful consideration which the City departments have given to the Museum's recommendations, and especially for the many courtesies received from officials of the City departments.

In concluding his report, the Director takes pleasure in stating that the Trustees have recognized the high character of the work of our administrative officers, and the demands made upon their energies, by granting them substantial increases in salary and by extending their annual vacation period from one to two months. For this consideration, our administrative officers are most grateful, and are encouraged to continue their whole-hearted service to the institution.

IV. FINANCIAL ADMINISTRATION

JAMES H. PERKINS, Treasurer

The Endowment is the most vital factor in the growth and development of the American Museum, because it is to the Endowment that we must look as the chief source of permanent income. For this reason, the Treasurer and the Finance Committee have been giving special attention to our existing endowment funds, with a view to keeping them invested in securities that will yield the maximum income, without impairing the capital of the funds. At the same time, the Trustees are giving attention to increasing the Endowment, as additional Endowment of \$7,800,000 is needed to provide for present operating expenses and normal growth of the Museum.

Status of Endowment The Permanent Endowment Fund of the Museum now amounts to a book value of \$12,161,452.52, which is invested as follows:

Railroad Bonds	\$8,925,091.38	
Industrial Bonds	825,651.25	
Public Utility Bonds.....	1,938,396.51	
Other Securities	472,313.38	\$12,161,452.52
		<hr/>
Uninvested Cash		1,096.68
		<hr/>
Total		<u>\$12,162,549.20</u>

The annual income from Endowment funds is \$579,185.34, and shows a direct yield of .0476.

The principal items of new capital added to the Endowment during 1927 have been received from the following sources:

Wood Fosdick, payment on account as residuary legatee.....	\$390,519.69
Frances Julia Cook, payment of bequest.....	20,000.00
Ralph Winfred Tower Memorial Fund, payments by Trustees and friends	8,480.00
Henry Fairfield Osborn, gift.....	5,000.00
Edward C. Moore, Jr., gift.....	5,000.00
J. N. Hill, gift.....	5,000.00
S. A. Goldschmidt, gift.....	1,000.00
Solomon A. Fatman, payment of bequest.....	1,000.00
Mary E. Harrington, payment of bequest.....	500.00
Henry Mayer, payment of bequest.....	500.00

The Finance Committee sold securities of a book value of \$676,535.88 for \$693,036.57, which increased the capital of our Endowment Fund \$16,500.69. With the proceeds of these sales added to the cash balance on hand at the beginning of the year and new Endowment Funds, the Committee purchased securities to the value of \$1,018,621.77. By these transactions the Endowment Fund has been increased \$431,500.38, and the Committee considers the investments equally secure.

The following bequests are in process of settlement. The Trustees are deeply appreciative of these contributions to its permanent funds.

Wood Fosdick Bequest. The American Museum is a residuary legatee under the will of Wood Fosdick, late of Cincinnati, Ohio. The value of this bequest is now estimated at more than \$1,070,000.

Anna M. Harkness Bequest. Under the will of Anna M. Harkness the Museum is a beneficiary to the extent of \$1,000,000. Mrs. Harkness was a member of the Museum from January 15, 1916, to March 27, 1926.

Caroline B. Sellew Bequest. The will of Caroline B. Sellew names the American Museum equally with ten other public institutions as beneficiary in the residuary estate.

Joseph E. Roelker Bequest. In his will Joseph E. Roelker provided that on the death of a near relative the Museum shall receive a legacy of \$1,000.

Robert Jaffray Bequest. Subject to the life interest of the widow, the Museum has a one-tenth interest in the estate of Robert Jaffray. The value of the remainder is as yet unascertained. Mr. Jaffray was a member from October 20, 1900, to the time of his death.

Charles M. Jesup Trust Fund. Under the will of Morris K. Jesup, the Museum will ultimately receive a fund of \$300,000, which was set aside as a trust fund for the benefit of Charles M. Jesup, who received the income during his lifetime. The will further provided that, in the event of the death of Mr. Charles M. Jesup before that of his wife, the widow was to receive during

her lifetime \$10,000 annually from the income of this trust fund. The balance of the income is to be paid to the Museum.

It is with much pleasure that we record our appreciation of the splendid advice so generously given by Messrs. Arthur M. Anderson, Francis D. Bartow and Harold Stanley, who have served as Advisers to the Finance Committee. By their counsel, investments have been made which have increased our income and also placed the securities on the same high grade as in the past.

Previous reports have covered in detail the various methods of the Museum in recording in separate accounts its various funds, but in order that new friends may be informed, we will briefly review the methods now in use.

As it is considered important to have all transactions relating to the funds received from the City of New York kept separate from other accounts, we record these in the *City Maintenance Account*. Likewise, that the Trustees' unrestricted funds may be shown, these are recorded in the *General Account*. As our late President, Mr. Morris K. Jesup, expressly stated in his will that the income from his bequest be used for scientific purposes only, and in no case for maintenance, an account is kept of this fund known as the *Morris K. Jesup Fund Account*. Similarly, the splendid, and in many cases unsolicited, gifts made for specific purposes, are shown in our *Special Funds Account*.

The *Trustees' Building Fund* is expended for special building work.

From appropriations made by the City of New York for case and equipment construction, the Museum records the sums paid to mechanics in the *Corporate Stock Account*.

The *Incidental Account* shows transactions for societies and individuals, for whom the Museum acts as agent.

The latter two accounts are not included in receipts or disbursements in any tabulation of combined accounts in this report.

As income from endowment, gifts of Trustees and friends, and many other items of receipts are applicable to all accounts, and the distribution of our operating departments is shown in all accounts, we are giving a concise statement of receipts and disbursements for 1927, as follows:

Receipts

City of New York for Maintenance.....\$410,121.29

Trustees' Funds:

Balance January 1, 1927..... 187,390.26
 Income from Endowment Funds.....\$581,645.61
 Contributions of Trustees 108,264.26
 Contributions of Members and Friends..... 182,950.17
 Membership Fees 70,036.00
 Sale of Publications and Exchanges..... 15,023.01
 Sales of Bonds (Trustees' Building Fund). 20,223.59
 Interest on Credit Balances..... 6,832.31
 Contributions of Foundations 20,000.00

Total Income, Trustees' Funds, 1927..... 1,004,974.95

Total income, all sources.....\$1,602,486.50

Disbursements (Operating Costs)**Scientific and Research:**

Geology and Invertebrate Palæontology... \$14,894.80
 Mineralogy 7,807.80
 Mammalogy 46,762.91
 Central Asiatic Exploration and Research... 31,916.14
 Ornithology 64,017.90
 Vertebrate Palæontology 48,989.53
 The President's Science and Research Fund 7,002.75
 Comparative Anatomy 14,043.36
 Anthropology 53,178.95
 Ichthyology 22,627.98
 Herpetology 15,177.27
 Lower Invertebrates 16,177.34
 Entomology 16,948.98
 Library 29,623.13

\$389,168.84

Printing, Books and Publications:

Library \$11,037.88
 Publications 34,838.85
 Central Asiatic Exploration and Research
 Publications 13,245.26
 Printing 46,239.33
 General Supplies and Expenses..... 9,568.92

\$114,930.24

Preparation and Exhibition:

Preparation and Exhibition\$153,814.98
 Vertebrate Palæontology 37,159.10

\$190,974.08

Educational, Public School Work:

Public Education \$85,553.38

Carried Forward\$780,626.54 \$1,602,486.50

Brought Forward	\$780,626.54	\$1,602,486.50
Administration and Operation:		
Administration	\$234,546.84	
General Supplies and Expenses.....	65,970.35	
Heating and Lighting	104,418.38	
Repairs and Installation	104,613.98	
Pension Fund and Group Life Insurance..	31,422.81	
Interest on Bank Loans.....	6,584.52	
	<u>\$547,556.88</u>	
Financial Administration:		
Administration	\$58,141.20	
General Supplies and Expenses.....	12,145.29	
	<u>\$70,286.49</u>	
Total		<u>\$1,398,469.91</u>
Balance December 31, 1927.....		<u><u>\$204,016.59</u></u>

As it may interest the many readers of this report to note the rapid growth of the Museum during the past twenty-five years, we show the receipts from a few of the major items for 1902 to 1927 in five-year periods:

Income from Endowment					
1902	1907	1912	1917	1922	1927
\$20,980.00	\$48,977.50	\$109,983.92	\$327,641.00	\$475,350.58	\$581,645.61
Gifts: Trustees, Members and Friends					
\$56,149.42	\$65,687.91	\$125,119.25	\$74,729.13	\$153,462.54	\$291,214.43
Membership Fees					
\$12,750.00	\$17,200.00	\$25,265.00	\$32,084.00	\$43,235.00	\$70,036.00
Sale of Publications, and Exchanges					
\$1,534.86	\$1,743.38	\$3,714.58	\$5,309.57	\$10,311.99	\$15,023.01
City of New York					
\$160,000.00	\$160,000.00	\$195,000.00	\$212,700.00	\$344,498.77	\$410,121.29
Contributions of Foundations					
					\$20,000

Every year there is shown an increasing interest from our Trustees, Members and friends in promoting certain work in exploration, research, purchase of specimens, preparation of exhibits and scientific publication, and in watching the progress of this work to completion. In 1927 there were received 247 separate gifts, amounting to \$212,236.95, for these purposes.

The operating budget for each year is prepared in the previous December, and is approved by the Board of Trustees at that time, effective January 1. The expenses are always in excess of the regular receipts, and to maintain the Museum in its work it is necessary for the Trustees to guarantee in advance the amount estimated for the year. In 1927, the guarantee of Contributions of Trustees for General Purposes was \$76,250, which was subscribed, and the Director and the Bursar were empowered to operate the Museum within the approved budget. This was successfully accomplished, and on December 31, 1927, there was brought over \$4,752.10 cash, which was applied to the 1928 budget. This was done only by carefully watching the disbursements and by submitting monthly detailed financial statements against each budget item.

The Ralph Winfred Tower Memorial Fund, established by the Trustees in 1926, has been increased by new subscriptions, totaling \$8,480 in 1927, making the amount of this endowment on December 31, 1927, \$23,949.91. We desire to express our gratitude to the subscribers to this fund.

RALPH WINFRED TOWER MEMORIAL FUND

Baker, Geo. F., Jr.....	\$1,000.00
Berkey, Charles P.....	25.00
Boone, Iisley	200.00
Bullowa, Jesse G. M.....	5.00
Choate, Mrs. Caroline S.....	25.00
Dahlgren, Ulric	10.00
Davis, Gherardi	100.00
Dean, Bashford	100.00
Dwight, Jonathan	10.00
Emmons, G. T.....	5.00
Farrand, Livingston	25.00
Faunce, Wayne M.....	15.00
Frick, Childs	250.00
Gammell, William	100.00
Gay, Hazel	10.00
Hafner, Alfred	50.00
Hellman, Milo	10.00
Kunz, George F.....	10.00
Mackenzie, George M.....	10.00
Miller, W. DeW.....	5.00
Morgan, J. P.....	1,000.00
Morris, Mr. and Mrs. F. K.....	5.00
Naumburg, Mrs. Walter Wehle.....	25.00
Nichols, John Treadwell.....	25.00
Palmer, Charles S.....	50.00
Parker, G. H.....	5.00

Ramsey, Grace Fisher.....	25.00
Raven, H. C.....	10.00
Schwarz, Herbert F.....	30.00
Strauss, Israel.....	100.00
Tatlock, Mrs. John.....	100.00
Thorne, Samuel.....	50.00
Tower, Ellen M.....	25.00
Townsend, Charles H.....	25.00
Van Name, Willard G.....	15.00
Warburg, Felix M.....	5,000.00
Yerkes, Robert M.....	25.00
	<hr/>
	\$8,480.00
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The inadequacy of the current regular income to meet the operating expenses has made it necessary to appeal to our membership for financial support of special phases of the work. These include the maintenance of the *Central Asiatic Expeditions*, and the continuation of *Preparation, Exhibition and Education*. The response to these appeals has been generous, and we desire to express our appreciation of the assistance of our Members in this emergency, and to make acknowledgment of these contributions for 1927.

CENTRAL ASIATIC EXPEDITIONS FUND

American Museum of Natural History.....	\$5,000.00	Congdon, Walter B.....	50.00
Appleby, Mrs. John Storm....	25.00	Cooke, R. A.....	99.00
Baker, Carrie Ethel.....	5.00	Covell, Henry H.....	500.00
Baker, George F.....	5,000.00	Crabbe, Louise G.....	10.00
Barr, James H.....	100.00	Darwin, Major Leonard.....	23.95
Battle, George Gordon.....	10.00	DuBois, Ethel.....	20.00
Bernheim, Henry J.....	100.00	Eimer, August.....	25.00
Bernheimer, Mr. and Mrs. Charles L.....	500.00	Farr, Shirley.....	1,000.00
Biddle, William C.....	25.00	Francklyn, Mrs. Cyril.....	15.00
Blackmer, James L.....	100.00	Gammell, William.....	100.00
Boise, Charles Watson.....	100.00	Garrett, Hon. John W.....	100.00
Burton, Frank F.....	10.00	Goodwin, William B.....	50.00
Cannon, Gabriel.....	10.00	Gribbel, Mrs. John.....	25.00
Carpenter, C. L.....	50.00	Guiterman, P. L.....	5.00
Chapin, Cornelia Van A.....	20.00	Hale, P. C.....	100.00
Clauder, Rudolph.....	20.00	Halsey, Harold V. W.....	10.00
Coburn, Louise H.....	10.00	Harmon, William E.....	100.00
Cole, Harry N.....	1.00	Hegeman, Gerard C.....	100.00
Colgate, Henry A.....	200.00	Hodenpyl, Anton G.....	100.00
		Hoe, Mrs. Richard March.....	50.00
		Holden, Guerdon S.....	1,000.00

Holmes, Walter W.....	50.00	Ryerson, Mrs. Arthur.....	500.00
Howard, John K.....	10.00	Sachs, Paul J.....	25.00
James, Arthur Curtiss.....	1,000.00	Satterlee, Mrs. Herbert L.....	50.00
Kellogg, J. H.....	25.00	Schniewind, Ewald H.....	30.00
Kemey, Walter Schuyler....	50.00	Scholle, Howard A.....	10.00
Kinney, Warren	100.00	Sharpe, Henry D.....	100.00
Kirkham, Dr. William B.....	10.00	Sherman, Althea R.....	15.00
Krech, Dr. Shepard.....	25.00	Sherman, Corinne A.....	15.00
Kridel, Alexander H.....	20.00	Simpson, Jean Walker.....	25.00
Lamont, Thomas W.....	250.00	Smith, Harriet Otis.....	5.00
Landon, Francis G.....	50.00	Smith, W. Hinckle.....	25.00
Logan Museum, Beloit College.	1,000.00	Snell, Francis Arnold.....	15.00
Ludlum, Clarence A.....	25.00	Snyder, Harry	10.00
Lundquist, Miss G.....	10.00	Stone, Julius F.....	10,000.00
MacCurdy, Mrs. Winifred....	100.00	Straus, Mrs. Hugh Grant....	10.00
Mackay, Clarence H.....	500.00	Taber, Mary	25.00
Marsh, George E.....	3.00	Thompson, Mrs. J. Todhunter.	25.00
Masson, John G.....	5.00	Thompson, William Boyce....	100.00
Mayer, Dr. Leo.....	10.00	Thorne, S. B.....	10.00
McClintock, Gilbert S.....	200.00	Trimble, William Pitt.....	20.00
Morgan, J. P.....	7,500.00	Turnbull, Mrs. Sarah A.....	3.00
Morris, Dr. H. H.....	10.00	Wampler, F. C., and Sons, Inc.	37.50
Morris, Ira N.....	300.00	Weeks, Carl	10.00
Morris, Dr. Lewis R.....	500.00	Weigert, Hugo	10.00
Mosman, Philip A.....	10.00	Westervelt, Rev. William D...	10.00
Murphy, Thomas D.....	25.00	Wherry, William B.....	10.00
Newbold, Arthur E., Jr.....	500.00	Wightman, Henry Nicoll.....	3.00
O'Donel, C. M.....	5.00	Wilbur, James Benjamin.....	100.00
Paxson, Owen Shoemaker....	50.00	Willard, Frank C.....	5.00
Pratt, Mr. and Mrs. John T...	600.00	Williams, Mrs. Ellen D.....	10.00
Putnam, Helen C., M. D.....	25.00	Williams, William	100.00
Ramsperger, H. G.....	2.00	Wilson, Andrés M.....	10.00
Riegger, Arnold F.....	10.00	Wilton, Nellie M.....	5.00
Robinson, Mrs. C. L. F.....	10.00	Worcester, Wilfred J.....	20.00
Rockefeller, John D., Jr.....	7,500.00		
Rogers, Saul E	50.00		
Roy, James Bryant.....	10.00		
			<hr/>
			\$46,667.45
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EMERGENCY EXHIBITION AND EDUCATION FUND No. 1

Battle, George Gordon	\$100.00	Gould, Edwin	100.00
Blackmer, James L.....	100.00	Guggenheim, Murry	100.00
Boury, Louis J.....	100.00	Guggenheim, Simon	100.00
Brady, James C.....	100.00	Guggenheim, S. R.....	100.00
Carnegie, Louise W.....	100.00	Harkness, Edward S.....	100.00
Chapin, Charles M.....	100.00	Harriman, E. Roland.....	100.00
Davis, Gherardi	100.00	Lamont, Thomas W.....	100.00
Dean, Mrs. Bashford.....	100.00	Mallinckrodt, Edward, Jr.....	100.00

McMillan, Francis W.....	100.00	Simpson, Miss Jean Walker...	100.00
Newbold, Arthur E., Jr.....	100.00	Sulzberger, Arthur Hays.....	100.00
Nichols, Acosta	100.00	Thorne, Mrs. William V. S....	100.00
Nichols, William H.....	100.00	Tucker, Carl	100.00
Pierrepont, Anna J.....	100.00	Vanderbilt, Frederick W.....	100.00
Pratt, Harold I.....	400.00	Vanderbilt, William H.....	100.00
Riegger, Arnold F.....	25.00	Vanderbilt, William K.....	100.00
Savin, William M.....	100.00	Weber, Orlando F.....	100.00
Schieren, Charles A.....	100.00	Wehrhane, Henry H.....	100.00
Schiff, Mortimer L.....	100.00		
Schwarz, Emilie E.....	100.00		
Shearson, Edward	100.00		
			<u>\$3,925.00</u>

EMERGENCY EXHIBITION AND EDUCATION FUND No. 2

Anonymous Contribution	\$100.00	Pierson, D. H.....	10.00
Carpenter, C. L.....	50.00	Post, Abram S.....	25.00
Cheney, Paul H.....	25.00	Roberts, Mrs. William.....	5.00
Cleaver, Mrs. Albert N.....	10.00	Satchell, Geo. E. H.....	5.00
DeBary, A.	25.00	Sollmann, Ekko	50.00
Eckart, Edmund	10.00	Stanley, Mrs. D. S.....	5.00
Emerson, Mrs. Edward W....	25.00	Sternberg, Charles H.....	5.00
Fulton, William E.....	50.00	Strauss, Frederick	100.00
Higginson, Mrs. James J.....	200.00	Thompson, Mrs. J. Todhunter..	50.00
Hills, Mrs. George F.....	10.00	Thorne, S. B.....	25.00
Hodenpyl, Anton G.....	250.00	Uhl, Oswald W.....	500.00
Hubbard, Mrs. G. M.....	5.00	Vogel, Fred, Jr.....	10.00
Johnson, George B.....	10.00	Williams, Roger B.....	10.00
Kerr, R. C.....	50.00	Wood, Willis B.....	10.00
Lichtenberg, Samuel	5.00	Woodward, Lemuel Fox.....	5.00
Mann, Mrs. George Williamson.	30.00		
McLean, Mrs. James	2,000.00		
Merle-Smith, Mr. and Mrs.			<u>\$3,695.00</u>
Van Santvoord	25.00		

LOUIS AGASSIZ FUERTES FUND

Barbour, Thomas	\$500.00	Phillips, Dr. John C.....	100.00
Barnes, J. Sanford.....	100.00	Sage, Andrew G. C.....	500.00
Brewster, Frederick F.....	1,000.00	Sage, Dean	200.00
Case, George B.....	250.00	Sage, Henry M.....	1,000.00
Chapin, Charles M.....	50.00	Sage, Henry W.....	500.00
Ferguson, Harry L.....	100.00	Sanford, Sallie W.....	400.00
Ford, James B.....	500.00		
Kuser, Anthony R.... ..	500.00		
Murray, William S.....	100.00		
			<u>\$5,800.00</u>

CONTRIBUTIONS FOR GENERAL PURPOSES, 1927

Anonymous Contribution	\$10.00	Lawson, Orris G.....	1.00
Babcock, Albert	4.00	Luquer, Professor Lea McI.....	15.00
Chaffee, Henry S.....	2.00	Pyfer, Fred S.....	4.00
Darwin, Major Leonard.....	1.80	Sanford, Dr. Leonard C.....	9.68
Douglas, Mrs. Florence W.....	10.00	Slater, Mrs. William A.....	1.00
Dwight, Mrs. Edward Foote....	75.00	Stone, Ellen J.....	25.00
Fox, Austen G.....	10.00		
Harriman, Mrs. J. Low.....	44.00		<u>\$227.48</u>
Hull, Mrs. A. G.....	10.00		<u><u></u></u>
Hunter, Roland Jackson	5.00		

PERMANENT ENDOWMENT

***Contributors to the Permanent Endowment, 1884-1927:**

157

ENDOWMENT AND INVESTMENT ACCOUNT

Receipts, 1927

UNRESTRICTED FUNDS

General Endowment Fund:

Balance	\$8,987.47	
Sale of Bonds	11,761.05	
Edward C. Moore, Jr., Gift.....	5,000.00	
S. A. Goldschmidt Gift.....	1,000.00	
J. N. Hill Gift*.....	50.00	
Bequest of Mary E. Harrington.....	500.00	
Bequest of Solomon A. Fatman.....	1,000.00	
Bequest of Frances Julia Cook.....	20,000.00	
Bequest of Henry Mayer.....	500.00	
George F. Baker Fund: Balance.....	4.65	
Collis P. Huntington Fund: Balance.....	13.95	
John D. Rockefeller, Jr., Fund: Balance.....	98.44	

The Sage Fund:

Balance	\$50.67	
Sale of Bonds.....	71,162.00	71,212.67

Wood Fosdick Fund:

Balance	\$271,168.50	
Bequest of Wood Fosdick, on Account†	3,830.31	
Sale of Stocks.....	610,113.52	
Interest on Credit Balances..	1,040.23	886,152.56

Total General Endowment \$1,006,280.79

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

Osborn Palæontologic Research Fund:

Henry Fairfield Osborn.....	5,000.00
Physical Anthropology Fund: Balance.....	41.25
Jonathan Thorne Memorial Fund: Balance..	77.00

Ralph Winfred Tower Memorial Fund.

Balance	\$620.20	
Subscriptions‡	8,480.00	9,100.20

Total Special Endowment 14,477.89
Interest on Credit Balances..... 1,622.08

\$1,022,380.76

ENDOWMENT AND INVESTMENT ACCOUNT

Disbursements, 1927

UNRESTRICTED FUNDS

General Endowment Fund:

Purchase of Bonds.....	\$48,343.65
The Sage Fund: Purchase of Bonds.....	71,203.50

Wood Fosdick Fund:

Purchase of Bonds.....	\$885,107.88
Interest on Credit Balances	
(to General Account)...	1,040.23
	<u>886,148.11</u>

Total General Endowment..... \$1,005,695.26

RESTRICTED FUNDS

Special Endowment Funds:

Osborn Palæontologic Research Fund:

Purchase of Stocks.....	\$4,913.63
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Ralph Winfred Tower Memorial Fund:

Purchase of Bonds.....	9,053.11	13,966.74
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Interest on Credit Balances (to General Account).....	1,622.08
Cash on hand December 31, 1927.....	1,096.68

\$1,022,380.76

*Stock was received to the amount of \$4,950, on account of the Gift of J. N. Hill.

†Stock was received to the amount of \$346,689.38, on account of the bequest of Wood Fosdick.

‡See listing of subscriptions on pages 152 and 153 of this Report.

CITY MAINTENANCE ACCOUNT***Receipts, 1927****Capital Fund:**

Cash on hand January 1, 1927.....	\$15,000.00
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Department of Parks, City of New York, 1927:

Salaries, Regular Employees.....	\$352,026.29
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Expenses for Other Than Personal Service:

1. Fuel Supplies	\$19,057.00
2. Office Supplies	7,469.00
3. Laundry, Cleaning and Dis- infecting Supplies	2,310.00
4. Motor Vehicle Supplies...	1,347.00
5. General Plant Supplies....	3,465.00
6. Wearing Apparel	1,925.00
7. Office Equipment	770.00
8. General Plant Equipment.	924.00
9. General Plant Materials..	10,202.00
10. General Repairs and Re- placements	3,080.00
11. Telephone Service	1,771.00
12. Fixed Charges and Contri- butions	5,775.00

58,095.00

Total net receipts for the maintenance of all departments	410,121.29
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Interest on Credit Balances.....	459.82
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\$425,581.11

*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 1927, amounting to \$313,941.09, has been met from the Trustees' General Account.

CITY MAINTENANCE ACCOUNT**Disbursements, 1927****Administration and Operation:**

Administration	\$189,232.16	
General Supplies and Expenses...	21,580.72	
Heating and Lighting.....	67,401.99	
Repairs and Installation	39,739.06	\$317,953.93

Financial Administration:

Administration	25,218.84
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Scientific Research:

Geology and Invertebrate Palaeontology	\$1,415.78	
Mineralogy	2,268.69	
Mammalogy	3,700.00	
Ornithology	4,800.00	
Vertebrate Palaeontology	3,178.04	
Comparative Anatomy	550.00	
Anthropology	6,111.78	
Ichthyology	3,238.24	
Herpetology	1,939.31	
Lower Invertebrates	3,525.00	
Entomology	2,599.92	
Library	7,794.00	41,120.76

Printing Books and Publications:

Printing	5,537.55
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Preparation and Exhibition:

Preparation and Exhibition.....	1,972.11
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Educational—Public School Work:

Public Education	18,318.10
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Total net disbursements for the maintenance of all departments

\$410,121.29

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

459.82

Capital Fund:

Cash on hand December 31, 1927.....	15,000.00
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\$425,581.11

GENERAL ACCOUNT

Receipts, 1927

Cash on hand January 1, 1927.....		\$22,870.81
Income from General Endowment Fund.....	\$87,570.74	
Income from the Sage Fund.....	79,639.54	
Income from George F. Baker Fund.....	13,157.50	
Income from John D. Rockefeller, Jr., Fund.....	62,422.50	
Income from Collis P. Huntington Fund.....	2,495.00	
Income from Wood Fosdick Fund.....	42,535.30	
Interest on Credit Balances.....	6,229.70	
Fellows and Life Members.....	9,800.00	
Annual Members	45,740.00	
Sustaining Members	4,950.00	
Associate Members	9,546.00	
Sale of Publications.....	7,893.07	
Subscriptions to Natural History.....	2,908.80	
Sales and Exchanges.....	1,428.30	

Contributions of Trustees for General Purposes:

George F. Baker, Jr.....	\$10,000.00
Frederick F. Brewster.....	2,500.00
F. Trubee Davison	250.00
Chauncey J. Hamlin.....	500.00
O. G. Jennings.....	5,000.00
Ogden Mills	12,500.00
J. P. Morgan	25,000.00
Junius S. Morgan, Jr.....	1,000.00
Henry Fairfield Osborn.....	1,000.00
Percy R. Pyne.....	5,000.00
Felix M. Warburg.....	10,000.00

72,750.00

Contributions for General Purposes 1927:*..... 227.48

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)..... 8,320.00

Subscriptions for Emergency Preparation 1925:
Charlotte M. Andrews..... 10.00

477,623.93

Total net receipts for the development of all departments \$500,494.74

Contributions of Trustees for General Purposes for 1928:

Childs Frick 3,000.00

Contributions for General Purposes, 1928:

Adrian Iselin	\$500.00
Mr. and Mrs. T. W. Lamont.....	2,500.00

3,000.00

\$506,494.74

*See listing on page 156 of this Report.

GENERAL ACCOUNT

Disbursements, 1927

Administration and Operation:

Administration	\$45,314.68	
General Supplies and Expenses..	39,302.67	
Heating and Lighting.....	37,016.39	
Repairs and Installation.....	46,982.31	
Pension Fund	24,551.66	
Group Life Insurance.....	6,871.15	
Interest on Bank Loans.....	5,483.82	\$205,522.68

Financial Administration:

Administration	\$32,922.36	
General Supplies and Expenses...	12,145.29	45,067.65

Scientific and Research:

Geology	\$3,213.70	
Mineralogy	1,206.28	
Mammalogy	3,817.62	
Ornithology	8,866.59	
Vertebrate Palæontology	7,036.84	
Comparative Anatomy	2,423.24	
Anthropology	25,414.47	
Ichthyology	7,951.59	
Herpetology	4,610.34	
Lower Invertebrates	6,695.39	
Entomology	3,471.91	83,321.04
Library	8,613.07	

Printing, Books, and Publications:

Library	\$6,144.60	
Publications	20,928.88	
Printing	31,875.95	
General Supplies and Expenses...	9,568.92	68,518.35

Preparation and Exhibition:

Preparation and Exhibition	\$18,598.95	
Vertebrate Palæontology	3,554.26	22,153.21

Educational—Public School Work:

Public Education	59,024.36	
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Total net disbursements for the development of all departments

\$483,607.29

Balance December 31, 1927.....

*22,887.45

\$506,494.74

*Contributions of Trustees and Members for General Purposes for 1928 (paid in 1927).....

\$6,000.00

Orders and Contracts outstanding of 1927 Account.....

13,204.19

Cash available for 1928

3,683.26

\$22,887.45

MORRIS K. JESUP FUND ACCOUNT***Receipts, 1927**

Trustees' Restricted Funds:		
Cash on hand January 1, 1927.....		\$24,627.73
Income from Morris K. Jesup Fund.....	\$266,636.18	
Sale of Publications	1,889.32	
Sales and Exchanges	903.52	
Samos Field Fund:		
Reimbursement of field expenses 1921-1925..	5,000.00	
Interest on Credit Balances.....	519.30	
		<u>274,948.32</u>

Total net receipts for the development of all departments.. \$299,576.05

Disbursements, 1927

Administration and Operation:		
Interest on Bank Loans.....	\$1,100.70	
Scientific Research:		
Geology and Invertebrate Palæontology	\$9,556.31	
Mineralogy	3,746.21	
Mammalogy	12,400.48	
Central Asiatic Exploration and Research	16,432.96	
Ornithology	17,450.16	
Vertebrate Palæontology.....	18,377.92	
President Osborn's Science Fund..	7,002.75	
Comparative Anatomy	10,470.12	
Anthropology	19,985.91	
Ichthyology	9,261.19	
Herpetology	8,393.11	
Lower Invertebrates	5,956.95	
Entomology	10,367.86	
Library	12,125.91	161,527.84
Printing Books and Publications:		
Library	\$4,893.28	
Publications	11,625.34	
Printing	8,825.83	25,344.45
Preparation and Exhibition:		
Preparation and Exhibition.....	\$82,171.97	
Vertebrate Palæontology	18,377.74	100,549.71
Total net disbursements for the development of all departments		
		<u>\$288,522.70</u>
Cash on hand December 31, 1927†.....		11,053.35
		<u><u>\$299,576.05</u></u>

*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 1927 Account..... \$9,984.51
 Cash available for 1927..... 1,068.84
\$11,053.35

SPECIAL FUNDS ACCOUNT

Receipts and Disbursements, 1927

	Receipts	Disbursements	Balance Dec. 31, 1927
GEOLOGY			
Crockerland Expedition Fund:			
University of Illinois	\$625.00		
	\$625.00		\$625.00
Nevada Meteorite Fund:			
J. P. Morgan.....	709.01		
	\$709.01	\$709.01	
MINERALOGY			
Matilda W. Bruce Fund: Balance....	10.65		
Interest....	616.00		
	\$626.65	\$586.62	\$40.03
J. P. Morgan Fund—Mineralogy:			
Transferred from Reserve.....	1,700.00		
	\$1,700.00	\$1,700.00	
MAMMALOGY			
George S. Bowdoin Whale Model Fund:			
Balance	750.00		
	\$750.00		\$750.00
Lee Garnett Day Expedition Fund:			
Lee Garnett Day.....	\$3,333.00	\$3,333.00	
North American Mammal Fund:			
Childs Frick	300.00		
	\$300.00	\$300.00	
Putnam Baffin Island Expedition Fund:			
David Binney Putnam.....	2,000.00		
W. F. Kenny	2,500.00		
Gustavus D. Pope.....	2,500.00		
Dorothy Binney Putnam.....	2,500.00		
	\$9,500.00	\$9,500.00	
Taylor Sudan Expedition Fund:			
Irving K. Taylor.....	13,711.81		
	\$13,711.81	\$13,711.81	
CENTRAL ASIATIC EXPLORATION AND RESEARCH			
Central Asiatic Expeditions Fund:			
Balance 1926	2,310.08	2,310.08	
Balance 1927	9,126.96		
*Subscriptions	43,292.45	26,418.36	26,001.05
Balance 1928	1,045.00		
*Subscriptions 1928.....	3,375.00		4,420.00
Balance 1929.....	210.00		210.00
	\$59,359.49	\$28,728.44	\$30,631.05
Carried Forward.....	\$90,614.96	\$58,568.88	\$32,046.08

*See listing on pages 153 and 154 of this Report.

SPECIAL FUNDS ACCOUNT (Continued)

	Receipts	Disbursements	Balance Dec. 31, 1927
Brought Forward.....	\$90,614.96	\$58,568.88	\$32,046.08
ORNITHOLOGY			
Amazon Field Fund: Balance.....	\$505.20		
Mrs. Walter W. Naumburg.....	2,227.25		
	\$2,732.45	\$2,530.44	\$202.01
Louis Agassiz Fuertes Fund:			
*Subscriptions	5,800.00		
	\$5,800.00	\$5,800.00	
Hudson Bay Bird Fund: Balance.....	129.53		
	\$129.53	\$25.80	\$103.73
Gulf of Guinea Expedition Fund:			
S. B. Thorne	1,500.00		
	\$1,500.00		\$1,500.00
Panama Bird Fund:			
Maunsell S. Crosby.....	1,000.00		
Ludlow Griscom	1,990.27		
	\$2,990.27	\$2,990.27	
Ruwenzori-Kivu Expedition Fund:			
Balance	679.76		
Henry W. Sage.....	273.21		
	\$952.97	\$952.97	
Margaret Olivia Sage Fund: Balance....	682.21		
Interest....	427.88		
	\$1,110.09		\$1,110.09
Tropical Bird Group Fund: Balance....	1,761.85		
	\$1,761.85	\$1,761.85	
Whitney South Sea Expedition Fund:			
Balance	7,100.57		
H. P. Whitney	20,000.00		
	\$27,100.57	\$20,601.67	\$6,498.90
VERTEBRATE PALÆONTOLOGY			
Edward D. Cope Biography Fund:			
Balance	599.27		
	\$599.27	\$130.00	\$469.27
J. P. Morgan Fund—Vertebrate Palæontology:			
Transferred from Reserve.....	19,900.00		
	\$19,900.00	\$19,900.00	
Osborn Palæontologic Research Fund:			
Interest	31.50		
	\$31.50		\$31.50
Carried forward.....	\$155,223.46	\$113,261.88	\$41,961.58

*See listing on page 155 of this Report.

SPECIAL FUNDS ACCOUNT (Continued)

	Receipts	Disbursements	Balance Dec. 31, 1927
Brought Forward	\$155,223.46	\$113,261.88	\$41,961.58
American Pliocene Fund—Vertebrate Palæontology:			
Balance	\$6,524.46		
Anonymous	13,500.00		
	\$20,024.46	\$10,534.94	\$9,489.52
Siwalik Preparation Fund:			
Balance	3,810.28		
	\$3,810.28	\$2,259.33	\$1,550.95
Vertebrate Palæontology Fund:			
Mrs. Adelaide H. C. Frick.....	5,000.00		
	\$5,000.00		\$5,000.00
Western Field Fund:			
Balance	2,917.29		
Childs Frick	300.00		
	\$3,217.29	\$3,082.41	\$134.88

COMPARATIVE ANATOMY

Comparative Anatomy Fund:			
Balance	500.00		
E. H. Squibb.....	100.00		
	\$600.00	\$600.00	

ANTHROPOLOGY

Cañon del Muerto Fund:			
Balance	87.84		
Ogden Mills	2,500.00		
	\$2,587.84	\$1,203.03	\$1,384.81
Middle American Research Fund:			
Clarence L. Hay.....	1,000.00		
	\$1,000.00		\$1,000.00
Migrations Research Fund:			
National Research Council.....	\$300.00		
	\$300.00	\$300.00	
Panama Archaeological Fund:			
Clarence L. Hay.....	1,855.25		
	\$1,855.25	\$1,855.25	
Physical Anthropology Fund:			
Interest	521.14		
	\$521.14	\$147.20	\$373.94
Mrs. William Boyce Thompson Archaeological Expedition to the Lower Gila Fund:			
Balance	16.56		
	\$16.56	\$16.56	
Carried Forward	\$194,156.28	\$133,260.60	\$60,895.68

SPECIAL FUNDS ACCOUNT (Continued)

	Receipts	Disbursements	Balance Dec. 31, 1927
Brought Forward	\$194,156.28	\$133,260.60	\$60,895.68
ICHTHYOLOGY			
Cleveland H. Dodge Ichthyology Fund:			
Balance	353.17		
	\$353.17	\$280.00	\$73.17
Fish Bibliography Fund:			
Balance	1,103.36		
Bashford Dean	1,200.00		
	\$2,303.36	\$1,896.96	\$406.40
HERPETOLOGY			
Herpetological Research Fund:			
William Douglas Burden.....	2,000.00		
Camp Fire Club of America.....	250.00		
Colony Club	400.00		
Childs Frick	100.00		
National Geographic Society.....	400.00		
Frank S. Mathews	500.00		
Mrs. W. K. Vanderbilt.....	400.00		
	\$4,050.00	\$234.51	\$3,815.49
ENTOMOLOGY			
Entomological Fund:			
Balance	1,443.01		
	\$1,443.01	\$509.29	\$933.72
LIBRARY			
Anson W. Hard Library Fund:			
Interest	\$250.00		
	\$250.00	\$250.00	
Ralph Winfred Tower Memorial Fund:			
Balance	25.00		
Albert H. Crosby	100.00		
Interest	715.15		
	\$840.15	\$840.15	
PUBLICATIONS			
Anthropological Handbook Fund:			
Archer M. Huntington.....	5,000.00		
	\$5,000.00		\$5,000.00
Brewster-Sanford Publication Fund:			
Balance	427.62		
	\$427.62	\$146.53	\$281.09
Dryopithecus Publication Fund:			
Balance	120.21		
	\$120.21		\$120.21
Yakut Publication Fund:			
Felix M. Warburg.....	2,000.00		
	\$2,000.00		\$2,000.00
Carried Forward	\$210,943.80	\$137,418.04	\$73,525.76

SPECIAL FUNDS ACCOUNT (Continued)

	Receipts	Disbursements	Balance Dec. 31, 1927
Brought Forward	\$210,943.80	\$137,418.04	\$73,525.76
PUBLIC EDUCATION			
Astronomic Fund:			
Balance	3,065.38		
Charles J. Liebman.....	2,000.00		
	\$5,065.38	\$4,582.74	\$482.64
Education Fund:			
Childs Frick	1,750.00		
	\$1,750.00	\$750.00	\$1,000.00
Educational Picture Fund:			
Mrs. Marguerite Cook.....	25.00		
Mrs. Dorothy Whitney Elmhirst.....	500.00		
	\$525.00	\$525.00	
Nature Study Fund:			
Balance	30.04		
Helen M. Fox.....	100.00		
T. W. Lamont.....	100.00		
	\$230.04	\$181.48	\$48.56
Public Education Fund:			
Herbert Thorne King.....	\$20.00		
	\$20.00	\$20.00	
School Fund:			
Department of Education of the City of New York: 1926 Account.....	919.70		
	\$919.70	\$919.70	
Jonathan Thorne Memorial Fund:			
Interest	1,232.00		
	\$1,232.00	\$1,232.00	
PREPARATION AND EXHIBITION			
African Hall Group Fund:			
Balance	81,352.78		
Estate of Daniel B. Wentz.....	25,000.00		
Arthur S. Vernay.....	20,000.00		
	\$126,352.78	\$46,960.10	\$79,392.68
Fish Hall Preparation Fund:			
Keith Spalding	500.00		
	\$500.00	\$500.00	
Ocean Life Mural Fund:			
George T. Bowdoin	3,500.00		
	\$3,500.00		\$3,500.00
Special Preparation Fund:			
Mrs. William A. Richards.....	50.00		
Mrs. Glenn Stewart.....	100.00		
	\$150.00	\$150.00	
Carried Forward	\$351,188.70	\$193,239.06	\$157,949.64

SPECIAL FUNDS ACCOUNT (Continued)

	Receipts	Disbursements	Balance Dec. 31, 1927
Brought Forward	\$351,188.70	\$193,239.06	\$157,949.64
Total net receipts for the development of specific departments	\$351,188.70		
Total net disbursements for the development of specific departments.....		\$193,239.06	
Balances, December 31, 1927.....			\$157,949.64
J. P. Morgan Reserve: Balance.....	500.00		
Interest.....	22,629.50		
	\$23,129.50	\$21,600.00	\$1,529.50
Samos Field Fund:			
Mrs. Adelaide H. C. Frick.....	\$5,000.00		
	\$5,000.00	\$5,000.00	
Emergency Exhibition and Education Fund Reserve No. 1:			
Balance 1927	1,000.00		
*Subscriptions	3,625.00	†4,625.00	
Balance 1928	1,000.00		
*Subscriptions	100.00		1,100.00
Balance 1929	1,000.00		
*Subscriptions	100.00		1,100.00
Balance 1930	1,000.00		
*Subscriptions	100.00		1,100.00
	\$7,925.00	†4,625.00	\$3,300.00
Emergency Exhibition and Education Fund Reserve No. 2:			
*General Purposes, Subscriptions.....	3,440.00		
*For Publication	250.00		
*Hall of Reptiles "	5.00		
	\$3,695.00	\$3,695.00	
Angelo Heilprin Exploring Fund Reserve:			
Balance	1,050.00		
Mr. and Mrs. Paul J. Sachs.....	500.00		
	\$1,550.00		\$1,550.00
Interest on Credit Balances.....	3,054.19	3,054.19	
Totals	\$395,542.39	\$231,213.25	\$164,329.14

*See listing on pages 154 and 155 of this Report.

†Transferred to General Account.

THE AMERICAN MUSEUM OF NATURAL HISTORY

CORPORATE STOCK ACCOUNT

1927

Receipts:

Department of Parks, City of New York:

C. D. P. 3 G.....	\$39,825.06
C. D. P. 3 S.....	5,999.66
C. D. P. 3 T.....	29,999.19
N. D. P. 3 R.....	21,999.02

\$97,822.93

11.79

Interest on Credit Balances.....

\$97,834.72

Disbursements:

Payroll of Mechanics, etc.....	\$97,822.93
Interest on Credit Balances (to General Account).....	11.79

\$97,834.72

TRUSTEES' BUILDING FUND ACCOUNT

1927

Receipts:

Cash on hand January 1, 1927.....	\$7,653.64
Investment Fund:	
Sale of Securities	20,223.59
Income from Investment Fund.....	765.68
Interest on Credit Balances.....	83.31

\$28,726.22

Disbursements:

Alterations to Entrance of School Service Building.....	\$12,861.01
Architects' Fees	5,086.96
Foyer Tablets	1,969.00
Sales Booth	700.00
School Service Equipment	529.10
Southeast Wing and Court Building Changes.....	1,833.50
Cash on hand December 31, 1927.....	5,746.65

\$28,726.22

INCIDENTAL ACCOUNT

1927

Receipts:

Cash on hand January 1, 1927.....		\$133.55
Received from Individuals and Societies.....		7,382.10
Group Life Insurance:		
Employees' Premium Payments.....	\$4,282.31	
Dividends	405.00	
Loans	3,381.76	8,069.07
		<hr/>
Interest on Credit Balances.....		41.59
		<hr/>
		\$15,626.31

Disbursements:

Disbursements for Individuals and Societies.....		\$6,563.92
Group Life Insurance:		
Premiums	\$6,974.64	
Loan Instalments	1,094.43	8,069.07
		<hr/>
Interest on Credit Balances (to General Account).....		41.59
Cash on hand December 31, 1927.....		951.73
		<hr/>
		\$15,626.31

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, 1927.

JAMES H. PERKINS, *Treasurer.*

V. MEMBERSHIP

PERCY R. PYNE, Secretary

During 1928 our membership passed the 10,000 mark. Our members reside in every state of the Union and in fifty-three foreign countries. Thus it is seen that they constitute a very important factor in the dissemination of the scientific knowledge assembled by our scientific staff. The income from our membership in annual dues and higher class membership fees in 1927, totaling \$70,036, is a very substantial contribution to the work we are carrying on.

At the time of mailing the Annual Report of 1926, the Director invited our members to make special contributions to new work which our limited budget for the year did not provide. In response to this appeal, thirty-five members contributed \$4,895. In general this was devoted to installations in new halls to permit of opening them at an early date.

During the year nine regular lectures were arranged for our members as well as eight special lectures. There were also given eight regular lectures for the children of members. In the regular spring course the lectures for members were "Wild Animal Outposts," by William L. Finley; "Life Secrets of Wild Flowers and Animals," by Arthur C. Pillsbury; "The Bahamas in Sunshine and Storm," by Roy Waldo Miner; and "Forgotten Isles," by Robert Cushman Murphy. In the autumn course they were "On the Trail to Clara Natural Bridge," by Charles L. Bernheimer; "Snow and Lava in the Eastern Congo," by James P. Chapin; "Roosevelt's Trail Down the River of Doubt," by George M. Dyott; "The Lure of the Desert," by Fred Payne Clatworthy; "Four Thousand Miles of the Sudan," by Harold E. Anthony. The spring course of lectures for the children of members embraced "Home Life Among the Blackfoot Indians," by Walter McClintock; "The Story of the Stars," by Oliver P. Medsger; "Our Birds and Their Songs," by Clyde Fisher and Charles Crawford Gorst; and "Our Friend John Burroughs," by Clara Barrus. In the autumn course they were "The Passing of the Old West," by Charles Wellington Furlong; "Wild Life Adventures," by Howard H. Cleaves; "Signs Along the Trail," by William H. Carr; and "Camping Among the Indians with Ernest Thompson

Seton," by Clyde Fisher. The Museum arranged a special lecture for members on "The American Museum Greenland Expedition," by George Palmer Putnam. Also "Racing with Death in Antarctic Blizzards," by Sir Douglas Mawson; "The Great White Continent—Exploration in Antarctica," by Sir Douglas Mawson; "Across Asia from Bombay to Peking," by William J. Morden; "The Gold-bearing Deserts of Western Australia," by Johannes Walther; and a showing of the motion picture, "The Giant Lizards of Komodo," with an introductory talk by G. Kingsley Noble. In cooperation with the Medical Center, Dr. Frederick T. Van Beuren, Jr., delivered a lecture on "Cooperation in the Study and Practice of Medicine and in Medical Research." At a joint meeting of the Museum with the American Scenic and Historic Preservation Society, Captain Roald Amundsen and Lincoln Ellsworth lectured on "The Amundsen-Ellsworth Polar Flight of 1925 and the Transpolar Flight of 1926," and Captain Amundsen spoke on "A Discussion of the Discovery of the South Pole and North-west Passage."

In addition to tickets admitting to these lectures, members enjoy the privilege of an annual pass admitting to the Members' Room, which is provided exclusively for the comfort of our members while visiting the Museum. It is fitted with club room appointments and is a convenient place for members to rest, meet their friends, write letters, etc. The attendant in the Members' Room, on request, will arrange for guides to conduct members to the exhibits in which they are particularly interested. All members of the Museum receive current numbers of our bimonthly magazine, *Natural History*. Reciprocal membership arrangements have been made with the following museums. Members of the American Museum, on presentation of their membership cards at the entrances of any of these museums will be accorded the same privileges as members of the respective institutions:

The Buffalo Society of Natural Sciences

The State Historical and Natural History Society of Colorado, Denver

The Newark Museum Association

The Washington State Historical Society, Tacoma

The Toledo Museum of Art

The Saint Paul Institute, St. Paul, Minnesota

The Charleston Museum, Charleston, S. C.
 The Academy of Natural Sciences of Philadelphia
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Endowment Members	4	Honorary Life Members.....	56
Benefactors	15	Life Members	1140
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Patrons	168	Annual Members	4754
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Total Membership, December 31, 1927..... 10,021

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A complete list of Members is appended.

Respectfully submitted,

PERCY R. PYNE,
Secretary.

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December 31, 1927

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 Higgins, R. H.
 Higginson,
 Rear Admiral Francis J.
 Hilder, Moritz
 Hill, Robert Carmer
 Hillhouse, C. B.
 Hilyard, George D.
 Hindley, Chas. T.
 Hine, Lyman N.
 Hine, Thomas A.
 Hines, Walker D.
 Hinman, Royal F.
 Hird, John A.
 Hird, Miss Mary E.
 Hird, Mrs. Samuel
 Hirsch, Angelo
 Hirsch, Chas. S.
 Hirsch, Leo H.
 Hirsch, Mrs. Walter A.
 Hirshfeld, Irving B.
 Hirschhorn, Fred
 Hirschland, F. H.
 Hirschman, Mrs. Jesse
 Hirshon, Mrs. Charles
 Hitchcock, Claude N.
 Hoch, Herman
 Hochschild, Berthold
 Hochschild, Harold K.
 Hodenpyl, Annie P.
 Hodenpyl, Mrs. Eugene
 Hodgdon, Frederick C.
 Hodges, Miss Eleanor
 Hodges, Geo. W.
 Hoe, Geo. E.
 Hoe, Mrs. Robert
 Hoe, Mrs. Robert, Jr.
 Hoeber, Paul B.
 Hoes, Ernest P.
 Hoff, Frederick
 Hoffman, Albert L., Jr.
 Hoffman, Charles L.
 Hoffman, Charles W.
 Hoffman, F. Burrall, Jr.
 Hoffman, Harry L.
 Hoffman, W. W.
 Hoffmann, Richard H., M.D.
 Hofheimer, Lester
 Hogan, Mrs. Jefferson
 Hognet, Mrs. Ramsay
 Holbrook, Mrs. Edward
 Holden, Mrs. Arthur C.
 Holden, Dean Hawley
 Holden, Mrs. Edwin B.
 Holden, Laurence C.
 Holden, Mrs. L. Dean
 Hollenback, Miss Amelia B.
 Hollister, Frank C., M.D.
 Holmes, Frederick T.
 Holt, George C.
 Holt, Mrs. L. Emmett
 Holt, R. S.
 Holter, Mrs. E. O.
 Holton, Charles W.
 Holz, Julius
 Holzmaister, L. V.
 Holzman, A.
 Holzman, Elkan
 Homan, B. H.
 Homan, Mrs. B. H.
 Homes, Mrs. Henry
 Hooker, Mrs. Elon H.
 Hooker, Mrs. Ransom S.
 Hoopes, Maurice
 Hoops, Herman L.
 Hope, Norman S.
 Hope, Walter E.
 Hopkins, A. A.
 Hopkins, Miss Augusta D.
 Hopkins, J. L.
 Hopkinson, Ernest
 Hoppin, G. Beekman
 Hoppin, Mrs. W. W., Jr.
 Horace Mann Elementary
 School
 Horch, Louis L.
 Hord, John H.
 Horn, John, M. D.
 Horn, Robert
 Horne, Hon. W. E. M.P.
 Hornor, J. W.
 Horowitz, Dr. Philip
 Horr, L. Wm.
 Hoskier, H. C.
 Hotaling,
 Mrs. George Preston
 Hotchkiss, Miss Esther S.
 Houghton, Seymour Phillips
 House, Edward M.
 House, Miss Florence E.
 Housman, Clarence J.
 Hovet, Henry A.
 Hovey, Theo. C.
 Howard, John K.
 Howells, Mrs. John
 Howes, Mrs. Reuben
 Howland, Silas W.
 Howson, Mrs. Roger S.
 Hoyer, F.
 Hoyt, C. Sherman

Hoyt, Geo. H.
 Hoyt, Geo. S.
 Hoyt, Mrs. John Sherman
 Hoyt, Mrs. Richard F.
 Hoyt, Miss Virginia Scott
 Hubbard, Mrs. Charles W.
 Hubbard, Mrs. G. M.
 Hubbard, Louis B.
 Huber, Mrs. J. M.
 Huberth, Harry G.
 Huddleston, Carrol H.
 Hudson, Marjorie V. L.
 Huffman, Dr. Otto V.
 Hughes, Charles E., Jr.
 Hughes, John C.
 Huidekoper, Edgar
 Hulskamp, Helena A.
 Hulswit, Frank T.
 Humphrey, Martha K.
 Humphreys, Fredric E.
 Humphreys, Mrs. George H.
 Hunt, Henry T.
 Hunt, Seth B.
 Hunt, Mrs. Thomas
 Hunter, Arthur M.
 Hunter, Jeremiah
 Hunter, John Young
 Hunter, Stephen C.
 Huntington, Mrs. Francis C.
 Huntington, Henry Strong
 Huntington, Mrs. R. P.
 Huntington, Robert P.
 Hüpfel, Adolph G.
 Hüpfel, Chris. G.
 Hüpfel, J. Chr. G.
 Hurd, Dr. Lee M.
 Hurd, R. M.
 Hurlbut, Miss Margaret C.
 Huron, George B.
 Hurst, Mrs. Albert Edward
 Hutcheson, Ernest
 Hutcheson, Wm. A.
 Hutchins, A. S.
 Hutchins, Harley D.
 Hutchins, R. G.
 Hutzler, George H.
 Huyler, C. D.
 Huyler, David

Hyatt, A. M.
 Hyde, A. Fillmore
 Hyde, Mrs. Augustus L.
 Hyde, Courtney
 Hyde, E. Francis
 Hyde, Miss Hazel
 Hyde, Seymour Worrall
 Hyman, Abraham, M.D.
 Hyman, Edwin C.
 Hymes, Richard
 Hynard, William C.
 Ihlseng, Dr. Magnus C.
 Ill, Edger A.
 Ill, Edward J.
 Imboden, Harry M.
 Ingalls, Fay
 Ingalls, Roscoe C.
 Ingersoll, Mrs. Ernest
 Ingersoll, Jonathan
 Ingersoll, Mrs. Marion Crary
 Ingraham, Mrs.. George
 Ingraham, Geo. L.
 Ingraham, Mrs. Phoenix
 Ingram, Ernest S.
 Inman, John H.
 Innes, O. G.
 Inslee, Edwin W.
 Irons, Robert Hatfield
 Irving, Mrs. L. du Pont
 Irwin, William Fletcher
 Isaacs, Stanley M.
 Iselin, C. Oliver
 Iselin, Mrs. C. Oliver
 Iselin, Miss Georgine
 Iselin, Lewis
 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, Samuel
 Jacob, Emanuel
 Jacobs, E. Louis
 Jacobsen, Laura
 Jacobus, John S.
 Jacoby, George W.
 Jacoby, Dr. Geo. W.
 Jaeckel, Albert F.
 Jais, Jacob D.
 James, Mrs. Ellerton
 James, Henry
 James, Oliver B.
 James, Mrs. Walter B.
 James, Mrs. Wortham
 Jameson, Mrs. Edwin C.
 Jamison, Dr. A. B.
 Jansen, Ed.
 Janvrin, Edmund R. P., M.D.
 Jarcho, Dr. Julius
 Jaretzki, Mrs. Alfred
 Jarvis, James N.
 Jarvis, N. S., M.D.
 Javits, Benjamin A.
 Jeffcott, R. C.
 Jefferson, John Percival
 Jenkins, A. C.
 Jenkins, Alfred W.
 Jenks, Mrs. Robert I.
 Jennings, Miss A. B.
 Jennings, Percy H.
 Jennings, Mrs. Percy Hall
 Jennings, Mrs. Philip B.
 Jennings, Robt. E.
 Jennings, Walter
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 Jephson, George S.
 Jermain, Miss M. C.
 Jervey, Huger W.
 Jewett, Frank B.
 Jewett, George L.
 (In Memoriam)
 Jewett, Rutger Bleecker
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 John, Robert

- Johnson, Mrs. Bradish
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 Mrs. Frederick Morgan
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 Jones, Robcliff V.
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 Jones, W. Strother
 Jones, William B.
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 Judson, William D.
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 Jungbluth, Karl
- Kachurin, Philip
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 Kahn, Montifiore G.
 Kahn, Dr. Morton C.
 Kahn, Otto H.
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 Kalvin, Nathan
 Kamsler, Miss Mildred
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 Kane, Miss Sybil Kent
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 Kanowitz, S. B.
 Kappes, Herman
 Karagheusian, Arshag
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 Karsch, Bernard
 Kaskel, Max
 Kassing, Edwin S.
 Kastor, Adolph
 Kates, Jerome S.
 Kathan, Reid A.
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 Kaufmann, H. M.
 Kaufmann, Irma H.
 Kaufmann, Julius
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 Kaufmann, Max
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 Kean, Miss Lucy H.
 Kean, Mary Alice Barney
 Kean, Robert Winthrop
 Keech, Mrs. Frank Browne
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 Keen, Mrs. Herbert Beers
 Keene, Charles S.
- Keep, C. H.
 Keith-Elliott, Alice E.
 Keith, Minor C.
 Keith, Mrs. Minor C.
 Kelchner, William W.
 Keller, Charles G.
 Keller, Fredk. C.
 Keller, Joseph F.
 Keller, Morris
 Kelley, Augustus W.
 Kelley, Cornelius F.
 Kelley, Nicholas
 Kellogg, Mrs. Frederic R.
 Kellogg, L. D.
 Kellogg, Mrs. Morris W.
 Kellogg, R. S.
 Kelly, Charles P.
 Kelly, J. S.
 Kelsey, Fredk. W.
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 Kempf, E. J.
 Kempner, Elias
 Kempner, Sigmund Marshall
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 Kennedy,
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 Kennedy, James J.
 Kennedy, Mrs. John S.
 Kennelly, Major William
 Kennerley, Mrs. M.
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 Kent, Edwin C.
 Kent, G. H.
 Kent, Peter Lorillard
 Kent, Warner W.
 Kenyon, John N.
 Keppel, David
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 Kerr, John B.
 Kerr, John Clapperton
 Kerr, R. C.
 Kerrison, Dr. Philip D.
 Kessel, Leo, M.D.
 Kesten, Homer D.

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 Kimball, W. Eugene
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 Kingsford, Miss Margaret S.
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 Kinney, Morris
 Kinney, Warren
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 Kip, William F.
 Kirby, Cornelia T.
 Kirby, Hayward S.
 Kirby, Sarah L.
 Kirchberger, M.
 Kirkpatrick, John
 Kiser, John W.
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 Kissel, W. Thorn
 Kitchel, Allan F.
 Kittredge, George W.
 Kittredge, S. Dana
 Klaw, Joseph
 Klee, Sigmund
 Klee, Walter S.
 Klein, Adolph
 Klein, D. Emil
 Klein, Leo M.
 Kleinberger, François
 Klenke, William H.
 Klingenstein, Charles
 Kloh, Alphonse
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 Knapp, William Jared
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 Knox, Samuel
 Knowlton, Eben B.
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 Koch, William T.
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 Koehn, Walter H.
 Kohlberg, Alfred
 Kohler, Miss M. E.
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 Kohn, Chas. M.
 Kohn, Emil W.
 Kohn, Mrs. Walter T.
 Kohnstamm, Lothair S.
 Koles, Henry M., M.D.
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 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
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 Krakeur, Jacques
 Krause, Holger E.
 Krauser, John F.
 Kremer, Mrs. William N.
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 Kress, R. H.
 Kridel, Alexander H.
 Kridel, Mrs. Samuel
 Krippendorf, Mrs. Karl
 Krolik, Day, Jr.
 Kronthal, Leon H.
 Krum, Miss Vivian B.
 Kudlich, Hans E., M. D.
 Kudlich, H. C.
 Kugelman, Julius G.
 Kuhn, Arthur K.
 Kuhn, August
 Kuhn, Edward
 Kuhn, Julius
 Kumpf, George L.
 Kurz, George A.
 Kurzman, Charles C.
 Kuser, Mrs. Anthony R.
 Kuser, John Dryden
 Kuttroff, Adolf
 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. Edith I.
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 Lane, Melvin
 Lane, Wolcott G.
 Lange, Gustav, Jr.
 Lange, Nancy C.
 Langeloth, Mrs. Jacob
 Langenberg, Carl H.
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 Langmann, Mrs. G.
 Langstadter, Aaron
 Lanier, Reginald B.
 Lapham, Mrs. John J.
 Lapham, Lewis H.
 Lapsley, Anna Welsh
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 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 School
 Lawrence, Townsend
 Lawton, William W.
 Lazarus, Mrs. Isidor
 Lazo, Antonio
 Lea, Charles M.
 Leach, Mrs. Henry G.
 Leach, Henry Goddard
 Leale, Charles A., M. D.
 Leavitt, Mrs. Charles W.
 Leavitt, Gordon
 Leaycraft, Edgar C.
 Lebanon Valley College
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 LeBloas, Jean
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 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
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 Lefferts, Marshall C.
 Legg, 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
 Lemp, Louis
 Lenci, George N.
 Lenz, Maurice, M.D.
 Leo, Brother
 Leon, Henry
 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.
 Levison, Benno
 Levy, B. E.
 Levy, Edgar A.
 Levy, Ephraim B.
 Levy, Jacob
 Levy, John
 Levy, Leo
 Levy, Louis S.
 Levy, Max J.
 Levy, Moe
 Levy, Willy
 Lewengood, Miss Helen Louise
 Lewis, Mrs. August
 Lewis, C.
 Lewis, Edward J.
 Lewis, Esther J.
 Lewis, Mrs. Eugene
 Lewis, Mrs. Frederic Elliott
 Lewis, John W., Jr.
 Lewis, Liston L.
 Lewis, Montgomery H.
 Lewis, Dr. Robert
 Lewis, Robert Parker
 Lewis, Wm. J., M.D.
 Lewisohn, Miss Irene
 Lewisohn, Sam A.
 Lewisohn, Mrs. Samuel A.
 Lexow, Mrs. Allan
 Lichtenberg, Samuel
 Lichtenstein, Louis 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, Jackson Steward
 Lincoln, Mrs. Lowell
 Lincoln School of Teachers
 College, The
 Lindenmeyr, Fritz
 Lindley, Allen L.
 Lindsey, Edward
 Lindsley, Henry D.
 Lion, Oscar
 Lipman, Walter L.
 Lippincott, Miss M. T.
 Lippman, Richard W.
 Lisman, Frederick J.
 Lissauer, Robert
 Lissberger, Milton L.
 Littauer, Lucius N.
 Little, Bascom
 Little, Duncan MacD.
 Little, Mrs. Elliotte
 Little, John W.
 Litwin, Mrs. M. A.
 Livermore, Mrs. John R.
 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. G.
 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.
 Longfellow, Frederick W.
 Loomis, C. C.
 Loomis, Homer L.
 Lorberblatt, Isaac
 Lord, Daniel M.
 Lord, Wm. G.
 Lorenz, Mrs. Leo
 Lorsch, Arthur
 Lorsch, Henry
 Lough, W. H.
 Loughran, Robert L., M.D.
 Lounsbery, Richard
 Lovering, J. S.
 Lovett, R. S.
 Lovett, Robert A.
 Low, Mrs. Clarence
 Low, E. Herrick
 Low, Ethelbert I.
 Low, Mrs. Seth
 Lowenheim, Fredk.
 Lowenstein, Oscar
 Lowenstein, Solomon
 Lowenthal, Alfred
 Lowndes, M. E.
 Lowrey, Mrs. G. C. W.
 Lowther, Christopher M.
 Lowther, George
 Ludington, Charles H.
 Ludlam, Malcolm C.
 Ludlow, Mrs. Banyer
 Ludlum, C. A.
 Lueder, C. G.
 Lueder, E. L.
 Lueders, George
 Lufkin, E. C.
 Luke, Adam K.
 Luke, David L.
 Lumb, Henry A.
 Lummis, Benjamin Rush
 Lund, Fred B., Jr.
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 Luquer, Prof. Lea McL.
 Luquer, Lea Shippen
 Lusk, Miss Anna H.
 Lusk, Graham
 Lustbader, Samuel, Jr.
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 Lyeth, J. M. R.
 Lyeth, John C.
 Lyman, Grace Greenleaf
 Lyman, Robert H.
 Lynch, Mrs. John H.
 Lynch, M. H.
 Lynch, W. J. Turner
 Maas, Milton A.
 Mabon, J. B.
 MacCracken,
 Mrs. George Gore
 MacCurdy, George Grant
 MacDonald, George
 Macdonald, Ranald H.
 Macdowell, W. G.
 Mack, Arthur C.
 Mack, Arthur J.
 Mack, Fred A.
 Mack, Harry
 Mack, Julian W.
 MacKay, John J.
 MacKee, Geo. M.
 Mackenzie, Kenneth K.
 Macleod, William P.
 MacMurray, C. F.
 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
 Mahin, John Lee
 Mainzer, Mrs. Herbert R.
 Mainzer, Robert H.
 Mairs, Mrs. Edwin H.
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 Mallet-Prevost, S.
 Mallory, Mrs. Charles
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 Manchester, Percival
 Mandell, K.
 Manges, Dr. Morris
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 Manley, Mrs. H. D.
 Mansfield, Howard
 Mantle, J. G. C.
 Manville, H. E., Jr.
 Manville, H. Estelle
 Manz, Gustav
 Mapes, Eugene E.
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 Marcus, B. K.
 Marcus, Samuel
 Marcuse, Alexander J.
 Marcuse, Bernhard
 Margaret, Sister M.
 Margolis, Samuel
 Marino, A. J.
 Marion, Pierce
 Markle, John
 Markle, Mrs. John
 Markoe, Mrs. James W.
 Marquand, Mrs. Henry
 Marsh, Arthur E.
 Marsh, Charles Capron
 Marsh, John B.

- Marshall, Charles A.
 Marshall, Charles C.
 Marshall, Robert P.
 Marston, Edgar J.
 Marston, Edgar L.
 Martin, Alexander T., M.D.
 Martin, Bradley
 Martin, Edward J.
 Martin, Mrs. Grinnell
 Martin, Henry C.
 Martin, Robert W.
 Martin, Thomas W., M.D.
 Martin, Walton, M.D.
 Marvin, Langdon Parker
 Marx, Charles
 Masback, Robert J.
 Mason, Charles N.
 Mason, Miss Fanny P.
 Mason, Mrs. George Grant
 Mason, M. D.
 Massey, Mrs. George
 Massey, Miss Harriet F.
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 Masters, Sarah W.
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 Maxwell, Henry L.
 Maxwell, Howard W.
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 Mayer, Charles
 Mayer, Joseph L. B.
 Mayer, Josh W.
 Mayer, Dr. Leo
 Mayer, M. R.
 Mayer, Mrs. Max
 Mayer, Nelson B.
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 McAfee, John Knox
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 McAlpin, Dr. D. H.
 McAlpin, Mrs. Geo. L.
 McAlpin, Kenneth R., M.D.
 McBride, Geo. C., D.D.S.
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 McBride, John S.
 McBride, Thomas J.
 McBride, Wm. M.
 McCafferty, Lawrence K.
 McCagg, Louis B.
 McCall, John C.
 McCall, Leo H.
 McCanliss, Lee
 McCarthy, J. M.
 McCarty, Harry C.
 McCloy, John J.
 McClure, Samuel G.
 McCook, Philip J.
 McCormick, Miss Parker
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 McCourt, W. Frank
 McCrea, Nelson G.
 McCrea, W. S.
 McCready, Robert L., M.D.
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 McCulloh, Charles S.
 McCulloh, James S.
 McCullough, W. G.
 McCurdy, Robert H.
 McCutchen, Chas. W.
 McDonald, C. Eric W.
 McDuffie, Marshall William
 McElheny, Victor K., Jr.
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 McGaffin, Chas. G., M.D.
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 McGovern, Mrs. Coleman B.
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 McGraw, Stanley D.
 McGregor, Robert
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 McIlroy, George A.
 McIlvaine, Tompkins
 McIntyre, John G.
 McKay, R. G.
 McKelvey, Charles W.
 McKelvey, J. J.
 McKelvy, Robert
 McKenney, Henry P.
 McKeown, Matilda J.
 McKernon, Dr. Jas. F.
 McKim, Le Roy
 McKinley, Lindsay P.
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 McLane, Thomas S.
 McMahan, Rev. Joseph H.
 McManus, Edward F.
 McNair, William
 McNall, Robert H.
 McNall, Mrs. Robert H.
 McNaugher, David W.
 McNeir, George
 McNeir, Thomas S.
 McParlan, Dr. John P.
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 Mead, G. W.
 Mead, Herbert, Jr.
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 Meeker, Henry E.
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 Meigs, Mrs. Ferris J.
 Meinhard, Morton H.
 Meierowitz, Dr. Philip
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 Melcher, John S.
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 Mellon, Miss Eleanor M.
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 Melson, Ralph
 Melville, Ward
 Mencke, John H.
 Mendes, George A.
 Menendez, James
 Menke, William
 Menken, Mrs. S. Stanwood
 Mergentine, Mrs. Charles
 Merle-Smith, Van S.

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 Merrill, John Lenord
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 Metcalf, Mrs. Walter Willson
 Metcalf, Z. P.
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 Mitchell, Cornelius von E.
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 Morgan, Shepard A.
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 Parodi, Dr. Teofilo
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 Pierrepont, Seth Low
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 Pierson, J. Fred
 Piez, Ernestine
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 Pitney, John O. H.
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 Platt, Livingston
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 Plaut, Joseph
 Pless, Martin
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 Poor, Walter S.
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 Pratt, Mrs. Richardson
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 Prescott, Sherburne
 Preston, Veryl
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 Prince, Julius
 Prince, Theodore
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 Procter, Mrs. Sanford
 Procter, William
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 Rennie, Robt.
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 Reynolds, Miss Emma C.
 Reynolds, Geo. W.
 Reynolds, Shaw H.
 Reynolds, Thos. A.
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 Rice, Oran Winthrop
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 Richards, Ellis G.
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 Richardson, Sinclair

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 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, Alfred
 Seton, Henry
 Seward, J. Perry, M.D.
 Seymour, Edmund
 Seymour, Henry T.
 Sforza, Miss Christine
 Shailer, Sumner
 Shannon, Wm. P.
 Shallcross, Mrs. Cecil
 Shallcross, Cecil F.
 Shameshman, Isaac B.
 Shapiro, Simon
 Sharlit, 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.
 Sheldon, Mrs. Paul
 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.
 Shonnard, Mrs. Frederic
 Short, Livingston L.
 Shreve, R. H.
 Sicard, Hugh Charles
 Sicard, Montgomery H.

- Sichel, Mrs. Eugene A.
 Sichel, Mrs. Walter
 Sicher, Dudley D.
 Sidenberg, Geo. M.
 Sidenberg, Richard
 Sidenberg, William R.
 Sidenberg, R.
 Siegel, Benjamin
 Siegel, Jacob
 Siegel, William
 Siegman, Samuel M.
 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.
 Simon, Theo. A.
 Simonds, Louis B.
 Simons, Miss Kate R.
 Simons, Minot
 Simonson, A.
 Simonson, Miss Lucy C.
 Simpson, Mrs. Ernest L.
 Sinclair, Charles G., Jr.
 Sinclair, Mrs. John
 Sinkler, Wharton, Jr.
 Sinnigen, Mrs. W. C.
 Sisson, William W.
 Sittenfield, Milton M.
 Skeel, Mrs. Frank D.
 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.
 Slattery, 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
 Sloane, Wm. M.
 Slocum, H. Jermain, Jr.
 Slocum, Capt. Myles Standish
 Slocum, Thomas W.
 Sloss, A. M.
 Sloss, Arthur J.
 Smadbeck, Arthur
 Smadbeck, Warren
 Smalley, Ethel Irwin
 Smidt, Frank B.
 Smidt, Thos.
 Smiley, Daniel
 Smillie, James C.
 Smillie, Ralph
 Smith Abel I.
 Smith, Arthur
 Smith, Arthur
 Smith, Augustine J.
 Smith, Augustus
 Smith, B. Herbert
 Smith, C. Harold
 Smith, Carrie Weaver
 Smith, Charles Green
 Smith, Mrs. Clarence Bishop
 Smith, Daniel Cranford
 Smith, Mrs. De Cost
 Smith, E. C.
 Smith, Elisabeth Morehouse
 Smith, Ernest L.
 Smith, Miss Fanny A.
 Smith, Mrs. Fayette
 Smith, Mrs. Fitch W.
 Smith, Mrs. Frank R.
 Smith, Franklin S.
 Smith, H. Harrison
 Smith, Harriet Otis
 Smith, Mrs. Harry J.
 Smith, Henry G.
 Smith, James A.
 Smith, Mrs. John T.
 Smith, Miss Josephine C.
 Smith, Miss Lizzie U.
 Smith, Lyman D.
 Smith, Mrs. R. Penn, Jr.
 Smith, Mrs. Raymond Hart
 Smith, Stanley
 Smith, Van W.
 Smith, W. Hinckle
 Smith, William DeGarmo
 Smithers, Mrs. F. S.
 Smoot, Albert M.
 Smull, J. B.
 Smyth, David W.
 Smyth, Francis
 Smythe, Richard H.
 Snare, Frederick
 Sneddon, J. Stuart
 Snell, Thomas
 Snow, Mrs. Frederick A.
 Snyder, Mesier R.
 Soden, Chas. P.
 Soldwedel, Frederic
 Solley, Mrs. John B., Jr.
 Sollmann, Ekko
 Solomon, Mrs. A.
 Solomon, Mrs. Albert Edward
 Somers, Arthur S.
 Sondern, Frederic E.
 Sondheim, Phineas
 Sondheimer, Julius
 Soule, Douglas
 Sonne, Hans C.
 Soper, Alex. C.
 Soule, Louis H.
 Spafford, Joseph H.
 Spalding, H. Boardman
 Spalding, K.
 Spark, M.
 Sparks, Gerald
 Sparrow, Mrs. E. W.
 Sparrow, Edward G.
 Spear, James, Jr.
 Spears, Chauncey B.
 Spector, Joseph
 Spedden, Frederic O.
 Spektorsky, Joseph
 Spencer, Mrs. Edwards
 Spencer, Frank N.

- Spencer, Henry James, M.D.
 Spencer, K. B.
 Spencer, Nelson S.
 Speranza, Gino C.
 Sperling, Emil M.
 Sperry, Elmer A.
 Sperry, Eugene E.
 Spies, Miss Allie
 Spitzer, Carl B.
 Spitzer, Edward E.
 Spitzner, Geo. W.
 Spooner, Allen N.
 Spooner, Mrs. E. H.
 Sporborg, Flora Agnes
 Sprague, L. H., Jr.
 Spruance, W. C.
 Stafford, Mrs. Wm. Frederick
 Stair, Mrs. Bird
 Stallknecht, C. P.
 Standing, Charles R.
 Stanfield, Theodore
 Stanley, Alfred T.
 Stanley, Stuart M.
 Stapleton, Chas. W.
 Starbuck, Charles L.
 Starr, Mrs. Fred
 Starr, Howard W.
 Starr, Louis Morris
 Starr, M. Allen, M.D., LL.D.
 Starrett, Mrs. Paul
 Statham, Noel
 Staudt, John
 Stearns, Eckley H.
 Stearns, Louis
 Stebbins, Miss Delia A.
 Stebbins, E. Vail
 Steel, Alfred G. B.
 Steers, A.
 Steers, Mrs. James R.
 Steese, Edwin S., M.D.
 Steffanson, Mrs. Hakan B.
 Stein, Dr. Arthur
 Stein, Enrico N.
 Stein, Fred M.
 Stein, Mrs. Gerda
 Stein, Jacob
 Stein, Joseph W.
 Stein, Leonard L.
 Stein, Samuel D.
 Steinam, Mrs. E. S.
 Steiner, Mrs. Milton S.
 Steiner, Walter R.
 Steinhardt, Fred F.
 Steinhardt, Irving D., M.D.
 Steinhardt, Samuel C.
 Steinkamp, William H.
 Steinthal, Martin
 Steinway, Wm. R.
 Stempf, Victor H.
 Steneck, Henry C.
 Stephenson, Robert P.
 Sterling, Duncan
 Sterling, Mrs. Louis V.
 Stern, B. H.
 Stern, Benjamin
 Stern, Edwin H.
 Stern, Emil
 Stern, Isaac
 Stern, Leopold
 Stern, Meyer
 Stern, Morton F.
 Stern, Mrs. Pauline O.
 Stern, Simon T.
 Stern, Mrs. Stella
 Sternberg, Samuel H.
 Sternfeld, Joseph
 Sternfeld, Sigmund
 Sterrett, J. E.
 Stetson, Caleb R.
 Stetson, Sereno
 Stetten, Dr. De Witt
 Stettenheim, I. M.
 Stettinius, Mrs. Edw. R.
 Stevens, Dr. Albert M.
 Stevens, F. K.
 Stevens, Miss Mary O.
 Stevens, W. H.
 Stevenson, Mrs. Gordon
 Stewart, Alexander M.
 Stewart, Cecil P.
 Stewart, Dr. Edgar E.
 Stewart, John A.
 Stewart, Mrs. Percy H.
 Stewart, Philip B.
 Stewart, Spencer W.
 Stewart, Wm. H.
 Steyne, Mrs. Abram N.
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 Stieff, Frederick Philip
 Stieglitz, Albert
 Stieglitz, Louis
 Stier, Mrs. Kenneth A.
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 Stiles, H. S.
 Stillger, Dr. Walter F.
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 Stillman, J. A.
 Stillman, Leland S.
 Stimpson, Mrs. Harold W.
 Stirn, Mrs. Edmund A.
 Stix, Lawrence C.
 Stix, Sylvan L.
 Stoddard, John M.
 Stoddard, Ralph
 Stoddard, Ralph George
 Stokes, Frederick A.
 Stokes, Harold Phelps
 Stoll, Charles H.
 Stone, Miss Elizabeth B.
 Stone, Geo. C.
 Storm, George H.
 Storm, Jules P.
 Storm, Raymond W.
 Storrs, Frank V.
 Stoskopf, Louis N.
 Strang, Arthur I.
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 Strasser, W. W.
 Strater, Charles G.
 Straus, Charles B.
 Straus, Mrs. H. Grant
 Straus, Herbert N.
 Straus, Jesse Isidor
 Straus, Marcus
 Straus, Nathan
 Straus, Nathan, Jr.
 Straus, Percy S.
 Straus, Mrs. Roger W.
 Strauss, Albert
 Strauss, Mrs. Albert
 Strauss, Mrs. Daisy
 Strauss, Miss Henriette
 Strauss, John Francis

Strauss, Samuel
 Strawn, Wm. H.
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 Streeter, Daniel Dennison
 Streeter, M. B.
 Streit, Raymond E.
 Stringham, Raymond B.
 Strobel, Walter E.
 Strodl, Dr. George T.
 Strong, Dr. A. McI.
 Strong, Mrs. Benjamin
 Strong, John R.
 Strong, R. A.
 Strong, W. E. S.
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 Stroock, Joseph
 Stroock, Moses J.
 Stroock, Mrs. S. M.
 Stropp, Leon E.
 Stuart, Mrs. David
 Stuart, Robert
 Stubing, Henry E.
 Stump, H. E.
 Sturges, Mrs. E. C.
 Sturgis, Reginald H.
 Sturmndorf, Arnold, M.D.
 Stursberg, Julius A.
 Stursberg, W.
 Suckley, Margaret L.
 Sulger, Dr. A.
 Sullivan, Mrs. James
 Sullivan, Leonard
 Sullivan, Walter S.
 Sulzberger, Arthur Hays
 Sulzberger, Cyrus L.
 Sulzberger, Myron
 Sumner, Mrs. Graham
 Sumner, Malcolm
 Sunderland, Edwin S. S.
 Sussman, Dr. Otto
 Sutherland, Dr. Fred B.
 Sutphen, Duncan D.
 Sutro, Mrs. Lionel
 Sutro, Richard
 Sutro, Victor
 Swan, James A.
 Swann, Mrs. A. W.
 Swanson, Dr. F. J.

Swarr, Miss Mabel R.
 Swart, Augustus
 Swartwout, Mrs. Egerton
 Swartwout, Richard H.
 Swartwout, Robert Egerton
 Swayne, Francis B.
 Swayne, Mrs. Francis B.
 Swift, Samuel, M.D.
 Swift, Mrs. Walker E.
 Swinburne, William T.
 Switzer, Maurice
 Swope, Gerard
 Sykes, Walter H., Jr.
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 Symington, C. J.
 Symmes, L. M.

Taber, David Shearman
 Taber, Miss M.
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 Taft, Walbridge S.
 Taggart, Rush
 Taintor, Mrs. Chas. Newhall
 Taintor, Charles Wilson
 Talbot, Richmond
 Talcott, J. Frederick
 Talcott, Harry P.
 Talmage, Mrs. Edw. T. H.
 Tanenbaum, Moses
 Tanner, Mrs. E. J. S.
 Tappen, Frank J.
 Tas, Emile
 Tate, Joseph
 Taylor, Anna-Louise
 Taylor, Edwin P., Jr.
 Taylor, Emma Fellowes
 Taylor, F. Carroll
 Taylor, Frank M.
 Taylor, Frederick C.
 Taylor, Herbert C.
 Taylor, Howard C.
 Taylor, Myron C.
 Taylor, W. A.
 Taylor, Walter W.
 Taylor, William R. K.
 Teele, Arthur W.
 Teetsel, Wm. M.
 Tefft, Erastus T.

Teichner, Miriam
 Tenney, Daniel G.
 Terry, Roderick, Jr.
 Terry, Mrs. Wyllys
 Thacher, Major Archibald G.
 Thacher, Mrs. T. D.
 Thacher, Mrs. Thomas
 Thalmann, Mrs. Edward E.
 Thayer, B. B.
 Thayer, H. B.
 Thayer, Stephen H.
 Thayer, Rev. William
 Greenough, D.D.
 Theodore, Mother M.
 Thibaut, Mrs. Josephine A.
 Thiele, E.
 Thomas, Dr. Belle
 Thomas, Mrs. Howard L.
 Thomas, James P.
 Thomas, Mrs. John H.
 Thomas, Mrs. Joseph B.
 Thomas, Roy G.
 Thomas, Mrs. T. Gaillard
 Thompson, Frank E.
 Thompson, Mrs. J. Todhunter
 Thompson, Lewis M.
 Thompson, Mrs. Lewis S.
 Thompson, Lewis S., Jr.
 Thompson, Samuel A.
 Thompson, Rev. Dr. Walter
 Thompson, William P.
 Thompson, Mrs. William Reed
 Thomson, A. T.
 Thomson, Dr. Edgar S.
 Thomson, Rodney
 Thorn, John C.
 Thorn, Mrs. L. McA.
 Thorne, Mrs. Edwin
 Thorne, Mrs. Landon K.
 Thorne, Robert
 Thorne, S. B.
 Thorne, Samuel
 Thornton, Mrs. George M.
 Thornton, Janet
 Thornton, Miss Lucile
 Tibbals, Saml. G.
 Tiedemann, Mrs. Theodore
 Tiers, Mrs. Cornelius

- Tiffany, Charles L.
 Tiffany, Louis C.
 Tilford, Mrs. Henry M.
 Tillman, Brig.-Gen. Samuel E.
 Tillotson, Norton B.
 Tilney, Frederick, M.D.
 Tilton, Newell W.
 Tim, Bernard L.
 Timme, Walter, M.D.
 Timolat, J. G.
 Timpson, James
 Tingue, Mrs. Howard
 Tingue William J.
 Tinker, Mrs. Horace H.
 Tinkham, Julian R.
 Tipper, Harry
 Tison, Alexander, Jr.
 Titus, Norman E., M.D.
 Titus, Robert R.
 Tjader, Mrs. Richard
 Toch, Malcolm
 Toch, Mrs. Maximilian
 Tod, John
 Todd, Ambrose G.
 Tolfree, Edward R.
 Tolles, Brainard
 Tombs, Mrs. W. H.
 Tompkins, Miss Augusta N.
 Tonnelé, Mrs. John N.
 Torrance, Henry
 Torrance, Stiles A.
 Tovelli, Sandro
 Towne, Paul R.
 Towner, Rutherford
 Townley, J. M.
 Townsend, Mrs. David C.
 Townsend, E. M.
 Townsend, H. N.
 Townsend, Howard
 Townsend, J. Henry
 Townsend, James M., Jr.
 Townsend, Mrs. W. K.
 Tozzer, B. A.
 Tracy, Ernest B.
 Tracy, Mrs. Joseph T.
 Travis, John C.
 Trawick, S. W.
 Treman, Mrs. E. M.
 Triller, Charles
 Trimble, William Pitt
 Tripp, Donald F.
 Trowbridge, E. Kellogg
 Trowbridge, Edmund Q.
 Trowbridge, Mrs. S. Breck P.
 Trull, Harry S.
 Truslow, Henry A.
 Tryon, Henry H.
 Tryon, James S.
 Tucker, Carl
 Tucker, Mrs. Carl
 Tuckerman, Eliot
 Tuckerman, Paul
 Tuckerman, Wolcott
 Turnbull, Arthur
 Turnbull, Kenneth H.
 Turnbull, Mrs. Ramsay
 Turnbull, Mrs. Robert J.
 Turnbull, William
 Turner, D. B.
 Turner, Daniel Lawrence
 Turner, James H.
 Turner, Katherine T.
 Turner, Dr. Kenneth B.
 Turner, Margaret E.
 Turner, Spencer
 Turner, Wallis S.
 Turnure, George E.
 Tutt, Myra R.
 Tuttle, Donald Seymour
 Tweed, Mrs. Charles H.
 Tweed, Harrison
 Tweedie, Miss Annie
 Tweedie, N. L. B.
 Tweedy, Alice B.
 Tyler, Mrs. Victor Morris
 Tyng, Mrs. Lucien Hamilton
 Ullmann, E. S.
 Ulmann, Ludwig
 Underhill, Mrs. Andrew M.
 Underwood, William Lyman
 Unterleider, Samuel
 Untermyer, Alvin
 Untermyer, Mrs. Eugene
 Upson, Maxwell M.
 Urchs, Ernest
 Vail, Miss Martha C.
 Vaillant, Mrs. G. H.
 Valentine, Mrs. Henry C.
 Valentine, Langdon B.
 Valentine, Miss Marguerite E.
 Valentine, Miss Myra
 Valentine, Sidney C.
 van Beuren, F. T., Jr.
 van Beuren, Mrs. M. M.
 Van Brunt, Jeremiah R.
 Vance, Benj. Morgan
 Vander Bent, W. S.
 Vanderlip, Mrs. F. A.
 Vanderlip, Frank A.
 Vanderlipp, William T.
 Vanderpoel, Mrs. J. A.
 Vander Veer, Mrs. Albert, Jr.
 Van Dorn, Mrs. H. A.
 Van Dusen, Samuel C.
 Van Iderstine, Robert
 Van Ingen, Philip, M.D.
 Vanner, Lena F.
 Van Norden, Ottomar H.
 van Raalte, Mrs. E.
 Van Santvoord, George
 Van Sickle, E. R.
 Van Sinderen, Howard
 Vanston, W. J. K.
 Van Vleck, Ernest Alan
 Van Wezel, M. S.
 Van Winkle,
 Miss Elizabeth M.
 Van Wyck, Philip V. R.
 Veit, Maurice
 Veith, Emil G.
 Veltin, Miss Louise
 VerPlanck, William G.
 Victor, Ernest G.
 Victor, Thos. F.
 Victorious Myer L.
 Villa, Alfonso P.
 Villard, Mrs. Henry
 Vincent, Mrs. George E.
 Vineberg, Dr. Hiram N.
 Voelker, John Ph.
 Vogel, Fred, Jr.
 Vogel, H. G.
 Vogelstein, L.

- Von Bergen, William H.
 von Bernuth, Miss Louise E.
 von Bremen, D. W.
 Vondermuhll, George A.
 von Lengerke, Justus
 von Lilienthal, Albert W.
 von Oefe, Dr. Felix
 von Schrenk, Otto
 von Zedlitz, Mrs. Anna M.
 Voorhees, Oscar M.
 Vosburgh, Harry S.
 Voss, F. G.
 Vredenburg, Mrs. B. H.
 Vreeland, Frederick K.
 Vuilleumier, Dr. Jules A.

 Wachenheim, Edgar
 Waddell, Ralph Ware
 Wade, Mrs. Alfred B.
 Wadham, Harvey N.
 Wadleigh, Francis Rawle
 Wadsworth,
 Mrs. Augustus B.
 Wadsworth,
 Mrs. James W., Jr.
 Wadsworth, W. M.
 Wagner, Ernest C.
 Wagner, Miss Marie
 Wagner, T. B.
 Wainwright, Charles H.
 Wainwright, James H.
 Wakelee, J. I.
 Wakeman, Stephen H.
 Walbridge, A. E.
 Walbridge, H. D.
 Walcott, Mrs. F. C.
 Walden School, The
 Waldman, Clarence F.
 Waldo, Miss Julia L.
 Wales, Arvine
 Walker, Dr. Alfred
 Walker, Charles C.
 Walker, Harry L.
 Walker, Henry L.
 Walker, Jean
 Walker, John B., M.D.
 Walker, Mrs. Joseph
 Walker, Miss Miriam Dwight
 Walker, Stuart
 Wallace, Mrs. Norman
 Wallenstein, Milton H.
 Waller, John
 Wallerstein, Leo
 Wallerstein, Dr. Max
 Walsh, Myles
 Walter, Edw. J.
 Walters, James N.
 Walton, Harold L.
 Walton, Rudolph L.
 Wappler, Albert C.
 Warburg, Mrs. James P.
 Ward, Charles A.
 Ward, Miss Elizabeth
 Ward, Dr. Freeman F.
 Ward, Owen
 Ward, S. L. H.
 Wardwell, Allen
 Warner, Geo. H.
 Warner, Mrs. Henry Wolcott
 Warner, Mrs. Randolph S.
 Warnock, James Knox
 Warren, Mrs. Charles Elliot
 Warren, Edward K.
 Warren, Howard Crosby
 Washburn, Thomas G.
 Washburn, Wm. Ives
 Washington School, The
 Wasserman, Samuel
 Waterbury, Miss Florence
 Waterbury, Miss G.
 Waterbury, Mrs. John I.
 Waterhouse, M. M.
 Waterman, Charles N.
 Waterman, H. F.
 Waters, Mrs. Grace V.
 Waters, Horace
 Watrous, Harry W.
 Watson, A. W.
 Watson, George E.
 Watson, Miss Gertrude
 Watson, John J.
 Watts, S. H.
 Waugh, L. M.
 Wearne, Harry
 Weatherbee, Mrs. E. H.
 Weathers, Niel A.
 Webb, Louis
 Webb, Vanderbilt
 Webb, Mrs. Vanderbilt
 Weber, Frederick
 Weber, Jay A.
 Webster, Annie M.
 Webster, David H.
 Weed, Mrs. Alden H.
 Weed, Richmond
 Weeks, Andrew Gray
 Weeks, Dr. John E.
 Weeks, Mrs. Percy Shelton
 Weeks, Rufus W.
 Weeks, Warren B. P.
 Wegel, R. L.
 Weiher, Charles L., M.D.
 Weil, Arthur William
 Weil, Edmond
 Weil, Frank L.
 Weil, Leon
 Weil, Mrs. Walter L.
 Weiller, Louis M.
 Weinberg, Alex.
 Weinberg, Charles
 Weinberger, Dr. Bernhard W.
 Weiner, Brushka
 Weingarten, Dr. Frederick S.
 Weinstein, Mandel, M.D.
 Weir, Miss Anne R.
 Weir, Dorothy
 Weismann, Harold A.
 Weiss, Mrs. Chas.
 Weiss, S. J.
 Weiss, Mrs. Samuel W.
 Weisse, Faneuil Suydam
 Weitling, Wm. W.
 Wellinsky, Max
 Welles, F. R.
 Welles, Paul
 Wellington, Miss Elizabeth R.
 Wells, F. DeWitt
 Wells, Judd Elwin
 Welsh, Charles N.
 Welsh, S. Chas.
 Weltzien, Henry C.
 Welwood, John Caldwell
 Wemple, William Y.
 Wentz, Theodore

- Werner, Theodore
 Wertheim, Maurice
 Wertheim, Mrs. Maurice
 Wertheimer, Robert
 Wesendonck, M. A.
 West, Charles C.
 West, Davenport
 West, Davenport, Jr.
 West, James E.
 Westheimer, Henry F.
 Weston, Dr. Edward
 Weston, Philip
 Westover, Myron F.
 Wetherald, J. Stanley
 Whaley, George P.
 Wheeler, Miss L.
 Wheelock, Dr. Edward
 Wheelock, Geo. L.
 Wheelwright, Joseph S., M.D.
 Whelan, Sidney S.
 Whipple, Allen O., Jr.
 Whitaker, John E.
 White, Alexander M.
 White, Mrs. Alfred L.
 White, Miss Caroline
 White, E. Laurence
 White, Miss Edith Hamilton
 White, Rev. Eliot
 White, Lazarus
 White, Leonard D.
 White, Mrs. M. Ely
 White, Martha R.
 White, Mrs. Stanford
 White, Mrs. W. A.
 White, W. Foster
 White, Walter
 Whiteside, A. D.
 Whitestone, Samuel L.
 Whitfield, Miss Estelle
 Whitin, Miss Louise
 Whiting, Charles A.
 Whitman, Mrs. Royal
 Whitman, Wm., Jr.
 Whitmarsh, Theo. F.
 Whitmore, Miss Barbara
 Whitney, Edward F.
 Whitney, Mrs. George
 Whitney, Mrs. Howard F.
- Whitney, Mrs. Payne
 Whitney, Richard
 Whitney, Travis H.
 Whitridge, A.
 Whitridge, Mrs. Arnold
 Whittemore, Howard
 Wiborg, F. B.
 Wickham, Miss Louise F.
 Wickware, Francis G.
 Wiemann, Albert B.
 Wiener, Solomon, M. D.
 Wiers, Rev. Edgar Swan
 Wiesenauer, August
 Wieser, Max
 Wightman, Henry Nicoll
 Wilcox, Arthur R.
 Wilcox, Dr. Herbert B.
 Wilcox, T. Ferdinand
 Wile, Edwin
 Wile, Ernest J.
 Wile, Ira S.
 Wile, Oscar J.
 Wiley, J. S.
 Wiley, Louis
 Wilkie, John L.
 Wilkinson, Alfred
 (In Memoriam)
 Willets, Miss Maria
 Williams, Arthur
 Williams, Charles B.
 Williams, Mrs. Clark
 Williams, Earle C.
 Williams, Ellis D.
 Williams, Henry D.
 Williams, James D.
 Williams, Laidlaw
 Williams, Lewis Blair
 Williams, Mrs. Percy H.
 Williams, Ralph J.
 Williams, Mrs. Richard H.
 Williams, Roger B., Jr.
 Williams, Rogers H.
 Williams, Mrs. T. R.
 Williams, Mrs. Timothy S.
 Williams, William H.
 Williamson,
 Mrs. Alexander H.
 Williamson, Hervey C., M.D.
- Williamson, Mrs. G. DeWitt
 Willis, Reginald S.
 Willis, W. P.
 Williston, James R.
 Willstatter, A.
 Wilmerding, Lucius
 Wilmerding, Mrs. Lucius K.
 Wilner, Max
 Wilson, Alice R.
 Wilson,
 Rev. Andrew Chalmers
 Wilson, Edmund B.
 Wilson, Emily B.
 Wilson, Mrs. Henry B.
 Wilson, John E., M.D.
 Wilson, Orme, Jr.
 Wilson, R. Thornton
 Wilson, Thomas H.
 Wilson, Walter H.
 Wilson, W. J.
 Wilson, Wm. A., M. D.
 Wimbacher, Sigmund
 Wimpfheimer, Chas. A.
 Winchester, W. E.
 Wingate, Geo. W.
 Winkin, Mrs. John
 Winslow,
 Rear Admiral C. McR.
 Winslow,
 Thomas Scudder, M.D.
 Winston, Owen
 Winterrowd, Wm. H.
 Winthrop, Bronson
 Wise, Edmund E.
 Wise, S. J.
 Wise, Rev. Dr. Stephen S.
 Wisner, Miss E. H.
 Wisner, Percy
 Witbeck, Robt.
 Witherbee, Mrs. Frank S.
 Wittmann, Joseph
 Wobie, G. Arthur
 Woerishoffer, Mrs. Anna
 Woerz, F. W.
 Woglom, Wm. H., M.D.
 Wolf, Ralph
 Wolf, W. Irving
 Wolfe, Lee J.

Wolfe, Mrs. Wm. E.
 Wolff, Hermann H.
 Wolff, Mrs. Lewis S.
 Wolff, M.
 Wolf, Myron
 Wolfson, T.
 Wolkwitz, Sophie
 Woltge, Mary W.
 Wood, Arthur E.
 Wood, Edward R., Jr.
 Wood, Charles Axford
 Wood, Frederick H.
 Wood, Gilbert C.
 Wood, J. Walter
 Wood, Otis F.
 Wood, Miss Rosalind
 Wood, Mrs. Turnbull
 Wood, Willis B.
 Wood, Willis D.
 Wood, Mrs. Willis D.
 Wood, Wm. C.
 Woodcock, Robert G.
 Woodin, Mrs. C. R.
 Woodruff, James P.
 Woods, Carleton W.
 Woods, Edward A.
 Woodward, Mrs. George L.
 Woolley, Mrs. Park M.

Woolley, Scudder J., M.D.
 Worcester, Wilfred J.
 Workum, Fifield
 Wormser, Richard S.
 Wortmann, Martin
 Wracic, John
 Wray, Miss Julia
 Wrenn, George L.
 Wright, Alice I.
 Wright, Mrs. Arthur
 Wright, Richardson
 Wuppermann, Mrs. George
 Wurlitzer, Howard E.
 Wurlitzer, Raimund B.
 Wurzbürger, Mrs. Walter
 Wyatt, H. J.
 Wyckoff, W. W.
 Wyeth, Dr. Geo. A.
 Wylie, James A.

Yates, Roy T.
 Yawkey, Mrs. W. H.
 Yeiser, H. C., Jr.
 Yeisley, Rev. Dr. George C.
 Yeshivath Torah Vodaath
 Yorke, George M.
 Young, Mrs. A. Murray
 Young, Miss Annette
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 Russell, L. S.
 Rust, George A.
 Ryan, Paul M.
 Ryerson, Edward L., Jr.
 Ryman, C. P.

 Sabichi, G. C., M.D.
 Sadler, Sara F.
 Safford, Frederick Hollister
 Sailer, Joseph
 Salverda, A.
 Sampson, W. B.
 Sanborn, Mrs. William R.
 Sanchez, Louis A.
 Sandblad, A. G., M. D.
 Sanderson, Edmund L.
 Sandiford, Peter
 Sanford, B. S.
 Sanger, Mrs. George P.
 Sangree, Paul H.

 Santens, Jos. A.
 Sargent, Ara Nathaniel
 Sargent, Miss Laura
 Sarton, George, D. Sc.
 Sartori, Mrs. J. F.
 Satchell, Geo. E. H.
 Saunders, Mrs. E. J.
 Saunders, Frederick A.
 Saunders, W. E.
 Sayle, Mary
 Scace, Miss Ruth
 Scammel, Miss Audrey
 Scanlon, J. C.
 Schatz, Fredk.
 Schear, E. W. E.
 Scheffel, Earl Read
 Scheide, John H.
 Schellbach, Louis, 3d
 Scheuber, Mrs. Charles
 Schindler, A. D.
 Schively, Adeline F., Ph.D.
 Schively, Mary Alice, M.D.
 Schlesinger, James
 Schluederberg, C. G.
 Schmidt, B. M.
 Schmidt, Edward Wm.
 Schmidt, Harry B., M. D.
 Schmidt, Hubert
 Schmidt, Karl P.
 Schmidt, Louis H.
 Schmincke, Miss Irma
 Schmitz, J. A.
 Schmucker, S. C.
 Schneckenburger, M. G.
 Schoenthaler, Fred C.
 Schoettle, Ralph J.
 Scholl, Louis A., Jr.
 Schoonmaker, G. C.
 Schoonmaker, W. P.
 Schroeder, L. A., M.D.
 Schubring, E. J. B.
 Schuchert, Charles
 Schultz, Dr. Adolph H.
 Schulze, Lula May
 Schuneman, Charles
 Schunck, Miss Barbara
 Schwartz, G. A.
 Schwarz, Frank

 Schwarz, Hermann
 Scott, A. M.
 Scott, Flora Murray
 Scott, Frederick H.
 Scott, J. Bradley
 Scott, J. H.
 Scott, J. T.
 Scott, John Merrill
 Scott, Luther C.
 Scott, Oreon E.
 Scott, Dr. S. B.
 Scott, W. C.
 Scott, Wm. G.
 Scranton, B. H.
 Scudder, C. W.
 Seabury, C. W.
 Seale, Alvin
 Sears, Mrs. Francis B.
 Sears, Frederick E.
 Sears, Richard
 Seashore, C. E.
 Seeling, Mrs. Robert
 Sefton, Wilfred
 Sefve, Dr. Ivar
 Segerblom, Wilhelm
 Selby, Jack
 Selby, Mrs. Lillia C.
 Selden, George B.
 Sellen, Charles S.
 Sengstak, Theo.
 Sergi, Giuseppe
 Setchell, W. A.
 Severance, F. W.
 Severance, John L.
 Seward, Dr. F. W., Jr.
 Seward, Walter Merritt
 Sewell, Mrs. Ed.
 Sexton, Lee W.
 Sexton, William T.
 Shaeffer, Dr. Arthur H.
 Shahan, Edith F.
 Shaner, Ralph E.
 Shanklin, Eldridge M., M.D.
 Shanklin, R. C.
 Sharp, William B.
 Shattuck, Frederick C., M.D.
 Shaw, J. C.
 Shaw, Dr. J. Holbrook

- Shaw, Prof. William T.
 Shaw, Thos. B.
 Shea, C. Bernard
 Shedd, Solon
 Shelby, Oakley Mitchell
 Sheldon, George E.
 Sheldon, Mrs. J. M. Arms
 Sheldon, Miss Sara Palmer
 Shenon, P. J.
 Shepard, Roger B.
 Shepherd, Mrs. F. B.
 Sheppard, Carl
 Sherman, Arthur G.
 Sherman, Dr. Edward C.
 Shideler, W. H.
 Shimer, Hervey Woodburn
 Shipley School, The
 Shipton, Stewart
 Shiras, W. K.
 Shoemaker, Clarence R.
 Shook, G. A.
 Short, Wm.
 Shuckling, Theodore E.
 Shultz, W. O.
 Silliman, O. P.
 Simons, Mrs. Carrie L.
 Simons, W. C.
 Simonson, Roger A.
 Simpson, A. T.
 Simpson, Clarence
 Simpson, Claude DeWitt
 Simpson, Mrs. Mark L.
 Simpson, W. J.
 Simpson, Wm. N.
 Sinclair, Harry R.
 Singer, Mrs. John Vincent
 Singleton, Dr. A. O.
 Sisson, Willard C.
 Sjöström, Ivar L.
 Skerrett, W. H. W., Jr.
 Skillen, Joseph
 Skillern, Dr. Ross Hall
 Sklar, Samuel Barton
 Slater, H. N.
 Slocum, Frederick V.
 Slocum, George, M.D.
 Slocum, William H.
 Slonaker, Dr. J. Rollin
 Smale, Alverda K.
 Small, A. B.
 Small, Howard K.
 Smith, A. Marguerite
 Smith, Acheson
 Smith, Brockholst M.
 Smith, Charles C.
 Smith, Crawford L.
 Smith, Donald W.
 Smith, Dudley, M.D.
 Smith, Dudley W.
 Smith, Eugene R.
 Smith, Ezra H.
 Smith, F. M.
 Smith, F. Drexel
 Smith, Mrs. George C.
 Smith, Gertrude
 Smith, Dr. Harvey M.
 Smith, Hay Watson
 Smith, Henry T., D.D.S.
 Smith, Dr. Isabel F.
 Smith, J. H.
 Smith, J. Allan
 Smith, James B.
 Smith, M. J.
 Smith, Philip W., M.D.
 Smith, Roy H.
 Smith, Samuel W., Jr.
 Smith, Mrs. Wallis Craig
 Smith, Mrs. Wikoff
 Smither, Thomas M.
 Smyth, E. Graywood
 Snell, Francis Arnold
 Snelling, R. Paul
 Snow, Edgar M.
 Snowden, Alexander O., Jr.
 Snyder, Charles E.
 Snyder, Dr. F. D.
 Snyder, Harry
 Snyder, Harry R., Jr.
 Snyder, John W.
 Snyder, L. L.
 Sochis, Morris S.
 Sollas,
 Prof. W. J., D.Sc., F.R.S.
 Somers, L. H.
 Soule, Frank C.
 Southard, Geo. F.
 Southwick, Mrs. Eva A.
 Southwick, Mrs. Joseph
 Spalding, Eric
 Spalding, Irwin
 Spaulding, Harry B.
 Spaulding, Rolland H.
 Spaulding, Samuel S.
 Spearing, J. Zach.
 Speer, S. B. Dick
 Spencer, Elmer G.
 Spencer, G. J.
 Spencer, Henry Benning
 Spencer, John C., M.D.
 Spencer, Robert L.
 Sperlin, O. B.
 Sperry, George B.
 Spofford, Carl L.
 Sprague, A. A., 2d
 Sprague, Harry L.
 Sproul, Miss Cleona C.
 Spruance, Mrs. William C.
 Spurway, Dick
 Staebner, F. W.
 Stage, Charles W.
 Stainbrook, Dr. Merrill A.
 Stanier, C. Y.
 Stanley, Mrs. D. S.
 Stanley, E. B.
 Stanwick, Chas. A.
 Staples, Sarah Lois
 Starck, Taylor
 Stark, Gilbert M.
 Stark, Mary Louise
 Starks, Edwin C.
 Starr, Charles S.
 Statman, Ben. L.
 Stauffer, Clinton R.
 Stauffer, R. Eliot
 Stauff, J. Lauer
 Stebbins, Frederick A.
 Stehlin, H. G.
 Stein, Mrs. Julian S.
 Steinbach, José
 Steinberger, Chas.
 Stephan, John F.
 Stephan, Sol A.
 Stephan, Miss Wilhelmina P.
 Stephano, C. S.

- Stephenson, Lyle
 Sternberg, Charles H.
 Sternberg, Charles M.
 Sternberg, George F.
 Stevens, F. Paul
 Stevens, Mrs. Frederick Waeir
 Stevens, Gorham P.
 Stevens, Henry G.
 Stevens, J. P.
 Stevens, James C.
 Stevens, O. A.
 Stevens, Ogden
 Stevenson, Miss Mary E.
 Stevenson, Paul H., M.D.
 Stewart, Col. Cecil
 Stewart, Colin C., Ph.D.
 Stewart, Dr. D. A.
 Stewart, Miss Dorothy R.
 Stewart, G. R.
 Stewart, Hugh A.
 Steyermark, Julian A.
 Stieren, Edward, M. D.
 Stiles, Bertram E.
 Stiles, Richard J.
 Stimson, Florence Stocker
 Stingelin, Dr. Theodor
 Stoddard, Herbert L.
 Stoddard, Mrs. Jennie G.
 Stolba, Stanley
 Stoll, K. L., M.D.
 Stone, Miss Elisabeth W.
 Stone, Harry C.
 Stone, Harry H.
 Stone, Rev. Dr. James S.
 Stone, Leon Max
 Stork, C. W.
 Stork, G. F.
 Storrs, Lucius S.
 Stoughton, Clara B.
 Stout, F. W.
 Stowe, Franklin D. L.
 Straley, Prof. H. W., 3d
 Strandskov, Herluf H.
 Strattan, Mrs. George W.
 Straus, Aaron
 Streaker, George H.
 Streeter, Daniel W.
 Streever, F. S.
 Strohl, Mrs. Fry
 Struthers, M. S.
 Stuart, C. H.
 Stuart, Geo. H., 3d
 Stuart, W. M.
 Stubner, L. M.
 Stump, H. Arthur
 Sturges, Rush
 Sturgis, Milton G.
 Sturgis, S. Warren
 Sturtevant, Maj. Charles G.
 Sturtevant, R. S.
 Sudduth, W. H.
 Sugden, Arthur W.
 Sullivan, Mrs. R. J.
 Sulloway, Frank J.
 Suman, John R.
 Sumner, Dr. Chas. R.
 Sutherland, Miss Lucy
 Sutton, Will
 Suydam, H. W.
 Swabey, E. C.
 Swain, Howard T.
 Swain, Leslie E.
 Swain, W. Moseley
 Swan, Dr. Wm. D.
 Swann, Reginald Le Grand
 Swarth, Harry S.
 Swartz, E. G.
 Sweeney, Dr. Arthur
 Sweet, Henry N.
 Sweetser, Albert R.
 Swenson, Dr. Carl G.
 Swift, Carleton B.
 Swift, Mrs. G. F.
 Synnott, Thos. W.
 Taber, Frederic H.
 Tafel, Robert R.
 Taft, Mrs. Charles P., 2d
 Taft, Elihu B.
 Talbot, Miss Mignon
 Talbot, Nathan B.
 Tandy, Frank N.
 Tate, J. M., Jr.
 Taussig, Albert E., M. D.
 Taylor, C. Newbold
 Taylor, Mrs. E. A.
 Taylor, Lionel E.
 Taylor, Malcolm, Jr.
 Taylor, Marcia I.
 Taylor, Truman R.
 Taylor, Warner
 Taylor, Mrs. William Rivers
 Teare, Mrs. Daniel T.
 Tebbetts, Major Frank P.
 Tegland, Miss Nellie M.
 Tennent, David H.
 Tenny, Mark W.
 Terrell, Glanville
 Terry, Jay
 Terry, M. V.
 Terwilliger, Marion
 Test, Prof. Charles D.
 Tester, Allen C.
 Teyen, G. M. W.
 Thacher, Arthur
 Thatcher, Richard W.
 Thistlethwaite, Wm. J.
 Thomas, A. B.
 Thomas, Abram Owen
 Thomas, Edward S.
 Thomas, Elmslie Timbs
 Thomas, F. F., Jr.
 Thomas, L. Alvin
 Thomas, Miss Marion P.
 Thomas, Samuel Hinds
 Thomas, W. A.
 Thomasson, Nelson
 Thompson, A. W.
 Thompson, Albert A.
 Thompson, Ethan W.
 Thompson, F. P., M.D.
 Thompson, Miss Gretchen
 Thompson, Henry A.
 Thompson, Horace E.
 Thompson, Howard J.
 Thompson, John A.
 Thompson, John W.
 Thompson, Jos. S.
 Thomson, Elihu
 Thorndike, Mrs. John L.
 Thornton, Lewis H.
 Thoron, Benjamin W.
 Thorp, Joseph G.
 Thorson, Martin

Throop, Charles M.
 Thurston, Emory W.
 Thurston, James E.
 Thysell, John C.
 Tidd, Mrs. John N.
 Tilden, Louis Edward
 Tillinghast, Chas. F.
 Tillisch, Mary A.
 Timmins, George H.
 Tobin, Mrs. Daniel S.
 Todd, Edith B.
 Todd, James
 Todd, James Madison
 Todd, Dr. Joe H.
 Todd, L. M.
 Todd, Mabel Loomis
 Todd, Dr. T. Wingate
 Tolman, E. E.
 Tolman, Mrs. Martha W.
 Tompkins, Philip W.
 Tormey, Alfred J.
 Townsend, Charles W.
 Townsend, Mrs. David
 Townsend, Harrell
 Townsend, J. Barton
 Townsend, Wm. S.
 Townshend, Henry H.
 Treat, Fred A.
 Tredwell, John
 Trevelyan, Miss Joan
 Trotter, Wm. Henry
 Trowbridge, John M.
 Trufant, L. H., M.D.
 Trussell, Arthur J.
 Tryon, John W.
 Tschudy, Earl H.
 Tubbs, Frank Dean
 Tucker, Chas. Edward
 Tucker, Miss Mary
 Tufts, Leonard
 Tuller, Dr. Chas. S.
 Tullock, H. S.
 Tunks, Rev. Walter F.
 Turman, A. E.
 Turnbull, E. J.
 Turnbull, Mrs. Sarah A.
 Turner, Albert M.
 Turner, Chas. C.

Turner, Miss Hettie Reid
 Turner, Robert P.
 Turney, Dr. Omar A.
 Turrell, Loring W.
 Tuttle, Carlisle B.
 Tuttle, H. Emerson
 Tuveson, Nels A.
 Twombly, Gray H.
 Tyrode, Maurice V., M.D.
 Tyson, Carroll S., Jr.

Uihlein, Edgar J.
 Uihlein, Joseph E.
 Unger, Dr. John S.
 Upham, Elizabeth
 Upham, Isaac O.
 Upham, Mrs. Maude B.
 Upton, George, Jr.
 Urban, E. H.
 Urmston, J. K.
 Utter, Henry E., M.D.

Vail, Dr. Derrick T., Jr.
 Vail, Dr. Harris H.
 Vaillant, G. W.
 Valentine, Mrs. Grace E.
 Valteau, W. D.
 Van Amringe, Edwin V.
 Van Benschoten, John, Jr.
 Van Benthuyzen, Marian
 Van Denburgh, O. A., Jr.
 van der Horst, Dr. C. J.
 Van Devanter, Willis
 Van Deventer, C.
 Van Duzer, H. B.
 Van Epps, John Sminck
 van Houten, J.
 Van Hyning, T.
 van Oort, Prof. Dr. E. D.
 van Santvoord, Seymour
 Van Wagenen, Alfred
 Van Wart, R. M.
 Van Winkle, Dr. J. O.
 Van Wyk,
 Albert Erasmus Lambrechts
 Vaughan, Samuel
 Vaughn, R. G.
 Veeder, Curtis H.

Verner, M. S.
 Versluys, Prof. Dr. J.
 Vestal, A. G.
 Vevers, Dr. G. M.
 Vial, Mrs. George M.
 Vibert, Charles W.
 Vick, Albert F. W.
 Vickery, Mrs. H. F.
 Vincent, Bishop Boyd
 Vissering, Harry
 Vogel, Felix A.
 Voigtlander, George
 von Ditten,
 Miss Erika Wülfing
 von Geldern, Chas. E., M.D.
 Vonnegut, Richard
 Vonsen, M.
 von Vietinghoff, Dr. Karl
 Vorhies, Chas. T.
 Vorkink, Mrs. I.

Wadsworth, Samuel
 Wadsworth,
 Samuel F., M.D.V.
 Wagner, Hayden W.
 Wagner, John H., Jr.
 Wagner, Samuel Tobias
 Waite, Miss Emily S. M.
 Waitt, Mrs. Clara Farmer
 Walcutt, Mrs. H. L.
 Waldo, Edward H.
 Waldon, Sidney D.
 Waldron, C. H.
 Waldron, L. R.
 Walker, Elda R.
 Walker, Harrington E.
 Walker, Hiram H.
 Walker, Joseph R.
 Walker, Mrs. R. A.
 Walker, Talbot C.
 Walker, Thaddeus
 Wall, Ashbel T.
 Wallace, Mrs. E. G.
 Wallace, Miss Enid
 Wallace, Herbert I.
 Wallace, Lindsay H.
 Wallace, Oliver A.
 Wallace, W. L., M.D.

- Wallace, W. W.
 Wallace, Wm.
 Wallon, Augustus L.
 Walsh, Dr. Groesbeck F.
 Walsh, Maurice N.
 Walters, L.L.
 Walton, Geo. W.
 Walton, W. J.
 Wampler, F. C.
 Wanzer, W. G.
 Ward, Frank Hawley
 Ward, Rowland
 Warner, Mrs. I. De Ver
 Warner, Walter
 Warren, Bentley W.
 Warren, Fiske
 Warren, Frank M.
 Warren, George C.
 Warren, Mrs. Wm. C.
 Warriner, J. B.
 Washburn, C. Fred
 Washburne, A. C.
 Watkins, Charles G.
 Watkins, Edgar
 Watkins, Frances E.
 Watres, Col. L. A.
 Watson, Edward H.
 Watson, Lucretia S.
 Watson, Thomas A.
 Watson, W. O.
 Wayman, W. O.
 Wayne, Arthur T.
 Weare, Mrs. Ely E.
 Webb, Mrs. A.
 Webb, Gerald B., Jr.
 Webb, Lewis M.
 Webb, Roscoe J.
 Webb, Walter F.
 Webber, Frank
 Weber, Miss Grete
 Weber, Louis
 Webster, Dr. Ralph W.
 Webster, Lieut. Wm. W.
 Weed, Louis H.
 Weeks, Alanson
 Weeks, Carl
 Weeks, F. Milton
 Weeks, Sinclair
 Wehrle, Augustine T.
 Weil, Leslie
 Weis, Dr. Joseph D.
 Weis, Samuel W.
 Weisman, M.
 Weiss, Albert P.
 Weiss, Edward I.
 Welch, Andrew
 Welch, Ashbel
 Welch, Chas. W.
 Welch, H. K. W.
 Welch, J. M.
 Weld, Rev. George F.
 Weller, Carl V.
 Welles, Mrs. Edward
 Welles, Robert
 Welling, John P.
 Wellington, Roger Underwood
 Wells, Capt. Chester, U.S.N.
 Wells, Daniel D.
 Wells, Geo. B.
 Welsh, Herbert Frazer
 Welsh, Robert F.
 Welton, Nellie M.
 Wenner, Geo. D.
 Wenrich, Marion
 Wentworth, Frank W.
 Wenzel, Edward
 Wernigk, Dr. R.
 Wertheimber, A.
 West, Benjamin
 West, Dr. Frederic Beall
 Westbrook, Stillman F.
 Westcott, W. R.
 Westgate, Lewis G.
 Wetherill, Richard
 Wetherill, Richard B., M.D.
 Wetherill, Wm. Chattin
 Wetmore, Monroe B.
 Whaley, Mrs. Jeanie N.
 Whalley, Miss Muriel E.
 Wheeler, Charles
 Wheeler, Miss Clara
 Wheeler, Deming
 Wheeler, James W.
 Wheeler, Joseph L.
 Wheeler, Nathaniel E.
 Wheeler, Mrs. Samuel H.
 Wheeler, William H., 2d
 Wheelwright, Miss Mary C.
 Whelan, Ralph
 Whelden, Roy M.
 Wherry, Wm B.
 Whitaker, F. B.
 Whitby, Eddy
 White, Alain C.
 White, Andrew S.
 White, Mrs. Charles F.
 White, Dr. Charles J.
 White, Dr. E. Grace
 White, Eric P.
 White, James C., M.D.
 White, Dr. Joseph A.
 White, Philip T.
 White, Ralston
 White, Wm. B.
 White, Wm. Henry
 White, Windsor T.
 Whitehead, Ralph Radcliffe
 Whiting, Adrian P.
 Whiting, F. A.
 Whiting, Mrs. James R.
 Whiting, Mrs. Samuel R.
 Whiting, Willard C.
 Whitman, Gerald
 Whitman, Hendricks H.
 Whittall, Harold O.
 Whitney, C. W.
 Whitney, David C.
 Whitney, Frederick A.
 Whitney, Frederick M.
 Whitney, Mrs. Harwood Otis
 Whitney, Oscar C.
 Whitney, Willis R.
 Whittle, W. O.
 Whitwell, Frederick S.
 Why, Evelyn T.
 Wick, Laura
 Wickersham, James
 Wier, Jeanne Eliz.
 Wiesen, Thomas F.
 Wiggin, Frank B.
 Wilberding, J. B.
 Wilcox, Claude S.
 Wilcox, Edwin J.
 Wilcox, Walter D.

- Wilder, Gerrit P.
 Wilder, Harris H.
 Wilder, S. H.
 Wiley, Lena C.
 Wilharm, Fred C.
 Wilkinson, A. H.
 Wilkinson, Mrs. Henry L.
 Will, Burns
 Will, George F.
 Will, Louis
 Willard, Dr. Bradford
 Willard, Frank C.
 Willcox, Prof. Mary A.
 Willetts, Ernest W., M.D.
 Willey, Arthur
 Willey, Gordon F., M.D.
 Williams, Amory L.
 Williams, Mrs. C. S.
 Williams, David W.
 Williams, Prof. Edw. H., Jr.
 Williams, Ellison A.
 Williams, Francis H.
 Williams, Mrs. George R.
 Williams, Mrs. Geoffrey
 Williams, Henry P.
 Williams, Dr. Herbert U.
 Williams, Ira A.
 Williams, Mrs. J. Bertram
 Williams, Morley P.
 Williams, Richard E.
 Williams, Roger B.
 Williams, S. P., Jr.
 Williams, Wentworth
 Williamson, E. B.
 Willing, Richard L.
 Willison, Mrs. Robert Dagg
 Williston, Miss Ruth
 Willits, Dr. I. Pearson
 Willock, J. Scott
 Willoughby, David P.
 Wilson, A. I. V.
 Wilson, Andrés M.
 Wilson, Charles Branch
 Wilson, Mrs. Charles M.
 Wilson, Mrs. Etta S.
 Wilson, H. E.
 Wilson, Dr. J. Howard
 Wilson, Dr. John A.
 Wilson, Mrs. Lydia M.
 Wilson, Mountford S.
 Wilson, Robert, Jr., M.D.
 Wilson, Russell C.
 Wimer, Geo. N.
 Windle, Ernest
 Winkler, Albert J.
 Winn, Herbert J.
 Winne, Dr. Charles K., Jr.
 Winslow, Floyd S., M.D.
 Winslow, Winthrop C.
 Winstanley, J. B.
 Winston, William O.
 Winter, Dwight
 Wislocki, George B., M.D.
 Witcher, William
 Witherell, Percy W.
 Wolcott, E. R.
 Wolfe, Edmund S.
 Wolverton, B. C.
 Wood, Harry W.
 Wood, Walter
 Woodford, R. H.
 Woodring, Wendell P.
 Woodruff, Mrs. Charles Albert
 Woods, Robert S.
 Woodward, Lemuel Fox
 Woodward, Ralph
 Woodwell, John
 Woolman, Henry N., Jr.
 Wooster, L. C.
 Worcester, H. A.
 Workman, W. H.
 Wright, A. B.
 Wright, Albert Hazen
 Wright, Mrs. Eva Edgar
 Wright, Gifford K.
 Wright, John S.
 Wright, Thew
 Wuerpel, Edmund H.
 Wülfing, Otto
 Wülfing, Peter
 Wullen, Mrs. Hilda H.
 Wunderle, Horace G., Jr.
 Wurlitzer, Rembert
 Wurm, Fred, Jr.
 Wurtzel, Joseph
 Wyatt, Grace
 Wyer, Samuel S.
 Wylde, Henry Anson
 Wynn, Henry G.
 Yanagida, Hikoji
 Yang, C. C.
 Yarnall, Charlton
 Yerkes, Robert M.
 Yocom, Ernest G.
 Yont, Laurence D.
 York, George W.
 York, Howell
 York, Philip S.
 Young, Henrietta N.
 Younger, C. H.
 Zachary, Alvin D.
 Zapffe, Carl
 Zentmyer, Anna Mc.
 Zetek, James
 Zinkin, Frances R.
 Zinsmeister,
 Mrs. Elsie Ahrens
 Zuno, José J.

VI. MUNICIPAL AND STATE RELATIONSHIP

INCORPORATION, CHARTER AND CONTRACT

AN ACT

TO INCORPORATE

THE AMERICAN MUSEUM OF NATURAL HISTORY

Passed April 6, 1869

The People of the State of New York, represented in Senate and Assembly, do enact as follows:

SECTION 1. John David Wolfe, Robert Colgate, Benjamin H. Field, Robert L. Stuart, Adrian Iselin, Benjamin B. Sherman, William A. Haines, Theodore Roosevelt, Howard Potter, William T. Blodgett, Morris K. Jesup, D. Jackson Steward, J. Pierpont Morgan, A. G. P. Dodge, Chas. A. Dana, Joseph H. Choate and Henry Parish, and such persons as may hereafter become members of the Corporation hereby created, are hereby created a body corporate, by the name of "The American Museum of Natural History," to be located in the City of New York, for the purpose of establishing and maintaining in said city a Museum and Library of Natural History; of encouraging and developing the study of Natural Science; of advancing the general knowledge of kindred subjects, and to that end of furnishing popular instruction.*

SEC. 2. Said Corporation shall have power to make and adopt a Constitution and By-Laws, and to make rules and regulations for the admission, suspension and expulsion of its members, and their government, the number and election of its officers, and to define their duties, and for the safekeeping of its property, and, from time to time, to alter and modify such Constitution, By-Laws, Rules and Regulations. Until an election shall be held pursuant to such Constitution and By-Laws, the persons named in the first section of this Act shall be, and are hereby declared to be, the Trustees and Managers of said Corporation and its property.

SEC. 3. Said Corporation may take and hold by gift, devise, bequest, purchase or lease, either absolutely or in trust, for any purpose comprised in the objects of the Corporation, any real or personal estate, necessary or proper for the purposes of its incorporation.†

SEC. 4. Said Corporation shall possess the general powers, and be subject to the restrictions and liabilities, prescribed in the Third Title of the Eighteenth Chapter of the First Part of the Revised Statutes, and shall be and be classed as an educational corporation.*

SEC. 5. This Act shall take effect immediately.

STATE OF NEW YORK, }
OFFICE OF THE SECRETARY OF STATE, } ss.:

I have compared the preceding with the original law on file in this office, and do hereby certify that the same is a correct transcript therefrom, and of the whole of said original law.

[L. S.] Given under my hand and seal of Office at the City
 of Albany this fourteenth day of April, in the
 year one thousand eight hundred and sixty-nine.
 D. WILLERS, JR., *Deputy Secretary of State.*

*Sections 1 and 4. As amended by Chapter 162 of the Laws of 1909, entitled "An Act to amend chapter one hundred and nineteen of the laws of eighteen hundred and sixty-nine, entitled 'An Act to incorporate the American Museum of Natural History,' in relation to classifying said corporation and modifying its corporate purposes."

†Section 3. As amended by Chapter 303, Laws of 1898, of the State of New York, entitled "An Act to amend chapter one hundred and nineteen, laws of eighteen hundred and sixty-nine, entitled 'An Act to incorporate the American Museum of Natural History,' relative to its charter."

**BOND ISSUES FOR THE CONSTRUCTION AND EQUIPMENT
OF THE AMERICAN MUSEUM OF NATURAL HISTORY**

LEGAL ENACTMENTS OF 1921

BY THE LEGISLATURE

CHAPTER 618

AN ACT to amend the Greater New York Charter, in relation to
use of the proceeds of bond issues.

Became a law May 6, 1921, with the approval of the Governor.

ACCEPTED BY THE CITY

*The People of the State of New York, represented in Senate
and Assembly, do enact as follows:*

SECTION 1. Subdivision nine of section one hundred and
sixty-nine of the Greater New York charter, as re-enacted by
chapter four hundred and sixty-six of the laws of nineteen hun-
dred and one, and last amended by chapter nine hundred and
sixty of the laws of nineteen hundred and twenty, is hereby
amended to read as follows:

9. *****

The city of New York shall not, except as hereinafter pro-
vided, expend any part of the proceeds of sales of corporate
stock or serial bonds for other than revenue-producing improve-
ments, except for the erection of school buildings and the acqui-
sition of sites therefor and the acquisition of houses for school
purposes, and except for the erection and equipment of the
buildings of the American Museum of Natural History which by
charter and contract with the city is an adjunct of the educa-
tional system of the city,****

§2. This act shall take effect immediately.

STATE OF NEW YORK, }
OFFICE OF THE SECRETARY OF STATE, } ss.:

I have compared the preceding with the original law on file in this office,
and do hereby certify that the same is a correct transcript therefrom, and
of the whole of said original law.

Given under my hand and the seal of office of the Secre-
tary of State, at the City of Albany, this twenty-fifth
day of May in the year one thousand nine hundred
and twenty-one.

[SEAL]

C. W. TAFT, *Second Deputy Secretary of State.*

**CONTRACT WITH THE DEPARTMENT OF PARKS
FOR THE OCCUPATION OF THE NEW BUILDING**

THIS AGREEMENT, made and concluded on the twenty-second day of December, in the year one thousand eight hundred and seventy-seven, between the DEPARTMENT OF PUBLIC PARKS OF THE CITY OF NEW YORK, the party of the first part, and the AMERICAN MUSEUM OF NATURAL HISTORY, party of the second part, witnesseth:

Whereas, by an Act of the Legislature of the State of New York, passed April 22d, 1876, entitled "An Act in relation to the powers and duties of the Board of Commissioners of the Department of Public Parks, in connection with the American Museum of Natural History, and the Metropolitan Museum of Art," the said party of the first part is authorized and directed to enter into a contract with the said party of the second part, for the occupation by it of the buildings erected or to be erected on that portion of the Central Park in the City of New York, known as Manhattan Square, and for transferring thereto and establishing and maintaining therein its museum, library and collections, and carrying out the objects and purposes of said party of the second part; and,

Whereas, a building contemplated by said act has now been erected and nearly completed and equipped in a manner suitable for the purposes of said Museum, as provided in the first section of the Act of May 15, 1875, known as Chapter 351, of the Laws of 1875, for the purpose of establishing and maintaining therein the said Museum, as provided by the said last named act, and by the Act of April 5, 1871, known as Chapter 290, of the Laws of 1871; and,

Whereas, it is desired as well by the said party of the first part, as by the said party of the second part, that, immediately upon the completion and equipment of said building, the said party of the second part should be established therein, and should transfer thereto its museum, library and collections, and carry out the objects and purposes of the said party of the second part;

Now, therefore, it is agreed by and between the said parties as follows, namely:

First.—That the said party of the first part has granted and demised and let, and doth, by these presents, grant, demise and let, unto the said party of the second part, the said buildings and the appurtenances thereunto belonging, to have and to hold the same so long as the said party of the second part shall continue to carry out the objects and purposes defined in its charter; or such other objects and purposes as by any future amendment of said charter may be authorized; and shall faithfully keep, perform, and observe the covenants and conditions herein contained on its part to be kept, performed and observed, or until the said building shall be surrendered by the said party of the second part, as hereinafter provided.

Secondly.—That neither the party of the first part, its successor or successors, nor the Mayor, Aldermen and Commonalty of the City of New York, shall be in any manner chargeable or liable for the preservation of the said building or the property of the party of the second part which may be placed therein, against fire, or for any damage or injury that may be caused by fire to the said property; but it is agreed that, damages as aforesaid excepted, the said party of the first part will keep said building, from time to time, in repair.

Thirdly.—That as soon after the completion and equipment of said building as practicable, said party of the second part shall transfer to, and place and arrange in said building, its museum, library and collections, or such portion thereof as can be properly displayed to the public therein, and shall have and enjoy the exclusive use of the whole of said building, subject to the provisions herein contained, and the rules and regulations herein prescribed, during the continuance of the term granted, or until a surrender thereof, as herein provided.

Fourthly.—That the exhibition halls of said building shall, on Wednesday, Thursday, Friday and Saturday of each week, and on all legal or public holidays, except Sundays, be kept open and accessible to the public, free of charge, from nine o'clock A. M. until half an hour before sunset, under such rules and regulations as the party of the second part shall from time to time

prescribe; but on the remaining days of the week the same shall be only open for exhibition to such persons, upon such terms as the said party of the second part shall from time to time direct. But all professors and teachers of the public schools of the City of New York, or other institutions of learning in said city, in which instruction is given free of charge, shall be admitted to all the advantages afforded by the said party of the second part, through its museum, library, apparatus, and collections, or otherwise, for study, research and investigation, free of any charge therefor, and to the same extent and on the same terms and conditions as any other persons are admitted to such advantages, as aforesaid.

Fifthly.—That the museum, library and collections, and all other property of said party of the second part, which shall or may be placed in said building, shall continue to be and remain absolutely the property of said party of the second part, and neither the said party of the first part nor the said the Mayor, Aldermen and Commonalty, shall by reason of said property being placed in said building, or continuing therein, have any right, title, property or interest therein; nor shall the said party of the second part, by reason of its occupation and use of said building under this agreement, acquire, or be deemed to have any right, title, property or interest in said building, except so far as expressly granted by this agreement.

Sixthly.—That the said party of the second part shall, on or before the first day of May, in every year, during the continuance of this agreement, submit to the said party of the first part, its successor or successors, a detailed printed report of the operations and transactions of the said party of the second part, and all its receipts and payments, for the year ending with the 31st day of December next preceding.

Seventhly.—That said party of the first part shall have, at all times, access to every part of the said building for general visitation and supervision, and also for the purpose of the performance of the duties devolved upon it by the laws of the State of New York, or of the City of New York. That the police powers and supervision of said party of the first part shall extend in, through and about said building. That the said party of the

second part may appoint, direct, control and remove all persons employed within said building, and in and about the care of said building, and the museum, library and collections therein contained.

Eighthly.—That said party of the second part may, at any time, after the expiration of three, and before the expiration of six, months from the date of the service of a notice in writing to said party of the first part, its successor or successors, or to the Mayor of the City of New York, of its intention so to do, quit and surrender the said premises and remove all its property therefrom; and upon and after such notice, the said party of the second part shall and will, at the expiration of the said six months, quietly and peaceably yield up and surrender unto the said party of the first part and its successors all and singular the aforesaid demised premises. And it is expressly understood and agreed by and between the parties hereto that if the said party of the second part shall omit to do, perform, fulfill or keep any or either of the covenants, articles, clauses and agreements, matters and things herein contained, which on its part are to be done, performed, fulfilled or kept, according to the true intent and meaning of these presents, then and from thenceforth this grant and demise shall be utterly null and void. And in such case it shall and may be lawful for said Department to serve or cause to be served on the said party of the second part a notice in writing declaring that the said grant hereinbefore made has become utterly null and void and thereupon the said party of the first part, its successor or successors (ninety days' time being first given to the said party of the second part to remove its property therefrom), may reënter, and shall again have, repossess and enjoy the premises aforementioned, the same as in their first and former estate, and in like manner as though these presents had never been made, without let or hindrance of the said party of the second part, anything here contained to the contrary notwithstanding.

Ninthly.—And it is further expressly understood and agreed, by and between the parties hereto, that this agreement may be wholly canceled and annulled, or, from time to time, altered, or modified, as may be agreed, in writing, between the said par-

ties, or their successors, anything herein contained to the contrary in any wise notwithstanding.

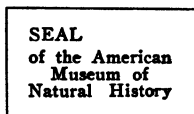
In witness whereof, the party of the first part hath caused this agreement to be executed by their President and Secretary, pursuant to a resolution of the Board of Commissioners of said Department, adopted at a meeting held on the thirtieth day of January, in the year of our Lord one thousand eight hundred and seventy-eight; and the said party of the second part hath caused the same to be executed by their President, and their official seal affixed thereto, pursuant to a resolution of the Trustees of the American Museum of Natural History, adopted at a meeting held on the twelfth day of February, in the year of our Lord one thousand eight hundred and seventy-seven.

In presence of
D. PORTER LORD.

JAMES F. WENMAN,
*President Department of Public Parks
of the City of New York.*

WILLIAM IRWIN,
*Secretary Department of Public Parks
of the City of New York.*

ROBERT L. STUART,
*President American Museum of
Natural History.*



STATE OF NEW YORK, }
CITY AND COUNTY OF NEW YORK, } ss.:

On this 12th day of February, in the year 1878, before me personally came James F. Wenman, President of the Department of Public Parks of the City of New York, and William Irwin, Secretary of the said Department of Public Parks, with both of whom I am personally acquainted, and both of whom being by me duly sworn, said that they reside in the City and County of New York; that the said James F. Wenman is the President, and the said William Irwin is the Secretary of the said Department of Public Parks, and that they signed their names to the foregoing agreement by order of the Board of Commissioners of the said Department of Public Parks, as such President and Secretary.

[SEAL.]

W. C. BESSON,
(73) *Notary Public N. Y. Co.*

STATE OF NEW YORK, }
CITY AND COUNTY OF NEW YORK, } ss.:

On this 12th day of February, in the year 1878, before me personally came Robert L. Stuart, the President of the American Museum of Natural History, with whom I am personally acquainted, who being by me duly sworn, said that he resides in the City and County of New York, that he is the President of the American Museum of Natural History, and that he knows the corporate seal of said museum, that the seal affixed to the foregoing agreement is such corporate seal, that it is affixed thereto by order of the Board of Trustees of said American Museum of Natural History, and that he signed his name thereto by the like order, as President of said Museum.

[SEAL.]

W. C. BESSON,
(73) Notary Public N. Y. Co.

Recorded in the office of the Register of the City and County of New York in Liber 1426 of Cons., page 402, February 16, A. D. 1878, at 9 o'clock A. M., and examined.

Witness my hand and official seal,

[SEAL.]

FREDERICK W. LOEW,
Register.

NOTE.—July 25, 1892, by consent of the Trustees, section fourth was modified to enable the Trustees to open the Museum free to the public "throughout the year, excepting Mondays, but including Sunday afternoons and two evenings of each week."
June 29, 1893, by consent of the Trustees, section fourth was modified to enable the Trustees to open the Museum free of charge to the public "throughout the year for five days in each week, one of which shall be Sunday afternoon, and also two evenings of each week."

CONSTITUTION
OF THE
AMERICAN MUSEUM OF NATURAL HISTORY
IN THE CITY OF NEW YORK

REVISED AND AMENDED TO DECEMBER 31, 1927

ARTICLE I

This Corporation shall be styled **THE AMERICAN MUSEUM OF NATURAL HISTORY**.

ARTICLE II

The several persons named in the charter, and such others as they may add to their number, which shall not exceed thirty in all at one time, and in addition, the Mayor, the Comptroller, and the President of the Department of Public Parks, of the City of New York, for the time being, *ex-officio*, shall be the Trustees to manage the affairs, property and business of the Corporation.

The elective members of the Board in office on November 23rd, 1925, shall hold their office until the expiration of their respective terms. Such elective members of the Board shall continue to be divided into five classes, which hereafter shall consist of six members each, to serve for five years after the election of each class respectively. The Board of Trustees at each annual meeting hereafter, or at an adjournment thereof, shall by ballot, by a majority vote of the Trustees present at the meeting, elect six Trustees to supply the places of the class whose term expires at that meeting; said newly elected Trustees to hold office for five years and until their successors are elected. In case of a vacancy in the Board, caused by death, resignation, disqualification, increase in the authorized number of Trustees or otherwise, the vacancy shall be filled by ballot, in like manner, by the Board of Trustees at any regular or special meeting, for the unexpired term. A trustee elected to fill a vacancy in a particular class shall hold office only until the expiration of the terms of such Trustees as originally composed such class. No person shall be eligible for election as Trustee unless his name shall be presented by the Nominating Committee at a regular or special meeting of

the Board previous to the meeting at which his name shall be acted upon. Written notice of such election and the vacancy to be filled shall be sent to the Trustees at least one week prior to said meeting.

ARTICLE III

The Trustees shall meet regularly, on the first Monday after the second day of every January, on the first Monday of May, and on the second Monday of November, at an hour and place to be designated, on at least one week's written notice from the Secretary, and shall annually, at the regular meeting in January, elect the officers and committees for the ensuing year. They shall also meet at any other time to transact special business on a call of the Secretary, who shall issue such call whenever requested so to do, in writing, by five Trustees, or by the President, and give written notice to each Trustee of such special meeting, and of the object thereof, at least three days before the meeting is held.

ARTICLE IV

SECTION 1. The officers of said Corporation shall be a President, a First Vice-President, a Second Vice-President, a Treasurer and a Secretary, who shall be elected from among the Trustees. These officers shall be elected by ballot, and the persons having a majority of the votes cast shall be deemed duly elected. They shall hold their offices for one year or until their successors shall be elected.

SEC. 2. The Board of Trustees shall appoint each year, in such manner as it may direct, the following Standing Committees: an Executive Committee, an Auditing Committee, a Finance Committee and a Nominating Committee. These Committees are all to be elected from the Trustees, and the members shall hold office for one year or until their successors shall be elected.

The Board of Trustees shall also have authority to appoint such other committees or officers as they may at any time deem desirable, and to delegate to them such powers as may be necessary.

The Board of Trustees shall have power to appoint a Director who, acting under the authority and control of the President,

shall be the chief administrative officer of the Museum; but shall not be a member of the Board. He shall hold office during the pleasure of the Board.

ARTICLE V

SECTION 1. The President shall have the general supervision, direction and control of the affairs of the Corporation, and shall preside at all the meetings of the Museum and of the Trustees. In his absence or inability to act, the First or Second Vice-President shall act in his place, or in the absence of these officers, a Trustee appointed by the Executive Committee.

SEC. 2. The Secretary shall be present, unless otherwise ordered by the Board, at all the meetings of the Museum and Trustees, of the Executive Committee and such other Committees as the Board may direct. He shall keep a careful record of the proceedings of such meetings, shall preserve the seal, archives and correspondence of the Museum, shall issue notices for all meetings of the Trustees and various committees, and shall perform such other duties as the Board may direct.

The Board of Trustees shall have power to appoint an Assistant Secretary, who, under its direction, shall perform the duties of the Secretary in his absence or inability to act. The Assistant Secretary shall be an administrative officer of the Museum and shall act under the direction of the President or the Secretary. He shall hold office during the pleasure of the Board.

SEC. 3. The Treasurer shall receive and disburse the funds of the Museum. He shall report in writing, at each regular meeting of the Trustees, the balance of money on hand, and the outstanding obligations of the Museum, as far as practicable; and shall make a full report at the annual meeting of the receipts and disbursements of the past year, with such suggestions as to the financial management of the Museum as he may deem proper.

The Board of Trustees shall have power to appoint an Assistant Treasurer, who shall perform such duties as it may direct, and who shall hold office during its pleasure.

SEC. 4. The accounts of the Museum shall be kept at the General Office, in books belonging to it, which shall at all times be open to the inspection of the Trustees.

ARTICLE VI

The Executive Committee shall consist of nine Trustees, the President, the Secretary and the Treasurer *ex-officio* and six others, to be appointed each year in the manner provided in Article IV. They shall have the control and regulation of the collections, library and other property of the Museum; and shall have power generally to conduct the business of the Museum, subject to the approval of the Board. Five members of the Committee shall constitute a quorum for the transaction of business.

ARTICLE VII

The Auditing Committee shall consist of three Trustees. They shall have the books of the Museum duly audited, at least once in six months, by an authorized public accountant to be selected by them.

ARTICLE VIII

The Finance Committee shall consist of five Trustees, the Treasurer *ex-officio* and four others to be elected each year in the manner provided in Article IV. They shall have general charge of the moneys and securities of the Endowment and other permanent funds of the Museum, and such real estate as may become the property of the Corporation, with authority to invest, sell and reinvest the same, subject to the approval of the Board of Trustees.

Three members shall constitute a quorum.

ARTICLE IX

The Nominating Committee shall be composed of three Trustees, to whom shall be first submitted the names of any persons proposed as candidates for election to membership in the Board of Trustees. The Committee shall report on such candidates from time to time, as it may deem to be for the interest of the Museum. A fortnight before the annual meeting they shall prepare and mail to each member of the Board of Trustees a list of

the candidates for officers and Trustees to be balloted for at the said meeting.

ARTICLE X

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

ARTICLE XI

By-Laws may be made from time to time by the Trustees providing for the care and management of the property of the Corporation and for the government of its affairs, and may be amended at any meeting of the Trustees by a vote of a majority of those present, after a month's notice in writing of such proposed amendment.

ARTICLE XII

The incorporators of The American Museum of Natural History shall be designated as Founders of the Museum.

Any person contributing or devising \$100,000 in cash, securities or property to the funds of the Museum may be elected a Member of the Endowment Class of the Museum.

Any person contributing or devising \$50,000 in cash, securities or property to the funds of the Museum may be elected a Benefactor of the Museum.

Any person contributing \$25,000 in cash, securities or property to the funds of the Museum may be elected an Associate Founder of the Museum who after being so elected shall have the right in perpetuity to appoint the successor in such associate foundership.

Any person contributing \$10,000 to the funds of the Museum may be elected an Associate Benefactor of the Museum, who after being so elected shall have the right in perpetuity to appoint the successor in such associate benefactorship.

Any person contributing \$1,000 to the funds of the Museum, at one time, may be elected a Patron of the Museum, who after

being so elected shall have the right in perpetuity to appoint the successor in such patronship.

Any person contributing \$500 to the funds of the Museum, at one time, may be elected a Fellow of the Museum, who after being so elected shall have the right to appoint one successor in such fellowship.

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

Any person contributing \$200 to the funds of the Museum, at one time, may be elected a Life Member of the Museum.

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

ARTICLE XIII

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

ARTICLE XIV

No alterations shall be made in this Constitution, unless at a regular meeting of the Trustees, or at a special meeting called for this purpose; nor by the votes of less than a majority of all the Trustees; nor without notice in writing of the proposed alterations, embodying the amendment proposed to be made, having been given at a previous regular meeting.

BY-LAWS
REVISED AND AMENDED TO DECEMBER 31, 1927

I

If any Trustee shall accept a salary from this Corporation he shall thereby be disqualified for the time being from acting as a Trustee thereof; provided, that the Board of Trustees shall have power to suspend the operation of this law in any special case.

II

Any vacancies occurring in the membership of the several committees during the interval between the regular meetings of the Board of Trustees may be filled at a regular meeting of the Executive Committee, until the next meeting of the Board.

III

The regular meetings of the Executive Committee shall be held on the third Wednesday of each month, but special meetings may be held at any other time on a two days' call issued by order of the President, or at the request of three of its members.

IV

All gifts, bequests, legacies or devises, not directed to be devoted to some special purpose, and all receipts from Members of the Endowment Class, Benefactors, Associate Founders and Associate Benefactors, shall be applied to the Permanent Endowment Fund. Receipts from Patrons, Fellows and Life Members, shall be applied either to the Permanent Endowment Fund, or to current expenses, as the Board of Trustees, or the Executive Committee, shall, from time to time, direct. All other dues shall be applied to current income.

V

SECTION 1. No indebtedness (other than for current expenses) shall be incurred by any committee, officer or employee of the Museum, except as provided for in the Constitution.

SEC. 2. No bills shall be paid unless approved by the Director or the Executive Secretary, and countersigned by one

of the following named Trustees: President, First Vice-President, Second Vice-President, or Treasurer.

SEC. 3. The accounts of the Museum shall be under the care of a Bursar, who, on recommendation of the President and the Treasurer, shall be appointed by the Board of Trustees and be under its direction. He shall give such bonds for the faithful performance of his duties as the Board may direct, and shall hold office during the pleasure of the Board. The Bursar, acting under the direction of the President or Treasurer, shall be the official representative of the Treasurer at the Museum, and as such shall be the head of the Treasurer's office there.

VI

The Board of Trustees shall have power to appoint, on recommendation of the Director, a Superintendent of Building and such other officers as may be deemed necessary, who, acting under the instruction of the Director or the Executive Secretary, shall have charge of the construction, maintenance, alterations and repairs of the buildings, and shall be responsible for their sanitary condition. They shall hold office during the pleasure of the Board.

VII

The Board of Trustees shall have power to appoint a Registrar, who, acting under the instruction of the Director or Executive Secretary, shall inspect all incoming and outgoing shipments, and shall attend to the details of matters relating to customs.

VIII

Benefactors, giving \$50,000, are each entitled to 1 Subscriber's Ticket, 10 Complimentary Season Tickets and 10 Tickets for a single admission.

Associate Benefactors, giving \$10,000, are each entitled to 1 Subscriber's Ticket, 10 Complimentary Season Tickets and 10 Tickets for a single admission.

Patrons, giving \$1,000, are each entitled to 1 Subscriber's Ticket, 5 Complimentary Season Tickets and 10 Tickets for a single admission.

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

Life Members, giving \$200, are each entitled to 1 Subscriber's Ticket and 7 Tickets for a single admission.

Sustaining Members, paying \$25 yearly, are each entitled to 1 Subscriber's Ticket and 5 Tickets for a single admission.

Annual Members, paying \$10 yearly, are each entitled to 1 Subscriber's Ticket and 4 Tickets for a single admission.

Associate Members, paying \$3.00 yearly, are each entitled to 1 Subscriber's Ticket, admitting to the Members' Room, and 2 Tickets for a single admission; also to current copies of the Museum Journal and the Annual Report.

IX

The Board of Trustee hereby creates a class of honorary Members, without membership fee, to be designated as Corresponding Members. Upon recommendation of the Scientific Staff, any person interested in or actively engaged in scientific research may be elected by the Board of Trustees a Corresponding Member, such election being for a period of five years and subject to renewal. Corresponding Members shall be entitled to current numbers of *Natural History* and to a copy of such scientific publications of the Museum as they may desire for the prosecution of their researches.

NOTE.—A Subscriber's Ticket admits to the Members' Room, also to all Receptions and Special Exhibitions, and may be used by any member of the Subscriber's family.
The Single Admission Tickets admit the bearers to the Members' Room, and are issued to Subscribers for distribution among friends and visitors.

**FOR THE CONSTRUCTION AND EQUIPMENT OF
THE SOUTHEAST WING AND COURT BUILDING
OF THE AMERICAN MUSEUM OF NATURAL
HISTORY**

(C.D.P. 3 G, H, and J)

LEGAL ENACTMENTS OF 1921

BY THE BOARD OF ESTIMATE AND APPORTIONMENT

RESOLVED, By the Board of Estimate and Apportionment, that, pursuant to the provisions of section 169 of the Greater New York Charter, as amended by chapter 618 of the Laws of 1921, the Comptroller be and is hereby authorized to issue, in the manner provided by section 169 of the Greater New York Charter, serial bonds of The City of New York, in an amount not exceeding one million five hundred thousand dollars (\$1,500,000), at such rate of interest as the Commissioners of the Sinking Fund shall prescribe; the proceeds to the amount of the par value thereof to be used by the Department of Parks, Borough of Manhattan, for the construction and equipment of the southeast wing and court building of the American Museum of Natural History; the cost of general construction, estimated at approximately one million three hundred thousand dollars (\$1,300,000), to be financed by an issue of serial bonds, the principal thereof to mature in equal annual installments within a period not exceeding forty (40) years; the cost of plumbing, heating and ventilating, and electric work and fixtures, estimated at approximately one hundred and ninety thousand dollars (\$190,000), to be financed by an issue of serial bonds, the principal thereof to mature in equal annual installments within a period not exceeding fifteen (15) years; and the cost of furniture and equipment, estimated at approximately ten thousand dollars (\$10,000), to be financed by an issue of serial bonds, the principal thereof to mature in equal annual installments within a period not exceeding ten (10) years; said apportionment of the costs to be subject to modification if necessary, upon awarding of the contracts for the several portions of the work; provided, however, that no encumbrance by contract or otherwise shall be made against these authorizations, nor shall bids upon contemplated contracts be advertised for until after approval by the Board of Estimate and Apportionment or its duly authorized representative of such expenditure, or of the plans, specifications, estimates of cost and forms of such contracts, nor shall any architect, engineer, expert or departmental employee be engaged or employed as a charge against such authorization, except after approval by said Board of such employment and of the fee or wage to be paid by preliminary and final contract voucher or budget schedule, unless in the case of departmental employees such employment is in accordance with schedules approved by said Board.

A true copy of resolution adopted by the Board of Estimate and Apportionment, December 28, 1921.

JAMES MATTHEWS,
Assistant Secretary.

Amended by the Board of Estimate and Apportionment, August 22, 1924, to provide for Case Construction and Equipment in the Southeast Wing and Court Building.

**APPROPRIATIONS AND EXPENDITURES THEREON TO
DECEMBER 31, 1927**

Receipts:

By direct appropriation and transfers (December 28, 1921, C. D. P. 3 G.).....		\$1,361,000.00
Expenditures (including Contracts and Architects' Fees):		
Contract No. 1, Construction and Electrical Work	\$1,107,495.61	
Architects' Fees	25,584.97	
Materials:		
Contracts	46,547.18	
Open Market Orders	28,373.53	
Salaries:		
Engineers' Payrolls	4,080.00	
Mechanics' Payrolls	92,430.91	1,304,512.20
Balance, December 31, 1927.....		<u><u>\$56,487.80</u></u>

Receipts:

By direct appropriation and transfers (December 28, 1921, C. D. P. 3 H.)		\$129,000.00
Expenditures (including Contracts):		
Contract No. 2, Plumbing	\$24,977.33	
Contract No. 3, Ventilating and Humidifying	19,600.00	
Contract No. 4, Steam Heating and Fume Removal	68,697.74	
Materials:		
Contracts	10,708.00	
Open Market Orders.....	1,445.75	125,428.82
Balance, December 31, 1927.....		<u><u>\$3,571.18</u></u>

Receipts:

By direct appropriation (December 28, 1921, C. D. P. 3 J.)		\$10,000.00
Expenditures:		
Furniture and Equipment:		
Contracts	\$1,149.90	
Open Market Orders	7,636.66	8,786.56
Balance, December 31, 1927.....		<u><u>\$1,213.44</u></u>

**FOR THE CONSTRUCTION AND EQUIPMENT OF
THE SCHOOL SERVICE BUILDING OF THE
AMERICAN MUSEUM OF NATURAL
HISTORY
(C.D.P. 3 L and M)**

LEGAL ENACTMENTS OF 1922

BY THE BOARD OF ESTIMATE AND APPORTIONMENT

RESOLVED, By the Board of Estimate and Apportionment, that, pursuant to the provisions of section 169 of the Greater New York Charter, as amended, the Comptroller be and is hereby authorized to issue, in the manner provided by section 169, serial bonds of The City of New York, in an amount not exceeding five hundred and seventy thousand dollars (\$570,000), at such rate of interest as the Commissioners of the Sinking Fund shall prescribe, the principal thereof to mature in equal annual installments within a period not exceeding fifteen (15) years, the proceeds to the amount of the par value thereof to be used by the Commissioner of Parks, Borough of Manhattan, for the construction and equipment of a School Service Building in the southwest Court of the American Museum of National History; provided, however, that no encumbrance by contract or otherwise shall be made against this authorization nor shall bids upon contemplated contracts be advertised for, until after approval by the Board of Estimate and Apportionment, or its duly authorized representative, of such proposed expenditure or of the plans, specifications, estimates of cost and forms of such contracts, nor shall any architect, engineer, expert or departmental employee be engaged or employed as a charge against such authorization except after approval by said Board of such employment and of the fee or wage to be paid by preliminary and final contract, voucher or budget schedule, unless in the case of departmental employees, such employment is in accordance with schedules approved by said Board.

A true copy of resolution adopted by the Board of Estimate and Apportionment, April 21, 1922.

JAMES MATTHEWS,
Assistant Secretary.

APPROPRIATIONS AND EXPENDITURES THEREON TO
DECEMBER 31, 1927

Receipts:

By direct appropriation (April 21, 1922, C. D. P. 3 L.)....	\$570,000.00
By direct appropriation (July 13, 1923, C. D. P. 3 L.)....	121,800.00
	<u>\$691,800.00</u>

Expenditures (including Contracts and Architects' Fees):

Contract No. 1, Construction and Electrical Work	\$503,154.10
Contract No. 2, Finishing Exhibition Halls....	40,329.00
Contract No. 3, Plumbing	36,909.70
Contract No. 4, Steam Heating and Ventilating	63,324.00
Architects' Fees	32,500.83

Materials:

Contracts	3,766.60
Open Market Orders	210.11

Salaries:

Engineers' Payrolls	4,499.55	684,693.89
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Balance, December 31, 1927.....	<u>\$7,106.11</u>
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Receipts:

By direct appropriation (July 13, 1923, C. D. P. 3 M.)....	\$42,000.00
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Expenditures (including Contracts and Architects' Fees):

Contract No. 1, Construction and Electrical Work	\$34,000.00
Contract No. 3, Plumbing	1,500.00
Contract No. 4, Steam Heating and Ventilating	2,500.00
Architects' Fees	2,081.00
	<u>40,081.00</u>

Balance, December 31, 1927.....	<u>\$1,919.00</u>
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**FOR IMPROVEMENTS TO AND ADDITIONAL
EQUIPMENT FOR EXISTING BUILDING OF
THE AMERICAN MUSEUM OF NATURAL
HISTORY
(C.D.P. 3 P and Q)**

LEGAL ENACTMENTS OF 1923

BY THE BOARD OF ESTIMATE AND APPORTIONMENT

RESOLVED, By the Board of Estimate and Apportionment, that, pursuant to the provisions of section 169 of the Greater New York Charter, as amended, the Comptroller be and he is hereby authorized to issue, in the manner provided by said section 169 of the Charter, serial bonds of The City of New York in an amount not exceeding one hundred and forty-four thousand nine hundred and fifty dollars (\$144,950) at such rate of interest as the Commissioners of the Sinking Fund shall prescribe, the principal thereof to the amount of forty-five thousand four hundred and thirty-five dollars (\$45,435), to mature within a period not exceeding twenty-five (25) years, and to the extent of ninety-nine thousand five hundred and fifteen dollars (\$99,515) to mature within a period not exceeding fifteen (15) years, the proceeds to the amount of the par value thereof to be used by the Commissioner of Parks, Borough of Manhattan, for improvements to and additional equipment for existing building of the American Museum of National History; provided, however, that no expenditure by contract or otherwise shall be made against this authorization nor shall bids upon contemplated contracts be advertised for until after approval by the Board of Estimate and Apportionment, or its duly authorized representatives, of such expenditure, or of the plans, specifications, estimates of cost, and form of proposed contracts for said improvement; nor shall any architect, engineer, expert or departmental employee be engaged or employed as a charge against such authorization except after approval by said Board of such employment and of the fee or wage to be paid by preliminary and final contract, voucher or budget schedule, unless in case of departmental employees such employment is in accordance with schedules approved by said Board.

A true copy of resolution adopted by the Board of Estimate and Apportionment, June 29, 1923.

JAMES MATTHEWS,
Assistant Secretary.

**APPROPRIATIONS AND EXPENDITURES THEREON TO
DECEMBER 31, 1927**

Receipts:

By direct appropriation (June 29, 1923, C. D. P. 3 P.).....	\$45,435.00
Rescinded, March 4, 1926.....	12,834.39
	<u>\$32,600.61</u>

Expenditures:

Contracts	\$19,592.00	
Open Market Orders	1,156.86	
Mechanics' Payrolls	1,851.75	22,600.61
	<u> </u>	
Balance, December 31, 1927.....		<u><u>\$10,000.00</u></u>

Receipts:

By direct appropriation (June 29, 1923, C. D. P. 3 Q.).....	\$99,515.00
Rescinded, March 4, 1926.....	22,872.41
	<u>\$76,642.59</u>

Expenditures:

Contracts	\$27,027.74	
Open Market Orders	12,619.84	
Mechanics' Payrolls	22,740.75	62,388.33
	<u> </u>	
Balance, December 31, 1927.....		<u><u>\$14,254.26</u></u>

**ADDITIONAL FOR CONSTRUCTION AND EQUIP-
MENT OF SCHOOL SERVICE BUILDING
(CODE C.D.P. 3 L)**

**ALSO FOR THE CONSTRUCTION OF INTER-
COMMUNICATING PASSAGEWAYS
(CODE C.D.P. 3 M)**

LEGAL ENACTMENTS OF 1923

BY THE BOARD OF ESTIMATE AND APPORTIONMENT

RESOLVED, By the Board of Estimate and Apportionment, that, pursuant to the provisions of section 169 of the Greater New York Charter, as amended, the Comptroller be and he is hereby authorized to issue, in the manner provided by said section 169 of the Charter, corporate stock of The City of New York in an amount not exceeding one hundred and sixty-three thousand eight hundred dollars (\$163,800) at such rate of interest as the Commissioners of the Sinking Fund shall prescribe, the principal thereof to mature within a period not exceeding fifteen (15) years, the proceeds to the amount of the par value thereof to be used by the Commissioner of Parks, Borough of Manhattan, as follows:

In addition to the appropriation heretofore made (Code C. D. P. 3 L.), for the construction and equipment of a school service building in the southwest court of the American Museum of Natural History.....	\$121,800.00
For the construction of intercommunicating passageways, American Museum of Natural History. (Code C. D. P. 3 M.)	42,000.00

—provided, however, that no expenditure by contract or otherwise, shall be made against this authorization nor shall bids upon contemplated contracts be advertised for until after approval by the Board of Estimate and Apportionment, or its duly authorized representative, of such expenditure, or of the plans, specifications, estimates of cost, and form of proposed contracts for said improvement; nor shall any architect, engineer, expert or departmental employees be engaged or employed as a charge against such authorization except after approval by said Board of such employment and of the fee or wage to be paid by preliminary and final contract, voucher or Budget schedule unless in case of departmental employees such employment is in accordance with the schedules approved by said Board.

A true copy of resolution adopted by the Board of Estimate and Apportionment, June 29, 1923.*

JAMES MATTHEWS,
Assistant Secretary.

(Details of expenditures on page 284.)

*Amended July 13, 1923, substituting serial bonds in place of corporate stock.

**FOR GENERAL CONSTRUCTION WORK IN EXIST-
ING BUILDINGS OF THE AMERICAN
MUSEUM OF NATURAL HISTORY
(CODE C.D.P. 3 S)**

LEGAL ENACTMENTS OF 1925

BY THE BOARD OF ESTIMATE AND APPORTIONMENT

RESOLVED, By the Board of Estimate and Apportionment, that, pursuant to the provisions of section 169 of the Greater New York Charter, the Comptroller be and hereby is authorized to issue, in the manner provided by said section 169 of the Charter, serial bonds of The City of New York in an amount not exceeding thirty-seven thousand five hundred dollars (\$37,500), at such rate of interest as the Commissioners of the Sinking Fund shall prescribe, the principal thereof to mature in equal annual installments within a period not exceeding twenty-five (25) years, the proceeds to the amount of the par value thereof to be used by the Department of Parks, Borough of Manhattan, for general construction work in existing buildings of the American Museum of Natural History; provided, however, that no expenditure by contract or otherwise shall be made against this authorization nor shall bids upon contemplated contracts be advertised for until after approval by the Board of Estimate and Apportionment, or its duly authorized representative, of such expenditure, or of the plans, specifications, estimates of cost, and form of proposed contracts for said improvement; nor shall any architect, engineer, expert or departmental employee be engaged or employed as a charge against such authorization except after approval by said Board of such employment and of the fee or wage to be paid by preliminary and final contract, voucher or budget schedule, unless in case of departmental employees such employment is in accordance with schedules approved by said Board.

A true copy of resolution adopted by the Board of Estimate and Apportionment, May 1, 1925.

JAMES MATTHEWS,
Assistant Secretary.

**APPROPRIATION AND EXPENDITURES THEREON TO
DECEMBER 31, 1927**

Receipts:

By direct appropriation (May 1, 1925, C. D. P. 3 S.).... \$37,500.00

Expenditures:

Contracts	\$3,528.00	
Open Market Orders.....	10,229.71	
Mechanics' Payrolls	16,859.37	30,617.08

Balance, December 31, 1927.....	\$6,882.92	
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FOR CASES AND PLANT EQUIPMENT FOR THE AMERICAN MUSEUM OF NATURAL HISTORY (CODE N.D.P. 3 R)

LEGAL ENACTMENTS OF 1925

BY THE BOARD OF ESTIMATE AND APPORTIONMENT

RESOLVED, By the Board of Estimate and Apportionment, that, pursuant to the provisions of section 189 of the Greater New York Charter, the Comptroller be and hereby is authorized to issue tax notes of The City of New York in an amount not exceeding one hundred and ten thousand two hundred and sixty dollars (\$110,260), which shall be included in annual tax levies, in the manner provided by said section 189 of the Charter, the proceeds of which, to the amount of the par value thereof, to be used for cases and plant equipment for the American Museum of Natural History, under the jurisdiction of the Department of Parks, Borough of Manhattan; provided, however, that no expenditure by contract or otherwise shall be made against this authorization nor shall bids upon contemplated contracts be advertised for until after approval by the Board of Estimate and Apportionment, or its duly authorized representative, of such proposed expenditure, or of the plans, specifications, estimates of cost and forms of proposed contracts for said improvements; nor shall any architect, engineer, expert or departmental employee be engaged or employed as a charge against such authorization except after approval by said Board of such employment and of the fee or wage to be paid by preliminary and final contract, voucher or budget schedule, unless in case of departmental employees such employment is in accordance with schedules approved by said Board.

A true copy of resolution adopted by the Board of Estimate and Apportionment, May 1, 1925.

JAMES MATTHEWS,
Assistant Secretary.

APPROPRIATION AND EXPENDITURES THEREON TO DECEMBER 31, 1927

Receipts:

By direct appropriation (May 1, 1925, N. D. P. 3 R.).... \$110,260.00

Expenditures:

Contracts	\$21,953.13	
Open Market Orders.....	20,580.98	
Mechanics' Payrolls	47,963.74	90,497.85
Balance, December 31, 1927.....		\$19,762.15

**FOR FURNISHING AND EQUIPPING THE SCHOOL
SERVICE BUILDING OF THE AMERICAN
MUSEUM OF NATURAL HISTORY
(CODE C.D.P. 3 T)**

LEGAL ENACTMENTS OF 1925

BY THE BOARD OF ESTIMATE AND APPORTIONMENT

RESOLVED, By the Board of Estimate and Apportionment, that, pursuant to the provisions of section 169 of the Greater New York Charter, the Comptroller be and hereby is authorized to issue, in the manner provided by said section 169 of the Charter serial bonds of The City of New York in an amount not exceeding one hundred and fifty thousand dollars (\$150,000), at such rate of interest as the Commissioners of the Sinking Fund shall prescribe, the principal thereof to mature in equal annual installments within a period not exceeding ten (10) years, the proceeds to the amount of the par value thereof to be used by the Department of Parks, Borough of Manhattan, for furnishing and equipping the School Service Building of the American Museum of Natural History; provided, however, that no expenditure by contract or otherwise shall be made against this authorization nor shall bids upon contemplated contracts be advertised for until after approval by the Board of Estimate and Apportionment, or its duly authorized representative, of such expenditure, or of the plans, specifications, estimates of cost and forms of proposed contracts for said improvements; nor shall any architect, engineer, expert or departmental employee be engaged or employed as a charge against such authorization except after approval by said Board of such employment and of the fee or wage to be paid by preliminary and final contract, voucher or budget schedule, unless in case of departmental employees such employment is in accordance with schedules approved by said Board.

A true copy of resolution adopted by the Board of Estimate and Apportionment, June 19, 1925.

PETER J. MCGOWAN,
Secretary.

**APPROPRIATION AND EXPENDITURES THEREON TO
DECEMBER 31, 1927**

Receipts:

By direct appropriation (June 19, 1925, C. D. P. 3 T.).... \$150,000.00

Expenditures:

Contracts	\$62,006.37	
Open Market Orders.....	33,013.05	
Mechanics' Payrolls	43,768.62	138,788.04
	<hr/>	
Balance, December 31, 1927.....		<u>\$11,211.96</u>

**FOR THE PURCHASE OF FOLDING CHAIRS OF
THE AMERICAN MUSEUM OF NATURAL
HISTORY
(N.D.P. 3 V)**

LEGAL ENACTMENTS OF 1927

BY THE BOARD OF ESTIMATE AND APPORTIONMENT

RESOLVED, By the Board of Estimate and Apportionment, that, pursuant to the provisions of section 189 of the Greater New York Charter, the Comptroller be and hereby is authorized to issue tax notes of The City of New York in an amount not exceeding three thousand nine hundred and sixty-four dollars and ten cents (\$3,964.10), which shall be included in annual tax levies, in the manner provided by said section 189 of the Charter, the proceeds of which, to the amount of the par value thereof, to be used for the purchase of folding chairs for the American Museum of Natural History, under the jurisdiction of the Department of Parks, Borough of Manhattan; provided, however, that no expenditure by contract or otherwise shall be made against this authorization nor shall bids upon contemplated contracts be advertised for until after approval by the Board of Estimate and Apportionment, or its duly authorized representative, of such proposed expenditure, or of the plans, specifications, estimates of cost and forms of proposed contracts for said improvement; nor shall any architect, engineer, expert or departmental employee be engaged or employed as a charge against such authorization except after approval by said Board of such employment and of the fee or wage to be paid by preliminary and final contract, voucher or budget schedule, unless in case of departmental employees such employment is in accordance with schedules approved by said Board.

A true copy of resolution adopted by the Board of Estimate and Apportionment, December 15, 1927.

JOSEPH F. HIGGINS,
Assistant Secretary.

**APPROPRIATION AND EXPENDITURES THEREON TO
DECEMBER 31, 1927**

Receipts:

By direct appropriation (December 15, 1927, N. D. P. 3 V) .. \$3,964.10

Expenditures:

Balance, December 31, 1927..... \$3,964.10

VII. PENSION AND INSURANCE

FIFTEENTH ANNUAL REPORT
OF THE
PENSION BOARD

OF

THE AMERICAN MUSEUM
OF NATURAL HISTORY

FOR THE YEAR 1927

OFFICERS AND MEMBERS OF THE PENSION BOARD

1927

Chairman

FELIX M. WARBURG

Vice-Chairman

A. PERRY OSBORN

Treasurer

JAMES H. PERKINS

Secretary

GEORGE N. PINDAR

Trustee Members

GEORGE T. BOWDOIN
A. PERRY OSBORN

JUNIUS S. MORGAN, JR.
FELIX M. WARBURG

Employee Members

HAROLD E. ANTHONY

HARRY F. BEERS

GEORGE N. PINDAR

Bursar

FREDERICK H. SMYTH

Counsel

LEWIS L. DELAFIELD

Consulting Actuary

S. HERBERT WOLFE

Medical Examiner

DANA W. ATCHLEY, M.D.

SERVICE OF OFFICERS AND MEMBERS OF PENSION BOARD

1913-1928

Anderton, Walter P.	Medical Examiner	1917—1918
Anthony, Harold E.	Member of Board	1926—
Atchley, Dana W.	Medical Examiner	1923—
Baker, Jr., Geo. F.	Treasurer	1922—1927
Beers, Harry F.	Member of Board	1913—
Bowdoin, George T.	“ “ “	1927—
Davison, F. Trubee	“ “ “	1924—1927, 1928
Davison, Henry P.	Treasurer	1916—1921
Delafield, Lewis L.	Counsel	1913—
Hard, Anson W.	Member of Board	1913—1915
Iselin, Adrian	“ “ “	1913—1923
James, Walter B.	“ “ “	1916—1927
Lanier, Charles	Treasurer	1913—1915
Mackenzie, Geo. M.	Medical Examiner	1916—1923
Morgan, Jr., Junius S.	Member of Board	1927—1928
Osborn, A. Perry	Member of Board and Vice-Chairman	1921—
Perkins, James H.	Treasurer	1927—
Pindar, Geo. N.	Member of Board and Secretary	1913—
Pyne, Percy R.	“ “ “	1913—1920
Smyth, Fred. H.	Bursar	1913—
Tower, Ralph W.	Member of Board and Vice-Chairman	1913—1926
Warburg, Felix M.	“ “ “ “ Chairman	1913—
Wolfe, S. Herbert	Actuary	1913—1928

*To the President and Trustees of The American Museum of
Natural History and to the Subscribers to the Pension Fund:*

I have the pleasure to submit for your consideration the Fifteenth Annual Report of the operations of the Pension Fund and its financial statement for the fiscal year ending December 31, 1927.

"When we build, let us think we build forever.

Let it not be for the present delight, not for present use alone."

Ruskin.

FIFTEEN years ago your Pension Committee rendered its first report. During this period the operation of the Pension System has been an important function of the Corporation. While a few changes in the provisions have been made in a decade and a half, it has not been found necessary to make any affecting the general principles of application as first written.

The successful accretion of an ever growing capital account, accumulated through contributions and prime interest-bearing securities, has been annually reported and has proven satisfactory to those charged with its supervision, as well as to those responsible for its immediate care. These invested funds have increased from \$5,000 in 1913, to \$418,131 book value, December 31, 1927.

Membership in the Fund has very generally been sought by new employees and has risen from 216 in 1913, to 359 active subscribers and fourteen retired subscribers on December 31, 1927. Based upon a payroll in the amount of \$215,524, with joint contributions in the sum of \$12,931.44 in 1913 (nine months), the contributions this year amount to \$49,988 upon a payroll basis of \$831,466.66.

In connection with this basis of contribution it is of interest to recall that in 1912, during the discussion of the proposed plan, it was predicted that a salary basis of \$1,000,000 would be reached in 1938. Judging from previous growth, this amount will be reached at a much earlier date.

During the past year, seventy-five new subscribers were added to the system, whose average age was twenty-nine plus years;

forty subscribers resigned, whose average age was thirty-three years and whose service periods ranged from two months to thirteen years, the average being three years. Two subscribers of the ages of seventy-seven and fifty-six respectively were retired on pensions, and one pensioned subscriber of the age of fifty-two died.

The significant feature of the turnover in active membership is the constancy of the rate during the past fifteen years. This year the turnover approximated 10%. Considering this very low ratio, it might well be taken as an evidence of the employees' complete satisfaction with their positions and compensations. However, an examination of the records of those employees who have resigned during the year could as well indicate that membership in the Pension Fund acts as no deterrent to their change of service.

In our institution, for the benefit of the employees and those dependent upon them, the Corporation has effected, in addition to the Pension System, Group Insurance, Workmen's Compensation Insurance, Free Physical Examinations and General Welfare Work, all of which factors are felt to be important in retaining employees in service. The average worker is prone, only too frequently, to regard these efforts to improve his condition as paternalistic, and new employees, until assured of the practicability of all of these forms, are slow to register confidence in them, but when once convinced of the honesty, integrity and good spirit prompting them, enter whole-heartedly into such undertakings, and the trust thus mutually established will continue so long as the factors which have been the means of originating it are not adversely modified.

Pensions for service constitute the outstanding feature of our system and have always been the subject of the greatest differences of opinion. In the organization meetings called to draft rules to govern the Plan now in use, the predominant thought was a just and equitable provision for employees of long time service, and the expressions of a former Congressman in advocating a Federal Pension Bill, quoted at the time of our organization, voice our individual feelings now:

"The aim of every normal man and woman is an old age free from care and want. To that end most of them toil patiently

and live closely seeking to save against the day when they can earn no more. And yet the same fate awaits the overwhelming mass of them. There is hardly a more pitiful tragedy than the lot of a toiler who has struggled all his life to gain a competence and who at sixty faces the poor house." And again, we quote another who said, "Many a man loses heart and goes through the years of his life from fifty onward with drooping head and faltering step, because there is only helpless want as the goal of old age; whereas the prospect of a pension coming to him in his old age as a deferred dividend, which society as now organized, industrial, social and political, owes him, would put spirit and vigor into his life and increase his efficiency many-fold."

With these thoughts ever in mind, your Committee has readjusted rates for service pensions to a basis which we consider eminently fair in their proportion to our capital and income; conceding, however, that in cases of lower salaries paid it would become difficult for individuals to adjust their lives to the new rate of income. Nevertheless, in our institution, conditions are very dissimilar to those in any other corporation. At the present time there is a large number of employees who have given valuable and useful service from twenty to forty years, who are physically in excellent condition and quite able to carry on the work to which they are assigned and who have no desire to be separated from their present employment. In such cases, it is your committee's belief that those individuals who have given so many years of life to the Corporation's service, and who have demonstrated their honesty and efficiency, should not, because of increasing age, be compelled to sever their relations with us. An old, trusted employee is a valuable asset to any institution. If anything, his labor should be eased and the younger men assigned to the harder duties.

It may be aside from this Committee's function, but inasmuch as we also endeavor to consider the welfare of the individuals in the employ of the Corporation, we would respectfully suggest and recommend that in considering the retirement of any employee of long time service and of declining years, careful inquiry should be made into the reasons for retirement, particularly if the request originates with the department head. Further-

more, in the consideration of any request for retirement, the Pension Committee should first be consulted to the end that neither party's rights be impaired, and that the trust and harmonious relationship which has existed between employer and employee for these many years remain unbroken.

The welfare work conducted by a sub-committee of the Pension Board has proved a pleasure to the members and, it is hoped, a benefit to the employees. Through the splendid co-operation of the Corporation, a fully equipped First Aid Room has been opened which is advantageously located near the auditorium with a trained nurse in charge. Besides availability to employees, visitors who suddenly become indisposed are also taken care of. As an evidence of its necessity, it is reported that since its installation in October, 1927, seventy-nine employees have received first aid treatment. Of this number, eight cases were later sent to a hospital. Nine visitors also received attention. At the suggestion of one of our Trustee members, a small welfare fund was started in 1926, and through its means a number of regular employees and retired members have been aided.

Dr. Dana W. Atchley, who has charge of the physical examinations of new employees, has materially assisted in attending to cases requiring hospital treatment and has freely given medical advice to those coming under his inspection who were found to be in need of treatment. Your Committee takes this opportunity of assuring Dr. Atchley of its gratitude to him for his whole-hearted interest in the work.

During the past year Mr. Lewis L. Delafield has been frequently called upon for his legal advice, and with his usual interest in the welfare of the employees and of Museum affairs in general within the scope of your Committee's work, has been of untold help to us, and this acknowledgment is but a small measure of our deep appreciation.

It is with very deep regret that we record the deaths of Doctor Walter B. James on April 7, 1927, and of General Herbert S. Wolfe on December 31, 1927.

Doctor James was appointed a member of our Board on January 1, 1916, and served continuously up to the time of his decease. Through his interest in the health of our workers, a system of physical examinations was instituted and brought to

its present state of perfection and efficiency. He freely gave of his time, influence and professional knowledge to help those of our employees who were ill, and materially assisted others. Generous to a fault, kind of heart, practical in counsel, and earnest and painstaking in his duties, his passing has deprived us of a conspicuous and eminent personality.

General Wolfe has been associated with us for the past fifteen years in his capacity as actuary. He took a real and important part in the formation of our Pension Rules, and for these many years kept watch of its operations, aiding us with his advice whenever called upon. He was one of the most widely known actuaries in the United States and enjoyed a very enviable reputation gained through the honesty and thoroughness of his work. A man of dignified personality and serious in manner, low spoken and kindly, he enjoyed a wide circle of friends in all walks of life and was respected by all with whom he came in contact.

In another part of this report a word of tribute is paid to the memory of a deceased subscriber. A full financial statement for the year is also appended.

Respectfully submitted,

FELIX M. WARBURG,
Chairman.

New York, December 31, 1927.

STATEMENT OF MEMBERSHIP

1927

ACTIVE

Subscribing employees, January 1, 1927.....	326
New Subscribers, January 1-December 31, 1927.....	75
	<u>401</u>
Resignations, Voluntary Severance, Dismissals and Retirements.....	42
Active Membership, December 31, 1927.....	<u>359</u>

RETIRED

Pensioned Employees, January 1, 1927.....	13
Employees Pensioned during 1927.....	2
	<u>15</u>
Deaths during 1927.....	1
	<u>14</u>
Total Membership, December 31, 1927.....	<u>373</u>

RETIRED LIST

Name	Yearly Amount	Date of Retirement	Period of Payment
H. Ernestine Ripley.....	\$ 464.00	Jan. 1, 1919	16 years
George A. Young.....	300.00	Feb. 1, 1919	15 years
James Kenney	470.28	Sept. 1, 1922	18 years
A. E. Anderson.....	300.00	Jan. 1, 1923	20 years 9 mos.
Brower Palmer	1,012.08	Jan. 1, 1925	23 years 3 mos.
Robert McAnuff	805.00	June 20, 1925	Life
Otto Block	510.00	Nov. 1, 1925	15 years
Edward J. Yarrow.....	1,104.00	Nov. 1, 1925	Life
Maria E. Garrison.....	617.00	Jan. 1, 1926	Life
Charles W. Mead.....	996.00	Jan. 1, 1926	Life
Frederick F. Horter.....	609.78	May 15, 1926	16 years
William B. Peters.....	882.00	June 30, 1926	23 years
Robert Devine	768.50	Jan. 1, 1927	Life
William D. Matthew.....	3,200.00	July 1, 1927	Life

Deceased

GEORGE J. BEETH

George J. Beeth was born in the City of New York, July 3, 1874. He entered the service of the Museum in 1905 and was assigned to the Department of Heating and Lighting where he served as a fireman for over eighteen years. Mr. Beeth was a faithful and hard working employee. He was placed on the retired list in 1923, and passed away on January 11, 1927.

FINANCIAL STATEMENT
OF THE
PENSION FUND
OF THE
AMERICAN MUSEUM OF NATURAL HISTORY
1927

	Invested Funds		
	Par Value	Income	Book Value
Investment Fund—			
Bonds	\$401,741.63	\$17,427.16	\$378,490.61
Mortgages	38,500.00	1,957.50	38,500.00
Endowment Fund—			
Bonds	1,258.37	50.34	1,140.39
	<u>\$441,500.00</u>	<u>\$19,435.00</u>	<u>\$418,131.00</u>

STATEMENT OF INVESTED FUNDS

<i>Par Value</i>	<i>Securities</i>	<i>Due</i>	<i>Rate of Int.</i>	<i>Annual Interest</i>	<i>Book Value</i>	<i>Interest Payable</i>
\$25,000.00	Atchison, Topeka & Santa Fe Ry. Co. Gen'l. Mtge.	1941	4	400.00	8,194.75	May-Nov.
10,000.00	Atlantic Coast Line R.R. Co. First Cons. Mtge.	1933	4 1/2	180.00	4,003.00	Mar.-Sept.
10,000.00	Baltimore & Ohio R.R. Co. First Mtge.	1935	5	250.00	5,050.00	June-Dec.
10,000.00	Baltimore & Ohio R.R. Co. Pittsburgh, Lake Erie & West Virginia Rfdg. Mtge.	1937	4	400.00	8,982.50	May-Nov.
4,000.00	Baltimore & Ohio R.R. Co. Conv. Mtge.	1937	5	250.00	5,007.50	June-Dec.
5,000.00	Chicago & North Western Ry. Co. Gen'l. Mtge.	2037	4 1/2	450.00	9,912.50	Jan.-July
10,000.00	Chicago & North Western Ry. Co. First & Rfdg. Mtge.	1949	4	400.00	9,095.00	Jan.-July
10,000.00	Chicago, Burlington & Quincy R.R. Co., Illinois Div.	1958	4	400.00	8,806.25	Mar.-Sept.
5,000.00	Chicago, Milwaukee & St. Paul Ry. Co. Gen'l. Mtge. Ser. "A" c/d	2014	4 1/2	400.00	4,668.75	Apr.-Oct.
12,000.00	Cleveland Short Line Ry. First Mtge.	1961	4 1/2	540.00	11,644.25	Apr.-Oct.
10,000.00	Delaware & Hudson Co. First & Rfdg. Mtge.	1943	4	400.00	8,927.50	May-Nov.
5,000.00	Great Northern Ry. Co. First & Rfdg. Mtge.	1951	4 1/2	212.50	4,456.25	Jan.-July
10,000.00	Illinois Central R.R. Rfdg. Mtge.	1955	4	400.00	9,065.00	May-Nov.
5,000.00	Janestown, Franklin & Clearfield R.R. First Mtge.	1959	5	500.00	9,948.75	May-Nov.
10,000.00	Louisville & Nashville R.R. Co. Unified Mtge.	1940	4	200.00	4,422.50	June-Dec.
10,000.00	Louisville & Nashville R.R. Co. First & Rfdg. Mtge. Ser. "B"	2003	4	400.00	9,126.25	Jan.-July
8,000.00	Louisville & Nashville R.R. Co. First & Rfdg. Mtge. Ser. "C"	2003	5	500.00	10,268.75	Apr.-Oct.
10,000.00	Montana Central Ry. First Mtge.	1937	4 1/2	360.00	7,633.50	Apr.-Oct.
6,000.00	Morris & Essex R.R. First Rfdg. Mtge.	2000	5	500.00	10,006.25	Jan.-July
11,000.00	New Orleans, Texas & Mexico Ry. Co. First Mtge. Ser. "C"	1956	3 1/2	210.00	4,734.00	June-Dec.
5,000.00	New York Central & H.R.R. Co. Rfdg. & Impr. Mtge. Ser. "A"	1953	5	550.00	11,524.50	Feb.-Aug.
20,000.00	New York Central R.R. Co. Rfdg. & Impr. Mtge. Ser. "C"	2013	4 1/2	225.00	4,706.25	Apr.-Oct.
11,000.00	New York, Lackawanna & Western Ry. First & Rfdg. Mtge. Ser. "B"	1973	5	1,000.00	19,605.00	Apr.-Oct.
20,000.00	Norfolk & Western Ry. Co. First Cons. Mtge.	1936	4 1/2	495.00	11,051.00	May-Nov.
5,000.00	Northern Pacific Ry. Co. Rfdg. & Impr. Mtge. Ser. "A"	2047	4 1/2	225.00	4,825.00	Apr.-Oct.
7,000.00	Northern Pacific Ry. Co. Rfdg. & Impr. Mtge. Ser. "C"	2047	5	350.00	6,884.25	Jan.-July
5,000.00	Oregon Short Line R.R. Co. First Cons. Mtge. Stamped.	1946	5	250.00	5,045.00	Jan.-July
15,000.00	Pennsylvania R.R. Gen'l. Mtge. Ser. "A"	1965	4 1/2	675.00	14,431.25	June-Dec.
15,000.00	Pennsylvania R.R. Gen'l. Mtge. Ser. "B"	1968	5	750.00	15,083.25	June-Dec.
5,000.00	St. Louis, Peoria & North Western Ry. First Mtge.	1948	5	250.00	4,957.50	Jan.-July
20,000.00	Southern Pacific Co., Oregon Lines First Mtge. Ser. "A"	1933	4 1/2	900.00	19,542.50	Jan.-July
9,000.00	Southern Pacific R.R. Co. First Rfdg. Mtge.	1955	4 1/2	405.00	9,045.00	Mar.-Sept.
20,000.00	Union Pacific R.R. Co. R.R. & Land Grant First Mtge.	1947	4	800.00	17,827.00	Jan.-July
10,000.00	Union Pacific R.R. Co. First Lien & Rfdg. Mtge.	2008	4	400.00	9,292.50	Jan.-July
5,000.00	Union Pacific R.R. Co. First Lien & Rfdg. Mtge.	2008	4	400.00	8,740.00	Mar.-Sept.
8,000.00	Bond & Mortgage on Premises 210 East 32nd Street, N. Y. C.	1929	5	400.00	4,982.50	Mar.-Sept.
6,000.00	Bond & Mortgage on Premises 26 Hamilton Terrace, N. Y. C.	1929	5	300.00	8,000.00	June-Dec.
8,000.00	Bond & Mortgage on Premises 1315 St. Lawrence Ave. Bronx, N. Y. C.	1929	5	400.00	6,000.00	June-Dec.
6,500.00	Bond & Mortgage on Premises 606 Madison Street, Brooklyn, N. Y. C.	1930	5 1/2	357.50	8,900.00	Feb.-Aug.
10,000.00	Bond & Mortgage on Premises 122 Ninth Avenue, N. Y. C.	1933	5	500.00	10,000.00	May-Nov.

\$441,500.00

No income received from these bonds during 1927.

PENSION FUND ACCOUNT

Receipts, 1927

Cash on hand January 1, 1927.....		\$9,348.55
Contributions of Subscribing Employees:		
Deductions of 3% from payrolls of		
City Maintenance Account.....	\$ 4,312.52	
General Account	12,418.36	
Morris K. Jesup Fund Account..	4,709.85	
Special Funds Account.....	573.07	
Corporate Stock Account.....	1,630.41	
Incidental Account.....	6.75	
	<hr/>	\$23,650.96
Personal Payments of Subscribing Em-		
ployees	875.69	
Interest on Deferred Contributions.....	9.31	
	<hr/>	\$24,535.96
Contributions of Board of Trustees:		
To Equal Contributions of Subscribing		
Employees		24,535.96
Income from Investment Fund.....	17,732.90	
Income from Endowment Fund.....	50.34	
	<hr/>	17,783.24
Interest on Credit Balances.....		181.27
		<hr/>
		67,036.43
Investment Fund:		
Proceeds from Redeemed Securities.....		10,500.00
Bursar's Account.....		1,000.00
		<hr/>
		\$87,884.98

Examined and { A. PERRY OSBORN }
 Approved { GEORGE T. BOWDOIN } *Auditing Committee*

PENSION FUND ACCOUNT

Disbursements, 1927

Return of Contributions.....	\$5,057.57	
Interest on Contributions Returned.....	453.90	
	<hr/>	\$5,511.47
Service Pensions "A".....	\$7,672.86	
Service Pensions "B".....	1,692.00	
Pensions in Event of Illness, Dismissal, etc.....	1,091.23	
Death Gratuities Paid Under Section 18.....	894.00	
	<hr/>	11,350.09
Expenses		70.00
		<hr/>
		\$16,931.56
Purchase of Securities:		
Investment Fund.....		50,985.00
Loan Account.....		1,000.00
Cash on Hand December 31, 1927:		
Deposited with the United States Trust Company		
of New York.....	\$17,968.42	
Deposited with The Colonial Bank (Bursar's Account)....	1,000.00	
	<hr/>	18,968.42
		<hr/>
		\$87,884.98

E. and O. E.

New York, December 31, 1927.

PENSION FUND—SPECIAL FUNDS ACCOUNT**Receipts, 1927**

Welfare Fund:

Balance, January 1, 1927.....		\$1,317.79
Contributions	\$900.00	
Transferred from General Account (Allowance from Trustees).....	129.72	
Transferred from Interest on Credit Balances.....	25.74	
	<hr/>	1,055.46
Interest on Credit Balances:		
Earnings to December 31, 1927.....		25.74
		<hr/>
		\$2,398.99

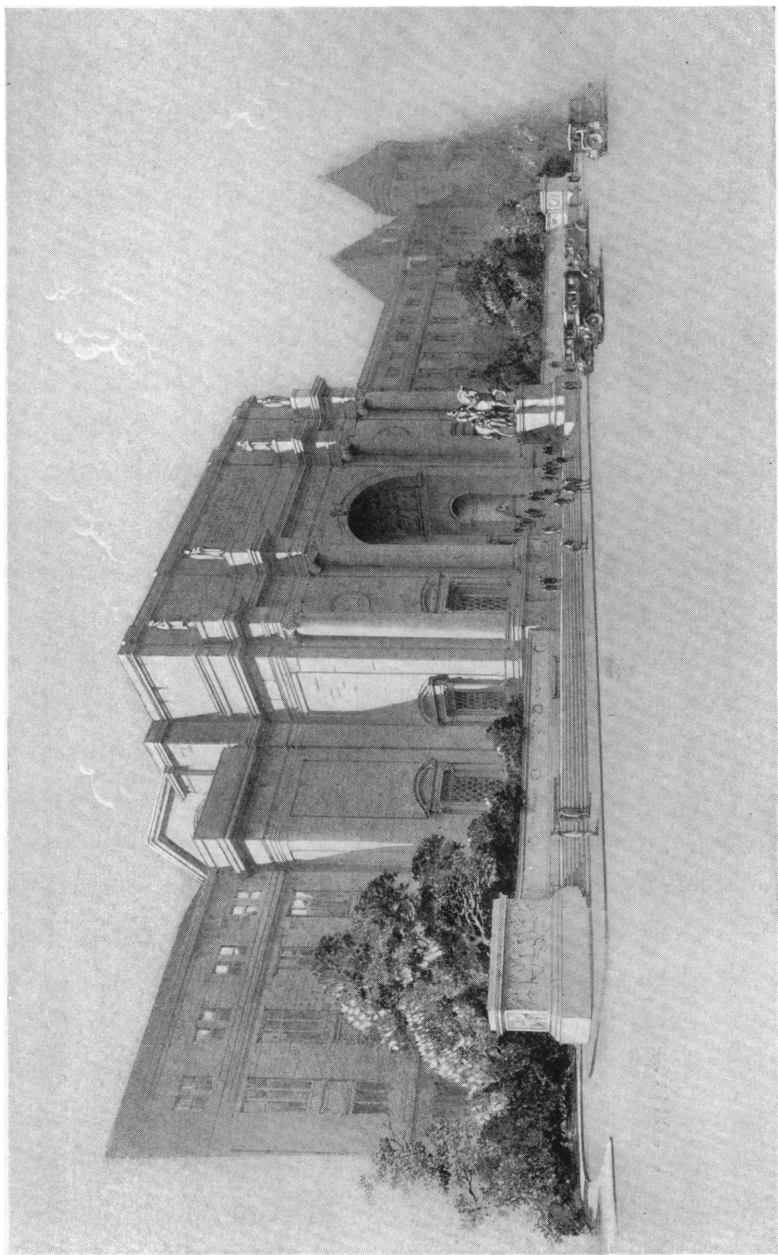
Examined and { A. PERRY OSBORN }
 Approved { GEORGE T. BOWDOIN } *Auditing Committee*

PENSION FUND—SPECIAL FUNDS ACCOUNT**Disbursements, 1927**

Welfare Fund.....	\$1,179.72
Interest on Credit Balances:	
Transferred to Welfare Fund.....	25.74
Cash on Hand, December 31, 1927:	
Deposited with United States Trust Company of New York.....	1,193.53
	<hr/>
	\$2,398.99

E. and O. E.
 New York, December 31, 1927.

JAMES H. PERKINS,
Treasurer.



PROPOSED NEW YORK STATE ROOSEVELT MEMORIAL
JOHN RUSSELL POPE, ARCHITECT
To Be Erected by the State of New York

