

1869

CITY OF NEW YORK

1925

THE AMERICAN MUSEUM ENDOWMENT

FIFTY-SEVENTH ANNUAL REPORT OF THE TRUSTEES
FOR THE YEAR 1925 :: THE AMERICAN
MUSEUM OF NATURAL HISTORY

Issued May 1, 1926

SCIENTIFIC PUBLICATIONS

NATURAL HISTORY, Journal of The American Museum of Natural History:

Volumes I-XXV, 1900-1925. An illustrated magazine devoted to the advancement of natural history; a record of scientific research, exploration and discovery, of the development of museum exhibitions and of museum influence on education. Contributors are workers eminent in these fields, including the scientific staff, explorers and Members of the American Museum. Issued free to all classes of membership or on subscription, \$3.00.

BULLETIN of The American Museum of Natural History:

Volumes I-LII, 1881-1925. Scientific records of explorations and collections of the Museum, in Geology, Palæontology, Mineralogy, Zoology, and, originally, Anthropology. Issued in exchange to 400 libraries and institutions of science and learning throughout the world. \$5.00-\$10.00 per volume.

MEMOIRS of The American Museum of Natural History:

Volumes I and IX, 1893-1909; contributions by Whitfield, Osborn, Beutenmuller, Matthew, Brown, McGregor, Dean.

Volumes II-VIII and X-XIV constitute the Jesup North Pacific Expedition Series.

New Series, Volumes I-III, 1912-1921, devoted to Zoology and Palæontology. \$2.00-\$12.00 a part.

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AMERICAN MUSEUM NOVITATES:

Nos. 1-205, 1921-1925. Devoted to publication of preliminary announcements and descriptions of new forms in the fields of Zoology, Palæontology, Geology and Mineralogy. 10c. upward.

A REVIEW OF THE PRIMATES.

By Daniel Giraud Elliot, 1913. A monographic treatise in three quarto volumes. Paper, \$35.00; cloth, \$37.50; morocco, \$60.00.

(Publications continued on third page of cover)



RALPH WINFRED TOWER
1870-1926

For twenty-three years Curator of Books and Publications and of Physiology

THE AMERICAN MUSEUM ENDOWMENT



"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-SEVENTH ANNUAL REPORT OF THE TRUSTEES
FOR THE YEAR 1925 :: THE AMERICAN
MUSEUM OF NATURAL HISTORY**

The City of New York
Issued May 1, 1926



THE AMERICAN MUSEUM PRESS

1903: 1 man; 1 hand-lever press.

1905: First electrically-driven job press.

1918: 3 job presses in use; monotype and first cylinder press installed.

1925: Foreman and 12 assistants; 3 job presses in use; 2 cylinder presses, one of these equipped with automatic feeder and pile delivery.

1926: Automatic vertical job press added.

Original purpose of press was the printing of labels.

Now all publications are printed in the Museum.

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THE AMERICAN MUSEUM OF NATURAL HISTORY

INCORPORATED BY THE

LEGISLATURE OF THE STATE OF NEW YORK IN 1869

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

INCORPORATORS OF 1869

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

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 present building laid by President Ulysses S. Grant.

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

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 building sections.

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

PRESIDENCY OF HENRY FAIRFIELD OSBORN, 1908-

1908 Constitution amended making The Mayor, the Comptroller, and the President of the Department of Public Parks, of the City of New York, *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, VIII-X, and Equipment and Alterations of Old Sections.

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

ENDOWMENT CLASS*

By contribution of \$100,000 or upward to the Endowment Fund

| | |
|-----------------------|--------------------------|
| GEORGE F. BAKER | A. D. JUILLIARD† |
| JAMES DOUGLAS† | D. O. MILLS† |
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By contribution of \$50,000 or upward to the Museum

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ASSOCIATE FOUNDER CLASS

By contribution of \$25,000 or upward to the Museum

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| OGDEN MILLS | HARRY PAYNE WHITNEY |
| | WILLIAM C. WHITNEY† |

*Created by amendment to the Constitution, 1925.

†Deceased.

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By contribution of \$10,000 or upward to the Museum

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JOHN B. TREVOR
MRS. JOHN B. TREVOR†
FELIX M. WARBURG
HARRY PAYNE WHITNEY

†Deceased.

ENDOWMENT FUND

The Endowment Fund was established in 1884. It now amounts to \$11,200,000 (book value). The Trustees especially desire to insure the permanent growth and welfare of the Museum through an increase of the General Endowment Fund. The additional sum of \$8,800,000 is needed at present.

EXEMPTIONS 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.

FORM OF BEQUEST

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

PRIVILEGES OF MEMBERSHIP

Members are entitled to the following privileges:

An Annual Pass admitting to the Members' Room.

Complimentary tickets admitting to the Members' Room for distribution to friends.

Services of an Instructor for guidance through the Museum, by application in the Members' Room.

Two course tickets to Spring Lectures and to Autumn Lectures.

Current numbers of all *Guide Leaflets* on request.

Current copies of *Natural History*, the bimonthly magazine of exploration, adventure and scientific progress.

The Classes of Members are:

| | | | |
|---|-----|----------------------------|--------|
| Associate Members (non-resident)* (annually)..... | \$3 | Fellows..... | \$500 |
| Annual Members (annually).... | 10 | Patrons..... | 1,000 |
| Sustaining Members (annually). 25 | | Associate Benefactors..... | 10,000 |
| Life Members..... | 200 | Associate Founders..... | 25,000 |
| | | Benefactors..... | 50,000 |
| Members of Endowment Class.... | | \$100,000 | |

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.

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*Through election in recognition of distinguished scientific
service to the Museum to the year 1925*

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*Through election in recognition of distinguished scientific
service to the Museum to the year 1925*

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Through honorary election on recommendation of the Scientific Staff

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

INSTITUTIONS WITH WHICH THE MUSEUM IS COOPERATING

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

CITY OF NEW YORK—PUBLIC INSTITUTIONS

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

ENDOWED INSTITUTIONS OF NEW YORK

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

AMERICAN AND FOREIGN MUSEUMS WITH WHICH THE MUSEUM IS COOPERATING

ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA, Philadelphia, Pa.
AMERICAN ASSOCIATION OF MUSEUMS
AUSTRALIAN MUSEUM, Sydney, Australia
BERNICE P. BISHOP MUSEUM, Honolulu, Hawaii
BOY SCOUT MUSEUM, Palisades Interstate Park
BRITISH MUSEUM (Natural History), London, England
BUFFALO SOCIETY OF NATURAL SCIENCES, Buffalo, New York
CALIFORNIA ACADEMY OF SCIENCES, San Francisco, California
CANTERBURY MUSEUM, Christchurch, New Zealand
CARNEGIE MUSEUM, Pittsburgh, Pennsylvania
CHARLESTON MUSEUM, Charleston, South Carolina
CLEVELAND MUSEUM OF NATURAL HISTORY, Cleveland, Ohio
COLORADO MUSEUM OF NATURAL HISTORY, Denver, Colorado
DAVENPORT ACADEMY OF SCIENCES, Davenport, Iowa
DURBAN MUSEUM, Natal, South Africa
FIELD MUSEUM OF NATURAL HISTORY, Chicago, Illinois
FLORIDA GEOLOGICAL SURVEY MUSEUM, Tallahassee, Florida
FLORIDA STATE MUSEUM, Gainesville, Florida
GEOLOGICAL INSTITUTE, UNIVERSITY OF PADUA, Padua, Italy
GEOLOGICAL MUSEUM, UNIVERSITY OF NEBRASKA, Lincoln, Nebraska
GEOLOGICAL MUSEUM, UNIVERSITY OF TORONTO, Ontario, Canada
GEOLOGICAL PALAEONTOLOGICAL INSTITUTE, UNIVERSITY OF TÜBINGEN
GEOLOGICAL SOCIETY OF CHINA, Peking, China
GEOLOGICAL SURVEY OF CHINA, Peking, China
HUNGARIAN NATIONAL MUSEUM, Budapest, Hungary
IMPERIAL UNIVERSITY OF TOKYO, Tokyo, Japan
INSTITUT DE PALÉONTOLOGIE HUMAINE, Paris, France
INSTITUTO OSWALDO CRUZ, Bello Horizonte, Minas Geraes, Brazil
K. K. NATURHISTORISCHES HofMUSEUM, Vienna, Austria
LOGAN MUSEUM, Beloit College, Beloit, Wisconsin
J. MILN MUSEUM, Carnac, France
MINING AND GEOLOGICAL MUSEUM, Sydney, Australia
MUSÉE DU CONGO BELGE, Tervueren, Belgium
MUSÉE ROYAL D'HISTOIRE NATURELLE DE BELGIQUE, Brussels, Belgium
MUSEO DE LA PLATA, La Plata, Argentina
MUSEO NACIONAL DE HISTORIA NATURAL, Buenos Aires, Argentina
MUSEO SALESIANO, Punta Arenas, Chile
MUSEU NACIONAL, Rio de Janeiro, Brazil
MUSEUM DE PALÉONTOLOGIE, Paris, France
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THE AMERICAN MUSEUM ENDOWMENT

**FIFTY-SEVENTH ANNUAL REPORT OF
THE PRESIDENT OF THE AMERICAN
MUSEUM OF NATURAL HISTORY
FOR THE YEAR 1925**

To the Members of The American Museum of Natural History:

The first Annual Report of The American Museum of Natural History was a pamphlet of thirty pages, written by Joseph H. Choate, a Trustee and Founder of the Museum.

Beginning in 1921, the Reports by President Henry Fairfield Osborn have become contributions to the theory and practice of Museum Education, Development and Administration, as indicated by the successive titles:

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

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

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

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

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

Standard bound copies of these contributions to Education are issued to 400 Educational Institutions, Libraries, and Museums, and to the 8,500 members of various classes of the Museum. They include acknowledgment of all gifts and services to the Museum of the previous year.

THE AMERICAN MUSEUM ENDOWMENT

PRESIDENT HENRY FAIRFIELD OSBORN

On April 8, 1861, President Lincoln, warning his friend Governor A. G. Curtin of Pennsylvania of the approaching Civil War, wrote:

"I think the necessity of being ready increases. Look to it."

Marshal Joffre distributed the following *ordre du jour* to the armies of France, about midday, September 5, 1914:

"Au moment où s'engage une bataille dont dépend le salut du pays, il importe de rappeler à tous que le moment n'est plus de regarder en arrière. Tous les efforts doivent être employés à attaquer et à refouler l'ennemi. Une troupe qui ne peut plus avancer devra, coûte que coûte, garder le terrain conquis et se faire tuer plutôt que de reculer. Dans les circonstances actuelles, aucune défaillance ne peut être tolérée."

General Foch, commanding the IX. Army, to G. H. Q. on September 8, 1914, issued the following general order:

"Mon centre cède, ma droite recule, situation excellente, j'attaque."

"**D**O THE MOST IMPORTANT THING FIRST," the life motto of Samuel J. Tilden, may be adopted in every department of the American Museum for our daily guidance in a confused era of civilization caused by the World War. At the present moment the Museum is in the financial doldrums. We are not keeping pace with the educational demands upon us. We are not filling our pledges to the City and to the State in preparing the new exhibition halls. We are not advancing as we should because of the 'high cost of living' crisis. Cost of labor and materials, 140% higher than they were ten years ago, have cut in two the effective value of the gifts of ninety-one friends to our Endowment. The interest on our Endowment, according to the strict agreement with

the testators and donors, is to be used solely for scientific research, scientific exhibition and popular education—not for either Maintenance or Building. Consequently the most important thing in this crisis is to double our present Endowment Fund and to raise it to not less than \$20,000,000 instead of the present inadequate figure of \$11,200,000.

The splendid gifts and bequests of President and Mrs. Morris K. Jesup, of Mr. J. Pierpont Morgan, of Mrs. Russell Sage, and others, were designed in their day to permanently sustain the institution they founded and loved, but that day has gone and a new day has come of the doubling of national wealth and of world responsibility they did not dream of. We are none the less grateful, and in this demand for New Endowment let us first memorialize the generous givers, past and present, by that which we are doing.

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The total sum received from these generous donors is . . . \$10,972,980.12.

In the financial section of this report, on page 131, our Treasurer lists in full the amounts given by these ninety-one contributors to our present Endowment Fund during the period 1884-1925. The amounts vary from \$10 to the \$6,225,000 contributed by Mr. and Mrs. Morris K. Jesup. The total Endowment which we have received from the fees of Patrons is \$23,000; from Fellows, \$8,000, and from Life Members, \$75,500. All of these fees now are placed aside as permanent investments for the future. Consequently we are inviting contributions of all amounts as an expression of the confidence of our Members and friends in what the Museum is doing in the cause of education and civilization.

PURPOSES OF THE NEW ENDOWMENT FUND

We propose to secure the new Endowment Fund of \$8,800,000, not by a "drive" but by the daily demonstration of what the American Museum is actually doing throughout the civilized world, in research and publication, and in education from the

primary school to the highest university grade, not alone in America but in distant countries like Russia, Mongolia and China. It is no exaggeration to say that no school, college or university in the entire civilized world to-day is untouched by current American Museum discovery and exploration, by profound and far-reaching American Museum research, and by the ever-widening knowledge of Nature in all its phases, obtained by our adventurous and highly trained explorers.

The broad field occupied by American Museum methods of visual inspiration and education is now extending into Astronomy, and through a tour of Germany, Austria and Great Britain we have recently ascertained that America is very backward in astronomic education. This knowledge of American backwardness in astronomic education has strengthened our purpose to place Astronomy in the very center of our great building, setting forth the celestial aspects of Nature as the most ancient of the sciences. Beginning, therefore, with the study of our collections of meteorites and our studies of the eclipses, we may place in time this great subject at the head of our educational column, as follows:

ASTRONOMY
GEOGRAPHY
GEOLOGY
MINERALOGY
PALÆONTOLOGY
ZOOLOGY

ZOOGEOGRAPHY
COMPARATIVE AND
HUMAN ANATOMY
ANTHROPOLOGY
PHYSIOLOGY AND
HEALTH

Several of these ten great subjects are subdivided into important branches. For example, in Zoölogy alone we care for six great branches, namely:

Lower Invertebrates—Lower Aquatic and Terrestrial Life of the World.¹

Entomology—the Insect Life of the World.

Ichthyology—the Fish Life of the World.

Herpetology—the Amphibian and Reptilian Life of the World.

Ornithology—the Avian Life of the World.

Mammalogy—the Mammalian Life of the World.

¹The present geographic and geologic extent of the American Museum collections in these historic fields of zoölogic study, dating back to Aristotle's "*Historia Animalium*," has been fully set forth by all the Curators of the Museum in our *Fifty-fifth Annual Report*, "*The American Museum and the World*," published in 1924.

Each of these branches requires a staff of highly trained specialists and explorers, who are at the present time enriching our collections in no less than ten expeditions¹ in various parts of the world, namely:

Vernay Angola Expedition to Portuguese West Africa, under Mr. Arthur S. Vernay and Mr. Herbert Lang.
 Central Asiatic Expeditions, under Dr. Roy Chapman Andrews.
 Martin Johnson Expedition to Central Africa.
 African Hall Expedition, under Mr. Carl E. Akeley.
 Ruwenzori-Kivu Expedition, under Dr. James P. Chapin.
 Panama Expedition, under Dr. Frank M. Chapman.
 Porto Rican Expedition, under Mr. H. E. Anthony.
 American Museum Greenland Expedition, under Mr. George Palmer Putnam.
 Douglas Burden Expedition to Komodo, East of Java.
 Morden-Clark Expedition to Central Asia.

None of the vast collections which are coming to us from all parts of the world can be made effective without scholarship of the highest order. For example, the *Hall of the Age of Man*, Number VI of the "Life History of the Earth" series, is an epitome of 125 years of intensive research; it began with Blumenbach's recognition in 1799 of the Woolly Mammoth (*Elephas primigenius*) as an animal certainly antedating the flood, and ended with the recently discovered truth that man existed on the earth 500,000 years ago.

This Hall (VI) represents the human climax of the life history of the earth, the successive stages of which are planned to fill six exhibition halls and corridors arranged in a circular sequence, as follows:

LIFE HISTORY OF THE EARTH SERIES

AGE OF MAN—VI

AGE OF INVERTEBRATES—I

AGE OF MAMMALS—V



AGE OF FISHES, AMPHIBIANS
AND PRO-REPTILES—II

AGE OF MARINE
REPTILES—IV



AGE OF TERRESTRIAL DINOSAURS—III

¹While Mr. W. K. Vanderbilt's voyage to the Galapagos Islands is not primarily an American Museum Expedition, it is fully equipped for oceanic natural history and will greatly enrich our deep-sea and littoral collections.

The arrangement of the exhibition in the *Hall of the Age of Man* has in itself involved twelve years of incessant study and preparation; in this Hall in a single afternoon a class of school, college or university students can learn more about the prehistory of man and can gain a clearer conception of the age-long labors of Nature to produce man than from any book which could be written. It is for the high educational and inspirational value of this kind of scholarship, this kind of visual instruction, this kind of thorough learning, *that the American Museum needs an additional Endowment of \$8,800,000 at the very present moment.*

We have absolute faith in the magnanimous purposes of the American people and absolute confidence in the generosity of our friends, our Members, and our Trustees, as soon as the conviction is brought home to them that the American Museum system of education is absolutely essential to American civilization, to American progress, and to human progress. To produce such conviction we are bound to break down certain preconceptions and prejudices against Nature as the most reliable and best of teachers, a certain traditional reliance upon old scholastic methods of book education—good in the days of sternly enforced discipline in school and in college, but no longer effective in this modern day when every subject *is forced to win its own way through its own inherent inspiration and attractiveness.*

Inspiration, thoroughness, breadth, and competition or struggle for existence are the four watchwords for the regeneration of American education to-day. The great majority of our underpaid and underfed teachers in this country fail to inspire, fail in thoroughness, fail in breadth, however earnest, self-sacrificing and ideal their purposes may be; consequently the average product of American schools reflects the average mental quality of the teacher. To give not only pupils but teachers this *élan vital*, the SCHOOL SERVICE BUILDING has been wisely erected by unanimous action of the Board of Estimate and Apportionment of the City of New York—a building unique in the history of school education throughout the world. The chief purpose of this great building will be to translate the whole world of Nature, as shown in our old and new collections on sea and land and in the sky, for the benefit of the school, college and university mind. This building, therefore,

marks a new epoch in education and is dedicated to the memory of those eight great teachers who have ever taken their pupils back to Nature for inspiration, breadth and thoroughness, namely:

SOCRATES

PLATO

ARISTOTLE

BACON

ROUSSEAU

PESTALOZZI

FROEBEL

AGASSIZ

The name of SOCRATES is chosen as the author of the Socratic Method, the direct contact of the mind of the teacher and the student; PLATO as the author of the spiritual, moral and physical standards in the training of the citizen; ARISTOTLE as the first great teacher of natural history and of evolution; BACON as the author of the modern inductive scientific method; ROUSSEAU as inspiring the development of the individual; PESTALOZZI as introducing object teaching in schools; FROEBEL as the author of the visual and manual method in the education of children; AGASSIZ as the exponent of direct observations from Nature rather than from the reading of books. These eight men foreshadowed the kind of education which we are endeavoring to establish through the American Museum of Natural History, and their names will appear on a Tablet at the entrance of our SCHOOL SERVICE BUILDING.

On the moral and spiritual side, as well as the intellectual, every dollar put into the Endowment of the American Museum is an antidote to the worst tendencies of our day and a specific to inspire and cultivate the best and noblest tendencies not only in American life but in the life of the world. An ounce of educational prevention is worth a pound of humanitarian cure. In the long run our desired \$8,800,000 of new Endowment, permanently invested in the cultivation of the best elements of human youth and life, will be more effective than the \$100,000,000 we are expending annually in America in the care of criminals, defectives, delinquents and the insane. Largely attributable to the wonderful educational campaign of the American Museum in the cause and prevention of tuberculosis, conducted under the direction of Dr. Livingston Farrand, now President of Cornell University, is the steady decline

in this dread malady from a death rate of 144 per 100,000 population in 1908, the year of the campaign, to a death rate in 1924 of 79 per 100,000 population.

Again, largely attributable to the American Museum's efforts in organizing the International Congress of Eugenics in the year 1921, and through the collaboration with Professor Osborn, President of the Congress, of several of the great eugenicists of this country—Drs. H. H. Laughlin, C. C. Little, Charles B. Davenport, Raymond Pearl, E. M. East and others—was the action of Congress in stopping the flood of undesirable emigrants from every country in Europe. Through its President, the Museum took an equally active part in the conservation of American natural resources: in the successful movement of California known as "Save the Redwoods"; in the unsuccessful movement of the same great State, "Save the Hetch-Hetchy Valley from Destruction"; also in the successful national movement to render free from Federal Income Tax, gifts and donations to educational and humanitarian institutions.

EDUCATION THROUGH OUR LIBRARY AND PUBLICATIONS

The American Museum has suffered an irreparable loss in the death of our Librarian, Ralph Winfred Tower, on January 26, 1926. Under his discerning leadership the Library has grown from 35,000 volumes in 1902 to 103,000 in 1925, and has become one of the most complete and useful Libraries of natural history in the world, although we are still lacking some of the older natural history classics possessed by our sister institutions, Columbia University, Library of the Academy of Natural Sciences of Philadelphia, etc. Through his liberal policy of administration, our books are interchanged with thirty-nine of the chief American libraries—in fact, wherever they are needed for research, on the principle that every work is of value only as it is made of use in scientific research.

Doctor Tower's genius was also manifested in enlisting the interest of many friends and benefactors, including the late Mr. Anson W. Hard, and of Mr. Ogden Mills to whom we are indebted for the recent purchase of the valuable Library of the New York Academy of Sciences.

Under Doctor Tower's supervision complete series of our scientific publications are deposited with 100 leading scientific institutions whose objects are similar to our own. This distribution includes *The Memoirs of the American Museum*, of which seventeen volumes have appeared; *The Bulletin of the American Museum*, now in its fifty-second volume; *Novitates*, now in its 205th number. The summary of this distribution by countries is as follows:!

ACADEMIES, LIBRARIES, LEARNED INSTITUTIONS

| | | |
|-----------------|-------------|-----------------------------|
| Algeria | Hawaii | Portugal |
| Australia | Holland | Roumania |
| Austria | Hungary | Siberia |
| Belgium | Iceland | South Africa |
| Central America | India | South America |
| Cuba | Italy | Spain |
| Czecho-Slovakia | Japan | Switzerland |
| Denmark | Java | Sweden |
| Egypt | Mexico | Syria |
| France | New Zealand | United States of America |
| Germany | Norway | Union of Socialistic Soviet |
| Great Britain | Philippines | Republics |
| Greece | Poland | |

The AMERICAN MUSEUM PRESS, founded by the Trustees in 1903, for the past three years has been developed and administered under Dr. Ralph W. Tower. It is now the most effective and productive scientific press of its kind in the world. Equipped with the most modern presses and typesetting machines, it issues our entire series of scientific publications—*Monographs*, *Memoirs*, *Bulletins*, *Novitates*, *Popular Handbooks*, *Guide Leaflets*, also the present annual edition of more than 75,000 copies of *Natural History*, with its beautiful plates, half-tones, and duo-tone illustrations; labels, membership circulars and cards, letter-heads, and finally the President's *Annual Report* of which there is an edition of 10,500 copies. The annual expenditure for all these purposes totals \$68,000.00, which represents an annual saving of \$14,000.00 or 20.6%, as compared with what similar work would cost us if done outside of the Museum.

EDUCATION THROUGH SCHOOLS, COLLEGES AND UNIVERSITIES

As the source of authoritative information in matters pertaining to general science, the American Museum continues to exert an increasingly wide influence in school, college and university education. The scientific publications of its staff members, as well as the more popularly written articles of natural history, are extensively drawn upon, not only by the press and the regular magazines but by the higher institutions of learning.

As enumerated in "The American Museum and the World," *Annual Report* for 1923, page 23, the summary of our collections from various parts of the world is approximately as follows:

| | |
|---|-----------|
| Meteorites..... | 3,229 |
| Minerals and Gems..... | 18,000 |
| Geologic Specimens..... | 17,895 |
| Invertebrate Fossils, Palæontology..... | 662,042 |
| Vertebrate Fossils, Palæontology..... | 30,000 |
| Invertebrates..... | 233,034 |
| Insects..... (about) | 1,000,000 |
| Fishes..... | 30,000 |
| Amphibians and Reptiles..... | 57,500 |
| Birds of the World..... | 250,000 |
| Mammals of the World..... | 50,400 |
| Anthropological Collections..... | 1,250,000 |

These collections form the solid basis of enduring scientific research in Geology, Mineralogy, Astronomy, Palæontology, also in all branches of Zoölogy and Anthropology, for, in the language of Wordsworth:

*"To the solid ground
Of Nature trusts the mind which builds for aye."*

The Museum's library of more than 100,000 photographs is another means of wide dissemination of American Museum discoveries. This library contains not only photographs of the exhibits in the exhibition halls, planned and executed with much care and accuracy, but the field photographs taken on our various expeditions in all parts of the world. This illustrative material is unique;

it is in continual demand for use in textbooks and other publications and is frequently supplied for classroom work in the study of art and science. The American Museum pursues a very liberal policy in the distribution of its photographs for use in school, college and university textbooks. During the years 1923-1925, the following publishers have taken advantage of this liberality:

| | |
|------------------------------------|-------------------------------|
| The London Illustrated News. | American Book Company—1 |
| L'Illustration. | volume. |
| Cosmos. | Macmillan Company, 2 volumes. |
| Scientific American. | Harper and Bros.—1 volume. |
| The World's Work. | The Bobbs-Merrill Company—1 |
| The World Book Company—6 volumes | volume. |
| on Hygiene, Physiology, Geography | Doubleday, Page and Company—1 |
| and Chemistry, including such dis- | volume. |
| tinguished authors as David Starr | McGraw-Hill Book Company— |
| Jordan. | 1 volume. |
| G. P. Putnam's Sons—1 volume, | Charles Scribner's Sons—2 |
| "Through Field and Woodland." | volumes. |
| H. F. and G. Witherby—1 volume. | |

All together, in the last three years, seventeen volumes have been issued by American publishers, with American Museum coöperation, in addition to translations of Professor Osborn's works recently appearing as standard textbooks in France, Italy, Bulgaria and Russia.

The exhibition halls of the Museum are increasingly utilized by the colleges and universities for objective teaching with classes. This includes Columbia University, New York University, City College, Cornell University, Rutgers College, Yale University and Princeton University. At the present time the halls most used in this way are the Morgan Hall of Minerals, the series of Anthropological Halls, the Life History of the Earth Series, the Darwin Hall of Biology, and the Halls of Bird and Mammal Life. These Halls are thronged with students and visitors of all ages, eagerly seeking exact information.

It is perhaps to the municipal problems of education that the Museum makes its greatest contribution. It is entirely to this that we owe the recent appropriations for building, especially that for the construction of the School Service Building. Classroom instruction in history, geography and science, more than ever before,

is being supplemented by the use of slides and motion pictures. In this field the American Museum stands as the chief source of these visual aids for the City. Our incomparable collection of lantern slides, now numbering more than 90,000, is freely available for all the public schools of the City, while the rapid growth of our library of motion picture films, as a result of Museum expeditions, such as the Central Asiatic Expeditions and the Martin Johnson African Expedition, has made it possible for the Museum to supply to the schools motion pictures of the best quality and of high educational value. Mr. Sherwood, to whom more than to anyone else the City is indebted for the building up of our great Department of Education, estimates that a new Endowment of \$1,500,000, yielding \$75,000 annually, is necessary to give to the City school population of 1,000,000 the full advantage of the great resources of the American Museum. Toward this noble purpose an initial contribution of \$100,000 from the late Dr. James Douglas may be allocated.

INTERNATIONAL COOPERATION WITH THE AMERICAN MUSEUM

The leading example of international coöperation is the establishment of the *Parc National Albert*, in the Kivu District of Africa, as a sanctuary for gorillas, one of the vanishing types of animals in the heart of Africa. This exceptional movement was initiated through the cordial coöperation of Baron de Marchienne E. de Cartier, Belgian Minister at Washington, through the suggestion of our explorer, Mr. Carl E. Akeley, that this great reservation should be made. After two years of conferences and correspondence, Baron de Cartier informed us that this plan had been consummated, and Mr. Akeley was received by King Albert of Belgium on his way to his fifth African journey.

The extraordinary success of our explorations and researches in foreign lands is due in no small measure to the cordial support and friendly coöperation of foreign countries. This friendly spirit by other countries towards the Museum has been fostered by the continued interest of our State Department, which has given most willing and immediate consideration to Museum expeditions, and has been most efficient in presenting them to foreign governments. Thus, in the Angola Expedition, under the leadership of Mr.

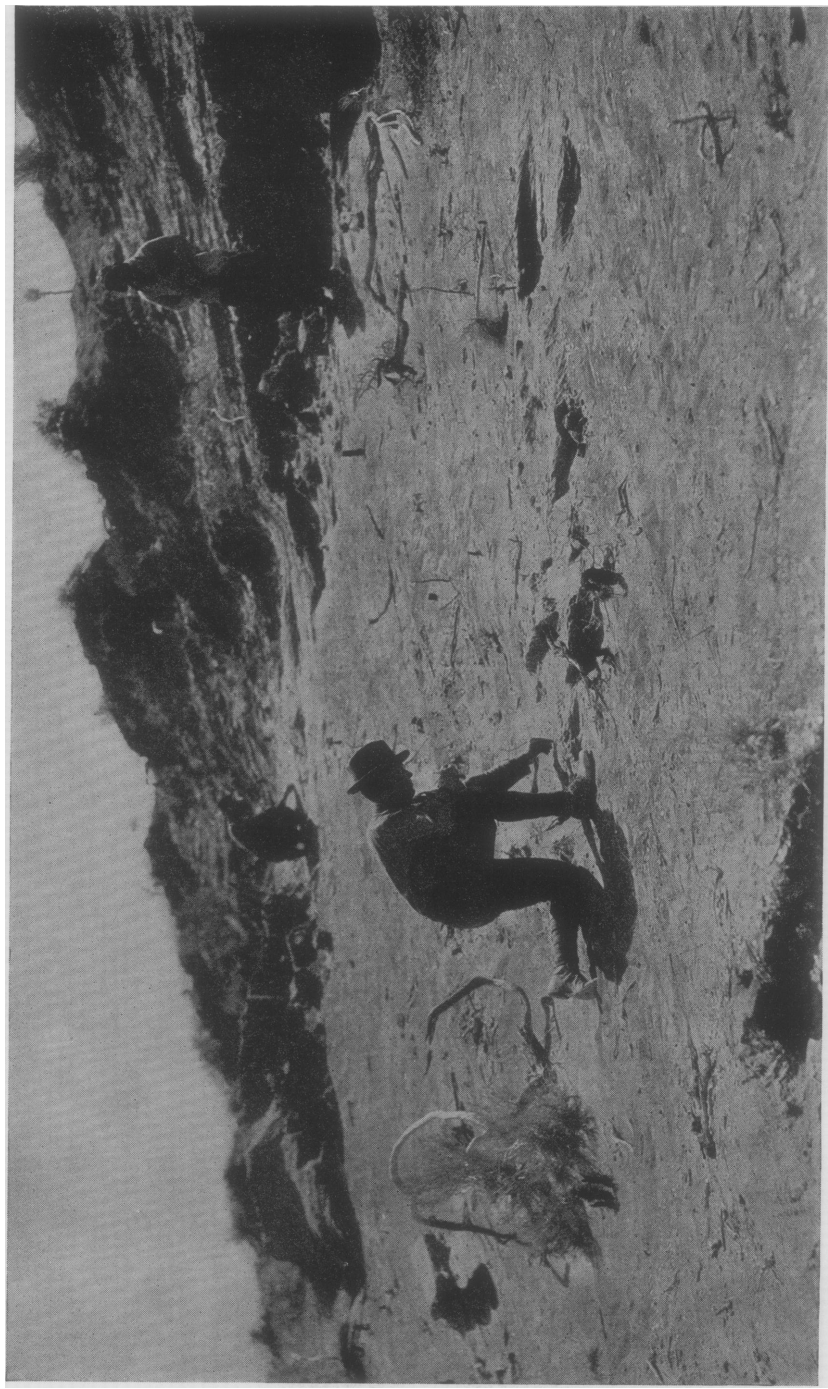
Arthur S. Vernay, the Portuguese Government rendered special courtesies which greatly facilitated the work of this expedition. Our African Hall Expedition, under the leadership of Mr. Carl E. Akeley, and our Ruwenzori-Kivu Expedition, led by Dr. James P. Chapin, have taken the field with special permits and concessions by the British and Belgian Governments. The Netherlands Government is coöperating extensively in the William Douglas Burden Expedition to the Island of Komodo, east of Java. The Central Asiatic Expeditions, led by Dr. Roy Chapman Andrews, have maintained friendly relations with the Chinese and Mongolian Governments. The list of governments and of officials coöperating with the Museum expeditions of the year 1925 is as follows:

- Vernay Angola Expedition:* Honorable the Secretary of State, Washington, D. C.
 J. Butler Wright, Assistant Secretary of State, Washington, D. C.
 Fred Morris Dearing, American Minister at Lisbon.
 American Consul at Loanda.
 Portuguese Government, Lisbon.
 President of Portugal, Lisbon.
 Governor General of Angola.
 His Excellency Captain Antonio Monteiro Correia de Silva, Minister of the Colonies.
 Doctor Joaquin Pedro Martins, Minister of Foreign Affairs.
 His Excellency General Sir Norton de Mattos, G. C. M. G., Portuguese Ambassador to Great Britain.
- Expedition to Peru and Ecuador (Murphy and Heilner):* Dr. L. S. Rowe, Director, Pan American Union.
 Miles Poindexter, Embassy of the United States to Ecuador.
 Francisco Banda, Legation of Ecuador.
 Dr. Gerhard A. Bading, U. S. Minister to Ecuador.
 Dr. Rafael H. Elizalde, Minister of Ecuador to the United States.
 Governor Elizalde of the Province of Guayas, Ecuador.
 F. Ballén, Director of the Peruvian Guano Administration.

| | |
|---|---|
| <i>Whitney South Sea Expedition to Polynesia:</i> | His Majesty's Consul, British Consulate, Tonga Islands. H. F. Batterbee, Undersecretary of State, Colonial Office, London. Government of New Zealand. |
| <i>Venezuela Expedition</i> (G. H. H. Tate): | United States Consul, Caracas, Venezuela. Venezuelan Consul, New York City. |
| <i>Expedition for Osborn Caribou</i> (Clark): | F. R. Butler, Secretary, Game Conservation Board, Vancouver, British Columbia. M. B. Jackson, Chairman of the Game Conservation Board. |
| <i>Ruwenzori-Kivu Expedition</i> (Chapin): | Honorable the Secretary of State, Washington, D. C. American Embassy to Belgium. Colonial Ministry in Brussels. American Embassy to Great Britain. Colonial Office in London. |
| <i>Burden East Indian Expedition to Island of Komodo</i> (Douglas Burden): | Honorable Secretary of State, Washington, D. C. American Minister at The Hague. Joseph C. Grew, Undersecretary of State, Washington, D. C. Legation at The Hague. |

It is a source of great satisfaction to be able to record that without exception the Museum representatives on these expeditions have never violated the trust placed in them by any government and that they have maintained the dignity and prestige of the Museum wherever they have been placed. As a result, the Museum enjoys an enviable reputation with all foreign governments, such that not one of our requests for coöperation and assistance in carrying on our scientific work has been denied.

A temporary misunderstanding with the Government of Mongolia at Urga, widely reported by cable all over the world, was entirely relieved by the receipt of the following cablegram from the President of the Scientific Committee of the Mongolian Government at Urga:



DEPARTMENT OF ANTHROPOLOGY
THE DUNE DWELLERS OF SHABARAKH USU
Mr. N. C. Nelson of the Central Asiatic Expeditions staff collecting prehistoric implements in the Gobi Desert

YOUR LETTERS AND PARCELS RECEIVED. ADVISE FOLLOWING: HAVING RECEIVED REPORT FROM OFFICIAL REPRESENTATIVES REGARDING SUPPOSED UNSUITABLE BEHAVIOR OF EXPEDITION IT WAS INTENDED INVITE YOU ULAN BATOR FOR EXPLANATIONS BUT MEANWHILE YOU HAD ALREADY GONE ABROAD. OUR GOVERNMENT IN ANY CASE DID NOT AND HAD NO INTENTION OF EXPELLING EXPEDITION FROM TERRITORY OF MONGOLIAN REPUBLIC AND INFORMATION IN PRESS REGARDING THIS IS WHOLLY FALSE RUMOURS. THEREFORE WE EXPRESS HOPE THAT YOU WILL ACCORDING AGREEMENT SEND SCIENTIFIC COMMITTEES EVERYTHING PROMISED AND ALSO HOPE THAT YOU WILL PERSONALLY COME TO CLEAR UP THE ABOVE QUESTIONS AND ESTABLISH YET MORE CLOSE FRIENDSHIP.

In return for these courtesies, the American Museum is presenting duplicates from its original Asiatic collections and superb facsimile casts to Government institutions all over the world, including especially the Museum of the Geological Survey of China, the proposed Natural History Museum in Peking, and the proposed Natural History Museum in Urga.

NORTH, CENTRAL AND SOUTH ASIATIC LIFE

Considering that our invasion of the Continent of Asia is comparatively recent, beginning with the first tour of Dr. Roy Chapman Andrews in China in 1916-1917, we have advanced far beyond our fondest hopes toward a collection of the prehistoric and existing life of Asia which will be worthy of the Mother of Continents. In previous reports, especially in "The American Museum and the World," *Annual Report* of 1923, we gave a summary of the results of our entire Asiatic expeditions up to the end of the year 1923. Since that time, they have been vastly extended by the explorers on three expeditions, namely:

- Central Asiatic Expeditions under the leadership of Dr. Roy Chapman Andrews.
- Siwalik Hills and Burma Expeditions, under the leadership of Mr. Barnum Brown.
- Faunthorpe-Vernay Expeditions for the collecting of great game animals of southern India.

Morden-Clark Expedition for the great game animals of Central Asia.

Thus the characteristic fishes, amphibians, reptiles, birds and mammals are being collected, both for exhibition purposes and for scientific research. The fishes of China, now being studied by Associate Curator John T. Nichols of the Department of Ichthyology, will form a special volume in the final Central Asiatic Publications. The amphibians and reptiles will also be treated separately. The proposed volume on the birds is for the moment suspended, although we have enlisted the coöperation of Professor Peter P. Sushkin of the Zoölogical Museum at Leningrad.

The geology and geography of Mongolia form the subject of Volume II of the Central Asiatic publications, prepared by Professors Charles P. Berkey and Frederick K. Morris. This is nearing completion and is almost ready for the press. It will be issued in coöperation with G. P. Putnam's Sons.

The inrush of these generous gifts of new material is straining to the utmost our scientific staff in every department, but especially in Ichthyology, Herpetology, Mammalogy and Vertebrate Palæontology. It is also putting an unprecedented strain upon the American Museum press, which is three years behind in the publication of manuscripts approved and ready for printing. It is also putting a tremendous strain upon our Preparation and Exhibition Staff to prepare these educational exhibits for our eight great exhibition halls, namely: The South Asiatic Hall, the Oceanic Hall, the Hall of Fishes, the Hall of Amphibians and Reptiles, the Hall of Dinosaurs, the Hall of Marine Reptiles, the Hall of Primates, and the North Asiatic Hall.

This exhibitional work in new or newly arranged halls must be carried on without allowing the older exhibition halls of the Museum to suffer.

Consequently, it is in delayed preparation and exhibition, in delayed scientific research, in delayed printing and publication that the American Museum feels a veritable *embarrass de richesse*. We certainly cannot refuse these superb gifts of new materials coming to us from all parts of the world, often from the least expected quarters. Certainly, also, we must make every possible

endeavor to immediately *increase* our Endowment Fund to meet this unprecedented situation, due to the confidence and affection for the American Museum manifested not alone in this country but in many other parts of the world.

AFRICAN LIFE STUDIES

Progress in Africa, since the full report in 1923, has been no less astounding than that in Asia. Through entirely new and unsolicited gifts, we are coming into possession of hitherto unsurpassed African materials of all kinds, chiefly due to the following expeditions:

Angola Expedition and Collections, gift of Mr. Arthur S. Vernay.
Herbert Lang's tour of south Africa, through contributions of Mr. Arthur S. Vernay, Mr. Childs Frick and the Morris K. Jesup Fund.

The Martin Johnson Photographic Expedition, organized by Mr. Daniel E. Pomeroy, Mr. Frederick Trubee Davison, and Mr. Perry Osborn, and financed through the Martin Johnson African Expedition Corporation.

The Akeley Lion-Spearing Bronzes, modeled through gift of Mr. George D. Pratt and Mr. Childs Frick.

The Akeley Lion Group, through Morris K. Jesup Fund.

Installation of the temporary African Hall, through Morris K. Jesup Fund.

These munificent gifts to the African Hall have been followed by a special expedition for six African Hall Groups, which will be described in our next *Annual Report*. The entire plan and preparation of the exhibits for this hall are under the direction of Mr. Carl E. Akeley and form the subject of a special number of *The Mentor* for January, 1926, which appeared with the following foreword by President Henry Fairfield Osborn:

"For twenty-five years past, Carl Akeley has visioned the enduring preservation of the wondrous life of Africa in all the pristine beauty and grandeur of its natural environment. Encouraged by the backing of the American Museum, Mr. Akeley has journeyed to Africa four times, has conceived and planned an ideal African Hall and Gallery, has brought his sculptural and artistic technique to perfection and insured the quality of permanence, has written books, delivered lectures, inspired prospective friends and patrons—in short, has created the great movement which is now well underway."

This number of *The Mentor* contains contributions by Theodore Roosevelt, Stewart Edward White, Carl E. Akeley, D. G. Ross on the Martin Johnson Expedition, and a tribute to Herbert Ward, whose splendid African bronzes are in the United States National Museum. Mr. Akeley opens his article with the following sentences:

"When I came back from Africa in 1911, my mind saturated with the beauty and the wonder of the continent I had left, I was dreaming of African Hall. I am always dreaming dreams. Many of them have been forgotten. But the dream of African Hall lived to become the inspiration and the unifying purpose of my work. By 1912 my ideas were sufficiently defined to be laid before President Henry Fairfield Osborn and the trustees of the American Museum of Natural History, who approved them for immediate execution. Work was actually to begin on September 1, 1914. Then in August, soon after the invasion of Belgium, the trustees decided to postpone the undertaking for a few months until the trouble in Europe was over. The months stretched into years, and African Hall remained a structure on paper.

"Meanwhile I have gone ahead' as best I could, mounting the animals already collected and perfecting plans and methods. In his annual report of the American Museum for 1922, President Osborn called for a gift or a special endowment to finance African Hall, stressing this as the most pressing need of the institution. Now, through the generosity of Mr. George Eastman and Mr. Daniel E. Pomeroy, five of the large groups are to be provided for African Hall. Before this article is published I shall be on my way to Africa, this time accompanied by artists and taxidermists, happy in the knowledge that my years of preparation are ended and my big work actually begun.

"African Hall will be housed in a section of the American Museum that has been especially designed to provide for it a setting that is beautiful yet unobtrusive. Spaciousness and simplicity must be its keynotes. Broad entrances at either end will lead into a vast open hall, free from distracting architectural ornamentation and unobstructed by exhibition cases or supporting columns."

SOUTH AMERICAN LIFE

The expeditions for birds and mammals among the forests and mountains of our great neighbor on the south were continued with the aid of the Jesup Fund and by individual gifts from a number of friends and Members.

Dr. Frank M. Chapman, who received the award of the Elliot Medal for his work on "The Distribution of Bird-Life in Colombia," completed in 1917, is now sending to the press his companion volume on "The Birds of Ecuador," which is to be published through the aid of the Jesup Fund and through generous gifts received from friends. These are chiefly the birds of the Andean

System. The birds along the coast and on the neighboring Pacific Coast Islands have been recently described in Dr. Robert Cushman Murphy's fine volume on "The Bird Islands of Peru," as a sequel to the generous gifts of Mr. Frederick F. Brewster and Dr. Leonard C. Sanford, beginning in the year 1913. Our oceanic collections along the coast of South America are unparalleled in richness. To bring these results together, Doctor Murphy is undertaking a new and much larger work to be entitled "Oceanic Birds of South America," which will comprise a review not only of all our collections but of the remarkable physiographic and economic conditions of coastal bird-life. This fine undertaking is also aided by gift of Mr. Frederick F. Brewster. Since we last reported in 1923, we record the following:

Third Expedition to Peru and Ecuador by Curator Murphy and Mr. Van Campen Heilner, including observations on the Humboldt current.

Collection of birds from the Andean regions of Peru by Mr. Harry Watkins, through Jesup Fund.

Birds from the Panama region, through gift of Mr. Ludlow Griscom.

OCEANIC AND POLYNESIAN LIFE

The superb new OCEANIC HALL, occupying the Southeast Court, is the most imposing and most beautiful exhibition hall of the kind in the world. As a result of plans which have been continuously studied since 1912 and which are now being executed under the direction of the affiliated members of our Scientific Staff, this hall will contain an ideal exhibition of the life of the sea from the largest whales to the most minute polyps building up the Coral Islands. These exhibits will represent the following great divisions:

Whales, skeletons and models—chiefly the gift of the late Mr. George S. Bowdoin.

Great mammals of the sea-coast—the walrus, sea-lion, sea-elephant, seal, porpoise—chiefly the gift of the Morris K. Jesup Fund.

Shells of the sea—chiefly the gifts of the earlier benefactors of the American Museum—will occupy the gallery around the Oceanic Hall.

Corals and coral island fauna—chiefly the gift of the Morris K. Jesup Fund.

Whalers and whaling industry of Salem and Nantucket, represented in the whale life-boat exhibit and in the murals on the north wall.

Scientific methods of oceanographic deep-sea soundings, dredgings and representations of the work of the great American expeditions, including the recent voyage of the *Arcturus*.

The special explorations and expeditions which give us the basis for the exhibitions in this Hall are the whale voyages of Dr. Roy Chapman Andrews between the years 1911–1913, with the aid of the George S. Bowdoin Fund; the South Atlantic voyages in 1912–1913 of Dr. Robert Cushman Murphy, aided by Arthur Curtiss James; the voyage of the *Albatross* in 1911, under the leadership of Dr. Charles H. Townsend, aided by the gift of Mr. Arthur Curtiss James, and the recent voyage of the *Arcturus* under Mr. William Beebe, aided by gifts of members of the New York Zoölogical Society. The recent *Arcturus* Expedition has also greatly enriched the OCEANIC HALL, as well as the HALL OF FISHES. The names which might be enshrined at the entrance of this Hall, as explorers, donors and benefactors, as writers on sea life and as benefactors of the great science of Oceanography, would fill several memorial tablets, so that we shall have to confine our inscription and dedication to those who have directly built up the OCEANIC HALL.

Contributory up to the present time to this great purpose are the following expeditions:

The Whitney South Sea Expedition, under Mr. Rollo H. Beck, through gift of Mr. Harry Payne Whitney.

The Brewster-Sanford Expeditions along the South American Coast, through the gift of Mr. Frederick F. Brewster and Dr. Leonard C. Sanford.

The Albatross Expedition, the results of which have recently been published in the volume entitled *The U. S. S. Albatross in Lower Californian Seas*, dedicated to Mr. Arthur Curtiss James, who generously provided the funds for the expedition.

Expeditions to the Bahamas, under Dr. Roy W. Miner, gift of Jesup Fund, the Angelo Heilprin Exploring Fund, Mrs. William Belknap and Mr. J. E. Williamson.

The new HALL OF FISHES adjoins the DARWIN HALL OF BIOLOGY on the south and the OCEANIC HALL on the west. These three halls will form a natural sequence and will be treated artistically in the same color tone, suggestive of sea tints. The educational exhibits will be arranged in a natural zoölogic sequence, similar to the palæontologic sequence of the Life History of the Earth, namely: in the Oceanic Gallery there will be great collections of seashells and murals representing the broad ocean; the floor of the OCEANIC HALL will be devoted to the coastal life of the sea and coastal oceanic scenes; the Hall of Fishes will contain complete educational and biologic series with a dark interior space devoted to deep-sea life; the DARWIN HALL OF BIOLOGY will represent the beginning of life and the classification of the animal kingdom.

For the OCEANIC HALL, models and groups of coast mammals and whales from the older collections are being used, but newer collections are immediately necessary—collections that are prepared after modern methods. To aid this great purpose, the American Museum Greenland Expedition, under the leadership of our Member, Mr. George Palmer Putnam, is projected to complete our series of the sea mammals of the Arctic waters. This expedition will be reported upon fully in our next *Annual Report*.

The preparation of the FISH and OCEANIC HALLS and the rounding out of the collections for them are in themselves a stupendous undertaking and make a strong claim on our Members for special funds and for the New Permanent Endowment. Going at the present rate it is possible that these halls may be opened within the coming year, but it is certain that four or five more years will be required to complete the many groups and installations.

THE PROGRESS OF OUR BUILDING

The Trustees have resolved not to press forward new buildings until New Endowment is secured: consequently, the previous estimates of the costs of new buildings must be enlarged to include adequate Endowment for the scientific equipment, preparation and care of the exhibitions to be placed in them. While this will

raise the estimated cost of each building section, it will greatly enhance the interest of the donor or benefactor, providing for its complete educational equipment so as to form an educational unit. Modified in this manner, the six new sections planned, but not as yet donated, or appropriated for by the City of New York, are as follows:

| | Approximate ¹ Cost | Estimated ² Endowment | Total |
|--|----------------------------------|-------------------------------------|-----------------------|
| Section 13 —African..... | \$870,105.00 | \$500,000.00 | \$1,370,105.00 |
| “ 7 —Astronomical ... | 1,246,000.00 | 600,000.00 | 1,846,000.00 |
| “ 14 —Mexican and Central American | 2,400,000.00 | 500,000.00 | 2,900,000.00 |
| “ 15 —Australian..... | 679,900.00 | 400,000.00 | 1,079,900.00 |
| “ 16 —Lecture Amphitheater, seating capacity 3,800.. | 3,032,640.00 | 400,000.00 | 3,432,640.00 |
| | <hr/> \$8,228,645.00 | <hr/> \$2,400,000.00 | <hr/> \$10,628,645.00 |

During the past year continuous study has been given to the plans of the AFRICAN HALL by the President and Mr. Akeley; to the MEXICAN and CENTRAL AMERICAN HALL by Mr. Clarence L. Hay and the Architects; to the new LECTURE AMPHITHEATER by the President, aided by plans of the superb amphitheater erected in the City of Rochester by Mr. George Eastman. On the plans and equipment for the ASTRONOMICAL HALL, nearly \$20,000 has been expended up to the present time; superb plans have been prepared by Mr. Howard Russell Butler, with the aid of Professor Henry Norris Russell, Astronomer, of Princeton, New Jersey, and executed by our Architects at a cost of \$2,603.44. These plans are on exhibition at the entrance of the Pro-Astronomical Hall (West Corridor) and will be displayed before the National Academy of Sciences and other bodies. They provide not only for astronomy but for solar physics, chemistry, lunar and terrestrial topography and geology, and the exhibition of our great collection of meteorites. The central feature is a planetarium dome, illuminated by the Zeiss Projector. A special brochure is being prepared to make a complete exposition of these plans and the scientific purposes which they provide for. Detailed information about these plans is included in Doctor Fisher's report on Astronomy.

¹These costs are from estimates of cubage prepared by our architects in the year 1925.

²Maximum without City support.

One of the most encouraging events in the whole history of the American Museum was the recognition by the City of New York of the urgent need of additional building space by the generous appropriations amounting to \$2,966,485 for the erection of the Asiatic Wing, of the great Oceanic Building, of the new School Service Building, and for additions in the older halls. In connection with these wise and adequate provisions for the welfare of the school children of the City of New York, every recommendation made by the President and the Committee on Buildings and Plans was finally approved by the Board of Estimate and Apportionment by unanimous vote, but only after the most searching examination of the plans and estimates and after all the members of the Board had become thoroughly convinced of the urgent necessity of these buildings for our rapidly expanding collections and our rapidly widening educational work.

On our side we pledged the City that the exhibition halls would be filled with exhibits as soon as possible, and to fulfil this pledge we are now practically expending all the funds available, a total annual expenditure of \$200,000, in preparation and scientific supervision, directed solely to the purpose of preparation of educational exhibits.

Acting Director Sherwood and the following members of the Scientific Staff are giving unceasing attention to this really great scientific task of supervising the work of preparation and exhibition:

Doctor Lucas, Honorary Director;
Doctor Miner of the Department of Lower Invertebrates;
Messrs. Osborn, Brown and Mook of the Department of Vertebrate Palæontology;
Messrs. Gregory and Raven of the Departments of Fishes and Comparative Anatomy;
Doctor Noble of the Department of Amphibians and Reptiles;
Mr. Akeley of the Department of Mammals.

Each exhibition group, large or small, not only requires years of direct observation and experience in the field, but months of most precise and painstaking study in the Museum. Each group must represent the sum of our knowledge of the habits and habitats of the animals exhibited and each must tell an absolutely truthful story.

It is for this high scholarship and research, on which the widespread authority and reputation of the American Museum depend, that additional Endowment is needed. In fact, the Trustees have resolved that future gifts for building shall be accompanied by Endowment commensurate with the preparation and scientific care of the buildings; consequently the sum of \$5,200,000 (part of the \$8,800,000 New Endowment requested)—to be devoted to *the preparation and exhibition of new collections and to our scientific and educational progress*—is according to a very close estimate of actual needs.

The interest on the desired New Endowment Fund of \$8,800,000 would be applied to the following purposes:

| | <i>Principal</i> | <i>Interest</i> |
|--|------------------|-----------------|
| For the preparation and exhibition of new collections..... | \$3,000,000.00 | \$150,000.00 |
| For the purchase of books as a Memorial to Curator Ralph Winfred Tower, Librarian for 23 years..... | 100,000.00 | 5,000.00 |
| For the full utilization of the new School Service Building, recently erected by the City, and the extension of the Museum's service to the schools..... | 1,500,000.00 | 75,000.00 |
| For exploration, research and publication..... | 2,000,000.00 | 100,000.00 |
| For general scientific and educational administration of the Museum..... | 2,200,000.00 | 110,000.00 |
| | <hr/> | <hr/> |
| | \$8,800,000.00 | \$440,000.00 |

THE SPIRIT OF LINCOLN, JOFFRE AND FOCH

The present financial outlook is grave; the situation demands courage and faith in the future such as was mustered a few years ago when we faced a building crisis.

We have convinced the City of New York of the value of our methods of education to the youth of the City; we have convinced the State of New York of the value of our methods of education to the youth of the State. We are in the midst of a civilization which owes all its wealth and all its health to science as the interpretation of Nature. In this community of abounding means, of unlimited patriotism and love of country, shall we not find men and women who will follow the great example set by our Founders and earlier Benefactors and complete the financial

foundations of the American Museum, enabling us to resume our forward march to conquer the hosts of the ignorant and to allay the sufferings which afflict humanity through ignorance of the Laws of Nature?

At the beginning of this introduction to the President's *Fifty-seventh Annual Report* are cited the stirring words of President Lincoln, of Marshal Joffre and of General Foch in great crises of history. The immortal lines of General Foch are especially appropriate in the present crisis in the American Museum. The spirit, morale and intellectual equipment of the Museum are without parallel in the previous history of the institution. We have never before combined so much youth, intelligence, energy and readiness to advance. Our plans for progress are perfected through many years of synthetic endeavor. We are ready to create and complete an educational institution well conceived, well rounded, to meet the demands in every branch of educational endeavor within the municipal, national and academic fields. The response to the educational efforts we have already made is nation-wide and world-wide. Our forward motion, which should be prompt and immediate, is retarded and halted only for want of the sinews of war, in other words, of adequate Endowment.



II. EDUCATIONAL AND SCIENTIFIC REPORTS

GEORGE H. SHERWOOD, Acting Director

The dominating feature of the activities of the scientific departments of the Museum during the year 1925 was *preparation*. This became of first importance because the City had just completed the erection of six new exhibition halls, and it was necessary to occupy them in order to fulfil our promises to the city authorities and to make effective this new equipment. Excellent progress has been made with the installation for the new halls, under the immediate direction of Mr. James L. Clark, Assistant Director in charge of preparation. Six large groups of the mammals of India, collected by the Faunthorpe-Vernay expedition, have been completed for the Asiatic Hall. The stupendous task of transferring our incomparable collection of dinosaurs to the new Dinosaur Hall is progressing satisfactorily under the direction of Professor Osborn and the immediate supervision of Mr. Barnum Brown. This alone requires months of the most careful work. The reptile groups have been transferred to the new Reptile Hall, and, under Curator Noble's direction, several new groups have been completed, including a group of the most ancient existing lizard, the *Sphenodon* from New Zealand. Curator Gregory has developed the plans for the Fish Hall, which promises to be of wide public interest. In the Hall of Ocean Life, the installation of the Sea Lion and Sea Elephant Groups, the hanging of four of the big whale skeletons, and the preparation for the Coral Reef Group give some indication of how attractive and impressive this hall will be when completed.

In the meantime, Mr. Akeley has been applying himself to the African Hall Plans. He has completed his three groups in bronze, showing Lion-Spearing, and has mounted the first of his African Hall Habitat Groups—the Lion Group, into which he has introduced several new features of lighting and installation.

The financing of these preparation plans has made it necessary to curtail other activities of the scientific departments to a considerable extent. Consequently all field work was suspended, except where provided for by special contributions. Similarly, publication of the results of researches has been reduced or suspended because of lack of funds. This is to be deeply regretted

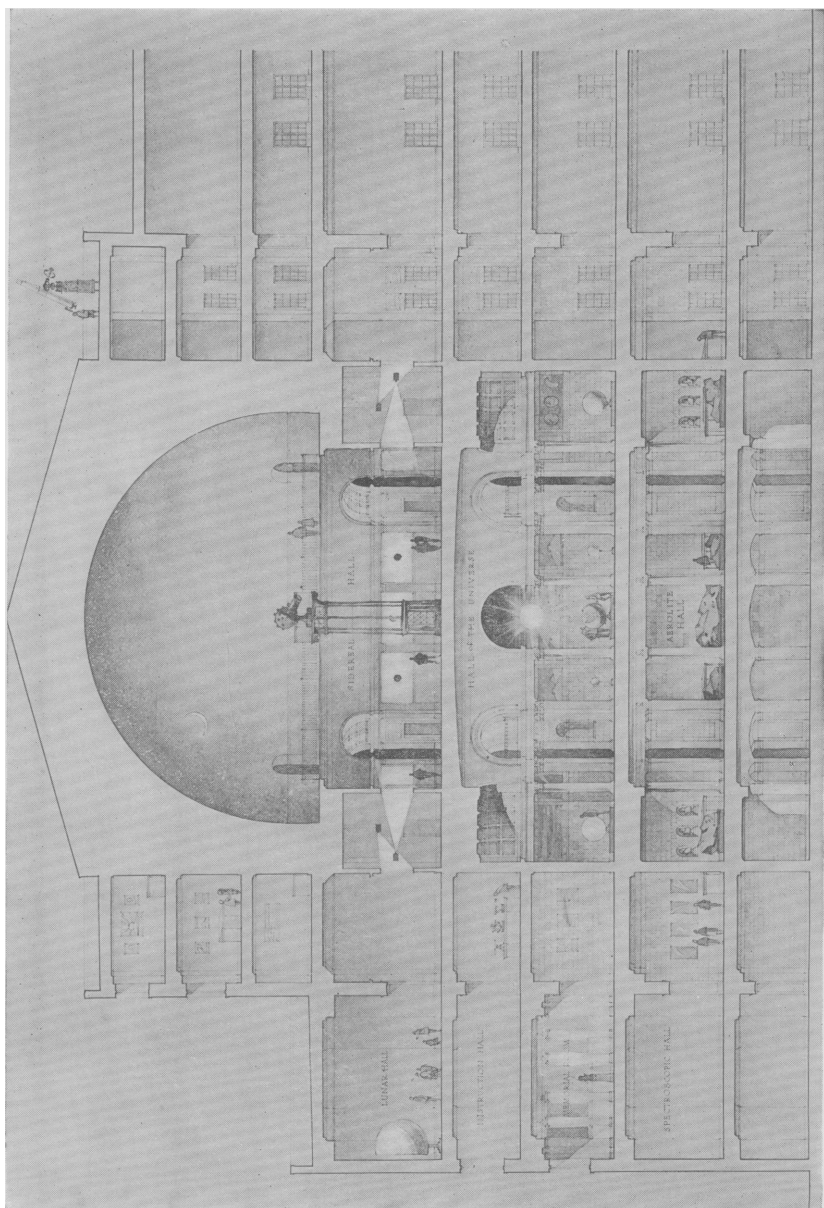
because there are now on hand some seven volumes of the *Bulletin* awaiting publication.

In spite of these drawbacks, the members of our Scientific Staff have devoted themselves to their department duties, and we may point with pride to the results they have accomplished and the public service they have rendered. The Acting Director has the honor to present herewith the Curators' Reports, covering the details of the work of the scientific departments, which are presented as follows:

| | |
|---|---------------------|
| Astronomy: | Clyde Fisher |
| Geology, Geography and Past History of the Earth: | W. D. Matthew |
| Minerals and Gems: | Herbert P. Whitlock |
| Extinct Vertebrates: | W. D. Matthew |
| Lower Invertebrates: | Roy Waldo Miner |
| Insect Life: | Frank E. Lutz |
| Recent and Extinct Fishes: | William K. Gregory |
| Reptiles and Amphibians: | G. Kingsley Noble |
| Birds: | Frank M. Chapman |
| Mammals: | H. E. Anthony |
| Comparative and Human Anatomy: | William K. Gregory |
| Existing and Extinct Races of Men: | Clark Wissler |
| Division of Asiatic Exploration and Research: | Roy Chapman Andrews |
| The Library: | Ralph W. Tower* |
| Public Education in the Museum and in the Schools: | George H. Sherwood |
| Public Information: | George N. Pindar |



*Deceased.



DEPARTMENT OF ASTRONOMY
 PROPOSED ASTRONOMICAL HALL
 The Central Section of the Completed Museum Building

ASTRONOMY

CLYDE FISHER, in Charge

Early in the year the collection of photographic transparencies of eclipses of the sun, trails of meteors, comets, etc. was reinstalled

Astronomical Exhibits in more substantial mountings in the temporary astronomical hall on the first floor, west of the foyer.

No change was made in the large framed photographs of the sun and moon, nor in the oil painting of the aurora borealis and of the total solar eclipse of 1918,—both of the latter by Mr. Howard Russell Butler, N. A.

On January 24 there occurred a total eclipse of the sun, visible in northeastern United States, which was observed and photographed by many astronomers, both amateur and professional. Among these photographs was one

Eclipse Photographs Exhibition made by Dr. Clyde Fisher, and published in *Natural History* (March–April, 1925). In the spring an exhibition of the photographic results of this eclipse was held in the Museum. This was participated in by all of the observatories that made photographs, and by a large number of amateurs.

Besides the photographs, there were a few water-color drawings and about a half-dozen oil paintings. Among the latter was one made by Mr. Howard Russell Butler at Lompoc, California, in 1923 and one by the same artist at Middletown, Connecticut, in 1925. These photographs and paintings, which occupied a prominent place for one month, served to fix the interest that was stirred up by this thrilling spectacle.

In April, Mr. Howard Russell Butler was engaged as advisor to the architects in the design and construction of an astronomical

Proposed Astronomical Hall hall, four stories high with a central dome, which will occupy the central part of the great museum building. After two months' work, during which time he had the advice of Professor Henry Norris

Russell of Princeton, and others, he developed plans of exhibits falling into two divisions: those to be shown in the dark—auto-illuminated, and those to be shown in diffused light.

Sidereal Hall—Fourth Floor

The exhibits of the dark section fall into four classes, viz:

1. Projections of stars, planets, sun, and moon on the inner surface of a hemispherical dome. The Zeiss Projection Planetarium is being considered.
2. Lantern projections of great variety to be shown rotatively, on twelve screen panels surrounding the rotunda.
3. Transparencies on the inner surface of the ambulatory, in four divisions as follows:—
 - a. Solar eclipses arranged chronologically.
 - b. Solar and lunar eclipse phenomena.
 - c. Meteoric division.
 - d. Geologic division—in the passageway leading to Geologic Hall.
4. Under-lit pictures on the outer face of ambulatory,—eclipse triptych, eclipse shadows, frieze of prominences, geologic pictures, etc.
Lunar Hall, containing model of moon with system of lighting to show phases.

Students' Hall—Third Floor

This consists of an ambulatory with balconies and a lecture hall, to be reserved for qualified students only. Lectures and demonstrations would be given here, and here would be kept instruments used in instruction, and a space would be set apart for astronomical moving pictures.

Hall of the Universe—Second or Main Floor

This has a rotunda two stories high. Here will be a miniature universe (first magnitude stars represented by balls supported by fine wires or on vertical bars, showing color, distances from each other, etc.) Also a miniature solar system (Copernican planetarium) with central illuminated sun. Surrounding the rotunda are four alcoves divided by columns, making three openings in each. In the central openings will be large globes.

- | | |
|--------------------|-----------------------|
| 1. Sidereal globe. | 3. Terrestrial globe. |
| 2. Solar globe. | 4. Lunar globe. |

Small planetary globes will be placed in the smaller openings and the interior walls of the alcoves will be hung with pictures appropriate to the globes.

The inner face of the ambulatory also separates naturally into four corresponding divisions:

1. Navigation (sidereal globe section)
2. Cosmogony (solar globe section)
3. Time and calendars (terrestrial globe section)
4. Lunar, tides, etc. (lunar globe section)

Around the outer walls of the second floor ambulatory will be cases of instruments above which are hung photographs of astronomical subjects, portraits of astronomers, etc.

Memorial Hall—Main Floor (Continued)

Designed to commemorate the donor of the Astronomical Hall. This would open from the ambulatory of the main floor, while a statue of the donor could be placed at the main entrance to Astronomical Hall, as shown in the plans. This in line with the central entrance to the Museum on Eighth Avenue.

Aërolite Hall—First Floor

The arrangement of alcoves here would be somewhat similar to that on the second floor. The aërolites will be arranged symmetrically in the alcoves, the great aërolites in the largest openings.

Spectroscopic Hall—First Floor (Continued)

This is under Memorial Hall and is entered from the ambulatory of the first floor. It adjoins the shaft of the Hale Heliostat, and here beams of sunlight brought down the shaft can be utilized for spectroscopic projections.

The dome at the top of the building will be 75 feet in diameter, and the rotundas on all floors will be 62 feet in diameter.

Vertical shafts are provided for the Hale Heliostat and for the Foucault Pendulum terminating on the first floor 120 feet below the roof platform.

An observation platform is provided on the roof, and a medium-size astronomical telescope will be installed on that level.

In the late summer, Dr. Clyde Fisher visited Europe to examine observatories, Uranias, astronomical museums, etc., with the object of gathering data for the proposed astronomical hall. The chief object of his trip was to examine the new Zeiss Projection Planetaria, in operation in Munich and in Jena. This instrument projects, on the inner side of a hemispherical dome, the sun, moon, all the planets visible to the naked eye, and all the fixed stars visible to the unaided eye. The representation is most realistic, the apparent motions of all these bodies being accurately shown.

In May, the Board of Trustees gave to Mr. Howard Russell Butler, N. A., an order to paint a triptych of the three recent total solar eclipses, viz.—that of 1918, painted at Baker, Oregon; that of 1923, painted at Lompoc, California; and that of 1925, painted at Middletown, Connecticut. This triptych of oil paintings will be twenty-four feet long and eleven feet high. It is the largest and doubtless the best thing of the kind in the world. At the close of the year, it is practically finished, and will be installed early in 1926.



GEOLOGY, GEOGRAPHY AND PAST HISTORY OF THE EARTH

W. D. MATTHEW, Acting Curator

The field studies of the varve or laminated clays of the Hackensack and Hudson River valleys have been continued by Associate Curator Reeds. A large series of partly correlated sections were obtained, which enabled him to determine a succession of more than four thousand annual layers. These, when a complete series has been secured from all the areas of deposit in the two valleys, studied and correlated with the present elevations, will provide data for a detailed and definite record of the postglacial history of the region. The sections have been treated with glycerine so as to be permanent, filed and their record partly compiled with the aid of Mr. Foyles. Mr. McNaughton has assisted Doctor Reeds in the field and Mr. Hill has assisted in designing and making apparatus for securing the clay sections. Through the courtesy of Mr. Kittredge, Chief Engineer of the Albany and New York Division of the New York Central Railroad, Mr. McNaughton has also secured copies of records of a large series of borings made by the railroad in 1910-1925 on its right of way in Manhattan Island.

In the early part of the year, Dr. Reeds and Mr. Foyles cooperated with Mr. Lester Morgan, the artist, in the preparation of the Van Horn, Pawpaw and New York City geological relief models. The series is now complete with fifteen such models facing the aisles in the Geology Hall, the others being the Grand Cañon, Niagara Falls, Yellowstone Park, Pikes Peak, Crater Lake, Standingstone, Mt. Holyoke, Watkins Glen, Mt. Washington, Yosemite Valley, San Francisco, and Porto Rico and the Virgin Islands.

Early in the summer, Doctor Reeds took part in explorations in the Endless Caverns in Virginia, and secured valuable data upon the formation, character and peculiarities of these caves. The expense of this trip was defrayed by Colonel Edward T. Brown, the owner of the caves.

Mr. McNaughton typed a catalogue of the meteorite collections in the Museum, and prepared for publication a list of the undescribed specimens.

Dr. George P. Merrill, of the United States National Museum, extended and completed a description, begun by the late Curator Hovey, of the Johnstown fall of 1924, of which the Museum has secured the largest portion through the good offices of Director Figgins of the Colorado Museum of Natural History and the generosity of our Trustees. Doctor Reeds has continued his care of the seismograph records, with the aid of Mr. Hill. He has prepared notes and interpretations of the principal earthquakes recorded during the year, and presented some of his results at the American Association meeting at Kansas City.

Mr. R. S. Beckwith, assistant in this department, has made some studies and prepared a preliminary report upon an adaptation of modern petrographic criteria to the classic Rosenbusch petrographic series, with a view to securing a modernized standard series for Museum identifications of rock collections. This work is temporarily postponed to enable him to aid Professor Berkey and Mr. Morris in petrographic studies upon Mongolian rocks now under way.

The greater part of the time of the staff has been taken up with necessary routine work, especially the revision, recataloguing and arrangement of the collections of rock specimens and ores stored in the basement, the cataloguing and labeling of the meteorite collection and various collections of fossil invertebrates and plants, and the preparation of exhibits and labels in the Geology Hall. Revision of the identifications, rearrangement of the exhibits, and preparation of group and general labels in this hall are regarded as the most important and urgent work before the department staff for the current year.



MINERALS AND GEMS

HERBERT P. WHITLOCK, Curator

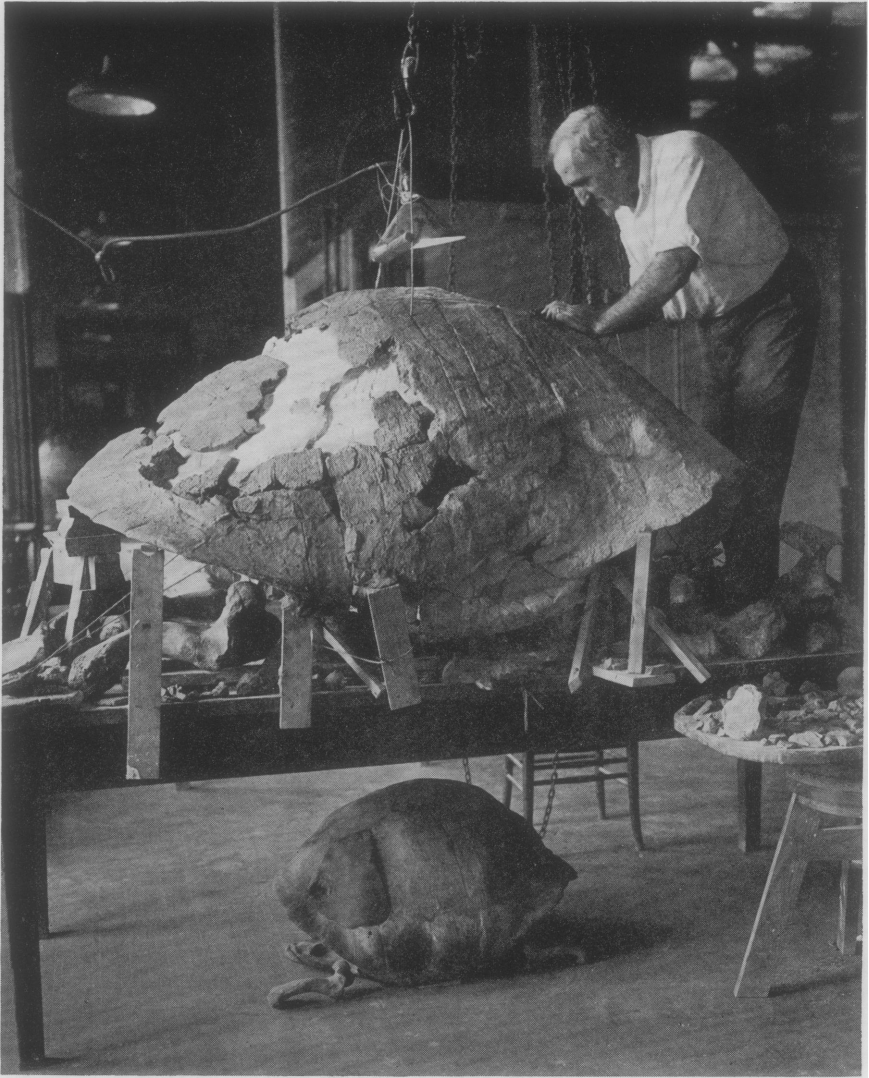
Research in the Department of Mineralogy is limited by the nature of its equipment to investigations in the broad and fascinating part of the knowledge regarding natural substances which deals with their crystallization. This field of knowledge is broad because the wealth of shapes which nature, in putting together the particles of matter which compose these constituents of our planet, has bestowed on them is practically limitless. It is fascinating because the laws which govern the interrelations of these shapes are in their mathematical rectitude among the most beautiful evidences of nature's simplicity. The discovery of new evidences of the workings of these laws, or, to be more concrete, the discovery of new crystal forms among minerals, has constituted the work of departmental research. During the year, a paper published in *American Museum Novitates* has embodied a study in the crystallization of the mineral species apatite from Branchville, Connecticut. A more extended work on the crystallization of calcite from the New Jersey diabase rocks is in progress and nearing completion.

A *Handbook* of the Mineral Collection, entitled "The Story of the Minerals," has been published during the year. In both text and illustrations this emphasizes the underlying principles of mineralogy, which are treated in a popular way. A short article on "Semi-precious Stones as Amulets" was contributed to the *Jeweler's Circular*, which described material in the Tiffany-Morgan Gem Collection, especially the series of Persian chalcedony seals.

It is most gratifying to note that, in addition to the great number of general visitors that usually are to be found in the Morgan Memorial Hall, the number of groups using the collections for special study is notably on the increase. Classes of all grades from a great variety of schools and colleges study from these cases and sketch in color from the specimens.

Special efforts were made during the year to secure for the mineral collection representatives of some of the rare species which were missing from the series. A number of these gaps have been filled by specimens which represent recently discovered minerals, thus bringing the collection up to date, and also by species of older establishment, few of which are now obtainable. Several exceptional specimens of the commoner species were also added by gift from friends of the Museum, and through the Bruce Fund. Of special importance among these are a magnificent opal matrix (Gould Gift); a large wulfenite of exceptional crystallization and color (Ricketts Gift), and a large and handsome specimen of native silver (Bruce Gift).





DEPARTMENT OF VERTEBRATE PALÆONTOLOGY

THE GIANT TORTOISE *Colossochelys*

One of the important fossils collected by Barnum Brown in the Siwalik Hills of India. Expedition financed by Mrs. H. C. Frick

EXTINCT VERTEBRATES

W. D. MATTHEW, Curator-in-Chief

The scope of research in this department has been much expanded in the last two or three years in consequence of the broader field covered by the Museum's explorations. New collections from Mongolia, China, India, Burma, Greece, Germany, and in this country from Texas, New Mexico, Nebraska and Montana are the basis of a series of preliminary descriptions published and more thorough studies under way. In addition, progress has been made upon a number of monographic revisions of different groups of animals, especially upon the Proboscideans, Titanotheres, Horses, Camels, Carnivores, etc. The work of the Museum scientific staff has been supplemented by the aid of a number of experts in other museums. We are especially indebted for such studies to Professor Othenio Abel of the University of Vienna, to Doctor Van Straelen of the Université Libre, Brussels, Belgium, to Professor T. D. A. Cockerell of the University of Colorado, to Doctor Alexander Wetmore, Assistant Secretary of the Smithsonian Institution, and to Mr. George Gaylord Simpson of Yale University, to whom certain fossil material has been committed for study and description, and the results of their studies published by the Museum.

Ten preliminary papers have been published upon the Mongolian discoveries during the past year. These include: a description of the skull and skeleton of the primitive "Frilled Dinosaur" *Protoceratops* by Professor Gregory and Doctor Mook; notices of forty-seven new mammals from the Eocene and Paleocene by Professor Osborn, Doctor Matthew and Mr. Granger, and a Cretaceous mammal by Mr. Simpson; a study of the microstructure of the famous dinosaur eggs by Doctor Van Straelen. In other fields, Professor Abel has contributed a description of a finely preserved pterodactyl skeleton, Doctor Miner an extended monographic study upon the muscles of *Eryops*, an ancient amphibian of the Permian period. These published articles represent but a small part of the researches under way.

An extended report upon the geology of Mongolia by Professor Berkey and Mr. Morris is nearly ready to submit for publication. An elaborate systematic and taxonomic revision of the Proboscidea

by Professor Osborn has been nearly completed, and will be published by the Museum during the coming year. Further researches upon the new Mongolian discoveries by Osborn, Matthew, Gregory, Granger and others are under way. Mr. Barnum Brown has in preparation a series of articles describing his new collections from the Siwalik beds of India and the Eocene of Burma. Mr. Childs Frick has in press or in preparation a series of articles dealing with the large new collections which he has secured in New Mexico and California Tertiary formations, and also a very complete and thorough study of American fossil horses of the Pleistocene epoch. Prof. Osborn's great monograph of the Titanotheres will be published by the United States Geological Survey, it is expected, during the coming year. Mr. H. E. Wood has practically completed a study of the true Rhinoceroses of the American Oligocene, which will shortly be submitted for publication. Preliminary studies have been made upon an interesting Pleistocene fauna discovered in Florida by Mr. Walter W. Holmes. Doctor Matthew has in hand a revision of the Blanco Pliocene fauna of Texas, based upon new collections made in 1924.

The completion and publication of these researches and the adequate study and description of the great collections secured in recent years from Asia, Europe, Africa and North America are of the utmost importance and urgency. Until they are studied, described and illustrated, these great additions to the fossil evidence remain unknown and useless to science and do not add as they should to the reputation of the Museum as a centre of exploration and research. The great increase in the collections involves necessarily a corresponding increase in the work of cataloguing and recording specimens, in preparing them for study and exhibition, in the wider range of material needed for comparison and literature for study, in the time required for adequate critical research and description, and in the cost of preparing illustrations and publishing researches. All these demand an increase in the departmental and museum budget in proportion to the great success and wider scope of the exploration work of recent years.

LOWER INVERTEBRATES

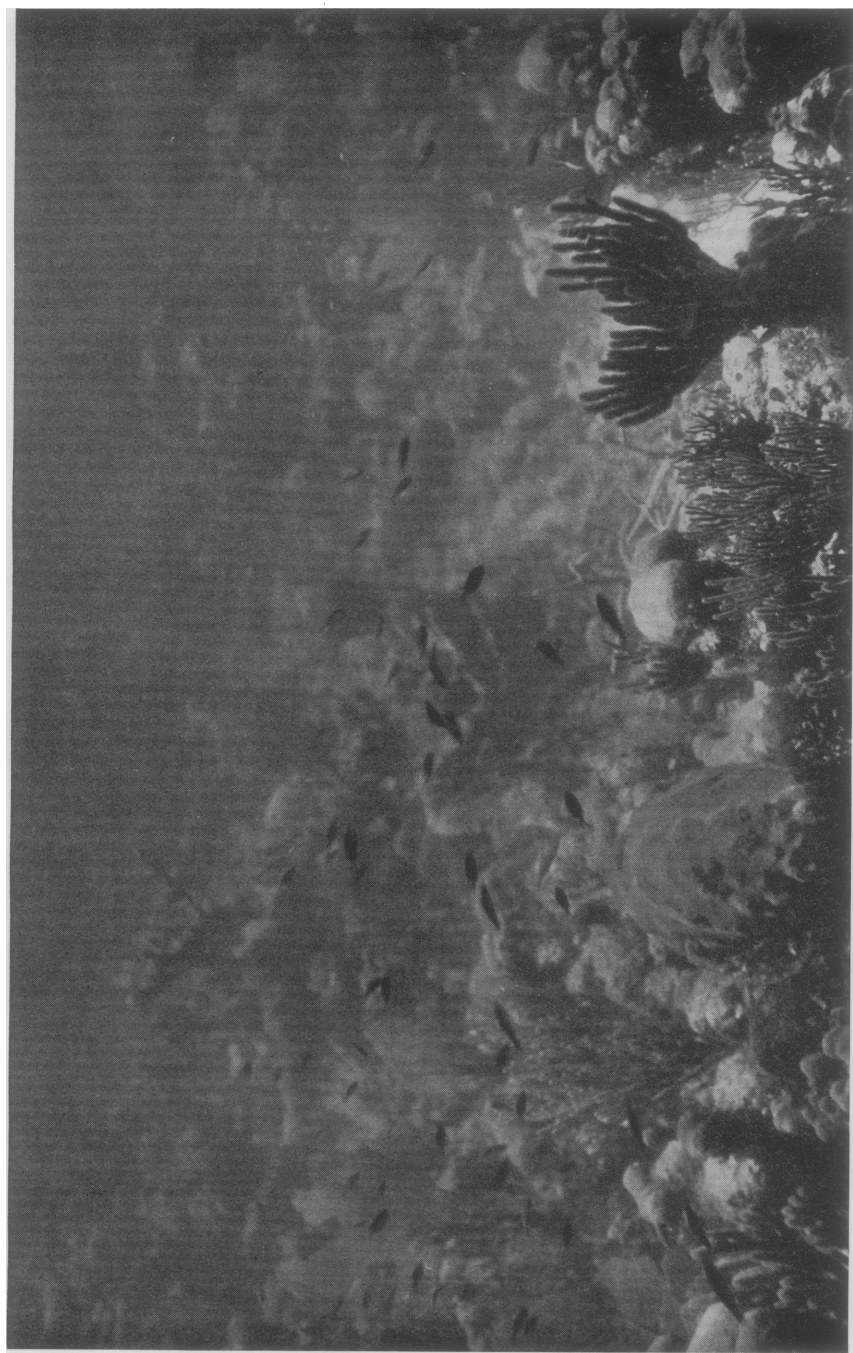
ROY WALDO MINER, Curator

The work of the department is so entirely based on scientific research that it may be said to enter into every phase of departmental activity and to find expression in (1) research on collections and publication of the results in technical papers; (2) field work; (3) research in preparation for the exhibits and their installation and arrangement; (4) utilization of the exhibit for educational purposes. It will therefore be discussed under these headings, followed by brief references to the curatorial work on the collections and the new facilities provided for future development.

Technical work on the collections has progressed rapidly during the past year, and embraces material from Southern California, British Guiana, Panama, the Congo Basin, the Bahamas, and North America from Wisconsin to New England. Mr. C. R. Shoemaker's study of the "Amphipods of the Albatross Expedition" was published in the *Bulletin* early in the year, and completes the work of this department on the series devoted to the Albatross Southern California collections, except for the mollusks which the Committee has decided not to include for the present. All but two of the papers based on the Congo collections are now in press. These include the important monograph by H. A. Pilsbry on "Aquatic Mollusks of the Congo"; R. V. Chamberlin's "Myriapods of the Congo," with 67 new species; and Research Associate Stunkard's "Tapeworms of the Rhinoceroses." Doctor Stunkard's work on the trematode and nematode parasites, the two remaining groups, has made considerable progress. Assistant Curator Van Name has investigated an interesting collection of British Guiana isopods collected by Mr. William Beebe. This has been published in *Zoologica* under the title "Isopods of Kartabo, British Guiana." Another paper by the same author on the "Forest Isopods of Barro Colorado Island, Panama" is about to appear in *Novitates*. Doctor Van Name has also published an interesting paper entitled "A Supposed Paleozoic Barnacle" which appears to push back the origin of this group to a much more remote antiquity than formerly supposed. Research Associate Myers, in cooperation with Mr. H. K. Harring, has completed the third part of their monograph of

North American rotifers, shortly to be published by the University of Wisconsin, and the fourth part is in progress. Numerous types forming the basis of this work are being deposited in this Museum. Curator Miner's paper on "The Pectoral Limb of *Eryops*" was published early in 1925 by the Department of Comparative Anatomy. Doctor Miner is now engaged in a study of the ecology of coral reefs. Research Associate Treadwell has been investigating Pacific annulates, of which a series will be deposited in this museum. During the coming year he plans to continue his work on the museum collection of annulates. In addition to the scientific researches mentioned, members of the Department Staff have prepared several articles, which have been issued in *Natural History* and other popular publications.

Museum exhibits are scientific theses in three dimensions, and because of this quality possess a power of exposition adapted in an unparalleled degree to the mind of the average observer. The American Museum of Natural History is making a most extensive experiment of this kind in its new Hall of Ocean Life, where an outstanding feature is to be the new Bahama coral reef group, to which the chief energies of this department from an exhibition standpoint are to be devoted for some time to come. Forty tons of coral have been cleaned and dressed for this group, and the modeling staff is now engaged in coloring the specimens, which range in size up to twelve feet in length, in imitation of the natural colors of the living coral. A comprehensive plan has been approved for the development of the invertebrate section of the Hall of Ocean Life, which includes in its program a pearl fisheries group and a sponge fisheries group to flank on either side the centrally located coral reef group, beneath the gallery of the hall, while above them on either side of the great cyclorama of the coral lagoon with its sky dome, it is planned to install a mural painting. One section will represent a Pacific coral atoll viewed from a tropical hillside, while the other will show the rocky coast of Maine with its tidal zone and sea gardens exposed at low water. The gallery of the new hall is devoted to the Museum's extensive exhibit of shells, which embraces a large array of unusually fine examples of the shells of the world, including many rare forms. The installation of this exhibit is now practically complete and is so arranged as to be well adapted for first-hand identifi-



DEPARTMENT OF LOWER INVERTEBRATES
A BAHAMAN CORAL REEF

An undersea photograph. One of the field studies of the Coral Reef Group in the Hall of Ocean Life

cation of specimens by shell collectors, as well as those interested in shells from a purely popular standpoint. Special facilities are also afforded for study by scientific workers.

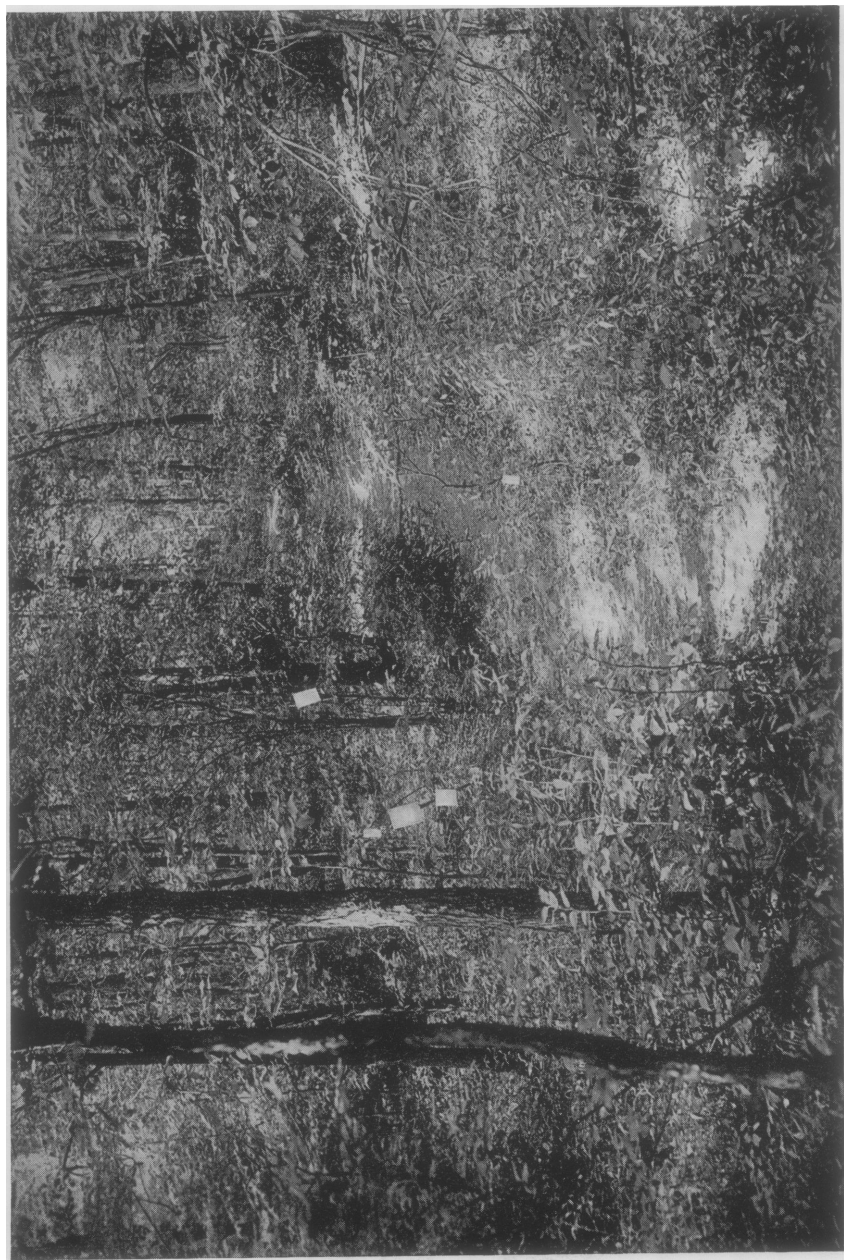
The principal new exhibits now being installed are the nearly completed rotifer group and the "Tree of Life." The former represents the microscopic world contained in a half-inch of pond water magnified one hundred diameters, or, from a three-dimensional standpoint, one million times, so as to exemplify the complicated cosmos of organisms contained within the most insignificant areas of the natural world. This exhibit will embrace hundreds of separate models constructed of glass, showing by their transparency the internal organization as well as the external form of the beautiful, minute creatures revealed only by the microscope. This work, a masterpiece of glass modeling, is based on the most careful scientific observations, in which the Curator has received the indispensable aid of Research Associate Myers, one of the foremost authorities on rotifers in this country. The "Tree of Life" is an exhibit twelve feet in length, representing a "family tree" which includes all the chief groups of the animal kingdom, so arranged as to show their mutual relationships according to the views of certain eminent authorities. Each animal group is represented by a colored drawing of a typical species, which in each case will be replaced later on by a model. This exhibit has recently been installed in the Darwin Hall in preliminary fashion and will be completed as rapidly as possible.

During the past summer the field work carried on by this department was with reference to completing the data for the rotifer group. During July, Curator Miner, assisted by G. H. Childs as artist, and with the coöperation of Research Associate Myers, made another series of careful studies of the pond-life of Mount Desert Island on the coast of Maine, through the courtesy of the Mount Desert Island Biological Laboratory, of which Professor Ulric Dahlgren of Princeton University is the Director. The many lakes, streams and ponds, situated from mountain-like altitudes to sea level, give unexampled opportunities for the study of this life, which was investigated under the most favorable auspices by means of the microscope and recorded in the form of accurate drawings by the Museum artist. The Curator desires to express here his obligation to Mr. Myers and Director

Dahlgren, whose aid effectively contributed to the success of the investigation.

The justification of Museum exhibits is to be found in their practical educational value to the public. During 1925, the Darwin Hall entertained its usual large quota of visitors, conspicuous among whom were 16,579 students in 526 classes with their teachers, of which 14,286 were from public institutions and the remainder from private and parochial schools and colleges. Of the latter, 808 were from the institutions of higher learning within reach of New York; 246 institutions were represented by these students as against 230 in the year 1924. It is evident that our exhibits appeal extensively, not only to the public but especially to the students of our public schools, and they are recorded as of value for serious study by higher institutions. During the past year these latter included Columbia University, Barnard College, the College of the City of New York, New York University, Rutgers, Springfield College, Connecticut College for Women and the University of Vermont. During the year extensive additions have been made to the catalogued study collections of the department. Through the coöperation of New York University and Professor H. W. Stunkard of that institution, it is planned to extend our work on animal parasites, while the addition of an aquarium room and laboratory of pond life will give us much-needed facilities for developing the study of protozoans, rotifers and other microscopic organisms.





DEPARTMENT OF ENTOMOLOGY
A portion of our Nature Trail in the Harriman State Park

INSECT LIFE

FRANK E. LUTZ, Curator

While it is difficult to estimate in advance the success of a plan, there was started in 1925 what promises to be the most important step toward a better understanding of our insect friends and foes that this Museum has ever made. It was the establishment of the Station for the Study of Insects. Through the courtesy of Mr. W. A. Harriman and of the Palisades Interstate Park, we were granted the use of about forty acres of land near Tuxedo, N. Y., for this purpose.

Before taking up definite research problems that might require our full attention at this Station, we took advantage of its location near the summer camps in the Harriman State Park to try what proved to be a very successful experiment in out-door education, the "Nature Trail" idea. It is planned, however, that we shall in 1926 take up some of the many economically important and scientifically interesting problems connected with the lives of insects. This work will be extended as rapidly as finances permit.

The survey of Porto Rico and the Virgin Islands, started some years ago in cooperation with the New York Academy of Sciences and the Porto Rican government, is being continued, and this year an important trip was made to the Virgin Islands, both American and British, by Doctor Lutz and Mr. Louis B. Woodruff. Most unfortunately, Mr. Woodruff, who had taken general charge of the entomological work of this survey as a volunteer worker, has since died. That task is now in the capable hands of Mr. Herbert F. Schwarz, also a volunteer worker in the department of Entomology.

On account of the large amount of routine to be handled by the few members of the staff, no important manuscripts have been finished by any of the regular staff. However, as in former years, the American Museum's entomological work has been furthered by the kind assistance of colleagues in other institutions. As a result, we have published the following: "An Undescribed Gall-making Hemipteron (Tingitidæ) from Africa" by Carl J. Drake; "New West Indian Cerambycidæ (Coleoptera). Subfamily Lamiinæ" by W. S. Fisher; "New Diptera in The American Museum of Natural History" by C. H.

Curran; "Two New Bees of the Genus *Colletes*. Oligotropic upon *Petalostemum*" by Myron H. Swenk; and "New Exotic Diptera in the American Museum of Natural History" by C. H. Curran. "Blattidæ of West Indies" by Rehn and Hebbard, a monographic report, is in press.

Messrs. Mutchler and Wunder have done much most excellent work on the general series in the Hall of Insect Life. This work will be evident when the exhibits are so illuminated that they can be seen properly. Progress has also been made with the habitat groups but those already installed are deteriorating because permanent fronts for the cases are not yet available.

The most notable accession of the year, in addition to those from field work, is the gift by Mrs. Anna Trumbull Slosson of her valuable collection. Mr. Frank Johnson has contributed a number of valuable and beautiful *Morpho* butterflies; and other friends have also continued their support of our collections, as is shown elsewhere in this volume.



RECENT AND EXTINCT FISHES

BASHFORD DEAN, Honorary Curator

WILLIAM K. GREGORY, Curator

The science of ichthyology is in an active state of development in many lines. Its bearings on economic ichthyology and on the problem of the origin of species are well summarized in the presidential address by Dr. Tate Regan before the recent British Association meeting, Section of Zoology. In the field of fossil fishes, Dr. Erik A. S. Stensiö of Upsala has continued to publish the results of his fruitful researches on the Triassic fishes of Spitzbergen, while Dr. Kiaer in his monograph on the Upper Silurian fishes of Norway adds widely to the knowledge of these earliest chordates and goes far towards unraveling the time-honored problem of the relationships of the great divisions of fishes in the earliest ages of fish life. Professor D. M. S. Watson of University College, London, continues his distinguished investigations upon the early evolution of the typical fishes and has cleared up many knotty problems as to the relationships of the air-breathing, lobe-finned, and ray-finned divisions.

The investigations in the Department of Ichthyology have embraced a wide field. Thanks to the publication of the Dean Bibliography, a new and powerful instrument of research has been placed in our hands, and it has proved of invaluable service in every direction.

Honorary Curator Dean has consented to begin the work of bringing together the extensive material and beautiful illustrations bearing on the development of the most primitive existing species of fishes which he accumulated through a long term of years. It is hoped that the first part of these memoirs will be offered for publication during the coming year.

Associate Curator Nichols has completed and published ten papers on Chinese fishes, containing the preliminary reports on the collections of the Third Asiatic Expedition, and he has in press and manuscript much additional material in the same field. The great Carp family has its headquarters in China, where it is represented by a large number of genera grouped into several subfamilies or families. Mr. Nichols' studies not only throw great light upon the

divergent evolution of these lines but also upon the physiographic history of the region, which seems to have long been protected from invasion from the north by the Gobi desert.

Dr. Charles H. Townsend, Research Associate, has published a report on the deep-sea fishes of the Albatross Expedition in Lower California (in collaboration with Nichols).

Dr. Gudger has continued his discerning labors on the Bibliography of Fishes.

Work on the Classified Continuation Card Catalogue has gone forward steadily and successfully during 1925. The 42 quarto volumes of the Index-Catalogue of the Surgeon General's library have been checked and a great many titles of papers on fishes published in medical journals added to our catalogue. The accumulation of separates since 1914 has been largely worked over and cards made for a vast number of titles. The note in *Science* announcing the continuation of the Bibliography and asking for the sending in of separates has been much commended and a large inflow of separates has resulted. Dr. Gudger has been officially designated as Bibliographer in Ichthyology, in recognition of his work as editor of Volume III and as giving a definite status to this very important work of the department. The return of Miss La Monte as secretary of the department has greatly expedited this bibliographical work.

Dr. Gudger has continued to publish his highly interesting articles on the natural history of fishes. These articles have elicited considerable correspondence, and several of them have been copied and adapted in *The Illustrated London News* and other foreign publications.

Dr. Gudger has also served as executive officer of the Department in the past year and has had much to do with its smooth running and with planning and supervising the new installation of the Dean library and the partial rearrangement of the department in the new wing.

Miss Elizabeth S. Trotter of Philadelphia has joined the staff of the department as scientific assistant. Profiting by the intensive training that she acquired in various branches of ichthyology during the Arcturus Expedition, she has arranged and catalogued the col-



DEPARTMENT OF ICHTHYOLOGY
THE SARGASSO SEA GROUP

lections secured on that expedition, and has assisted greatly in working out the plans for the new exhibition hall.

The Department has profited by the assistance of two volunteer workers, Mr. C. M. Breder, Jr., and Mr. Van Campen Heilner. Mr. Breder has submitted the manuscript of his report on the Fishes of the Rio Chucunaque Basin, dealing with the material collected by him on the Marsh Darien Expedition. He has also collaborated with Mr. Nichols in a paper on the marine fishes of New York, and with the Curator in the latter's Study on the Body Forms of Fishes. Mr. Breder's paper on the Locomotion of Fishes recently won the A. Cressy Morrison prize of \$250, awarded by the New York Academy of Sciences; it awaits publication by the New York Zoological Society.

Mr. Van Campen Heilner accompanied Dr. Murphy on his journey to the northwestern coast of South America and is now at work on the collections of fishes which he made on that expedition. He has rendered great service to the department in traveling extensively both in the far west and in the eastern states and in obtaining from well-known sportsmen the promise of gifts of record big game fishes for the sportsmens' collection in the new Fish Hall.

In addition to those noted above, a number of articles have been prepared by members of the Department Staff, and these have appeared in the publications of the American Museum or elsewhere.

The Curator, who was absent on the Arcturus Expedition for the first half of the year, acquired so many inspiring visions of fish life that it will require many years to make them realities in the new exhibition hall. The first of his series of studies on the body forms of fishes has been completed as part of the reports on the Arcturus material.

The Department of Ichthyology has received cordial coöperation from the Department of Preparation. In this connection we need mention only the completion of the Sargasso Sea Group, the models of the Oil Fish (*Ruvettus*), of the Torpedo, etc. Work has been started on the large group of sharks, entitled The Sea Rovers.

While the organization of the department seems satisfactory in its various aspects, the equipment of the exhibition hall of fishes is a most serious and difficult problem owing to lack of sufficient

means. After long experiments, final plans of the department were adopted in November, and approved by the President and by the Director. One end and one side wall of the hall is to be devoted to game fishes of both marine and fresh-water divisions. A few large and very arresting exhibits will be placed at the strategic points in the hall, while the smaller and less imposing exhibits will be arranged in the systematic collection, beginning with the most primitive and going to the most highly advanced fishes, which is to occupy the southern side of the hall. There will be special exhibits illustrating the fish as an animal mechanism, breeding habits, care of young, and similar topics of interest.



REPTILES AND AMPHIBIANS

G. KINGSLEY NOBLE, Curator

The reptiles and amphibians have always been recognized as ideal material for attacking the most fundamental problems of biology. The Amphibia have been often utilized in attempts to determine the mechanics of sex determination. The epoch-making advances of recent years in our knowledge of the growth-controlling glands and of the "organizers" in the developing egg have been worked out largely with Amphibia. These forms lend themselves so readily to experiment that the frog has rightly been called the great "martyr to science." Research work of the Department concerns itself with all aspects of the distribution, evolution, and biology of the reptiles and amphibians.

Four major research problems engaged the attention of the Department during the year. First, an attempt was made to solve the relation of the mode of life history in the various groups of Amphibia to the evolution of these groups from one another. Two papers on this subject were published by the Curator and one by Mr. Clifford H. Pope, who, incidentally, added considerably to our knowledge of the life history of several rare salamanders. It was found that a much closer relationship exists between the mode of life history and the phylogenetic position of an amphibian than hitherto suspected. The second problem considered this year concerned the evolution and dispersal of the frogs and toads. The Curator published a summary of his work of the past five years in this field, and also described a remarkable new genus of Surinam toads from South America. In the early fall, the Curator visited the various foreign museums, where he unearthed many facts of great importance for his phylogenetic studies. The third problem taken up dealt with the correlated anatomical changes found in Amphibia which have undergone a reduction of the lungs. The Curator was able to show that the hairs of the "hairy frog" are highly vascular extensions of the skin, veritable gills, which compensate for the reduced lung capacity of this batrachian. Changes in the heart, skin, and lungs of all the Amphibia with reduced lungs are described in the Curator's report. The fourth major problem considered the distribution of the reptiles and amphibians of China, as made known by the dis-

coveries of the Third Asiatic Expedition. Mr. K. P. Schmidt of the Field Museum of Natural History, Chicago, was entrusted with the greater part of this work, while Mr. Clifford H. Pope and the Curator considered part of the amphibian collections. Mr. Schmidt published two papers describing new forms, and has completed three more extensive papers. In addition to the above research, various minor problems were considered this year by the Department. Two other papers were published by the Curator: one jointly with Dr. Gregory, on the alisphenoid bone, and one on the history of the Department.

The study collections of the Department have grown enormously in recent years, thanks to our several expeditions; but this growth was naturally greater in some groups than in others. This year the opportunity of correcting this one-sided development was given to the Curator, who was sent abroad to arrange a series of exchanges with the various foreign museums. He visited the principal museums of Germany, Austria, Switzerland, France, Belgium, Holland, and England. He brought back with him five hundred and eighty-four specimens and made arrangements for securing nearly two hundred more. Nearly three hundred species in this series are new to our collections. As a result of these exchanges, more genera and species have been added to our collections than in any previous year. Our collections now include approximately 65,000 specimens. Among the remarkable forms secured abroad were the two viviparous frogs of East Africa, several peculiar burrowing toads from New Guinea, a series of the grotesque geckonid lizards of Madagascar and Australia, a giant chameleon from Madagascar, and several of the rarest genera of Cœcilians—snake-like amphibians. Many of the specimens secured by exchange are so well preserved that they can be used for exhibiton purposes. Arrangements were made abroad for securing a supply of living specimens, as these afford data as to color and posture, so necessary for perfect mounting.

The outstanding event of the year was the moving of the entire Department from the old West Wing to our new quarters in the East Wing. Four large rooms were assigned to the Department in the new wing as laboratories, while storage rooms in the basement and attic were also made available. The moving of study collections, files, and equip-



DEPARTMENT OF HERPETOLOGY
GALAPAGOS LAND IGUANA

A portion of the Galapagos Island Group in the New Reptile Hall

ment has entailed a great amount of time of every member of the Department. For the first time in the history of the Department, adequate space is now available for research, exhibition, and storage. The research and exhibition programs long held in abeyance may now be pushed forward with renewed energy.

Throughout the early part of the year the tremendous task of moving the habitat groups and other exhibits from their old quarters to the splendid new hall, which has been built for them, was carried forward with success. It is planned to open these exhibits during the coming year. The American Museum will then have the largest and finest hall in the world devoted exclusively to existing reptiles and amphibians.

Considerable new work in exhibition was also undertaken and completed this year. The *Sphenodon* Group, so long under contemplation, was begun under a totally new plan and finished during the fall. It shows the *Sphenodon* at home on a shady hillside of Karewa Island, New Zealand, where it frequents the burrows of the Pink-footed Shearwater, *Puffinus carneipes*. A portion of the hillside is shown in section, disclosing one of the petrels brooding its single egg while a *Sphenodon* smuggles closely against the body of the bird. This peculiar association is of considerable advantage to the reptile, and it may, in fact, be the very reason that the *Sphenodon*—a veritable “living fossil”—has survived until our day.

Our synoptic series was not neglected this year. Three of the most impressive poisonous snakes were added to the collection. These were the Puff Adder, the Rhinoceros Viper, and the Green Mamba. A large Indian Python was reproduced as if descending from the overhanging branch of a tree. Other completed exhibits include an Axolotl, a Long-Tailed Salamander, and an Australian Water Lizard.

The Department assists students of reptiles and amphibians by opening the laboratories and store rooms to them at all times during the usual Museum hours. It also sends collections to competent research workers in other institutions, and borrows from them material needed in connection with the departmental researches in progress. This year a large collection was loaned to Mr. K. P. Schmidt for study and two collections to Dr. A. I. Orten-

BIRDS

FRANK M. CHAPMAN, Curator-in-Chief

During the year satisfactory progress has been made by the members of the Department toward the completion of the various tasks which they had undertaken. All accessions have been catalogued, the collections are in excellent condition, and the Department as a whole is prepared for a most rigid inspection.

The time of the staff which has been available for research has been occupied chiefly with the prosecution of monographic reports covering a wide field.

Research

Doctor Chapin has practically finished his monumental work on the birds of Central Africa, based primarily upon his six years' experience with the Congo Expedition. The first of his two volumes goes to press as he is about to depart for the highlands of East Africa.

Messrs. Miller and Griscom have completed the systematic portion of their report on the birds of Nicaragua, leaving only the Introduction still to be prepared. Doctor Dwight's monograph on the Gulls of the World was issued on the last day of the year. Mrs. Naumburg has continued studies of Brazilian birds which she expects to finish during 1926.

The Curator has completed his *Bulletin* on the Distribution of Bird Life in Ecuador, designed to form the second volume of his studies of Andean bird-life.

Doctor Murphy has devoted his time to the Brewster-Sanford collection of sea birds, besides which he has brought out a book, "Bird Islands of Peru," which has received gratifying commendation from both scientific and literary reviewers.

All the members of the Department staff collaborated in the preparation of the September-October number of *Natural History*, which is wholly a product of this Department.

There have also been issued twenty-one contributions by members of the staff, in Museum publications or elsewhere.

The Whitney South Sea Expedition, under the continued leadership of Rollo H. Beck, has carried on its notable field work among the Pacific Islands, completing the ornithological survey of the Fijis and obtaining collections from more than fifty islands and islets of the Tonga Group. Late in the year the schooner 'France' was employed for a period of pelagic collecting to the eastward of New Zealand, after which the expedition proceeded to New Caledonia.

Professor Herbert E. Gregory, Director of the Bishop Museum of Honolulu, whose generous counsel and coöperation have proved of the utmost value in our Polynesian work, has been added to the membership of the committee which administers the Whitney Expedition.

During January, February, and early March, Doctor Murphy resumed his ornithological and oceanic investigations along the coast of Ecuador, obtaining data of great geographic interest, and making studies and collections of sea birds at such little-known localities as the islands of La Plata and El Muerto. Not only the region but also the period proved of exceptional importance, because the early months of 1925 were characterized by extraordinary if not unprecedented weather conditions along the western coast of South America. The first report upon Doctor Murphy's findings appears in the *Geographical Review*. Previous to his field work, in which Mr. Van Campen Heilner took an important part as a volunteer assistant, Doctor Murphy represented the Museum at the Third Pan-American Scientific Congress at Lima, Peru.

Thanks to the generous coöperation of Mr. Arthur S. Vernay, Mr. Rudyerd Boulton was attached to his expedition to Angola as ornithologist. The bird-life of this region was totally unrepresented in the Museum, and Mr. Boulton's collection of 1,200 specimens is one of the most valuable accessions received during the year.

In Peru, Mr. Harry Watkins, who has long served us so faithfully in that country, has thoroughly explored the high Andes near Chachapoyas, and has made a section eastward to the Amazonian lowlands.

In western Panama Mr. Ludlow Griscom, of this department, has continued to employ Mr. Rex R. Benson, all of whose collections are presented by Mr. Griscom to the Department of Birds. During

the year Mr. Benson has secured numbers of new forms, and has added not a little to our knowledge of the distribution of others.

In northeastern Venezuela, Mr. G. H. H. Tate, representing both the Department of Birds and the Department of Mammals, succeeded in ascending to the summit of Mt. Turumiquire, the highest elevation in the region, where representative collections were made at higher altitudes than had ever before been reached by collectors in that part of South America. His work definitely establishes the presence of a well-defined Subtropical Fauna in the Andes of northeastern Venezuela, and is of consequent value in our attempt to map the life zones of the Andes.

In addition to the collections received from the above-mentioned expeditions, we have secured other specimens through purchase or by gift. First place in the latter class must be given to four specimens of the rare Pink-headed Duck, the first two being received through Mr. Vernay and Colonel Faunthorpe, and the second pair through Mr. Alfred Ezra, of Cobham, Surrey, England.

We have, moreover, to thank Mr. Frederic C. Walcott for a specimen of the Andean Flamingo (*Phoenicoparrus andinus*), not before represented in our collections; also Mr. Arthur Sharp, of Boston, for five specimens of the Heath Hen.

Dr. Jonathan Dwight has added to his collection numbers of specimens collected by Mr. Austin Paul Smith, from Costa Rica, and Mr. A. W. Anthony, in Guatemala, all of which are available for research. The total number of specimens added to the collections during the year is 12,869.

The increased storage facilities provided during the current year have added greatly to the working value of the collections. All specimens are not only catalogued but are properly arranged.

The spirit of coöperation which exists between this department and the corresponding departments of sister museums, enables us to draw on them for such specimens as we need in our studies, and in return for this privilege we freely meet the requests of our colleagues for such specimens as they may require in their investigations. We are also given every facility for research when we visit

other museums, and it has been our pleasure to extend similar hospitality to representatives from other institutions. Chief among these is Professor Peter Sushkin, of the Academy of Sciences at Leningrad, who, during the summer, devoted several weeks to studies on our collections.

The removal from the main bird hall of the exhibits of fishes has permitted us to carry out long-held plans for the development of our bird exhibits. First place among these must be **Exhibitions** given to the dome of flying birds in which we have created an aërial Habitat Group. Here are shown in their own element birds like the Condor, Albatross, Eagle, Man-o'-war-Bird, flocks of Geese and Ducks, all preëminently creatures of the air. The background of sky and clouds, painted by Mr. Francis L. Jacques, conveys the illusion of illimitable space, and the birds mounted by Mr. Raymond B. Potter successfully give the impression of action. This exhibit has won the enthusiastic approval of the public, of museum men, and of artists.





DEPARTMENT OF MAMMALOGY
SAMBAR DEER GROUP

One of the groups for the New Asiatic Hall. Collected by the Faunthorpe-Vernay Indian Expedition

MAMMALS

H. E. ANTHONY, Associate Curator of Mammals of the Western Hemisphere, In Charge

Scientific research, and the expression of its results in publication, are two of the principal factors which justify the creation of large collections of mammals. The needs of exhibition are often comparatively simple; a few individuals will suffice for the ideal group; the requirements of research, on the other hand, are often complex, and large series of individuals must be available for study before research problems may be attacked with any assurance of a successful solution. Large sums of money and a vast amount of energy have been expended to build up the research collection of mammals, and the close of each year finds the collection more useful, with fewer unrepresented species, and with more comprehensive possibilities for research. During 1925 considerable was accomplished toward this end, and the research and publication during the year was planned to make the best possible use of the great storehouse of natural history fact contained in the department collections.

The year just closed saw the completion of the J. A. Allen Memorial Volume of the *Bulletin*. This volume is based upon manuscript left by the late Dr. J. A. Allen, Curator of the Department of Mammals, and Mr. Herbert Lang has arranged the copy for the printer. Doctor Allen had spent several years of study and research in gathering the data published in this volume, based upon the Congo collection of mammals. Three separate parts had been published prior to 1925, the fourth and concluding section being entitled "Primates Collected by the American Museum Congo Expedition." The complete publication includes 524 pages and has been dedicated by the Trustees of the American Museum to the memory of Joel Asaph Allen. The subject matter treats fully of the classification or taxonomic position of each mammal studied, its geographical distribution, variation in form and structure, and, in short, follows Doctor Allen's customary scholarly method. Because of the large series of specimens collected, an unusual opportunity has been afforded for conclusive results.

Associate Curator Anthony, in charge of the department, completed a comprehensive report on the mammals of Porto Rico, both living and extinct. This report is published in two parts by the New York Academy of Sciences as part of the Academy's extensive natural history survey of Porto Rico. Part I of Mr. Anthony's report was published on December 2, and Part II is now on the press. The complete report comprises 240 pages of text, with more than one hundred illustrations. The research for this publication was made possible by the large collection of West Indian mammals in this museum, a collection without an equal in any other institution. An unusually interesting field of research is open in the West Indies because of the present-day scarcity of living mammals, the former existence of a more extensive mammal fauna now extinct, and the fact that there are two opposing theories as to the origin of the West Indies. The problem to decide is whether Porto Rico has always been an island or whether it was at one time a part of the mainland. On the one hand, the presence of the known mammals of Porto Rico seems difficult of explanation if the island is of oceanic origin; on the other hand, the number of mammalian species should, apparently, have been much greater than it is if the island was broken off from the continent. Such conditions have led to very interesting explanations and hypotheses, and the report on the mammals of Porto Rico closes with an extended review of the evidence and a stated belief in a former mainland connection for the Greater Antilles.

Mr. Anthony has been unable to devote very much time during 1925 to his researches on the mammals of Ecuador because of other demands. In connection with these studies, however, it has been found advisable to revise the Andean rodent genus *Thomasomys*, a group of rats and mice occurring in Ecuador and from Colombia south to Bolivia. Four species and subspecies of *Thomasomys* new to science were described in *Novitates* in June, and much of the manuscript and many of the illustrations for a full revision of the genus have been prepared. The problems which have arisen in this particular bit of research are mainly those of geographic distribution and variation in structure. The most surprising feature brought out in the study of *Thomasomys* is the remarkably consistent limitation of its range to the Andes and the utterly unexpected appearance of the one exception, a *Thomasomys* on Mt.



DEPARTMENT OF MAMMALOGY
THE LION GROUP

The first of the habitat groups for the future African Hall. Mounted by Carl E. Akeley

Roraima in British Guiana, hundreds of miles from the nearest spur of the Andes and from its nearest congener. How did a *Thomasomys* arrive on the summit of Roraima; no *Thomasomys* is known in eastern South America, and the genus does not straggle out over territory in its distribution. More extended field work is needed to clear up this point and to confirm or deny the implication that Mt. Roraima once had an intimate mountain connection with the Andean or pre-Andean upland.

Mr. G. H. H. Tate, a department assistant, visited northern Venezuela early in the year to collect mammals and birds, and one of his especial problems was to discover whether this mountain genus *Thomasomys* occurred in the elevated Turumiquire district. While Mr. Tate had a successful trip and secured 421 mammals, he took no *Thomasomys*, although he trapped other mammals which have an Andean distribution. Negative evidence is often as important in research as positive, but it is generally more difficult to secure.

The Department of Mammals has received many requests for instructions on the preparation of study material in the field. Very often a sportsman visits a region, little-known or inaccessible, which may hold the key to some research problem in which the department is concerned. If the sportsman could be shown how to collect and preserve mammals in the field, he could, without interfering with the main purpose of his trip, bring back specimens of great value to science. A handbook of 53 text pages, entitled, "The Capture and Preservation of Small Mammals for Study," has been written by Mr. Anthony to meet this need for instruction. The handbook gives many points on troublesome questions, and by means of text and numerous illustrations describes the preparation of a museum specimen. This publication is No. 61 of the *Guide Leaflet* series, and it is hoped that the booklet may be the means of bringing in material which has formerly been passed by because of lack of instruction. A similar handbook for the large mammals will be prepared in the future, but the small species were treated first, because, while the majority of hunters and sportsmen know how to skin a deer, they know nothing of the necessary steps for preserving smaller mammals.

Under the plan of special department numbers of *Natural History*, the editors being designated from the various departments

concerned, the responsibility for the Mammal Number of *Natural History* fell to Mr. Anthony, who was particularly fortunate in securing an especially able staff of contributors. From the leading article by President Osborn, on the great fauna of the tarpoools of Rancho le Brea, to the concluding poem on the *Platypus* by Mr. Burrell, contributed by Mr. H. C. Raven in his Review of the "Recent Work of Australian Mammalogists," the issue is exclusively a mammal number, and the great diversity of interests shown by the various articles demonstrates how comprehensive may be the problems of mammalian research, which are pursued not only by the Department of Mammals, but by the Department of Vertebrate Palæontology and the Department of Comparative and Human Anatomy. Want of space prevents a more detailed statement of the contributions so generously donated to this number of *Natural History*.

Other publications of Mr. Anthony include a review of Seton's "Lives of Game Mammals"; "The Jaguar and the Jungle" in *Nature Magazine*; "The Bat" in *Natural History Magazine*; and "The Last Stand of our Wild Mammals" in the *Country Gentleman*.

Associate Curator Lang has been absent in the field for most of 1925. He accompanied Mr. Arthur S. Vernay on the Angola Expedition and in a comparatively short space of time piled up large collections of the different classes of fauna. The mammal collection comprises about 1,200 specimens and includes many choice and rare species, such as the Giant Sable Antelope, the Angola Lion, Elephant, Mountain Zebra, etc. It is due to the generosity of Mr. Vernay that this valuable material has been acquired by the American Museum.

Mr. Lang has published an interesting paper on "Problems and Facts about Frozen Siberian Mammoths," which appeared in *Zoologica* and in the *Zoological Society Bulletin*; "How Squirrels and other Rodents carry their Young," in the *Journal of Mammalogy*; a review of Maxwell's "Stalking Big Game with a Camera in Equatorial Africa," in the *New York Times Book Review*; and several notes in *Natural History*.

Mr. Lang, upon the conclusion of field work in connection with the Vernay Angola Expedition, began an extended reconnaissance of African areas in which he had not hitherto been able to make

observations. At the close of 1925 he is still in the field. His itinerary since leaving Angola includes visits to southern and south-eastern Africa.

Mr. Carl E. Akeley has given an interesting account of his plans for the new African Hall, written for the *Mentor*, the January, 1926, number, but appearing at the close of 1925. Mr. Akeley has held to his ideals for this hall and at last the actual accomplishment of the project is within his grasp.

Dr. Glover M. Allen, of the Museum of Comparative Zoölogy, who has been engaged in identifying the mammals collected in Asia by the Asiatic expeditions under the leadership of Roy Chapman Andrews, has continued to make good progress on the large series of specimens. Doctor Allen has published three papers in *Novitates* describing one new genus and ten new species and subspecies of Jerboas, Squirrels, and Hamsters. He is now occupied with the genus *Rattus*, and it is expected he will complete the difficult family of the Muridæ early in 1926.

Mr. George G. Goodwin was the author of three articles on popular natural history: "The American Beaver," in *Nature Magazine*; "The First Living Elephant in America," in the *Journal of Mammalogy*; and "The First Asiatic Elephant in America," in *ASIA Magazine*.

Throughout the year Mr. Anthony has acted as Secretary and Treasurer for the Committee on the J. A. Allen Memorial Fund and is able to report a healthy condition for the Fund. The last appeal for contributors was by means of letters signed by Mr. Madison Grant, Chairman of the Committee, and resulted in substantial donations. The amount now raised stands at \$8,164.78, which, with accrued interest, will exceed \$8,250.00. The goal set for the Fund is \$10,000.00.

Under contracts which the Department of Birds has made with Mr. Watkins in Peru, and the Olalla family in Ecuador, the Department of Mammals has assumed a joint interest and mammals are being collected there. Only a few specimens reached the Museum in 1925, although more were collected and shipments will undoubtedly be received in the near future which are certain to include valuable material. Mr. Goodwin

visited the British Isles and while there collected 502 mammal specimens, which form a valuable addition to our European series.

Mr. James L. Clark of the Department of Preparation, secured a splendid series of the magnificent Osborn caribou in northern British Columbia, and Mr. A. E. Butler brought back a series of two species of prairie-dogs from Colorado.

The most valuable gift received by the Department during 1925 was the collection of more than 1,200 mammals from Angola, donated by Mr. Vernay at the conclusion of his expedition. Other important gifts received during the year are listed in the detailed columns of the Accession List.

The only exchange involving any number of specimens is that with Hermano Nicéforo Maria, of the Instituto de la Salle of Bogotá whereby the Department of Mammals sends publications in exchange for specimens of Colombian mammals.



COMPARATIVE AND HUMAN ANATOMY

WILLIAM K. GREGORY, Curator

Research and publication in the Department of Comparative Anatomy during 1925 have been restricted by the urgent necessity of transferring the entire department to the new wing.

Research The planning and reinstallation of offices, general
and laboratory and lecture room, dissecting room and
Publication storerooms, have absorbed much time of the staff.

Nevertheless, steady progress has been made by Mr. H. C. Raven in his studies on the "Classification, Adaptive Radiation and Phylogeny of the Macropodidæ, or Kangaroos." Part I of this thorough and constructive research is nearing completion. Doctors Gregory and Hellman completed their paper on "The Dentition of *Dryopithecus* and the Origin of Man" and submitted it for publication in the *Anthropological Papers* of the Museum. A considerable part of the energies of the staff was devoted to the preparation of the numerous illustrations, tables of measurement and editorial work for this investigation.

Professor J. H. McGregor's article "Recent Studies on the Skull and Brain of *Pithecanthropus*," *Natural History*, November-December, 1925, may be regarded with justifiable pride by his colleagues, dealing as it does in an authoritative and convincing way with one of the most important problems in the later evolution of man.

Doctor McGregor is now in Europe, where he is securing a large series of stereoscopic photographs and detailed measurements and observations on extinct human races. His restoration of the intracranial cast of *Pithecanthropus* has been critically studied by Professors Dubois, Elliot Smith, Sir Arthur Keith, R. Anthony and others, who have given it their entire approval.

Doctor Hellman, in collaboration with the Curator, is continuing his studies on the human dentition for use in their joint paper, "A Classification of the Races of Man with Special Reference to the Dentition."

Doctor Gregory is accumulating the manuscript of his Columbia lectures on the evolution of the vertebrates, in preparation for his work entitled "From Fish to Man."

Without doubt the most important publication coming from the department during the past year has been "The Osteology of the Reptiles" by the late Samuel Wendell Williston. This posthumous work was edited and arranged by the Curator with the assistance of his staff. It is a work of wide scope which gives easy access not only to thousands of detailed facts but to a comprehensive classification of the swarming orders of reptiles and a well-wrought concept of their interrelationships.

An abstract of a longer report on "*Protoceratops*, a Primitive Ceratopsian Dinosaur from the Lower Cretaceous of Mongolia" was published by Doctors Gregory and Mook in *American Museum Novitates*, No. 156.

"The Biogenetic Law and the Skull Form of Primitive Man" was published in the *American Journal of Physical Anthropology*, October-December of this year. Doctor Gregory here takes issue with those who regard the skull form of young stages of anthropoid apes as indicating the adult condition in the ancestors of man.

The most important addition to the exhibition series was that of the *Pithecanthropus* case, an exhibit in the Hall of the Age of Man, Exhibits which includes a new and complete series of casts of *Pithecanthropus*,—skull-cap, brain cavity, three teeth, fragment of jaw and left femur,—made from the original fossils in the Teyler Museum, Haarlem, Holland, and presented to The American Museum of Natural History by Professor Eugen Dubois of the University of Amsterdam. For this exhibit Professor McGregor made a special series of restorations showing the half brain and half skull, the whole skull, the skull with one half restored, and one complete bust. The exhibit was arranged under the direction of Professor McGregor.

Various minor changes and additions have been made in the exhibits of the prehistoric races of man by the staff under the direction of the Curator.

Several of the exhibits of the department, especially the "Family Tree of Man," have been prepared in duplicate for sale and exchange to other institutions.

A new and rather extensive series of exhibits illustrating the comparative anatomy of the human dentition and of the human

hand and foot, designed for an introduction to the study of anthropology, has been begun.

The skeleton of "Lee Axworthy" is nearly completed and will shortly be placed on exhibition. Mr. Simons is working on a model of the famous trotter to be cast in bronze and placed beside the mounted skeleton. The Hall of Horses has been largely rearranged and labeled during the past year by Associate Curator Chubb.

Every effort has been made to build up the collection of injected specimens of mammals, particular attention being given to the primates, with the result that at the present time
Accessions the following genera of primates are represented: *Pan*, *Pongo*, *Hylobates*, *Cercocebus*, *Lasiopyga*, *Silenus*, *Macacus*, *Papio*, *Hamadryas*, *Theropithecus*, *Cebus*, *Seniocebus*, *Ateles*, *Alouatta*, *Saimiri*, *Midas*, *Hapale*, *Lemur*, *Galago* and *Tupaia*. Some of the genera are represented by more than one species and some species by more than one individual.

The most important accession of the year was a series of nestling platypi (*Ornithorhynchus anatinus*) together with a pair of eggs and some fine nests of the animal, which were collected and presented to the Museum by one of our Life Members, Mr. Harry Burrell, C.M.Z.S., of Sydney, Australia.

By exchange, a cast of the type of *Propleopus oscillans* (De Vis), 1889, was received from the Queensland Museum, and several specimens of *Tarsipes* from the Australian Museum at Sydney. A cast of the skull of *Wynyardia bassiana* was received from the Museum of Hobart, Tasmania. From the Australian Museum also we have received the cast of a very fine model of the skull of *Meiolania*.

In addition to the large collections from the *Arcturus* Expedition now on deposit in the Museum in the Department of Ichthyology, about 36 specimens were presented to the Department of Comparative Anatomy by courtesy of Mr. Beebe and were added to the study collections available to students and others.

Some 259 specimens have been received and distributed from the New York Zoological Society, also several gifts from Mr. Ellis S. Joseph, Life Member of the Museum. Among the latter was an aardvark.

EXISTING AND EXTINCT RACES OF MEN

CLARK WISSLER, Curator-in-Chief

Anthropological research in America during the year 1925 has been chiefly concerned with two centers of highly developed culture. In Yucatan the Carnegie Institution was engaged in the excavation, study, and restoration of the temples and other buildings at Chichen Itza. The Curator-in-Chief, Dr. Wissler, is a member of the Advisory Committee, and early in the year visited Yucatan in that capacity. The active work of excavation and reconstruction was in charge of Mr. Earl H. Morris, who for some years has been conducting archæological work for this department in the Southwest.

The Southwest is the second of the two scenes of concentrated activity mentioned above. The work there is partly among the living Indians who because of their numbers and advanced culture furnish an especially interesting field. This ethnological investigation has been conducted under several institutions with funds from a number of sources, but by workers who are in close co-operation. The study of the Navajo, supported in 1923 and 1924 by the Museum and the Southwest Society, was financed this year by Columbia University, as were also the studies among the Zuñi and the people of Cochiti. The Southwest Society supported work among the Zuñi also, and among the Hopi of the First and Second Mesas, while the Museum confined its work to the Hopi of the Second Mesa.

The archæological investigation of the ruins and other remains of the ancient people of the Southwest has also been shared by a number of institutions. Phillips Academy conducted the work at Pecos, New Mexico, which has been in progress for nearly ten years. This was the fifth consecutive year devoted to the study of Pueblo Bonito and Chaco Canyon with funds provided by the National Geographic Society. The work there this year was crowned by the uncovering of stratified material which carries the history of that settlement back to very early times. Various attempts to find a stratified record had been made in the past by workers from other institutions. These had failed because the greater mass of the accumulated rubbish, which should have yielded the desired in-

formation, had been thoroughly intermixed by the inhabitants of the Pueblo when they built a great kiva in the center of this rubbish. But for this unfortunate circumstance undoubtedly the story of Pueblo Bonito would have been secured by the Hyde Expedition when work was conducted there by this Museum in 1896-1899. During this year the active archæological work conducted by the department was confined to the lower Gila and Salt rivers in Arizona, and canyons del Muerto and de Chelly in the same state. As a result of these expeditions conducted by parties working in close coöperation and continuing over a series of years, the development of the culture of the Southwest and the geographical relations of its several parts, ancient and modern, are coming to light with startling distinctness and amazing detail.

Only a part of the anthropological collections are at the present time exhibited for public inspection. The precise proportion of

Exhibition
and Storage
Collections exhibited and stored material varies with the amount of it which is available, and also with its character. From certain regions the department has in its possession a greater number of archæological and ethnological

specimens than it would be profitable to place on view. On the other hand, in the case of human skeletal material, it does not appear that the general public would be interested in or greatly benefited by a display of a large series of crania or other bones. It should be emphasized, however, that collections in storage are by no means useless. It is the trained investigator who is able to secure the greatest benefit from a considerable series of easily accessible specimens, which he has need to study. Much of the activity of the staff during 1925 was devoted to the putting in order and arranging of the collections in storage in order to make studies of this sort possible. The Von Luschan Collection of anatomical material was properly arranged in boxes and trays, and stored in such order that the skulls and other bones from any locality may be examined without undue labor or delay. Also the accumulated anatomical material from various sources was all properly catalogued and placed in orderly storage.

Before leaving to join the Third Asiatic Expedition, Associate Curator Nelson had nearly completed the task of sorting out and arranging the archæological collections from North America. Those from Europe he had arranged previously. Until these col-

lections were so arranged it was impossible to properly prepare exhibits or to make use of the collections for comparison and study. Assistant Curator Mason rendered similar service for the collections from Mexico and Central America.

The ethnological collections, in addition to being made accessible for study, need constant attention to prevent injury and loss from insects. Our present storerooms are ample for the housing of the more destructible specimens, but even in these insect-proof rooms, constant care must be exercised to prevent the entrance of insects or their eggs in the case of specimens returned after temporary removal. While specimens of bone and stone should last indefinitely in a museum building, the life of basketry and skin clothing, especially such as that of the Eskimo, made of poorly dressed skins, is limited, even with the best of care.

At the invitation of Mrs. William Boyce Thompson, the department undertook an archæological survey of the lower Gila drainage in Arizona. A considerable ruin, known as Togetsoge, near Irion Ranch on the state highway between Superior and Miami, was excavated with a good yield of specimens, chiefly of pottery, stone, and bone, as well as an excellent series of skeletons. No similar ruin in that region had ever been excavated, and, therefore, much information of interest and importance was secured. In addition, many archæological sites in the vicinity were examined to secure a basis for comparison. This work, supported entirely by Mrs. William Boyce Thompson, was carried out by Mr. Erich Schmidt, a student at Columbia University.

The archæological work, begun in Canyon del Muerto in 1923 and continued in 1924, was conducted this year by Dr. A. V. Kidder of Peabody Museum of Harvard University, and of the Department of American Archæology of Phillips Academy, Andover, Massachusetts. With him was associated Mr. Earl H. Morris of the Carnegie Institution, who had been in charge during the two previous years. Most excellent results were obtained both in the specimens recovered and in the facts ascertained. The cooperation of these two experienced archæologists was ideal for the interpretation of the evidence obtained during the excavation. An examination of the White House of Canyon de Chelly was also made as well as a general survey of the



DEPARTMENT OF ANTHROPOLOGY

INDIAN RUINS IN CANYON DEL MUERTO, ARIZONA

Important archæological specimens are being obtained from these ruins.
Expedition supported by Ogden Mills

region with a view to future work. This project is being financed by Mr. Ogden Mills.

At Aztec, under the direction of Earl H. Morris, two additional rooms were cleared of débris. This pueblo, now more than half excavated, restored, and protected against damage from the elements, is a National Monument and under the care of the United States National Park Service.

The taking of motion pictures among the Hopi Indians of Arizona was made possible by the generosity of Mr. George D. Pratt.

The entire process of making a sash; the carding and spinning of the wool, and the stretching of the warp on the loom was secured. The making of basketry was also photographed and several other industrial and home scenes. The main object of the expedition, the photographing of the Snake Dance, was only partially successful. Permission to make the pictures was granted by the Commissioner of Indian Affairs, and, through the influence of Lorenzo Hubbell of Oraibi, the Indians concerned consented that a record should be made. The foot races occurring on the morning of the two last days were taken, together with the ceremonies on the kiva roof after the races. A good film was also secured of the antelope dance on next to the last day. These portions of the ceremony had never been taken in motion pictures before. On the last day, however, interference by a Hopi man from another village, who has been engaged for some years in commercializing the customs of his people, prevented the taking of the dancing with the snakes. The Museum possesses a film of this dance taken some years ago.

Associate Curator Nelson left New York in March to join the Third Asiatic Expedition, with which he spent the remainder of the year. The achievements of his field work are given in another section of this report.

No extensive changes have been made in the exhibition halls during the year. The Blackfoot tipi, which has long been the center of interest in the Plains Indian Hall, was repainted and the interior reconstructed. Minor changes were made in several other halls.

Dr. Mason, Assistant Curator of Mexican Archaeology, prepared a descriptive catalogue of the Minor C. Keith collection of

carved stones from Costa Rica. When illustrations have been prepared, the publication of this catalogue will make available one of the largest and finest series of sculptured stones ever obtained in America.

Dr. Waldemar Jochelson, especially employed for the purpose, prepared a manuscript dealing with the ethnology and history of the numerous peoples inhabiting northern Asia. Dr. Jochelson's first-hand knowledge of the inhabitants of Siberia, and his familiarity with Russian sources, have enabled him to make available much information hitherto inaccessible.

The collection of physical anthropology has been studied regularly by Research Associate Milo Hellman, who has spent in volunteer work one day a week at the Museum. A visiting Japanese scientist, Mr. Y. Matsuda, spent some weeks in the Museum examining the Von Luschan Collection. A number of less regularly engaged research workers have also made use of the physical anthropology collections.

The Curator of Ethnology, Dr. Goddard, was engaged on the material from the Navajo Indians collected by himself, and by Father Berard Haile, a resident missionary.

In September, Dr. Wissler left for a tour of New Zealand and Australia, on invitation of the Rockefeller Foundation, expecting to return early in 1926. The chief object of the journey was to study museum collections, to get first-hand impressions of the native cultures accessible, and to establish personal contacts with the anthropologists of these countries.

The Department suffered a great loss in the death at Tuscon, Arizona, on April 23, of Associate Curator Louis R. Sullivan. Dr. Sullivan joined the Staff in 1916, devoting much of his time for two years to study in preparation for work in physical anthropology. Later he spent eighteen months in Hawaii in a study of the Hawaiians and other peoples resident there with especial regard to race mixtures and growing children. After returning to the United States, his work was chiefly confined to the West because of his health. He had an unusual grasp of the problems in his field to which he applied a logical and critical mind. He had conceived promising plans for a redescription and reclassification of the races of man when his work was brought to an untimely end.



DEPARTMENT OF VERTEBRATE PALÆONTOLOGY

SKULL OF *Protoceratops*, A MONGOLIAN DINOSAUR

Fossil reptile skull *in situ*, Djadochta Red Beds of Shabarakh Usu. Collected by Central Asiatic Expeditions

DIVISION OF ASIATIC EXPLORATION AND RESEARCH

ROY CHAPMAN ANDREWS, Curator-in-Chief

The Third Asiatic Expedition started the work of 1925 in April, with the largest personnel which has ever gone into the field on a land expedition. The staff party comprised forty men all told, twelve Americans, two British, fourteen Mongols and twelve Chinese. The members of the party represented well-known workers in the sciences of palæontology, geology, zoölogy, palæobotany, botany, archæology, topography and photography.]

To transport this expedition to the field of its operation was no mean task in itself. The camel caravan which preceded the expedition party left Kalgan, China, on February 15, carrying fuel for motor cars and food for the party sufficient for five months. The camel caravan proceeded over a distance of 700 miles from Kalgan to the center of the Gobi Desert, there to await the coming of the motor party.

The year's plan of operation was more ambitious than it had been any previous year, and the expedition traveled more than 5,000 miles in the Gobi Desert, 2,200 miles of which were devoted to exploration in new territory situated along the northern and southern bases of the Altai Mountains. Its accomplishments may be summarized under the headings of (1) General results; (2) Palæontology; (3) Geology; (4) Palæobotany; (5) Zoology; (6) Topography; (7) Photography.

Archæology was added to the work of the Expedition for the first time. The finds reported by this division of the expedition were of the utmost interest, inasmuch as they told a more connected story of Azilian culture belonging to the end of the palæolithic or beginning of the neolithic period than any that has been found there before.

Discovery was made in the Gobi Desert of two palæolithic, or Old Stone Age cultures, and one neolithic. The late palæolithic culture somewhat corresponded to the Azilian of Europe but was probably older. The people represented by these cultures were named the "Dune Dwellers" because they inhabited the sand dunes on the shores of ancient lakes. They date back about 20,000 years.

The remains consisted of old fireplaces containing bits of charred bone and wood. There were also thousands of flint chips, scrapers, drills and like implements. The neolithic material consisted of stone arrow and spear points, finely worked scrapers, flint knives and crude hand pottery.

The theory that Central Asia was the point of origin for much of the reptilian and mammalian life of the world was greatly strengthened by the results of the year's work. Several **Palæontology** groups of mammals were discovered which were known previously only from America and Europe. Forty more dinosaur eggs, including several new types, were uncovered which will more than double the series for study, and they are also better specimens. The unearthing of a number of new and very perfect dinosaur skulls and skeletons completes the story of why and how the dinosaur eggs were preserved in this one locality. Six skulls of Cretaceous mammals were found in the dinosaur egg strata. In the Cretaceous, or Age of Reptiles, mammals were very rare. With one exception, these are the oldest mammal skulls in the world. In all, nine different stages in the animal life of Mongolia have been traced which cover a period of many millions of years and extend well back in the age of reptiles.

The feet and part of the legs of the giant baluchitherium were uncovered where, some three millions of years ago, the great beast had sunk in the quicksand and fossilized in an upright position. On another occasion the party came upon the skull of a strange double-horned animal, one entirely unknown heretofore. New and exceedingly rich fossil fields were discovered in which the skulls and skeletons are very numerous. It is hoped in the coming season to forge new links in the chain of the evolution of life in these fossil-bearing formations.

It has been determined that Mongolia is the oldest continuously dry land in the world. It has been a dry continent since late **Geology** palæozoic times, probably for 20 millions of years. In palæozoic times a great sea-way extended through the central Asian plateau from the Caspian to the Pacific. It has been learned that this plateau was never invaded by an ice sheet similar to that of Europe and America. It would seem that there was a "climatic cycle" in Mongolia. In other words, there were succes-

sive wet and dry stages, with an ever increasing aridity. For the last fifty thousand years the drying up has been rapid.

It has been discovered that in Oligocene times, about three millions of years ago, a vast redwood forest extended in Manchuria from Mukden to Vladivostock. This was Palæobotany very similar to the giant redwoods of California with accompanying trees of alder, maple and oak. Members of the expedition collected several thousands of living plants, which represented the flora of Mongolia very completely.

Zoology Thousands of specimens of fish, reptiles and mammals were collected, including many species new to science.

An accurate survey route from Kalgan straight through the heart of the Gobi Desert for more than 1,000 miles was mapped.

Topography This is the first time that definite levels have been carried from a known point. The maps are by far the most accurate ever made in this part of Asia and will supersede the old Russian map of the region, on which the expedition was obliged to depend in earlier trips, and which proved very inadequate.

Photography Twelve thousand feet of motion picture film were made, together with many thousand still photographs. By great good fortune, motion pictures were secured of herds of antelope and wild ass.

The work of the expedition was prosecuted with the utmost harmony, all departments coöperating with entire devotion to the accomplishment of the work for which they had been sent out. Without this coöperation the expedition could by no means have produced the remarkable results of the past year.

THE LIBRARY

RALPH W. TOWER, Curator*

Last year's report of the Library indicated as of vital importance to its proper maintenance and adequate growth three factors: an increase of funds for the purchase of books, the provision of additional stack room, and the enlargement of the library staff. During the year 1925 the institution unfortunately found it impossible to meet these needs, which have during that time grown consequently more insistent. The mental activity of an institution of learning is in many respects directly proportionate to its use of its library. Any crippling of the latter is therefore a severe curtailment of power in the larger scope of the institution itself.

The year has seen the acquisition of several titles long desired for our collections. Notable among these was the purchase through the Anson W. Hard Library Fund of Volumes 1-22 of *La Cellule*; these volumes were needed to perfect the library file. Complete runs of this Belgian periodical have become exceedingly rare owing to the devastation of the region in 1914. Another title wrested, so to speak, from national calamity was Matsumura: "Thousand Insects of Japan." We were able to secure the original edition of the rare first eight volumes. Two other items of special interest were: the acquisition of the tomes necessary for the completion of Pictet, F. J., "Matériaux pour la Paléontologie Suisse . . .," and the mammalian and ornithological sections of Reichenbach, H. G. L., "Die vollständigste Naturgeschichte des In- und Auslandes. . . ." The files were further enriched by the gift of the collection of periodicals and separates maintained by the late Dr. E. O. Hovey and by him willed to the Library. About the same time Dr. Hovey's family presented the collection of books belonging to their father, Dr. H. C. Hovey, a noted authority on Caves. These gifts are sincerely appreciated and will prove of real value.

The close of the year contained an event of paramount importance in Library history. Through the wisdom and generosity of Mr. Ogden Mills, whose kindness has so continuously made possible the purchase of many important and ultra-rare volumes, the valuable library of The New York Academy of Sciences was purchased for incorporation with the Museum files. This library is especially

*Deceased, January 26, 1926.

rich in its long and irreplaceable early runs of the publications of the learned societies of the world, and its ownership has been desired for many years.

Library coöperation has been evidenced by the growing use of our system of inter-library loans. The importance which librarians and students everywhere attach to this field of endeavor has been evidenced by the new "Union List of Serials in the Libraries of The United States and Canada" in course of publication by the H. W. Wilson Co. of New York. The checking of this list has been a steady drain upon the time and attention of the library staff, but, in view of its ultimate pragmatic importance, it has seemed justifiable to let this work take precedence of all but the most imperative routine demands.

The several series of publications of The American Museum of Natural History have been continued throughout the year.

Publications The *Bulletin*, containing the larger scientific papers, has appeared as follows: Volume XLVII, Allen Memorial, has been completed; in Volumes LI and LII, a number of articles have been issued, dealing with palaeontology, ichthyology and invertebrate zoology. The 15 published reports of the Albatross expedition have been assembled and are being bound with an introduction by Dr. Charles Haskins Townsend and a dedication to Mr. Arthur Curtiss James.

The *American Museum Novitates*, containing the shorter scientific contributions, have been issued in 50 numbers, 156-205, totaling 444 pages and 125 text illustrations.

The *Anthropological Papers*, concerned entirely with the researches conducted by the department staff, have been issued as follows: Five volumes, XV, XX, XXI, XXII and XXV have been completed, with title-pages and indices, and one part of Volume XXIII has appeared.

One new *Guide Leaflet* has been added to the series, No. 61, *The Capture and Preservation of Small Mammals for Study*. New editions have appeared of Numbers 46, *Peruvian Art*; 51, *A First Chapter of Natural History*; 52, *The Hall of the Age of Man*; 56, *The Geology of New York City and Vicinity*, and No. 60, *The Story of the Yosemite Valley*.

PUBLIC EDUCATION IN THE MUSEUM AND IN THE SCHOOLS

GEORGE H. SHERWOOD, Curator-in-Chief

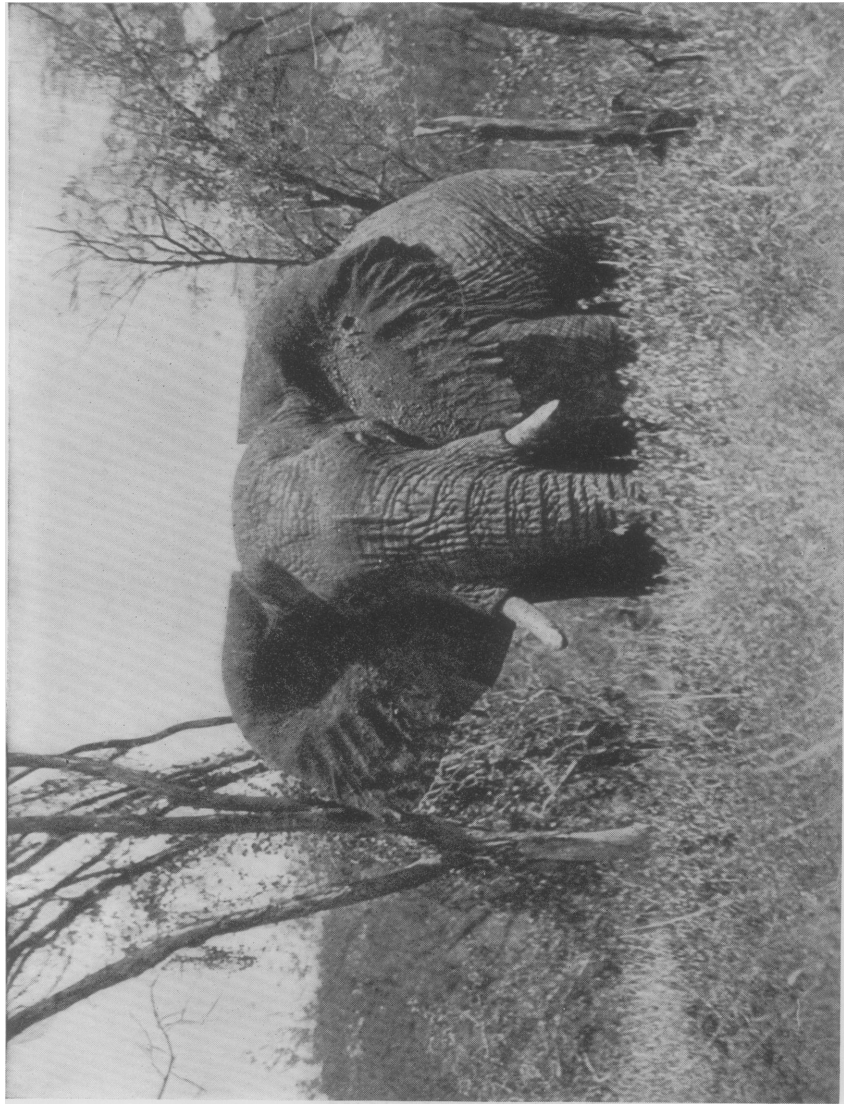
The American Museum of Natural History stands out as a great institution of education. As such it has a most important mission. In the realization of its ideals, it has been the function of the Department of Public Education to take the Museum to the schools and to bring the schools to the Museum. The following report will give some idea of what has been done toward [seizing this opportunity with its infinite possibilities.

The Museum's largest and most important contribution to education is its service to the schools, especially the public schools of Greater New York: through its lecture courses at the Museum and in the schools; through its distribution of lantern slides and films; through the circulation of nature study collections; through its exhibition hall instruction; its loan collections to libraries, and its special instruction for the blind. Its school service reaches every Borough of the City and is absolutely free. The enormous number of children who benefit by this Museum Extension is shown at a glance in the following summary of statistics for the year.

| | |
|---|-----------|
| Pupils using the nature study collections..... | 977,384 |
| Pupils and teachers attending lectures..... | 131,469 |
| Attendance of pupils of sight conservation classes..... | 4,822 |
| Attendance at library loan exhibits..... | 17,370 |
| Pupils viewing motion picture films..... | 333,097 |
| Pupils viewing lantern slides..... | 3,941,494 |

| | |
|---|-----------|
| Grand total of persons reached by educational activities..... | 5,405,636 |
|---|-----------|

Lectures to school children, upon subjects which correlate with the courses of study in the schools, are given in the Museum auditorium and at outside lecture centers. Such lectures, illustrated with slides and motion pictures films, supplement the classroom teaching. In all, 210 lectures were given, at which the total attendance was 154,181. These lectures include regular courses of Museum lectures that are given at the Washington Irving High School for the pupils of the elementary schools of the neighborhood, and similar lectures at Public School 42, The Bronx. Lectures given at the New York Training School for Teachers were a special feature of this service.



**DEPARTMENT OF PUBLIC EDUCATION
THE AFRICAN ELEPHANT**

**From the motion picture records of African Big Game, taken by Martin Johnson. Supported by the
Martin Johnson African Expedition Corporation**

These lectures are given by the members of the Museum's Scientific Staff, many of whom are specialists in the subjects which they present.

There is no branch of our school exhibition work which is more far-reaching in its results than the loaning of our lantern slides, because it places a large amount of visual instruction material in the hands of the teachers, in a way that is very practical for use. This work is under the immediate direction of Mrs. Grace Fisher Ramsey. Its growth since its inauguration in 1915 has been phenomenal. In 1915, the total number of slides circulated was 11,929; in 1925, the total number is 697,171, distributed in 15,796 separate loans as compared with 196 loans in 1915. This material is available for any of the teachers of Greater New York schools merely on request. The Museum makes delivery of the slides to the schools and calls for them when the teacher has finished with them.

The comparative statistics for the last five years give a better idea of the comparative growth of this work:

| | 1921 | 1922 | 1923 | 1924 | 1925 |
|---------------------------------|---------|---------|---------|---------|---------|
| Total Number of Borrowers . . . | 295 | 331 | 328 | 354 | 377 |
| Total Number of Loans | 3,963 | 6,219 | 9,677 | 12,847 | 15,799 |
| Total Number of Slides Lent. | 209,451 | 330,298 | 440,315 | 598,132 | 697,171 |
| Number of Public Schools | | | | | |
| Borrowing | 182 | 226 | 240 | 253 | 291 |
| Number of Slides Lent to | | | | | |
| Public Schools | 175,272 | 294,358 | 410,013 | 567,160 | 672,479 |
| Increase in Slides Lent to | | | | | |
| Public Schools | | 119,086 | 115,655 | 157,147 | 105,319 |
| Increase in Number of Loans | | | | | |
| to Public Schools | | 2,199 | 3,570 | 3,136 | 3,092 |

For several years the Museum has been building up a library of motion picture films which are suitable for instructional purposes.

These films constitute another valuable aid for the teachers. During the year, 1,076 reels have been loaned; 333,097 pupils have had an opportunity to see them. The procuring of suitable and adequate films for these purposes has been a difficult task, and we are fortunate to have received through the Yale University Press the third set of the "Chronicles of America," the best historical films that have

yet been produced. These films in particular are in constant demand by the schools.

Our lantern slide and film work has been handicapped because of the lack of the right kind of pictures to portray the life of the people of foreign countries, even the countries of Europe. While it is comparatively easy to purchase good pictures of historical buildings, famous streets, or important shrines in the cities of foreign countries, it is not easy to find good pictures that will show the common, homely, everyday activities of the people at large—their industries and their children. The Museum is making a definite effort to procure such pictures, and a beginning has been made in building up this kind of material. Mr. and Mrs. Philip H. Pratt very kindly volunteered to go to France last summer and take pictures of this character. Through the generous coöperation of M. Mongendre, the French Consul General at New York, M. Tillier, General Secretary of the Compagnie Général Transatlantique, and M. Joseph Perret, Directeur, Office Français du Tourisme, free transportation to France was provided. Through M. Henard of the Affaires Etrangères, special transportation facilities were arranged with the French railroads.

The results of the work of Mr. and Mrs. Pratt have surpassed our greatest expectations, and for the first time we are able to give the school children of New York a true idea of the life of the people of Brittany, Normandy, the Provinces of Central France, the Pyrenees, and along the Mediterranean coast. We are indeed grateful to Mr. and Mrs. Pratt for their services and to the French officials and others who made this work possible.

For many years the Museum reached more boys and girls through its circulating collections of natural history specimens than in any other way, and there are thousands of children in New York City who would have no opportunity of seeing and handling birds, mammals, butterflies, native woods, minerals and rocks, and other objects of nature, if they were not provided by the Museum. It is a matter of regret that this branch of our service to the schools has decreased during the past three years because of lack of automobiles and messengers to deliver and collect the specimens. The value of real objects, when

Circulating
Collections of
Natural History
Specimens

relatively small and portable, as aids in teaching is thoroughly appreciated, and it would be a move welcomed by the teachers to rejuvenate this part of our work and restore it to its former importance.

The following are the statistics for the past four years:

| | 1922 | 1923 | 1924 | 1925 |
|---|-----------|-----------|-----------|---------|
| No. of collections in use..... | 822 | 1,409 | 1,327 | 877 |
| No. of schools in Greater New York supplied..... | 475 | 472 | 433 | 410 |
| No. of pupils studying collections. | 1,648,608 | 1,491,021 | 1,247,914 | 977,384 |

With the aid of the Jonathan Thorne Memorial Fund, which was established in 1910, we have been able to continue our work with the Blind and Sight Conservation Classes of New York City and vicinity. During the spring and again during the fall, a series of talks was given for these classes, the entire number of talks or lessons given during the year being 329. A few of the subjects were as follows: "Indians of New York State," "The Earth and Neighbor Worlds," "How Seeds are Scattered," "The Story of Cotton and Sugar." These talks or lessons are illustrated with objects or apparatus which may be handled by the children. In 1925 these 329 talks were attended by 42 classes from 35 different schools, the total attendance of pupils, teachers and guides being 4,822, an increase of 38% over the preceding year. In addition to the activities described above, large relief globes of the world are lent to these classes for use in their classroom work. At the close of the year, 47 of these globes were in use in the Blind and Sight Conservation Classes of the City.

During the year, the Museum has continued its loans to the Public Library system of New York City. These collections represent various fields of natural history and types of human culture, and are used to stimulate the reading of books on the various subjects suggested by the librarians. The number of libraries reached was 15, and approximately 17,300 persons viewed these exhibits. The demand for this service is much greater than the supply. With a larger number of collections and more messengers, these statistics would be correspondingly greater.

Guides have been furnished, as in past years, without charge, to classes from public, private, and parochial schools, and this service has been extended beyond the confines of Greater New York; and the same service has been given to all Members of the Museum who asked for it. In all, 4,343 persons were conducted through the exhibition halls by members of the Department. This is a valuable branch of the service, which could be greatly extended if funds were available for organizing the work and for employing more persons as guides.

While special attention is given to the needs of the elementary and high schools for study, a considerable service has been rendered the colleges and universities. Not only have students from the institutions of higher learning in the City visited the Museum for study and research, but neighboring universities (Yale, Princeton, Cornell, Rutgers, and many others) have availed themselves of the opportunities that the Museum affords.

While the school work is necessarily limited to Greater New York, a much wider field is served by making lantern slides and photographs, selected from our files of 100,000 negatives, for use in schools and colleges, scattered throughout the world, and especially photographs for use as illustrations in newspaper and magazine articles and in books, particularly in textbooks for use in schools and colleges. During the past year, such visual aids have been supplied at a charge slightly above cost to more than 100 schools, colleges, and other organizations, representing 38 states and 17 foreign countries. It would be difficult to overestimate the value of the service in furnishing authentic and correctly labeled illustrative material for these purposes.

The Public Health exhibits, which were developed under the direction of Honorary Curator C.-E. A. Winslow, continue to attract much attention. In fact, these collections are studied by classes from the high schools to an extent equaled by only two or three other halls in the Museum. These exhibits are temporarily installed in the Forestry Hall on the first floor and in the west corridor of the third floor. They will be permanently installed in the large exhibition hall of the new School Service Building. Here they will have adequate space, and

will be more accessible to the pupils of the public schools. They are in charge of Miss Mary Greig, Assistant Curator of Public Health.

As in the past, the Department has been in coöperation with other organizations which are concerned with the teaching of youth.

Coöperation with Other Organizations There has been close coöperation with the Bureau of Lectures and Visual Instruction of the Board of Education, through its Director, Dr. Ernest L. Crandall. The School Nature League, the School Garden Association, the New York Bird and Tree Club, the Boy Scouts, Girl Scouts, and the Woodcraft League, are all organizations with which the Museum is in close touch, the members of the staff in several instances serving on important committees.

School Service Building The School Service Building, which is being erected by the City of New York for the special purpose of housing the Museum's activities with the schools, is nearing completion, and it is expected that it will be fully equipped by the end of 1926. When this four-story building is available, the Museum for the first time will have ample equipment to meet the requirements of teachers and pupils, and the immediate future, therefore, holds unrivaled opportunities for the further extension of the Museum's usefulness to the schools.

Acknowledgments During the year, the Department has benefited by a number of important and valuable gifts. Among these we wish to mention the eight reels of motion pictures entitled "The True North," presented by Carl Akeley; two sets of forty-seven reels each, "Chronicles of America," presented anonymously through the Yale University Press; a set of forty-seven reels, "Chronicles of America," presented by the Louis J. and Mary E. Horowitz Foundation, New York City, through the Yale University Press. Pathé Exchange, Incorporated, presented six reels, "Nanook of the North." Mr. George D. Pratt financed the taking of motion pictures of the Indian dances in the Southwest.

A complete list of the gifts of the year will be found on pages 87 to 116 of this Report. We desire to express our grateful thanks for these generous gifts and for the continued interest of friends, which is doing so much to widen the Museum's influence in the schools.

PUBLIC INFORMATION

GEORGE N. PINDAR, Chairman

The cordial cooperation of the public press with the Museum in the distribution of our news is most gratifying. It has been well represented at all of our meetings and editors have been generous of their space for the material which we have distributed. The local press, particularly, has been most helpful in voicing the Museum's pressing need for funds, and the spirit of cooperation that they have displayed will go far toward relieving these needs.

The thousands of items which have appeared in the papers relative to the Third Asiatic Expedition are evidence of the interest which editors have displayed in the work of this great expedition. Information regarding the Faunthorpe-Vernay Expedition to India was eagerly sought, and, through this helpful medium, the mammal, bird and reptile life of the Indian Plains, collected by this expedition, has become better known than ever before, particularly in this country. Adequate space was invariably given to the bulletins, and in many cases the articles appeared verbatim. In the work of Carl E. Akeley there was an equal interest, and at the recent showing at the Museum of his lion group, just completed, and of the three bronze pieces depicting lion-spearing, the attendance was witness of the news value of such an exhibition.

Photographs are eagerly sought by newspapers and magazines. During the year a large number of photographs was released to the press, exclusive of 281 prints secured direct from the photographic department by special writers.

The Curators of the Museum have given generous assistance in preparing items of current interest. Their scientific contributions have all been in simple, concise and understandable language that rendered them clear to the layman, and the continuous demands made upon the Publicity Department are sufficiently convincing evidence of the heightened interest of the public for such material. The present attitude of the press is most conservative in the production of articles, and it is seldom that it becomes necessary to warn news gatherers of the dread which Museum Curators have of sensationalism. During the past year, scarcely a week has gone by that has not been marked by the issuance of a news bulletin, and

special writers are regularly supplied with subject matter and photographs for articles.

Another large distributary for news, and, judging by numerous letters to Curators, a most popular one, has been the radio.

Through the courtesy of the various broadcasting
The Radio stations, members of the Museum staff have given
forty-two radio talks on natural history subjects.

Only one handicap was encountered in this form of news distribution and that was the brief space of time allowed to a speaker. Furthermore, if the program were in any way delayed, still less time could be granted, and Curators found it very difficult to condense a talk, at a moment's notice, with any satisfaction to themselves or to their listeners. Eventually it is hoped that this difficulty will be overcome. On the whole, it is felt that this feature of our work has been eminently satisfactory and desirable, and there can be no doubt that it forms one of our closest contacts with the public.



ACCESSIONS, 1925

ASTRONOMY

By Gift

ADAMS, WALKER S., Pasadena, California.

2 Photographs of corona, January 24, 1925.

FERGUSON, PROF. W. F. C., New York City.

8 Photographic enlargements.

FOLEY, ARTHUR J., Jersey City, New Jersey.

Photograph of various degrees of sun's eclipse, January 24, 1925.

FURNESS, PROF. CAROLINE E., Poughkeepsie, New York.

5 Sketches and 9 photographs of sun's eclipse on January 24, 1925; 6 photographs of instruments at Vassar Observatory; model for showing action of eclipse; 9 observations and diagrams.

HARRIS, W. C., New York City.

6 Photographs of eclipse of January 24, 1925, and of photographic instruments.

HENRY, WILLIAM, New York City.

4 Photographs of sun's eclipse made at Southold, Long Island, January 24, 1925.

LOWELL OBSERVATORY, Director of, Flagstaff, Arizona.

1 Transparency of Halley's Comet photographed at observatory, May 13, 1910.

LUMB, HENRY A., Flushing, New York.

Photograph of various degrees of sun's eclipse on January 24, 1925, from Lindenhurst, Long Island.

PERRET, FRANK A., Mountain View, New Jersey.

1 Postcard photo of eclipse, January 24, 1925.

SCOTT, MISS S. E., Baltimore, Maryland.

2 Photographs of eclipse, January 24, 1925.

SLOCUM, PROF. FREDERICK, Middletown, Connecticut (Through Dr. George F. Kunz).

2 Large photographs of total eclipse of sun, January 24, 1925.

SMITH, HERBERT B., New York City.

1 Transparency of eclipse corona, January 24, 1925.

SWEET, GEORGE B., Danbury, Connecticut.

1 Mounted photo of hen's egg laid January 24, 1925.

By Purchase

1 Lantern slide of eclipse of May 28, 1900.

3 Transparencies of solar eclipse, January 24, 1925.

8 Lantern slides of eclipses from Yerkes Observatory.

1 Flash spectrum of solar eclipse, May 28, 1900; 1 transparency of meteorite shower of June 7, 1899.

GEOLOGY

By Gift

ALLEN, FREDERICK I., New York City.

2 Large specimens and 5 fragments of *Cryptozoön undulatum* from Greenfield, New York.

BRIGHAM, EDWARD M., Battle Creek, Michigan.

Dust of Katmai that fell on the Island of Kodiak, Alaska; rippled volcanic ash and large lump of volcanic ash from the Staked Plains, Texas.

BROWN, COL. EDWARD T., New Market, Virginia.

6 Boxes of cave specimens from Endless Caverns.

- CARRION, CLODOVEO, Catedratico, Ecuador.
 1 Fossil leaf from Chile.
- CLARK, JAMES L., New York City.
 4 Photographs of volcanic formations and 1 plaster cast of the model of the crater Ngoro Ngoro, Central Africa.
- COCKAYNE, E. O., Boston, Massachusetts.
 17 Fossils from Norwich and Brandon, England.
- COOPER, MORRIS, New York City.
 1 Garnet injected with quartz along the garnet parting planes.
- DABNEY, BEQUEST OF HERBERT, Boston, Massachusetts (through Mrs. N. H. Dabney).
 3 Boxes of lava specimens from Fayal, Azores.
- DABNEY, MONCURE, Vicksburg, Mississippi.
 2 Specimens of fossil wood.
- DÉROGNAT, M., Marseilles, France.
 7 Terebratula, 50 fragments of a carapace (Upper Cretaceous); 200 ammonites (Jurassic), from France.
- DZOBİK, J., New York City.
 1 Sandstone and 1 oyster shell conglomerate from Flushing, Long Island; 18 glacial specimens containing fossils from Long Island and Staten Island.
- EGLOFF, O. L., New York City.
 1 Sandstone containing lumps of clay.
- FABER, E. S., Summit, New Jersey.
 4 Clay concretions from Summit, New Jersey.
- FEATHER-STONE INSULATION COMPANY, Los Angeles, California.
 2 Fossils in diatomaceous earth.
- FREEBODY, J. W., Jamaica, Long Island, New York.
 1 Glacial drift rock from Wilton, Conn.
- GOODMAN, DAVID N., New York City.
 3 Banded ironstone concretions, 4 specimens of chrysotile asbestos, from South Africa; 10 specimens of zonolite from Montana; 1 banded quartzite from South Africa.
- GREEN, JACOB, Carbondale, Pennsylvania.
 1 Fossil plant from powder colliery.
- GREGORY, DR. W. K., New York City.
 5 Specimens of *Spirophyton caudagalli*, Esopus shales, (Cauda-galli grit), from Kingston, New York; 1 negative and 2 prints.
- HALL, JAMES J., New York City.
 1 Specimen of graywacke (Devonian).
- HILLIARD, DAVID G., Trenton, New Jersey.
 17 Ironstone concretions.
- HOLA, FRANK, New York City.
 1 Fossil coral (glacial drift specimen) from vicinity of Doolinville, New York.
- HOWE, FRED, Brooklyn, New York City.
 15 Fossil invertebrate specimens of Cretaceous age, Delaware.
- HUBBARD, LYLE S., Toledo, Ohio.
 7 Fragments of fossil crinoid stems.
- HUNNEWELL, MRS. S. P., White Plains, New York.
 3 Specimens of *Calymene senaria*.
- JACOBSON, CHARLES, New York City.
 1 Specimen of banded shale.
- KENNEDY MINING AND MILLING COMPANY, San Francisco, California.
 6 Specimens of native gold in quartz tourmaline vein from 2,600 feet below sea level.
- KIER, WILLIAM A., College Point, Long Island, New York.
 4 Specimens of lava and 1 box of sulphur from the Kilauea volcano, Hawaii.

KINNEY, WARREN, Morristown, New Jersey.

- 1 Small box of sand-collar snails.

LANG, HERBERT, New York City.

- About 180 fossil invertebrates from Africa.

LOEB, H. S., Meridian, Mississippi.
Ironstone concretions.

MAYMO, JOSEPH, Corona, Long Island, New York.

- 1 *Atrypa reticularis* (?), (Devonian), from Corona, Long Island.

MORGAN, LESTER, New York City.

- 1 Occipital condyle collected near Ashokan Reservoir.

OSTERNDORFF, EDWARD R., Township Deep Park, New York.

- 1 *Spirifer mucronatus*, 1 *Hindia sphaeroidalis*, from Huguenot and Port Jervis, New York.

OTT, HARRISON W., New York City.

- 33 Specimens of hollow iron concretions with pebbles attached.

RICHMYER, F. L., Glendale, Brooklyn, New York.

- 1 Ferruginous clay concretion.

SMITH, ARDEN W., New York City.

- 1 Framed photo of the San Francisco earthquake.

VERRILL, A. HYATT, Ancon, Panama Canal Zone.

- 2 Siderolites from Bolivia and Peru, and 1 sample of slip clay.

BY EXCHANGE

BRIGHAM, EDWARD M., Battle Creek, Michigan.

- About 48 specimens of lava from Hawaii.

UNITED STATES NATIONAL MUSEUM, Washington, D. C. (Through Dr. Charles D. Walcott).

- 40 Species of Cambrian fossils.

BY PURCHASE

- 1 Galena and Calcite in granite rock from New York.

- 2 Ness City meteorites.

BY EXPEDITION

- 121 Trays of varve clay samples, collected by Dr. C. A. Reeds at Haverstraw and Beacon, New York.

MINERALOGY

BY GIFT

BLUMENTHAL, MAURICE, New York City.

- 3 Carved agate crosses, South America.

CANFIELD, FREDERICK A., Dover, New Jersey.

- 2 Artificial Fayalite, Wilmington, Delaware.

COCKAYNE, E. O., Boston, Massachusetts.

- 1 Fluorite, Derbyshire, England.

CORAM, GEORGE M., Utica, New York.

- 1 Quartz after Calcite, Lewis County, New York.

DICKERMAN, MRS. JESSEY, New York City.

- 1 Prehnite, Upper Peninsula, Michigan.

DZOBIEK, JOSEPH, New York City.

- 25 Miscellaneous mineral specimens, New York City.

EISNER, MARK H., New York City.

- 1 R. & H. Beck exhibition microscope with complete accessories and show case.

FALKENAU, ROBERT, New York City.

- 2 Agates, Uruguay, South America; 1 Stalactite, Luray Cavern, Virginia; 1 Calcite.

FERRAND, LEONARD W., Samaná, Dominican Republic.

- 28 Pseudomorphs of Limonite after Pyrite, Samaná, Dominican Republic.

GABAY, ARTHUR D., New York City.

- 1 Rose Quartz, Black Hills, South Dakota; 2 Aquamarine, Brunswick, Maine; 1 Topaz, Brazil; 2

Tourmaline, Newcomb, Essex County, New York; 3 Turquois, Los Cerrilos, New Mexico, 3 Turquois, Persia; 2 Tourmaline crystals, San Diego County, California.

GEOLOGY, DEPARTMENT OF (Transfer).

1 Azurite and Malachite, Brixleg, Tyrol, Austria; 1 Cassiterite, Naegi-Machi Mino, Japan; 1 Chromite in Dunite, Kraubath, Steiermark, Austria; 1 Chrysoberyl, Marshendorf, March, Bohemia; 1 Chrysocolla, Tsumeb, Southwest Africa; 1 Gold, Salisbury, Rhodesia, South Africa; 1 Magnetite, Chlorite and Calcite, Schmiedeberg, Germany; 1 Malachite and Bayldonite, Tsumeb, Otavi, South West Africa; 1 Rammelsbergite and Niccolite, Eisleben, Thuringia, Germany; 1 Sphalerite vein structure, Lautenthal, Thuringia, Germany; 1 Astrophyllite, Archipelago of Los, French Guinea; 1 Beryl, Ampangabe, Madagascar; 1 Betafite, Ambalavatokely, Madagascar, 4 Betafite, Antonifotsy, Madagascar; 1 Caesium bearing Beryl, Anjanoboana, Madagascar; 1 Cordierite, Mt. Tsilaisina, Madagascar; 3 Corundum, Vatondrangy, Madagascar; 1 Diop-tase and Quartz, Djoue, French Congo; 1 Epidote, Ampangabe, Madagascar; 1 Imerinite, Ambatoarina, Madagascar; 1 Lepidolite, Antsongombato, Madagascar; 1 Manganapatite in Pegmatite, Antsongombato, Madagascar; 5 Orthoclase, Itron-gahy, Madagascar; 2 Redonite, Isle of Corail, Archipelago of Los, French Guinea; 1 Romauechite, Romaueche, Laone et Loire, France; 1 Struverite, Ampangabe, Madagascar; 1 Rubel-

lite, Manjaka, Madagascar; 1 Tourmaline, Tompombohitra, Madagascar; 2 Tourmaline in Pegmatite, Tompombohitra, Madagascar; 1 Trona, Oasis of Bilma, Sahara; 1 Villiaumite in Nephelite, Isle of Roume, Archipelago of Los, French Guinea; 1 Bismuth, Gow Ganda, Ontario; 1 Covellite, Butte, Montana; 1 Silver and Smaltite in Calcite, Cobalt, Ontario; 1 Chrome mica schist (Fuchs-site), Rutland, Vermont.

GOULD, MRS. GEORGE M., Atlantic City, New Jersey. (In memory of Dr. George M. Gould).

1 Precious Opal, White Cliffs, New South Wales, Australia.

HAWKINS, DR. ALFRED C., Rochester, New York.

1 Calcite; 1 Fluorite; 1 Fluorite, Sphalerite and Dolomite; 1 Selenite, Rochester, New York.

HOADLEY, CHARLES W., Englewood, New Jersey.

3 Siderite, Franklin, New Jersey; 1 Malachite pseud. after Azurite, Bisbee, Arizona; 1 Galena and Chalcopyrite, 1 Marcasite, Franklin, New Jersey.

MANCHESTER, JAMES G., New York City.

1 Cut Smoky Quartz, 98 carats, South Portland, Connecticut.

MILLER, CAPT. THOMAS I., Newark, New Jersey.

1 Octahedrite on trap, Somerville, Massachusetts.

NEWMAN, VICTOR F., New York City.

2 Jefferisite, Westcliffe, Custer County, Colorado.

OSBORN, MRS. HENRY FAIRFIELD, New York City.

7 Gallo-Roman beads from disin-terments in Department of Morbihan, France.

- OTT, HARRISON W., New York City.
Collection of 150 specimens of miscellaneous small duplicate minerals.
- PALACHE, DR. CHARLES, Cambridge, Massachusetts.
1 Amblygonite altering to Kaolin, Noyes Mt., Greenwood, Maine; 1 Apatite, Noyes Mt., Greenwood, Maine; 1 Apatite in Quartz, Noyes Mt., Greenwood, Maine; 1 Green Manganese Apatite, Buckfield, Maine; 1 Chrysoberyl in Quartz, Hartford, Maine; 1 Cookeite and Quartz pseud. after Feldspar, Buckfield, Maine; 1 Eosphorite, Fairfieldite and Rhodochrosite, Buckfield, Maine; 1 Feldspar coated with Cookeite and Quartz, Buckfield, Maine; 2 Kaolin pseud. after Spodumene, Greenwood, Maine; 2 Lepidolite veins in Kaolin, Buckfield, Maine; 1 Lepidolite and Quartz, Buckfield, Maine; 1 Lithiophilite altering to Reddingite, Buckfield, Maine; 1 Microcline micropertthite with Dendrite, Buckfield, Maine; 1 Quartz aggregate with Albite, Greenwood, Maine; 1 Quartz coated with Herderite, Buckfield, Maine; 3 Quartz pseud. after unknown mineral, Noyes Mt., Greenwood, Maine; 1 Spodumene, Noyes Mt., Greenwood, Maine; 1 Lithia Tourmaline, Noyes Mt., Greenwood, Maine.
- PAPKE, HERMAN, Weehawken, New Jersey.
14 Datolites, Snake Hill, New Jersey; 2 Pyrite on Lignite, Kreischerville, Staten Island; 1 Limonite, Kreischerville, Staten Island, New York.
- PETER, BROTHER J., Pocantico Hills, New York.
1 Jasper, New England, North Dakota.
- REID, MISS S. C., Brooklyn, New York.
1 Amethyst pebble, Sag Harbor, Long Island.
- RICKETTS DR., L. D., Warren, Arizona.
4 Wulfenite, Los Lamentas District, Chihuahua, Mexico.
- SISTERS OF NOTRE DAME, New England, North Dakota.
10 Jasper pebbles, New England, North Dakota.
- STAYER, W. H., Jackson Heights, New York.
3 Bustamite, Tetela del Ora, Pubela, Mexico.
- TEXAS GULF SULPHUR COMPANY, New York City. (Through Mr. C. E. Meagher.)
1 Anhydrite, 1 Calcite, 1 Sulphur, 2 Sulphur and Calcite; Matagorda County, Texas.
- DE LA TORRE, DR. RICARDO, Havana, Cuba.
2 Vials of Garnierite, San Domingo, Cuba; 1 Cubanite, Minas de Matahambre, Pinar del Rio, Cuba; 1 Hematite, Gerona, I. de Pinos, Cuba; 1 Calcite, Bellamar Caves, Matanzas, Cuba; 1 Pyrolusite, Bayamo Oriente, Cuba; 1 Stibnite, McKinley, Nueva Gerona, I. de Pinos, Cuba.
- By EXCHANGE
- HOADLEY, CHARLES W., Englewood, New Jersey.
1 Margarosenite, Franklin, New Jersey.
- KARLSSON, ALBERT F., New York City.
1 Magnitoplumbite in Mangano-phyllite, Langban, Sweden.
- VAUX COLLECTION, Academy of Natural Sciences, Philadelphia, Pennsylvania,
1 Kalithomsonite, Narsarsuk, Greenland; 1 Paravauxite, Llal-

lagua, Bolivia; 1 Paraluaurionite, Sierra Gorda, Chile; 1 Penroseite, Colquechaca, Bolivia; 1 Rhomboclase, Cerro de Pasco, Peru; 1 Trudellite, Cerros Pintados, Tarapaca, Chile; 1 Vauxite, Llallagua, Bolivia.

BY PURCHASE

BRUCE FUND

- 1 Allemonite, Příbram, Czechoslovakia; 1 Andalusite, Liesen, Austria; 1 Aragonite, Klein Kugel, Austria; 1 Beraunite, St. Benigna, Czechoslovakia; 1 Bertrandite, Pisek, Czechoslovakia; 1 Bismuthinite, Bleka, Norway; 1 Bismuthinite, Schneeberg, Saxony; 1 Beudantite, Bernbach, Nassau, Germany; 1 Boulangerite, Nertschinsk, Siberia; 1 Cacozenite, St. Benigna, Czechoslovakia; 1 Carpholite, Schlaggenwald, Czechoslovakia; 4 Calcites, Příbram, Czechoslovakia; 1 Corynite, Olsa, Austria; 1 Childrenite, Redruth, Cornwall, England; 1 Diaphorite, Příbram, Czechoslovakia; 1 Dihydrate, Reinbreitbach, Germany; 1 Dufrenite, Auerbach, Germany; 2 Eulytite, Schneeberg, Saxony; 1 Emplectite, Schwarzenberg, Saxony; 1 Gersdorffite, Schladming, Austria; 1 Gold, Vorospatak, Roumania; 1 Helvite, Schwarzenberg, Saxony; 1 Hubnerite, Schlaggenwald, Czechoslovakia; 1 Krennerite, Offenbanya, Roumania; 1 Leadhillite, Leadhills, Scotland; 1 Linnaeite, Musen, Westphalia, Germany; 1 Manganocalcite in Dolomite, Schemnitz, Czechoslovakia; 1 Milarite, Val Guif, Switzerland; 1 Mixite, Joachimstal, Czechoslovakia; 1 Nagyagite, Nagyag, Roumania; 1

Magnesite (Ankerite), Greiner, Austria; 1 Polybasite, Příbram, Czechoslovakia; 1 Pseudomalachite, Nischue Taglisk, Russia; 1 Pyromorphite, Mies, Czechoslovakia; 2 Rhodochrosite, Kapnik, Roumania; 1 Rittingerite, Joachimstal, Czechoslovakia; 1 Rutile in Quartz, Modriach, Austria; 1 Sartorite, Binnenthal, Switzerland; 1 Stephanite, Schemnitz, Czechoslovakia; 1 Tennantite, Binnenthal, Switzerland; 2 Tetradyte, Orawicza, Czechoslovakia; 1 Uranocerite, Frankenstein, Saxony; 1 Valentinite, Pernek, Roumania; 1 Vanadinite, Bleiberg, Austria; 1 Wagnerite, Hollgraben, Austria; 1 Walpurgite and Torbernite, Schneeberg, Saxony; 1 Wurtzite, Příbram, Czechoslovakia; 1 Witherite, Newberg, Austria.

- 1 Lapis Lazuli, Ural Mountains, Russia.

- 1 Flint, Dover, England.

- 1 Albite (Clevelandite), Chesterfield, Mass.; 2 Barite, Frizington, England; 2 Beryl, Stoneham, Maine; 1 Beryl in Quartz, Haddam Neck, Connecticut; 1 Biotite, Ontario, Canada; 1 Calcite, Joplin, Missouri; 2 Calcite on Quartz and Hematite, Cumberland, England; 1 Calcite; 3 Calcite, Cumberland, England; 1 Calcite (Mexican Onyx), Mexico; 1 Calcite (Ruin Marble), Florence, Italy; 1 Calcite (Cleavage), Joplin, Missouri; 1 Fluorite, Westmoreland, New Hampshire; 2 Fluorite, Durham, England; 1 Fluorite, Weardale, Cumberland, England; 1 Fluorite and Calcite on Galena, Cumberland, England; 1 Galena on Fluorite, Cumberland, England;

- 1 Galena on Dolomite, Joplin, Missouri; 1 Garnet in Mica Schist, Stickeen River, Alaska; 1 Garnet, Salida, Colorado; 1 Gypsum, Italy; 1 Hematite, Cumberland, England; 1 Limonite pseud. after Marcasite; 2 Microcline (Amazon Stone), Pikes Peak, Colorado; 1 Precious Opal, White Cliffs, New South Wales; 2 Phlogopite, Ontario, Canada; 1 Pyrite, Colorado; 1 Pyrite on Limonite, New Jersey; 1 Quartz (Amethyst), Colorado; 1 Quartz (Amethyst), Guanajuato, Mexico; 1 Quartz, Thunder Bay, Michigan; 1 Quartz enclosing Actinolite, Japan; 1 Quartz (Chalcedony), Tampa Bay, Florida; 1 Quartz (Jasperized Wood), Arizona; 1 Rose Quartz, Black Hills, South Dakota; 1 Rose Quartz, Maine; 1 Quartz, Arkansas; 1 Quartz; 1 Quartz (Moss Agate), Colorado; 1 Rutilated Quartz, North Carolina; 1 Quartz and Tourmaline, Paris, Maine; 1 Serpentine, Thetford, Quebec, Canada; 1 Serpentine, Montville, New Jersey; 1 Siderite, Antwerp, New York; 1 Sphalerite, Joplin, Missouri; 1 Quartz (Onyx); 1 Tourmaline in Lepidolite and Quartz; 2 Tourmaline in Muscovite, Barton, Colorado; 1 Tourmaline in Muscovite; 1 Tourmaline (Rubellite) in Lepidolite, San Diego, California; 2 Tourmaline in Quartz, Paris, Maine; 1 Fossil Coral; 1 Indian axe head.
- 1 Arsenolite with Realgar, 1 Barandite; Manhattan, Nevada.
- 1 Microcline in Quartz, India.
- 1 Calcite with Heulandite, 1 Manganopectolite, West Paterson, New Jersey; 1 Prehnite with Calcite, Prospect Park, New Jersey; 1 Analcite and Calcite, 1 Stilbite and Calcite, West Paterson, New Jersey; 13 minerals, West Paterson, Prospect Park and Franklin, New Jersey.
- 2 Copper pseudomorphs, 2 Aragonite, Coro Coro, Bolivia; 1 Bornite, El Teniente, Chile; 1 Hematite, Burmier, Minas Geraes, Brazil; 1 Limonite, Ouro Preto, Minas Geraes, Brazil; 1 Pulcherite with Bismuth, Brejhoba, Minas Geraes, Brazil; 1 Quartz, Congonhas, Minas Geraes, Brazil; 1 Quartz, Diamantina, Brazil; 2 Quartz, Congonhas, Minas Geraes, Brazil; 1 Quartz enclosing Hematite and Chlorite, Burmier, Minas Geraes, Brazil; 2 Quartz, Reash, Minas Geraes, Brazil; 1 Quartz (Smoky) enclosing water, Minas Geraes, Brazil; 2 Quartz (Steeple), Diamantina, Minas Geraes, Brazil; 1 Rutile, Diamantina, Minas Geraes, Brazil; 1 Tenientite, El Teniente, Chile; 1 Topaz, Rodrigo Silva, Minas Geraes, Brazil; 1 Topaz in Kaolin, Rodrigo Silva, Minas Geraes, Brazil; 3 Xenotime, Diamantina, Minas Geraes, Brazil.
- 1 Albite; 1 Amethyst and Calcite; 12 Analcite; 1 Analcite and Calcite; 1 Analcite, Calcite and Chabazite; 1 Analcite and Datolite; 1 Analcite, Heulandite, Calcite and Laumontite; 1 Analcite and Natrolite; 1 Analcite on Prehnite; 1 Analcite, Thomsonite and Natrolite; 1 Babingtonite on Quartz; 1 Barite on Quartz; 9 Calcites; 1 Calcite on Aragonite; 1 Calcite, Datolite and Prehnite; 1 Calcite and Prehnite; 15 Calcite on Prehnite;

- 1 Calcite, Prehnite and Datolite; 2 Calcite and Quartz; 2 Chabazite; 1 Chabazite and Calcite; 1 Chabazite and Heulandite; 1 Chabazite on Prehnite; 1 Chabazite, Prehnite and Calcite; 1 Chabazite and Quartz; 5 Datolite; 4 Datolite with Calcite; 1 Datolite, Calcite and Prehnite; 2 Datolite on Prehnite; 1 Gmelinite and Calcite; 2 Gmelinite, Stilbite and Calcite; 5 Heulandite on Calcite; 1 Laumontite and Calcite; 1 Laumontite and Prehnite; 1 Laumontite and Thomsonite; 2 Natrolite; 6 Pectolite; 1 Pectolite and Analcite; 1 Pectolite on Datolite; 44 Prehnites; 1 Prehnite and Analcite; 1 Prehnite, Analcite and Calcite; 2 Prehnite on Aragonite; 1 Prehnite, Aragonite and Natrolite; 2 Prehnite, Aragonite and Albite; 5 Prehnite and Calcite; 3 Prehnite on Calcite; 1 Prehnite and Datolite; 1 Prehnite and Laumontite; 1 Prehnite and Thomsonite; 2 Prehnite, Thomsonite and Calcite; 1 Prehnite, Thomsonite and Diabantite; 1 Pseudomorph; 8 Quartz; 1 Quartz var. Amethyst and Calcite; 1 Quartz, Heulandite and Chabazite; 1 Quartz pseudomorph; 4 Stevansite; 1 Stevansite and Calcite; 1 Stilbite; 1 Stilbite, Analcite and Chabazite; 1 Stilbite, Calcite and Gmelinite; 1 Stilbite on Gmelinite; 1 Stilbite, Quartz and Calcite; 1 Thomsonite; 1 Thomsonite, Natrolite and Prehnite; 2 Thomsonite on Prehnite; 1 Thomsonite, Prehnite and Analcite; 1 Thomsonite, Prehnite and Datolite; 8 miscellaneous minerals; all of above from West Paterson, New Jersey. 6 Calcites, Snake Hill, New Jersey.
- 4 Golden Beryls (cut stones), 7½ carats, Rodrigo Silva Mine, Minas Geraes, Brazil; 1 Topaz crystal, Arassuahy, Minas Geraes, Brazil; 1 Columbite, Espirito Santo, Brazil; 2 Monazite crystals, Itapemirim, Espirito Santo, Brazil.
- 1 Bismuthinite, Llallagua, Bolivia; 1 Cassiterite, Montserrat, Panza, Bolivia; 6 Cassiterite, Araca, Bolivia; 1 Jamesonite, Huanuni, Bolivia; 1 Jarosite, Huanuni, Bolivia; 2 Teallite, Montserrat, Panza, Bolivia; 1 Vivianite, Llallagua, Bolivia; 1 Tamarugite, Cerros Pintados, Chile; 1 Wavellite, Llallagua, Bolivia; 1 Wurtzite, Montserrat, Panza, Bolivia.
- 1 Trona, Mogabi, Belgian Congo.
- 1 Foshagite with Vesuvianite, Crestmore, California; 1 Aegirite, Greenland; 1 Ancylyte, Narsarsuk, Greenland; 1 Arduinite, Venetia, Italy; 1 Benjaminit, Nye County, Nevada; 1 Bolivarite, Pontevedra, Spain; 1 Bournonite, Horhausen, Germany; 2 Braunite, Langban, Sweden; 1 Cerussite, Sidi Amor Mine, Tunisia; 1 Chinkolobuite on Curite with Kasolite, Katanga District, Belgian Congo; 1 Collophanite, Podolien, Russia; 1 Covellite, Bor, Servia; 1 Dewindtite, Katanga District, Belgian Congo; 1 Dixenite, Langban, Sweden; 1 Dussertite, Constantine, Algeria; 1 Elpidite, Narsarsuk, Greenland; 1 Finne-manite, Langban, Sweden; 1 Fluorite, Rabenstein, Tyrol, Austria; 1 Hogbomite, Lapland; 1 Holmquistite, Uto, Sweden; 1 Jezekite, Greifenstein, Saxony; 1 Molybdenite, Raade, Norway; 1 Otavite, Otavi District, Southwest Africa; 1 Quartz (Ferru-

ginous), Betafo, Madagascar; 1 Risorite, Risor, Southern Norway; 1 Lot of Sal Ammoniac, Zwickau, Saxony; 1 Sarkenite, Langban, Sweden; 1 Schoepite with Soddite, etc., Katanga District, Belgian Congo; 1 Schwartzbergite, Atagualpa, Chile; 1 Scorodite, Constantine, Algeria; 1 Silver, Kongsberg, Norway; 1 Smithsonite, Tsumeb, Southwest Africa; 1 Stichtite in Serpentine, near Dundas, Tasmania; 1 Swedenborgite, Langban, Sweden; 1 Trimerite, Langban, Sweden; 1 Tilasite, Langban, Sweden; 1 Ussingite, Kanangerdluarusk, Greenland; 2 Wulfenite, Menzica, Slavonia, Yugoslavia; 1 Yttrifluorite, Northern Norway.

- 1 Epidote and Twinned Quartz, Prince of Wales Island, Alaska; 2 Kempite in Hausmannite, Alum Rock Canyon, San José, California.
- 1 Axial angle apparatus equipped for Goniometer and Refractometer measurements, including glass prism for liquids; 1 turning apparatus attachment for polarizing microscope.

GENERAL FUND

- 2 Apophyllite; 1 Calcite, Quartz and Heulandite; 3 Heulandite; 2 Heulandite on Quartz; 1 Laumontite; from Great Notch, New Jersey; 1 Apophyllite from Snake Hill, New Jersey; 3 Apophyllite on Calcite; 1 Apophyllite, Heulandite and Babingtonite; 1 Apophyllite and Heulandite on Quartz; 2 Babingtonite on Calcite; 9 Calcites; 1 Calcite (Twin crystal); 1 Chabazite and Babingtonite on Calcite; 1 Heulandite; 4 Heulandite and Apophyllite; 1 Heulandite on Calcite; 1 Heulandite, Laumontite and Babingtonite on Quartz; 3 Heulandite and Laumontite on Calcite; 1 Heulandite, Stilbite and Babingtonite on Calcite; 1 Laumontite, Heulandite and Calcite; 1 Pectolite; 10 Prehnites; 6 Quartz; 1 Stilbite on Calcite; 1 Stilbite on Quartz; from West Paterson, New Jersey.

VERTEBRATE PALÆONTOLOGY

BY GIFT

APPLEGATE, W. E., Butte, Montana.

Elephas tooth, *Bison occidentalis* horn, base of skull vertebra and broken humerus, from Idaho.

COLES, RUSSELL J., Morehead City, North Carolina.

Antler of caribou (fossil).

DUBOIS, DR. EUGEN, Haarlem, Holland.

Casts of *Pithecanthropus* remains (top of skull, brain, femur, mandibular fragment, 3 teeth), from Java.

HANCE, S. W., New York City.

Fourth milk-molar belonging to mastodon jaw, found in excavations at Dyckman Street.

MAMMALOGY, DEPARTMENT OF (Transfer)

Skull of caribou (fossil), collected by Mr. A. B. Pritchard at Middle Granville, New York.

MARK, C. W., Company, New York City.

Mastodon jaws and fragments of limb bones, found in excavations at Dyckman Street.

MEAD, H. L., Brewster, Florida.

1 Tooth of mastodon.

OLSEN, ALBERT E., Astoria, New York.

Part of molar tooth of mastodon,
found in yards of Consolidated
Gas Company in Astoria.

ORANGE AND ROCKLAND ELECTRIC
COMPANY, Monroe, New York.
(Through Mr. R. W. Smith.)

1 Block of glaciated limestone.

PERKINS, HAYES, Bandon, Oregon.

1 Fossil tooth of mammoth.

TEILHARD DE CHARDIN, PIERRE,
Paris, France.

1 Cast of horn of fossil antelope.

BY EXCHANGE

BRITISH MUSEUM (NATURAL HIS-
TORY), London, England.

Cast of skeleton of *Archæopteryx* (2
pieces), cast of jaw of *Dryopithe-
cus fontani*.

MILLER, PAUL C., Chicago, Illinois.

8 Specimens of fossil walnut meats
and wood from Hat Creek,
Nebraska.

STEHLIN, PROF. H. G., Basel, Switzer-
and

11 Identified specimens of Tertiary
rodents of France and Switzer-
land.

STERNBERG, G. F., Ottawa, Canada.

1 Skull and jaws of *Hypacrosaurus
altispinus*.

BY PURCHASE

4 Teeth belonging to Dyckman
Street mastodon.

Cast of skull of giant tortoise *Colos-
sochelys*.

Cast of skull (Boskop).

Cast of skull of *Sivatherium*.

BY EXPEDITION

THIRD ASIATIC EXPEDITION.

6 Skulls and 2 jaws of Cretaceous
mammals; collection of Paleoc-
ene mammals, mostly small jaws;
about 40 jaws of Eocene perisso-
dactyls; and several thousand
jaws of small Oligocene mam-

mals. All from Mongolia, collec-
ted by R. C. Andrews Expedition.

WESTERN EXPEDITIONS.

About 100 specimens of fossil bones,
collected by Charles C. Mook and
party in Montana.

Collection of fossil mammals made
by Albert Thomson and party at
Snake Creek, Nebraska.

Collection of fossil mammals ob-
tained by Childs Frick and party
in Santa Fé valley, New Mexico.

LOWER INVERTEBRATES

BY GIFT

ARNOLD, BENJAMIN WALWORTH, Al-
bany, New York.

11 Starfishes showing variation in
color.

BEEBE, DR. WILLIAM, New York
City.

50 Isopods from Kartabo, British
Guiana.

COOK, M. A., Rockville Centre, New
York.

1 *Paragordius varius* with cricket in
which it lived.

COUGHLIN, GEORGE W., New York
City.

150 Shells from Pleasure Beach,
Connecticut.

FLESH, ARNOLD, JR., New York City.

1 Shell and 1 coral.

GORDON, MALCOLM D., New York
City.

2 Myriapods from Palisades, New
Jersey.

HALL, MISS JOSEPHINE B., New York
City.

Many shells, corals and mounted
marine algæ.

HERRICK, HAROLD, New York City.

2 Cameo shells.

JACOT, A. P., New York City.

Collection of many shells from
China.

JULIEN, ESTATE OF ALEXIS A., East
Orange, New Jersey.

- 1 *Busycon canaliculatum* showing egg cases from Cape Cod, Mass.
- KAMMERER, DR. PAUL, Vienna, Austria.
- 17 Fresh-water shells from Florida.
- KIBBLE, MRS. ALICE M., New York City.
- 31 Land and marine shells from New Zealand.
- KING, MISS KATHERINE C., Plainfield, New Jersey.
- About 350 marine shells and other invertebrates from the British West Indies.
- LUCAS, ALFRED M., St. Louis, Missouri.
- 20 Labeled ascidians from Woods Hole, Massachusetts.
- LUNESCHLOSS, MRS. L. J., New York City.
- Shells and other invertebrates.
- MANTLE, J. G. G., Leonia, New Jersey.
- 1 Rare shell from Ku, Japan.
- MEYER, G. G., Forest Hills, New York.
- 4 Ascidians.
- MYERS, FRANK J., Ventnor, New Jersey.
- 47 Slides of mounted and labeled rotifers.
- NICHOLS, JOHN T., New York City.
- 3 Crabs from Jamaica Bay; 3 bottles of ascidians, crustaceans and shells from Maine coast.
- OTT, HARRISON W., New York City.
- 200 Marine and land shells.
- RODENBURG, DR. GEORGE L., New York City.
- 61 Slides of identified and mounted diatoms, desmids and other microscopic preparations.
- SANFORD, DR. L. C., New Haven, Connecticut.
- Many specimens of tapeworms from the stomach of a salmon from Province of Quebec.
- STENGER, MRS. GEORGIA, New York City.
- 5 Polished shells (1 showing pearly growth).
- STEVENS, HENRY H., Lavallette, New Jersey.
- 1 Large lobster claw.
- STUNKARD, DR. H. W., New York City.
- 1 Isopod from Sandy Hook Bay, 1 parasitic flatworm (*Oculotrema hippopotami*) from Cairo, Egypt.
- UHLENHUTH, DR. E., New York City.
- 34 Shrimps.
- VAN NAME, DR. W. G., New York City.
- 1 *Siliqua patula* and 10 barnacles from California.
- VAN VLEET, MRS. A. H., Norman, Oklahoma.
- Set of 4 models of mouth parts and respiratory organs of water mite with pamphlet describing same.
- VERRILL, A. HYATT, Ancon, Canal Zone.
- 29 Labeled crustaceans from Peru and Chile.
- VON FELD, MISS ELENA, New York City.
- 4 Copepods from salmon bought in New York market.
- BY EXCHANGE
- BARRETT, CHARLES, Victoria, Australia.
- 21 Myriapods and 1 scorpion.
- OLDROYD, MRS. IDA S., Palo Alto, California.
- 38 Marine and land shells.
- WARD, MELBOURNE, Sydney, Australia.
- 62 Labeled crustaceans, including 45 species.
- BY PURCHASE
- 98 Identified land shells, 14 species, collected by Alexander Scott in Hawaii.

BY EXPEDITION

BARNUM BROWN EXPEDITION.

Collection of shells, crustaceans, coelenterates and other invertebrates from Greece and South America.

THROUGH DEPARTMENT OF HERPETOLOGY.

1 Crab collected by Mr. Tate in Venezuela. Crustacean and 1 land shell, collected by Mr. W. T. Davis and Dr. J. P. Chapin in North Carolina.

30 Land shells, myriapods and isopods, collected by Dr. F. E. Lutz in the Virgin Islands.

25 Land shells, crustaceans, mollusks and echinoderms; 1 starfish; collected by Dr. R. C. Murphy in Ecuador.

VERNAY ANGOLA EXPEDITION.

Large collection of invertebrates made by Mr. H. Lang and Mr. R. Boulton in Africa.

WHITNEY SOUTH SEA EXPEDITION.

Collection of shells, including large oyster, crustaceans and corals; collected by Mr. R. H. Beck in the Fiji Islands.

ENTOMOLOGY

BY GIFT

ACADEMY OF NATURAL SCIENCES, Philadelphia, Pennsylvania.

158 Specimens of Dermaptera and Orthoptera, including 13 paratypes.

ALLGAUER, MORIZ, Port Chester, New York.

1 Walking-stick.

BALL, DR. E. D., Washington, D. C.

12 Homoptera, including 9 paratypes.

BARGER, DR. G. J. P., Youngstown, Ohio.

1 Walking-stick from Belgian Congo.

BEEBE, WILLIAM, New York City.

579 Lepidoptera from British Guiana.

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

34 Lepidoptera.

BIERI, PAUL J., New York City.

55 Insects, various orders, from Panama.

BIRD, HENRY, Rye, New York.

36 Hymenoptera and 17 beetles.

BLOSSOM, MISS ETHEL G., New York City.

1 Beetle.

BUTLER, ALBERT, New York City.

1 Grasshopper.

CARRION, C., Catedratuco, Ecuador.

Collection of insects from Ecuador.

CARTER, T. DONALD, New York City.

2 Parasites on osprey from Sandy Hook, New Jersey.

CHITTENDEN, F. H., Washington, D. C.

8 Weevils.

CRAIG, MRS. J. N., Kern, California.

1 Hawkmoth.

CRAIGHEAD, FRANK, Mobile, Alabama.

35 Silkworm-moth cocoons bred in Alabama.

DAVIS, PHILLIP, Brooklyn, New York.

1 Mantid.

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

1 *Clidophleps vagans* (Type), 2 *Tibicen semicincta* (Paratypes); from Southern California and Arizona.

DUSTIN, C. W., New York City.

3 Insects from Ceylon, India.

EVANS, MISS RUTH D., New York City.

72 Bees, 3 moths, 1 spider; from Ogunquit, Maine.

FIELD FORCE PUMP COMPANY, Elmira, New York.

7 Photographs of spraying machines.

FROST, C. H., Framingham, Massachusetts.

62 Beetles.

- GARD, ARTHUR, New York City.
1 Butterfly from Switzerland.
- GEHRING, DR. J. G., Bethel, Maine.
4 Coleoptera from California.
- GRUNDY, JOHN, New York City.
4 Beetles from Belgian Congo.
- HEADLEE, DR. T. J., New Brunswick, New Jersey.
About 150 potato beetles in all stages of development.
- HILLIARD, D. G., Trenton, New Jersey.
1 Praying mantis.
- HOFFMAN, DR. W. A., Port au Prince, Haiti.
26 Insects.
- HUNGERFORD, PROF. H. B., Lawrence, Kansas.
8 Specimens of Heteroptera from Lake Michigan.
- HUSSEY, PROF. R. F., New York City.
2 Paratypes of *Rhagovelia chorentes* from Florida.
- JIMNEZ, F. J., Cuba.
1 Weevil.
- JOHNSON, FRANK, Glen Ridge, New Jersey.
62 Lepidoptera, 4 Coleoptera, 2 Orthoptera.
- JONES, F. M., Wilmington, Delaware.
3 Lepidoptera from Virginia, 1 moth (Type) from California.
- LAGAI, DR. G., New York City.
1 Specimen of beetle on lichen from Madagascar.
- MURPHY, MRS. G. E. B., New York City.
4 Beetles from Puerto Varas.
- MURPHY, DR. ROBERT CUSHMAN, New York City.
4 Sphingid moths from Ecuador.
- MUSSMACHER, F., New York City.
1 Mantid from Glendale, Long Island.
- NEU, MISS ANITA, East Orange, New Jersey.
1 *Scaphinotus viduus* from Hemlock Falls, New Jersey.
- NICOLAY, A. S., Upper Montclair, New Jersey.
18 Beetles.
- NOTMAN, HOWARD, Brooklyn, New York.
2 Paratypes of *Philonthus tetragonocephalus* from Cranberry Lake, New York.
- OLSEN, CHRIS E., New York City.
306 Beetles from Salisbury Cove, Maine.
- RAO, GIOVANNI, New York City.
1 Tarantula found in bunch of bananas from Limon, Central America.
- RICH, STEPHEN G., Essex Fells, New Jersey.
43 Odonata from Japan.
- SHOEMAKER, E., Brooklyn, New York.
2 *Haltica betulae* from Oliverea, New York.
- SINCLAIR, MRS. JOSEPH H., New York City.
1 Bird spider from Montagna la Gabrielle, French Guiana.
- SLOSSON, MRS. ANNIE TRUMBULL, New York City.
About 35,000 insects, all orders.
- SPENCER, MRS. L. E., New York City.
2 Ailanthus moths.
- SQUIRE, EBEN H., White Plains, New York.
32 Water beetles.
- STAVER, W. H., Jackson Heights, New York.
4 Specimens of insects and arachnids from Brazil, 43 Lepidoptera from Peru.
- STURTEVANT, DR. A. H., New York City.
1 Diptera.
- SWENK, PROF. MYRON H., Lincoln, Nebraska.
10 Paratypes of *Colletes susannae*, 6 paratypes of *Colletes howardi*, 4 paratypes of *Colletes wilmattae*, 2 paratypes of *Colletes aberrans*.

- 4 paratypes of *Colletes andrewsi*,
1 *Colletes nudus*.
DE TAVARA, COUNTESS, New York
City.
1 *Ailanthus* moth.
TAYLOR, H. L., Newark, New Jersey.
21 Butterflies.
TIMBERLAKE, DR. P. H., Riverside,
California.
41 Named bees.
DE LA TORRE, DR. RICARDO, Havana,
Cuba.
231 insects.
U. S. NATIONAL MUSEUM, Washing-
ton, D. C.
12 Specimens of Diptera, including
4 paratypes ; 5 beetles; 2
Cochliomyia laniaria.
WHITMAN, F. S., Brooklyn, New York.
21 Lepidoptera from State of
Washington.
WOODRUFF, LEWIS B., Litchfield,
Connecticut.
1 Diptera.
- BY EXCHANGE
MANCINI, CESARE, Genova, Italy.
173 Beetles.
SIM, ROBERT J., Riverton, New Jersey.
31 Beetles.
- BY PURCHASE
93 Bees from Africa.
- BY EXPEDITION
40 Insects, collected by Dr. R. C.
Murphy in Ecuador.
WHITNEY SOUTH SEA EXPEDITION.
18 Moths, collected by Mr. R. H.
Beck in Samoa.
- ICHTHYOLOGY
BY GIFT
BREDER, C. M., JR., New York City.
1 Remora, 1 young bonito, 3 *Myo-
cephalus aeneus*, 1 *Salmo irideus*
from Sandy Hook Bay.
CARRINGTON, EDWARD C., New York
City.
- 1 Mounted tarpon from coast of
Florida.
COLES, R. J., Danville, Virginia.
5 Fishes from Cape Lookout, North
Carolina.
DAHLGREN, PROF. ULRIC, Mt. Desert,
Maine.
2 Skates.
DWIGHT, DR. JONATHAN, New York
City.
1 Catfish skeleton from the West
Indies.
EHRENREICH, DR. A., Paris, France.
24 Jaws of sharks and rays, 3 tails
of rays, 65 alcoholic specimens
and jaws of sharks and rays,
from Gulf of Aden.
FAUST, DR. E. C., Peking, China.
1 Fish, *Pseudogobio rivularis*.
FUCHS, EUGENE A., Atlanta, Georgia.
Small fish and spider which caught
it.
GAWTRY, LEWIS B., New York City.
1 Mounted sailfish from the Florida
coast.
GREGORY, DR. W. K., New York City.
About 39 fishes from the market at
Panama City, Panama.
HOFFMAN, DR. W. E., Canton, China.
4 Chinese fishes.
INTERNATIONAL PETROLEUM COM-
PANY, Toronto, Canada.
9 Fishes from Talara, Peru.
JANOVICI, S., New York City.
1 Fossil fish from Elgada, Algeria.
LISBURG, MRS. GEORGE, Easthamp-
ton, New York.
First anal spine of a spadefish from
Cherry Harbor, Gardener's
Island.
MARSHALL, M. C., Bellaire, New
York.
2 Crucifix catfish skulls from the
West Indies.
MARTIN, A. R., Avalon, California.
2 Sucking fishes, *Rhombochirus* and
Remilegia, found on Marlin
swordfish.

DE MARTINO, JOSEPH, New York City.

1 Halibut head for skeleton.

MOWBRAY, L. L., New York City.

1 *Ruwettus pretiosus* from vicinity of Bermuda.

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

Several small fishes from Long Pond, Long Island.

MYERS, G. S., Bloomington, Indiana.

1 *Notropis cummingsi* from Wilmington, North Carolina.

NAGELE BROTHERS, Incorporated, New York City.

1 Rock eel with eggs from Peconic Bay, 1 leather jacket.

NEW YORK AQUARIUM, New York City.

1 Triple-tail.

SMITH, FRANCIS GOW, New York City.

2 Lower jaws of *Hydrolycus* sp. from Brazil.

SMITH, MRS. HERBERT W., Point of Woods, Long Island, New York.

1 Small trunk fish.

STONE, GEORGE, New York City.

1 Catfish skeleton.

THURSTON, H., Floral Park, New York.

5 Small fishes from Freeport, Long Island.

VÁVRA, DR. V., Prague, Czechoslovakia.

Top and back of skull of fossil fish (cast), from Gulf of Persia.

BY EXCHANGE

BRITISH MUSEUM OF NATURAL HISTORY, London, England.

1 *Aphyocypris chinensis* from China.

BY PURCHASE

1 Head of *Ichthyodectes*.

1 Half beak, 1 trumpet fish, 1 ocean trigger fish.

BY EXPEDITION

ARCTURUS EXPEDITION.

4 Wax models and 14 mounted specimens of fishes. Large collec-

tion of shallow-water fishes from Cocos and Galapagos Islands.

MARSH-DARIEN EXPEDITION.

About 4,000 fishes (90 species) from Panama, collected by Mr. C. M. Breder, Jr.

VERNAY ANGOLA EXPEDITION.

10 Bottles of fishes, 4 large fishes, 2 barrels of mixed salt-water fishes, collected by Mr. H. Lang on west coast of Africa.

WHITNEY SOUTH SEA EXPEDITION.

1 Butterfly fish, 4 fishes, collected by Mr. R. H. Beck at Fiji and Samoa.

HERPETOLOGY

By Gift

AMARAL, DR. AFRANIO DO, Butantan, Brazil.

40 Snakes from Brazil.

BARTELS, HENRY, New York City.

1 Anaconda.

BRUESTLE, BERTRAM G., New York City.

3 Frogs from Staten Island, New York.

CAHN, PROF. A. R., Urbana, Illinois.

19 Salamanders, 7 salamander larvæ, and 2 bunches of frog eggs from Arizona, Illinois and Indiana.

CALLEWAERT, REV. R., Luluabourg, Belgian Congo, West Africa.

4 Turtles, 2 crocodile skins, bones of turtle, 5 turtle eggs, from West Africa.

CARTER, T. DONALD, New York City.

1 Living salamander from North Carolina, 1 living black snake from New Jersey.

CARTER, T. DONALD, AND BRUESTLE, B. G., New York City.

4 Tree frogs from New Jersey.

CHAPIN, DR. JAMES P., AND DAVIS, W. T., New York City.

169 Amphibians and 9 reptiles from North Carolina.

- COOK, CAPTAIN, Agate, Nebraska.
 2 Lizards from California.
- CRIMMINS, COL. M. L., Fort Bliss, Texas.
 3 Lizards from Texas.
- DUFF, SCOUT JACK A., New York City.
 1 Newt from Callicoon, New York.
- FAAS, D. H., New York City.
 1 Bullfrog from Central Park.
- FRIEDMAN, HENRY, New York City.
 2 Lizards and 4 frogs from Africa.
- GREGORY, DR. W. K., New York City.
 1 Salamander from Woodstock, New York.
- HASSLER, WILLIAM G., New York City.
 5 Living salamanders from Meadville, Pennsylvania.
- HASTINGS, GEORGE T., New York City.
 3 Pickerel frogs, 4 spring peepers, 5 salamanders, from Yonkers, New York.
- HEILNER, VAN CAMPEN, New York City.
 3 Lizards from the Bahamas.
- HYDE, B. T. B., New York City.
 1 Corn snake from Hammonton, New Jersey.
- KLOTS, ALEXANDER B., New York City.
 7 Salamanders from Elmsford, New York.
- LUTZ, DR. ADOLPHO, Rio de Janeiro, Brazil.
 2 Juvenile crocodilians from Venezuela.
- MARIA, BROTHER NICÉFORO, Bogotá, Colombia.
 1 Reptile and 32 amphibians, from South America.
- MILLER, W. DEW., New York City.
 1 Snake from Stirling, New Jersey.
- MURPHY, DR. ROBERT C., New York City.
 27 reptiles and 3 amphibians from Peru, Ecuador, Argentina.
- NATURALISTS' CLUB OF EVANDER CHILDS HIGH SCHOOL, New York City.
 3 Spotted turtles and 1 green frog from Palisades, New Jersey.
- NEW YORK AQUARIUM, New York City.
 1 Alligator from Florida; 6 turtles from New York, Florida and Africa; 1 salamander from Japan.
- NEW YORK ZOOLOGICAL SOCIETY, New York City.
 37 Turtles, 1 Iberian turtle, 1 hinged tortoise, 1 Cumberland terrapin, 1 crocodile, 1 alligator, 4 living lizards, 44 lizards, 3 Galapagos iguanas, 1 iguana, 2 marine iguanas, 2 gila monsters, 1 monitor, 1 blue-tongued lizard, 1 shingle-backed lizard, 2 spike-tailed lizards, 52 snakes, 1 Indian cobra, 1 Egyptian cobra, 1 king cobra, 1 black cobra, 1 golden cobra, 10 cobras, 3 vipers, 1 horned viper, 1 sand viper, 4 pythons, 2 ball pythons, 1 anaconda, 2 boas, 1 tea boa, 1 fer de lance, 6 tree snakes, 3 spotted snakes, 13 green mambas, 5 rat snakes, 3 boomslangs, 1 golden tree snake, 1 western king snake, 1 silk green tree snake, 4 rattle-snakes, 3 Texas rattlers, 1 striped snake, 1 green tree snake.
- NORDEN, HERMANN, New York City.
 1 Lower jaw of crocodile from Solomon Islands.
- PASSLER, CHARLES, New York City.
 1 Ring-neck racer from New York City.
- SENFF, MRS. GUSTAVIA, Syosset, New York.
 75 Living specimens of tiger salamander.
- SEYDEL, MISS ILSE, New York City.
 1 Salamander from Pine Plains, New York

SHOEMAKER, ERNEST, Brooklyn, New York.

5 Marbled salamanders and 1 red salamander from Maryland.

STEIN, HYMAN, New York City.

3 DeKay's snakes.

VON LUSCHAN, PROF. FELIX (Deceased), Berlin, Germany.

11 Reptile skulls.

WOOSEY, WILLIAM, New York City.

1 Horned toad.

BY EXCHANGE

ARCHEY, GILBERT, Auckland Museum, New Zealand.

15 Geckos from New Zealand. Collected by Mr. Bernard Sladden.

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

7 Salamanders from Pennsylvania and North Carolina.

BRITISH MUSEUM (NATURAL HISTORY), London, England.

40 Reptiles and amphibians.

DAS ZOOLOGISCHE STAATSINSTITUT UND ZOOLOGISCHE MUSEUM, Hamburg, Germany.

27 Amphibians.

HEWITT, JOHN, Albany Museum, Grahamstown, South Africa.

4 Reptiles and 3 amphibians from South Africa.

KUNKEL, G. B., Carlisle, Pennsylvania.

12 Living salamanders from Pennsylvania.

LUTZ, MISS B., Rio de Janeiro, Brazil.

5 Frogs (3 living) from Brazil.

MCGREGOR MUSEUM, Kimberley, South Africa.

46 Amphibians and 78 reptiles from South Africa.

NATURHISTORISCHES MUSEUM, Vienna, Austria.

67 Amphibians.

SENCKENBERG MUSEUM, Frankfurt, Germany.

136 Reptiles and amphibians.

UNIVERSITY MUSEUM OF ZOOLOGY, Cambridge, England.

43 Amphibians.

WOLTERSTORFF, DR. W., Magdeburg, Germany.

4 Frogs from Island of Sardinia, 7 salamanders from Germany and 2 salamanders from Spain.

ZOOLOGISCHES MUSEUM DER UNIVERSITÄT, Berlin, Germany.

164 Amphibians.

BY PURCHASE

5 Axolotls from Colorado.

12 Frogs collected by John King at Samaná, Dominican Republic.

11 Snakes, 18 lizards and 3 frogs; collected by Mr. G. H. H. Tate in Venezuela, South America.

1 Cluster of salamander embryos (5 specimens) from vicinity of New Orleans, Louisiana.

60 *Necturus* and 15 living larval salamanders from Meadville, Pennsylvania.

107 Reptiles and amphibians.

BY EXPEDITION

BARNUM BROWN EXPEDITION.

8 Amphibians and 27 reptiles, from Greece.

DEPARTMENT FIELD WORK.

3 Salamanders, 3 frogs, 1 lot of tadpoles, 1 lot of frog eggs; collected by Dr. G. K. Noble near Syosset, New York. 1 lot of tadpoles, 13 frogs, 1 salamander; collected by Mr. W. G. Hassler in New York City. 38 frogs and 11 salamanders collected by Mr. W. G. Hassler and Mr. Malcolm D. Gordon at Alpine, New Jersey. 967 amphibians and 2 reptiles collected by Dr. G. K. Noble and Mr. W. G. Hassler at Newfoundland, New Jersey, Yaphank, Long Island, and Kanohwake Lake, New York.

FAUNTHORPE-VERNAY EXPEDITION.

1 Python skull from India.

VERNAY ANGOLA EXPEDITION.

854 lizards, 96 snakes, 427 frogs and
2 turtles from Africa.

WHITNEY SOUTH SEA EXPEDITION.

22 Snakes and 269 lizards, collected
by Mr. R. H. Beck.

ORNITHOLOGY

BY GIFT

BARNES, J. SANFORD, New York
City.1 Skin of ground roller from Mada-
gascar.

BARTELS, HENRY, New York City.

2 Scarlet ibis, 4 parrots, 1 thrush, 1
Pionites leucogaster, 1 gray-
headed love bird.BEARD, WILLIAM, JR., Flushing, New
York.

1 Barn owl.

BLAAUW, F. E., Gooilust, Graveland,
Holland.2 Skins of *Chen rossi*.BRANDRETH, COURTENAY, Ossining,
New York.

1 Hooded merganser.

BRANDT, ALBERT F., New York City.

1 American crow.

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

1 Brown thrasher.

BROOKS, MRS. MARY E., New York
City.Flowers made from bird feathers,
from South America.BROWNING, WILLIAM H., Rye, New
York. (Through N. Y. Zoologi-
cal Society.)

10 Small birds.

BURNS, EDWARD J., New York City.

1 White-winged scoter from Sands
Point, Long Island.CARRION, CLODOVEO, Catedralico,
Loja, Ecuador.

5 Bird skins.

CARTER, T. DONALD, New York City.

1 Warbler.

CHAPIN, DR. JAMES P., New York
City.2 Sandpipers from Long Beach, N.
Y.; 1 sparrow from Staten
Island, N. Y.CHRISTMAN, W. W., Delanson, New
York.

1 Robin.

COLES, RUTGERS R., Mamaroneck,
New York.

1 Golden-eye.

DERBY, DR. RICHARD, New York
City.6 Bird skins, Montague Island,
Alaska.

DEXTER, CAPT. G. S., New York City.

10 Specimens of birds in alcohol, 2
birds made into skeletons, 1
cormorant, 1 booby.DRAKE, GEORGE, Middletown, New
York.

1 Short-eared owl.

DWIGHT, DR. J., JR., New York City.

1 Red-tailed hawk.

DYER, MRS. FRANKLIN A., Westfield,
New Jersey.

1 Phoebe's nest.

ELSE, MRS. F., New York City.

7 Mounted birds from Germany.

EUDERS, WILLIAM, Artland, Canada.

1 Pine grosbeak.

EZRA, ALFRED, Foxwarren Park,
England.2 Mounted pink-headed ducks from
India.

FAGAN, CHARLES, New York City.

4 Petrels, 1 cormorant, 1 tropic-
bird, 1 Hornby's petrel.

FAGAN, JAMES, New York City.

2 Specimens of *Larus modestus*.

FRASER, DR. LEWIS, Talara, Peru.

2 Pelicans, 1 turkey buzzard.

GARROW, A. G., East Hampton, New
York.

1 King eider.

GRISCOM, LUDLOW, New York City.

1366 Bird skins from Panama, 1
evening grosbeak, 2 warblers.

GROSSMAN, B., New York City.

- 1 *Hylocichla guttata pallasi*, 1 *Certhia familiaris americana*, 1 *Vireosylva calidris*.

HAMBROCK, F., JR., Toms River, New Jersey.

- 1 Red-shouldered hawk.

HASSLER, W. G., New York City.

- 1 Yellow-billed cuckoo from Worthington, New York.

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

- 1 Gannet, 378 photographic negatives of views taken in Peru and Ecuador.

HELMUTH, JACK, Waterville, New York.

- 1 Duck hawk, 1 short-eared owl.

HENDRICKSON, JOHN H., Jamaica, New York.

- 1 Barn owl from Massapequa, New York.

JOSEPH, ELLIS S., New York City.

- 1 Cape dove, 2 pigeons, 1 cockatoo, 1 tree duck, 1 sand grouse, 15 weaver birds, about 100 birds (weaver birds, parrots) in the flesh.

KAHN, DR. MORTON C., New York City.

- 1 Specimen of *Urochroma batavica* from British Guiana.

KOONS, W. H., Tulsa, Oklahoma.

- 1 Carolina wren, 1 swamp sparrow, 1 white-throated sparrow, 1 purple finch.

LAGAI, DR. G., New York City.

- 1 *Eos riciniata*.

MILLER, W. DEW., New York City.

- 2 *Uria troile californica*.

MURPHY, MRS. GRACE E. BARSTOW, Bronxville, New York.

- 93 Photographic negatives of views taken in Chile, Peru, Ecuador and Panama.

MURPHY, DR. ROBERT CUSHMAN, New York City.

- 1 Sayornis phoebe, 2 parakeets.

NEW YORK AQUARIUM, New York City.

- 1 Galapagos penguin.

NEW YORK ZOOLOGICAL SOCIETY, New York City.

- 1 Hawk parrot, 1 green catbird, 1 cock of the rock, 1 fairy bluebird, 1 barbet, 1 calliste, 1 partridge, 1 oriole, 1 eagle, 1 owl, 1 gallinule, 1 jay, 1 mallee fowl, 1 tyto, 1 *Morphnus guianensis*, 1 *Barnardius zonarius semitorquatus*, 1 flightless cormorant, 2 Galapagos albatross, 1 seriema, 1 Australian kite, 1 white pelican, 1 queen bird of paradise, 1 sarus crane, 3 parrots, 3 parakeets, 2 barn owls, 1 lory, 1 trumpeter, 1 snowy owl, 1 lapwing plover, 1 sheldrake, 1 pigeon, 2 toucans, 1 *Rhea rothschildi*, 1 Wahlbey's eagle, 1 European quail, 1 Harpy eagle, 1 hybrid goose, 1 Pacific gull, 1 bulbul, 1 ground dove, 2 game bantams, 1 *Tersa viridis*.

NICHOLS, J. T., New York City.

- 1 *Fregetta gallaria* from the Southern Pacific.

NOVAK, FRANK, Fairfield, Connecticut.

- 1 Surf scoter.

PELLINEN, WILLIAM, West Quincy, Massachusetts.

- 1 Nest of long-tailed titmouse from Finland.

POOLEY, DR. THOMAS R., Newton, New Jersey.

- 1 Duck hawk.

PORTAL, MAURICE, Holywell, Swanmore, Hants, England.

- 1 Crested tit from Scotland.

REYNOLDS, M. K., Marquette, Michigan.

- 1 *Chen hyperborea*.

ROGERS, C. H., Princeton, New Jersey.

- 1 Flicker.

RUHE, LOUIS, New York City.

- 1 Great-tailed whydah from Africa.

- SETON, ERNEST THOMPSON, Greenwich, Connecticut.
 1 Flicker, 1 mallard duck, 1 downy woodpecker.
- SHARP, ARTHUR, Boston, Massachusetts.
 5 Heath hens.
- SMITH, ABEL, New York City.
 12 Geese from Virginia.
- STEEDMAN, EDWIN H., St. Louis, Missouri.
 1 Skin of Stanley's bustard from Africa.
- THAYER, GERALD H., St. Vincent, British West Indies.
 1 *Cinlocerthia ruficanda tenebrosa*.
- THOMSON, VICTOR, New York City.
 6 Bird skins, 1 cowbird, 1 field sparrow, 1 mourning dove, 1 nuthatch.
- TRAVELL, WILLARD, New York City.
 1 Starling.
- URNER, CHARLES A., Elizabeth, New Jersey.
 2 American white-fronted geese, 10 birds to be skeletonized, 1 *Sterna forsteri*, 1 thrush.
- VAIL, DR. C. E., Miraj. S. M. C., India.
 1 Indian bustard, 1 Indian open-bill, 1 Indian duck, 1 skin with body skeleton of young bustard.
- VALENTINE, RICHARD H., Belle Harbor, New York.
 1 Clapper rail.
- VON LINGERKE, J. H., Orange, New Jersey.
 21 Hawks.
- WAGNER, MISS H. CORINNE, Washingtonville, New York.
 1 Purple finch.
- WASHINGTON, MISS, Brooklyn, New York.
 1 Parrot.
- WATSON, F. E., New York City.
 1 Sanderling, 1 red-backed sand-piper, 1 calidris, 1 gull.
- WILBER, MRS. MAE, Hastings-on-Hudson, New York.
 1 Lory.
- BY EXCHANGE
- ACADEMY OF NATURAL SCIENCES, Philadelphia, Pennsylvania.
 17 Old World bird skins.
- ACKLAND, MYRON, Monticello, New York.
 1 Red-shouldered hawk, 1 loon, 1 grebe, 1 goshawk.
- BROOKLYN INSTITUTE, Brooklyn, New York.
 1 Condor from Peru.
- BURKE, DR. EDGAR, New York City.
 1 *Macrorhamphus griseus scolopaceus* from Long Island.
- MUSEUM OF COMPARATIVE ZOOLOGY, Cambridge, Massachusetts.
 2 *Sterna dougalli*, 2 *Catharus m. smithi*, 1 oyster-catcher.
- ROSENBERG, W. F. H., London, England.
 1 Bird skin from Madagascar.
- UNITED STATES BUREAU OF BIOLOGICAL SURVEY, Washington, D. C.
 1 Oystercatcher.
- UNITED STATES NATIONAL MUSEUM, Washington, D. C.
 1 Bird skin, *Sarcophanops steerii*, from the Philippines.
- BY PURCHASE
- 115 Bird skins collected by Mr. D. S. Bullock in Chile.
 3,268 Bird skins from East Africa. Bird skins and nest of *Philetairus* and accessories collected by Mr. Herbert Friedmann in South Africa.
- 15 Bird skins collected by Mr. Juan Mogenson in Argentina.
 25 Bird skins from Brazil.
- 4 Bird skins from Madagascar, 6 bird skins from Cameroon, Africa
 672 Bird skins collected by Mr. G. H. H. Tate in Venezuela.

BY EXPEDITION

- 2 Burrowing owls, collected by Mr. A. E. Butler in Colorado.
 153 Photographic negatives from Peru, Ecuador and Colombia, collected by Dr. Robert Cushman Murphy; 30 bird skins, collected by Dr. Murphy and Mr. Van Campen Heilner in Peru and Ecuador.
 FAUNTHORPE-VERNAY EXPEDITION.
 2 Pink-headed ducks from North Kheri, India.
 WHITNEY SOUTH SEA EXPEDITION.
 7,260 Bird skins, nests and eggs, collected by Mr. R. H. Beck.

MAMMALOGY

BY GIFT

- ACKLAND, MYRON, Monticello, New York.
 2 Chipmunks, collection of 16 local mammals.
 ALLGOEVER, CHARLES, New York City.
 1 Common mole from Long Island.
 BARTELS, HENRY, New York City.
 1 Giant anteater.
 CARTER, EDWARD D., Montclair, New Jersey.
 1 Red fox skin from Saddleback, Maine.
 DEPARTMENT OF PARKS, New York City.
 2 Fallow deer, 1 female red deer, 1 polar bear, 1 paca, 1 chacma baboon.
 FRANKLIN, DWIGHT, New York City.
 8 Mummified bats and 9 miscellaneous skulls.
 GRISSETT, FINLEY McC., Clemson College, South Carolina.
 1 Manis and 1 bat from West Africa.
 HAMILTON, WILLIAM J., JR., Flushing, New York.
 1 Big-eared bat from Kentucky.
 HARROLD, C. G., Winnipeg, Canada.

- 1 Pallid flying squirrel.
 HOLMAN, JOHN P., New York City.
 1 Grizzly bear.
 JOSEPH, ELLIS S., New York City.
 1 Orang, 1 blesbok, 1 aardvark, 1 black bear cub, 1 genet, 1 ground squirrel, 1 marten, 1 macaque, 1 young leopard, 1 zorilla, 2 young cheetahs, 1 chacma baboon, 1 sun bear, 1 viscacha, 1 gelada baboon, 1 big yellow baboon.
 KLEIN, A. J., Nairobi, British East Africa.
 1 Bongo, skin and skeleton.
 KLOSS, C. BODEN, Singapore, Straits Settlements.
 2 Skins, with skulls, of black-footed langur.
 LEDOUX, MRS. ALBERT REID, New York City.
 1 Piece of carved deer horn.
 NEW YORK ZOOLOGICAL SOCIETY, New York City.
 2 Baboons, 2 squirrels, 1 mink, 1 white-lipped peccary, 1 spotted agouti, 1 Indian porcupine, 2 mongooses, 1 white-tailed deer, 3 genets, 2 vervet monkeys, 2 Canadian porcupines, 2 South American foxes, 1 Beatrix antelope, 1 fox squirrel, 5 hedgehogs, 1 muskox, 2 giant rats, 1 wallaby, 2 tree porcupines, 1 beaver, 1 small gray fox, 1 African porcupine, 1 fennec fox, 1 badger, 2 coaties, 1 ocelot, 3 marmosets, 1 skunk, 1 African monkey, 3 zorillas, 2 antelopes, 1 [cebus monkey, 1 fox, 3 raccoons, 1 Campbell's monkey, 1 red fox, 1 hyrax, 2 gray squirrels, 1 mona monkey, 1 California seal lion, 2 cotton-headed marmosets, 1 viscacha, 3 jerboa, 1 Japanese black bear, 1 armadillo, 1 red howler monkey, 1 drill, 1 Grévy's zebra, 1 mouflon, 1 springbok, 1 paca, 1

black leopard, 2 green monkeys,
1 kinkajou, 1 spot-nosed monkey,
1 vicuna, 1 phalanger, 1 tayra cat.
NOBLE, DR. G. K., New York City.

1 Red bat.

ORCHARD, W. C., New York City.

1 Black rat and 1 roof rat.

SPORTING CLUB OF BLUEFIELDS, Cape
Gracias, Nicaragua. (Through
Mr. José Papos Diaz.)

1 Cetacean skull.

STEWART, MRS. GLENN, Easton,
Maryland.

1 Mounted Irish wolfhound.

STOCKMAN, ALVIN RANDOLPH, Brook-
lyn, New York.

1 Toy Pomeranian puppy, showing
stage in breeding for dwarf dogs.

STRANG, A. C., Glen Cove, New York.

1 White mole.

SWAIN, HAROLD, New York City.

1 Brown bat from Indiana.

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

1 Skin and skeleton of Indian wild
dog, skins and skeletons of 4 tahr,
skins and skeletons of 2 black
monkeys, skins and skeletons of
2 genets and 2 giant squirrels.

VERNAY, ARTHUR S., New York City.
Skins and skulls of 4 tiger cubs from
India.

WAGNER, HENRY, Richmond Hill,
New York.

1 Albino flying squirrel from
Japan.

WHITE, CAPT. HAROLD A., New York
City.

1 Skull of mountain bushbuck from
Abyssinia.

WILLARD, F. C., Farmingdale, New
York.

1 Snow-shoe rabbit.

BY EXCHANGE

ACKLAND, MYRON, Monticello, New
York.

3 Specimens of local mammals.

MARIA, BROTHER NICÉFORO, Bogotá,

Colombia.

1 Deer, skin and skull; 1 deer, skull
only; 1 white rat, skin and skull;
2 *Marmosa*, skins and skulls; 1
bat, alcoholic; 1 *Coendu*, skin
and skull; 1 *Eumops*, all; 2
Eumops, skulls only; 1 *Tayassu*;
1 agouti; 1 *Potos*; 1 *Didelphis*;
2 *Choloepus*, 7 small rodents;
collection of 26 small mammals;
1 deer skin and 2 skulls; 1 *Tayra*
skin and skull; 2 peccary skins
and skulls.

ROBERTS, AUSTIN, Pretoria, Trans-
vaal, South Africa.

6 Golden moles, skins and skulls; 1
golden mole, skull only.

SETON, ERNEST THOMPSON, Green-
wich, Connecticut.

2 Young skunks, 1 white-footed
deer mouse, 1 ring-tailed cat, 1
Virginian opossum.

BY PURCHASE

128 Mammals collected by Mr. A.
W. Anthony in Guatemala.

The Von Luschan collection of
mammal skulls and skeletons.

1 Abyssinian ibex, skin, skull and
horns, collected by Mr. Gilbert
Blaine.

7 Skins of platypus, collected by
Mr. Elliot in Mackay, Queens-
land.

2 South American dog-foxes col-
lected by Mr. D. S. Bullock in
Chile.

2 Monkeys, 2 lemurs, 1 manis, 1
potamogale, 1 golden mole, 30
bats, 1 squirrel, 30 Muridæ;
collected by Rev. R. Callewaert
at Luluabourg, Belgian Congo.

2 Common moles, collected by Mr.
Stanley Guest at Marietta, South
Carolina.

1 *Sciurus niger bryanti* collected by
Mr. Ralph W. Jackson at Cam-
bridge, Maryland.

2 Specimens of serow, collected by Rev. Lacy I. Moffett in Province of Chekiang, China.

1 Tapir, skull; 12 squirrels, skins and skulls; 1 marmoset, skin and skull; 1 porcupine, skin and skull; collected by Olalla y Hijos at Sumaco, Ecuador.

2 Gorilla skins with skeletons collected by Rev. Jacob A. Reis in Cameroon.

46 Alcoholic *Cænolestes*, 13 alcoholic *Blarina* and 2 alcoholic rodents collected in Ecuador.

Collection of 400 mammals made by Mr. G. H. Tate in Venezuela.

BY EXPEDITION

32 Specimens of prairie dogs, collected by Mr. A. E. Butler in Colorado.

7 Osborn caribou, 2 hoary marmots, 1 Rocky Mountain goat, 1 coyote: skins and skulls. 1 grizzly bear, skull only. Collected by Mr. James L. Clark in British Columbia.

1 Whale skeleton, collected by Mr. H. E. Anthony near Southampton, Long Island.

502 Mammals, collected by Mr. George G. Goodwin in England and Ireland.

VERNAY ANGOLA EXPEDITION.

About 1,200 specimens of mammals, including sable and roan antelope, elephant, zebra. Collected by Mr. Herbert Lang.

WHITNEY SOUTH SEA EXPEDITION.

8 Small mammals, 17 large fruit bats, 8 bats, 1 mongoose, 1 rat, Collected by Mr. R. H. Beck.

COMPARATIVE ANATOMY

BY GIFT

ANONYMOUS.

1 Skull of Rocky Mountain goat.

BARTELS, HENRY, New York City.

1 Anteater.

BURRELL, HARRY, C. M. Z. S., Sydney, Australia.

11 Nestling Platypi, 2 *Platypus* eggs and 4 *Platypus* nests from New South Wales, Australia.

BUSH-BROWN, H. K., Washington, D. C.

Part of skeleton of Arabian stallion "Gouniead."

CARR, WILLIAM H., New York City.

1 Javan macaque.

CARTER, T. DONALD, New York City.

1 Adult female Virginia opossum.

DEPARTMENT OF PARKS, New York City.

1 Orang outhan from Borneo.

JOSEPH, ELLIS S., New York City.

1 Duiker from East Africa, 1 leopard from Africa, 1 *Lemur variegatus* from Madagascar, 1 *Felis* sp. from Africa, heart of polar bear, 2 *Hamadryas* baboons.

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

Skull and mandible of *Hylobates*.

NEW YORK ZOOLOGICAL SOCIETY, New York City.

1 Female gibbon from the East Indies, 1 gibbon, 1 spider monkey, 1 phalanger, 1 marmoset, 2 green monkeys, 1 red-headed mangabey, 1 adult rock wallaby, 1 red fox, 1 Tasmanian phalanger, 1 *Galago gallarum*, 1 cotton-head marmoset, 1 West African monkey, 1 small flying phalanger, 1 white-faced sapajou monkey, 1 *Lemur variegatus*, 1 immature Virginia opossum, 1 Canada porcupine, 2 Egyptian jerboas, 3 red howler monkeys, 1 South American monkey, 1 *Alouatta seniculus*, 1 *Procyon lotor*, 1 *Lemur mungos*, 1 *coati mundi*, 1 macaque, 2 opossums, 1 flying phalanger, 1 hedgehog, 1 mandrill.

NOBIS, JOHN, Yonkers, New York.

- 1 Squirrel monkey from South America.

PREPARATION, DEPARTMENT OF
(Transfer).

- Gorilla, femur and cast of hand and foot; kangaroo, skeleton of forearm and hand, and hind foot.

SWENSON, MRS. S. A., New York City
Vertebra rib, teeth (5), coprolite.

TATE, G. H. H., New York City.

- 8 Pouch young of South American opossum.

BY PURCHASE

- 1 Mounted skeleton of Virginia opossum.

BY EXPEDITION

ARCTURUS EXPEDITION.

- 36 Miscellaneous specimens.

ANTHROPOLOGY

BY GIFT

ABBOTT, RICHARD M., Bristol, Pennsylvania.

- 1 Gouge and 2 stone implements from Pennsylvania.

BARBER, THOMAS H., New York City.

- 1 Carved bone said to be "magic stick" from Sumatra.

BELLINGER, H. C., New York City.

- 1 Woven bag, 2 shells, 1 miniature pot, 1 bone tube, 1 roll of fiber, 13 wooden objects, fragmentary top of bag, fragmentary bag and contents, from graveyard at Chiu-Chiu, Chuquicamata, Chile.

BEST, JAMES, New York City.

- 2 Fruit pods and bottle covered with seeds from Deligoa Bay, Beric, and St. Vincent, Africa.

BOAS, PROF. FRANZ, New York City.

- 13 Stone arrow points collected by Mr. James Mutch from the Ponds Bay Eskimos.

BROKING, GILBERT EGERT, Paris, France.

- 2 Bows, 3 arrows, 1 spear, 2 blow-guns, from the Arawak Indians of Kartabo, Mazaruni River, British Guiana.

BROOM, DR. ROBERT, Douglas, South Africa.

- 1 Bushman stone engraving.

BROWNING, MRS. J. E., New York City.

- 1 Basket from Sitka, Alaska.

BULKLEY, DR. LUCIUS C., Trang, Siam.

- Fire piston of buffalo horn with punk in gourd container.

CANN, S. F., New York City.

- 1 Fetish, 1 hat, 1 pair of shoes, from Ashanti, Africa.

CASTLE, CHARLES C., New York City.

- 1 Maori bust.

CHAPMAN, REV. JOHN W., D.D., Anvik, Alaska.

- 8 Dictaphone records.

CHRISTMAN, CHARLES, New York City.

- 1 Stone grooved for hafting from New Mexico. Part of human skeleton, miscellaneous animal bones, 3 bone implements from shellmound, Mill Valley, California.

CLINE, FRED, Arcanum, Ohio.

- 1 Piece of chipped flint from Arcanum, Ohio.

CRIMMINS, COL. M. L., Fort Bliss, Texas.

- 1 Pottery vessel from northern Mexico.

DONOHUGH, MRS. AGNES L., New York City.

- Bamboo snuff tubes, cotton fiber, musical instrument, wooden dish, fiber cloth, bundle carrier, grass apron, animal figure, from Africa.

DRISLER, MRS. MARY, New York City.

- 2 Wooden spoons from Lapland.

FALK, ESTATE OF B. J., New York City.

- 1 Pottery vessel, probably Mediterranean.
- FERGUSON, H. L., New York City.
Fragments of broken skull and leg or arm exhumed during excavation operations at Fisher's Island, New York.
- FLINT, CHARLES R., New York City.
1 Shrunken human head from the Upper Amazon.
- FOWLER, J. F., New York City.
Miscellaneous collection from Bolivia, Chile and Peru.
- GOODMAN, MR. MAURICE, New York City.
Collection of 66 specimens from the Philippine Islands.
- GOULD, CHARLES W., New York City.
4 Large pottery vessels, 20 medium pottery vessels, box of spindles, 5 weave-swords, from Peru.
- GREEN, MRS. FRANK BELL, New York City.
1 Japanese bow without strings.
- GUTH, ALBERT, Perth Amboy, New Jersey.
1 Sword with scabbard from the Philippine Islands.
- HATHAWAY, H. A., Toms River, New Jersey.
1 Stone ax from farm at Holyoke, Massachusetts.
- HATT, ROBERT T., New York City.
6 Chipped implements from Arizona.
- HAY, CLARENCE L., New York City.
27 Heads of pottery figurines of archaic type from Valley of Mexico. Gold ornament from Colombia, South America.
- HECKSCHER, AUGUST, Huntington, Long Island, New York.
Large archaeological collection from Long Island.
- HENRY, FRANK, New York City.
1 Navajo silver spoon.
- HIRSH, WILLIAM, Brooklyn, New York.
2 Steatite pipes from mouth of Gerrettsen's Creek, Flatbush, Long Island.
- HIRSH, WILLIAM, AND BULLIS, HOWARD, Brooklyn, New York.
Archaeological specimens collected near Gerrettsen's Creek, Flatbush, Long Island, and metal buttons from a Colonial site in the same vicinity.
- JOHNSON, JOHN E., South Norwalk, Connecticut.
Pottery jar from Panama.
- KAHN, DR. MORTON C., Ithaca, New York.
1 Beaded apron, 1 mat, 1 cooking implement, from the Arawak Indians, British Guiana.
- KELLER, JOHN, New York City.
Stone ax found on surface in backyard of donor.
- KLINGE, MRS. LOUISE, New York City.
1 German helmet captured during the war.
- LANG, HERBERT, New York City.
Feather headdress from British Guiana.
- LEE, MRS. W. D., New York City.
Betel chewing set of seven pieces, 2 bamboo jars, 1 fan of matted grass, carved horn and spoon, from Java.
- LIDDLE, C. LESTER, Guayaquil, Ecuador.
Collection of eighty specimens from Shuara Indians of eastern Ecuador.
- MELVILLE, W. P., Jamaica, Long Island, New York.
1 Piece of barkcloth, 1 skin carrying-bag, 1 bundle of porcupine quills, from Angola, Africa.
- MINERALOGY, DEPARTMENT OF (Transfer).
Ceremonial (banner) stone from North America.

- MOORE, BENJAMIN, East Norwich, Long Island, New York.
Tibetan apron and necklace of carved bone.
- MURPHY, MRS. ROBERT C., Bronxville, New York.
1 Pottery vessel from Valley of Lima, Peru.
- MUSEO NACIONAL DE HISTORIA NATURAL, Buenos Aires, Argentina.
1 Plaster cast of archaeological stone.
- PARSONS, DR. ELSIE CLEWS, Harrison, New York.
7 Specimens of prayer sticks, prayer feathers, potsherd and cornhusk cigarette from arroyo north of San Juan, New Mexico.
- PEIKOTTO, MRS. ERNEST, New York City.
1 Woven bag from Cusco, Peru.
- PIERCE, MRS. J. F., New York City.
1 Basket of palm leaves from Margarita Island, Venezuela.
- PRESBRY, FRANK, New York City.
4 Photographs of Indian Chiefs (Ponca, Dakota, Kaw, Ute).
- PUGH, MISS G. F., Ozone Park, New York.
Pair of slippers from Africa.
- QUIMBY, ISAAC N., Jersey City, New Jersey.
Fragments of skull, other bones and teeth from a mound east of Lake Wilmington, Florida.
- QUINN, W. DAVIS, New York City.
Man's garment from the Seminole Indians.
- RAUHAMAKI, VICTOR, New York City.
1 Wallet and 1 pair of shoes, woven of birchbark, from Finland.
- REITZIN, D., New York City.
Barkcloth collected at Fiji Islands.
- SAVAGE, M. F., New York City.
Hat, example of French Indo-Chinese weaving, from Siam.
Woven basket and cover from Yaqui, Mexico. 1 woven scarf with animal figures from Bolivia.
- SHALLCROSS, C. F., New York City.
Collection of about 40 ethnological specimens from the Pacific Islands.
- STEINMETZ, MRS. GEORGE N., New York City.
11 Baskets, 1 doll in cradle, 1 mounted deer head, 6 framed photographs of Apache Indians, from Southwestern United States.
- STRAUS, MRS. ADOLPH D., New York City.
Archaeological specimens from Nicaragua and 1 ethnological specimen from Africa.
- TAYLOR, MISS BETTY, New York City.
2 Life-sized heads carved from Kauri gum by the natives of New Zealand.
- TIBBITTS, FREDERIC R., New York City.
1 Voodoo drum from Port au Prince, Haiti.
- TILL, G., New York City.
Boar's tusks, water bottle, barkcloth, wire bracelets, infants' loin girdles, from East Africa.
- TURNER, SYD K., & SON, Kent, England.
1 Tooth in three pieces stuck together, 15 stone tools, 18 neolithic stone tools and 2 eoliths, from Luton Valley, Kent, England.
- WHITMAN, FRED S., Brooklyn, New York.
Benares plaque from East Indian Exhibit, World's Fair, Chicago, and piece of cloth bought in East India Shop at University Place.
- WILDE, FRANK LUQUEER, New York City.
4 Specimens of Indian gold collected from mounds in Colombia, South America.

WILLIAMS, CAPT. GRANT, New York City.

- 1 Brass arrow point from shell-heap on City Island and 2 pottery fragments from Pelham Bay Park, New York.

WILLIAMS, MRS. L. A., New York City.

- 2 Tlingit baskets from Alaska.

BY EXCHANGE

NATIONAL MUSEUM, Melbourne, Australia.

- 11 Plaster busts of Australian aborigines.

VICTORIA MUSEUM, Ottawa, Ontario, Canada.

- 1 Tsimshian fish-trap from Upper Skeena District, Canada.

BY PURCHASE

- 1 Model of a house from Sumatra.
- 5 Bushmen skeletons, including skulls.

Small figure of a Sioux Indian.

Collection of 6,600 neolithic specimens from Denmark.

- 1 Piece of batik from Java.
 - 2 Fish-hooks (1 with float) from the South Sea Islands.
 - 3 Burial bundles of skeletons, probably 1 body in each; 1 burial bundle containing skeleton of a child; collection of miscellaneous bones; 6 skulls and miscellaneous bones. Collected in Montana.
 - 1 Piece of heraldic Samoan tapa cloth.
- Comprehensive series of 173 archaeological specimens from Hungary.
- 1 Piece of batik, fabric (tie-dyed), 2 big gongs, 1 musical instrument.

BY EXPEDITION

Stalagmite, collected by Dr. Vernon C. Allison in Jacob's Cavern.

- 91 Palaeolithic implements from Victoria Falls, South Africa.

Archaeological collection of approximately 841 specimens made by Dr. A. V. Kidder and Mr. Earl H. Morris at Canyon del Muerto, Arizona.

Archaeological collection made by Mr. Erich Schmidt in Arizona.

WHITNEY SOUTH SEA EXPEDITION

- 6 Skulls, 8 lower jaws, 4 long bones, collected by Mr. R. H. Beck.

PUBLIC EDUCATION

BY GIFT

AKELEY, CARL, New York City.

- 8 Reels of motion picture positive, "The True North."

ANONYMOUS.

- 1 Pigeon in the flesh.

ANONYMOUS. (Through Yale University Press).

- 47 Reels of motion pictures, "Chronicles of America."

ANONYMOUS. (Through Yale University Press.)

- 47 Reels of motion pictures, "Chronicles of America."

ATCHISON, TOPEKA AND SANTA FÉ RAILWAY, Chicago, Illinois.

(Through Mr. W. H. Simpson.)

- 6 Colored lantern slides.

BOYLE, MISS KATHERINE, New York City.

- 1 Pigeon in the flesh.

BUTLER, ALBERT E., New York City.

- 9 Negatives of Colorado.

CANADIAN PACIFIC RAILWAY COMPANY, New York City. (Through Mr. Earl H. Eaton.)

- 17 Colored lantern slides.

CANTER, MAX M., New York City.

- 1 Immature bald eagle.

CARMAN, DR. ALBRO R., New York City.

Cannon-ball and shell from Fort Ticonderoga, minerals, petrified wood from Yellowstone Park, piece of onyx.

- CARNEY, JOHN, AND GREENFEST, GEORGE, New York City.
1 Junco in the flesh.
- CHICAGO, BURLINGTON AND QUINCY RAILROAD, Chicago, Illinois. (Through Mr. P. S. Eustis.)
28 Colored lantern slides of Colorado.
- COMMISSIONER FOR AUSTRALIA, New York City. (Through Mr. D. A. Casey.)
324 Plain slides on Australia.
- CROCKER, MRS. F. W., Greenwich, Connecticut.
Shells, 2 pieces of coral, piece of petrified wood.
- DAWSON, ALBERT K., New York City.
47 Negatives of Canadian subjects, 6 negatives of South American Indians.
- DYER, MRS. FRANKLIN A., Westfield, New Jersey.
1 Moss-covered nest of phoebe.
- EASTERN DISTRICT HIGH SCHOOL, Brooklyn, New York.
1 Flicker in the flesh.
- EXPLORERS CLUB, New York City.
27 Books on travel, art, history and fiction.
- FLEISCHER, MAX, AND URBAN-KINETO FILMS CORP., New York City.
50 Feet of negative and 50 feet of positive of *Pithecanthropus*.
- FOOT, MRS. S. D., New York City.
1 Sugar pine cone in case.
- GENERAL ELECTRIC COMPANY, Schenectady, New York. (Through Mr. John Klenke.)
23 Plain lantern slides on "Light and Vision"; 2 sets of lantern slides, 45 slides each, on "Home Lighting," with manuscript.
- GEOLOGY, DEPARTMENT OF (Transfer).
4 Trays of small meteorite specimens.
- GOULD, MRS. GEORGE M., Atlantic City, New Jersey.
1 Enlargement of photograph of the Matterhorn, framed.
- HAMBROCK, H. J., Toms River, New Jersey.
1 Cooper's hawk in the flesh.
- HOPKINS, MRS. MARGARET M., East Haddam, Connecticut.
1 Red-shouldered hawk in the flesh.
- HOROWITZ FOUNDATION, LOUIS J. AND MARY E., New York City. (Through Yale University Press.)
47 Reels of motion pictures, "Chronicles of America."
- JOSEPH, MISS L., New York City.
Collection of shells.
- KANN, N., New York City.
1 Chipping sparrow's nest from Sheffield, Mass.
- MACMILLAN COMPANY, New York City. (Through Miss Louise Seaman.)
2 Illustrated books, "Pinocchio" and "Alice in Wonderland."
- MAMMALOGY, DEPARTMENT OF (Transfer).
1 Raccoon in the flesh, 5 red squirrels, 2 chipmunks, 3 white-footed mice, 1 short-tailed shrew, 1 mouse, 1 junco, 1 warbler, 1 fox sparrow.
- NEW YORK TELEPHONE COMPANY, New York City. (Through Dr. H. J. Carroll.)
30 Plain slides and manuscript.
- ORNITHOLOGY, DEPARTMENT OF (Transfer).
11 Mounted birds, 1 mounted Gouldian finch, 1 mounted pen-tailed waxbill, 1 mounted white-winged scoter, 1 nest of Savannah sparrow and 1 egg, 1 mounted Wilson's snipe, 1 mounted killdeer.
- PATHÉ EXCHANGE, INCORPORATED, New York City.
6 Reels of motion pictures, "Nanook of the North."

PRATT, GEORGE D., Brooklyn, New York.

- 1 Reel of motion picture, "Forest Axiom"; 3 reels of negative and 3 reels of positive of motion pictures of Indians of the Southwest, taken by Dr. P. E. Goddard; 500 feet of technicolor undersea motion pictures.

PRATT, RICHARD, Brooklyn, New York.

- 1 Small turtle in the flesh.

PRUDENTIAL LIFE INSURANCE COMPANY, Newark, New Jersey. (Through Mr. Arthur Fisk.)

- 64 Colored lantern slides.

RUBEN, SEYMOUR, New York City.

- 1 Green honey creeper.

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

- 94 Colored lantern slides.

SPENCER LENS COMPANY, Buffalo, New York. (Through Miss Edith Severance.)

- 3 Small rolls of film, "Hygiene II, Micro-Organisms and Disease," and "Relation of Insects to Disease."

STEWART, JAMES, AND COMPANY, INCORPORATED, New York City.

- 38 Glass negatives of new East Wing of Museum.

STONE, GEORGE E., Carmel, California.

- 1 Autochrome of John Burroughs.

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

- 1 Negative of view of Museum across Central Park.

TENNESSEE ELECTRIC POWER COMPANY, Chattanooga, Tennessee. (Through Mr. J. C. Costello.)

- 26 Colored slides, 26 negatives, 26 glossy prints.

THOMAS JEFFERSON HIGH SCHOOL, Brooklyn, New York. (Through

Miss M. E. Barclay.)

- 1 Maryland yellowthroat in the flesh.

THOMSON, VICTOR, New York City.

- 2 Field sparrows, 1 white-throated sparrow, 2 robins, 1 chickadee, 1 hermit thrush, 3 juncos, 1 hairy woodpecker, 2 downy woodpeckers, 1 white-breasted nuthatch.

WALKER, LEWIS, Douglaston, New York.

- 1 Kit fox in the flesh.

WOLFERZ, MISS MADELEINE, New York City.

- 2 Horse-shoe crabs.

BY PURCHASE

- 1 Reel of motion picture positive, "Life of the Silkworm."

- 5 Reels of motion pictures, "Snowy Egret," "Floods of Fortune," "The Panama Canal," "Coffee Cultivation."

- 3,734 Feet of motion picture positive, "Sir Douglas Mawson's Antarctic Expedition."

- 3,015 Feet of motion picture positive on Australia.

BY EXPEDITION

- 10 Reels of negative and 10 reels of positive of motion pictures of Lapland and Sweden, collected by Dr. G. Clyde Fisher and Mr. Carveth Wells.

- 9 Reels of negative and 9 reels of positive of motion pictures of France, collected by Gladys and Philip Pratt.

- 2,100 Feet of motion picture developed negative taken in Cassiar by Mr. James L. Clark.

- 800 Feet of motion picture positive and 400 feet of negative of "Life History of Duck Hawk," collected by Dr. Robert Cushman Murphy.

**ADMINISTRATION
WOODS AND FORESTRY****BY GIFT**

DYER, MRS. F. A., Westfield, New Jersey.

- 1 Branch of manzanita renewing itself by mahogany wood following the root and continuing to end of branch.

BY PURCHASE

Life History of Gypsy Moth.

ART**BY GIFT**

AUDUBON, MISSES FLORENCE AND MARIA, Salem, New York.

Collection of Auduboniana consisting of 126 specimens of plates, paintings and antiques.

COOK, MRS. DAVID C., Elgin, Illinois.

- 2 Portraits: John Burroughs and Edwin Markham.

SPECIAL ACCESSIONS**BY GIFT**

RICHARD, DR. J., Monaco, France.

- 1 Sounding machine and 1 large deep sea fish trap.

PREPARATION**BY GIFT**

NEW YORK ZOOLOGICAL SOCIETY.

- 2 Axis deer.



III. ADMINISTRATION, OPERATION AND BUILDING

GEORGE H. SHERWOOD, Acting Director

The greater the success of Museum expeditions and the wider the institution's contact with the public, the greater is the demand made upon the operating departments. The growth and development during 1925 form no exception to this rule, and our six operating divisions have been overtaxed to meet the conditions presented by additions to our collections, the intensive preparation for the new exhibition halls, and the unprecedented amount of new construction and equipment that has been required. These departments include the general and administration routine through the Director's and Secretary's offices; the financial administration through the Bursar's office; the keeping of the accession records and the numerous details with respect to transportation and shipment, under the direction of the Registrar; the care of the building through the Superintendent's office; the physical maintenance of the building itself, through the Department of Construction and Repairs; and the heating and lighting of the building and the installation of electrical work through the Department of Heating and Lighting. The appointment, in the fall, of Mr. Wayne M. Faunce as Assistant Secretary has been a great relief to the Acting Director. Mr. Faunce has taken full supervision of membership and of the correspondence files, and at the same time is taking care of many administrative details. The officers of the several divisions and their assistants have devoted themselves with energy and faithfulness to the carrying out of the multitudinous duties imposed by the Museum's activities.

The time of the Honorary Director, Dr. F. A. Lucas, has been largely divided between preparation—for occupancy of new halls—and progress in those already established, made possible by the relief of the congestion that has prevailed during past years. In addition, he has relieved the Acting Director of some correspondence and devoted considerable time to furnishing the ever-growing number of visitors from other museums with information in regard to matters of construction, installation and administration. The Honorary Director has submitted the following report of the work that he has had under his immediate direction:

"The attendance has again passed the million mark, in spite of the disturbance caused by transferring exhibits to the new wing and the necessary closing for a time of some halls for this purpose. As shown by the records, the attendance has been as follows:

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

| | 1921 | 1922 | 1923 | 1924 | 1925 |
|--|-----------|-----------|-----------|-----------|-----------|
| Board of Education Lectures. . . . | 27,362 | 16,711 | 18,917 | 26,484 | 26,968 |
| Lectures to School Children and classes visiting the Museum for Study. | 51,133 | 118,651 | 134,669 | 139,433 | 133,386 |
| Meetings of Scientific Societies and Other Meetings and Lectures. | 34,206 | 17,610 | 31,734 | 22,637 | 37,389 |
| Total. | 112,701 | 152,972 | 185,320 | 188,554 | 197,743 |
| Attendance in Exhibition Halls. | 1,061,696 | 1,156,884 | 1,246,402 | 1,445,289 | 1,578,147 |
| Total attendance for all Pur- poses. | 1,174,397 | 1,309,856 | 1,431,722 | 1,633,843 | 1,775,890 |
| Lectures to Pupils in Local Centers. . | 30,750 | 58,647 | 22,598 | 24,792 | 27,055 |
| Number reached by Motion Picture Service. | | | 85,302 | 115,849 | 333,097 |
| Number reached by Lantern Slide Service. | | 2,582,585 | 3,839,283 | 5,407,525 | 3,941,494 |
| Numbers reached by Circulating Collections. | 1,247,515 | 1,648,608 | 1,491,021 | 1,247,914 | 977,384 |
| Grand Total. | 2,452,662 | 5,599,696 | 6,869,926 | 8,429,923 | 7,054,920 |

"The work of enlarging the printing office has interfered somewhat with its output, and the printing of important scientific papers, and *Natural History*, has prevented the issue of several 'Popular Publications.' Nevertheless, the following have been published during the year: 'First Chapter in Natural History,' 'Geology of New York City and Vicinity,' 'Hall of the Age of Man,' 'Peruvian Art,' 'Deep Sea Fishes,' 'Capture and Preservation of Small Mammals for Study.' In all, about 21,000 copies of these were printed.

"The close of the year finds the following nearly ready for issue: handbooks: 'The Story of the Minerals,' 'Guide to the Present Exhibition Halls,' 'An Hour in the Museum,' 'The Story of Museum Groups,' 'Mastodons and Mammoths of North America.'

"It is a matter of gratification that the publications in demand are those giving the most information, and not those containing the most illustrations. As an instance of this, the sale of the 'The Big Tree and Its Story' has doubled since the inclusion of the labels by Professor Ellsworth Huntington showing the relation of climate to history and the record of climate by rings of yearly growth.

“‘The Hall of the Age of Man,’ ‘The Big Tree and Its Story,’ ‘The Geology of New York City and Vicinity,’ ‘The Evolution of the Horse,’ ‘Habitat Groups of North American Birds,’ and ‘The Collection of Minerals’ are leaflets most frequently called for. Sales through the Library again show that the *Handbooks* are frequently used as text-books, or for reference. The *Handbooks* most in demand are ‘Animals of the Past,’ ‘Indians of the Plains,’ ‘Indians of the Southwest,’ and ‘Ancient Civilizations of Mexico and Central America.’”

The total sales of ‘Popular Publications’ during the past year were 13,934 copies; 2,046 *Handbooks* were sold in the Museum, and 1,078 by the Library; 8,610 *Guide Leaflets* were sold to visitors, and 1,008 by the Library; while 1,151 reprints were sold in the Museum and 39 by mail.

“Extensive alterations in the Hall of Primates, including the flooring over of the well, the erection of a closed corridor for groups, and the rewiring of the hall, have precluded any improvements in that section of the Museum; and the lack of material has prevented any additions to the Hall of Mammals, though minor improvements have been made in the exhibits and their labels. The ‘Guide to the Hall of Mammals,’ intended for use in connection with the exhibits, has been sold out, and a new edition is in the hands of the printer. The improvements in the Hall of Primates will not only give more room and provide for the better display of specimens, but will furnish accommodations for the fine series of photographs of mammals, numbering about a thousand, shown some years ago in the Hall of Trees of North America. Owing to the alterations in the hall, there will be no conflict between the exhibits.

“The Hall of Ocean Life is beginning to assume form; the Finback and Right Whale skeletons have been transferred to their new quarters, and the mounting of the skeletons of Gray and Sperm Whales is well advanced. All animals for the Sea Lion Group have been mounted, and under the skilled brush of Mr. Corwin, the background is nearing completion and shows how imposing the group will appear, while the rocks of the Sea Elephant and Fur Seal Groups have assumed shape.

“It has seemed well to continue to devote special attention to the Hall of Trees of North America, which has had no official head

for many years, and to press the replacement of the labels begun fifteen years ago and for a long time at a standstill. The close of the year finds the relabeling of the collection nearly completed, and twenty large descriptive labels added, besides a number of additions to and improvements in the exhibits. Mr. Narahara has continued the addition of sprays of flowers and foliage, which add so much to the appearance of this hall, attract the attention of visitors, and prove of great aid in the identification of trees. A special report has been made on this hall."

The general subdivisions of the work of the Registrar's office are: The recording and cataloging of invoices, exportations and im-
 portations of shipments, pension, health and welfare
 Work of the Registrar's Office of employees, and the distribution of information
 relative to Museum events through the public press.
 The activities of the year are given in the following
 extracts from the Registrar's report:

"Under the title 'Accessions,' a general survey is given of Mu-
 seum activities. These records indicate the public's ever-supporting
 Accessions interest, and to a large extent the occupation of the
 departmental staff in classifying, naming and caring
 for the specimens received. During the past year, our Members
 and friends have manifested a heightened interest in the Museum's
 expansion, as may be noted by the receipt of rare and unusual
 specimens. During 1925, there were received 953 accessions in the
 following forms: By gift, 725; by exchange, 51; by expedition, 58;
 by purchase, 104; by transfer, 15. So large a number of individual
 specimens has been received in many of the collections that it is
 impossible at this time to report their actual count. A general
 list, however, is made a part of the reports rendered by the several
 departments.

"The shipments division of the department is the 'feeder' of
 the entire Museum. Through the shipping office there passes a
 Shipments volume of goods which would favorably compare with
 that handled by the transportation companies in the
 average-sized village. It is a bee-hive of activity. Notwithstand-
 ing its various and in many ways vexatious complications, the
 work proceeds with speed and accuracy. During the year just
 passed, 12,501 boxes and packages, contained in 3,566 shipments,
 were handled in this division. In the packing room, 312 shipments,

consisting of 433 boxes and packages, were packed and forwarded. For these shipments, it was necessary to make most of the boxes. To the above must be added the handling of fifty-five bonded consignments, comprising 185 boxes, which had to be unpacked and delivered to the proper departments. Furthermore, the auto truck in our charge covered 3,289 miles on 496 separate trips, collecting and delivering material. Considered as an entirety, the work of the three men engaged in this division forms an enviable record."

The Registrar's report on Publicity will be found on page 84.

BUILDING PROGRESS IN 1925

The biggest item of new construction in 1925 is the School Service Building. This structure, being erected by the City of New York at a cost, including equipment, of nearly a million dollars, is practically completed. The installing of the equipment, provided for by an appropriation of \$150,000 made by the Board of Estimate and apportionment, will begin early in 1926, and it is hoped that the opening of the City's schools in the autumn will find our school service activities adequately housed in this magnificent building.

During the summer of 1925, the two new dynamos, for the purchase of which the City of New York appropriated \$53,000, were installed in the Museum Engine Room. These units are valuable adjuncts to our lighting plant. The larger of the two, a horizontal 500 K.W. engine-generator outfit, has a capacity sufficient to carry the Museum's entire lighting and power load. By means of the smaller generator, a vertical 35 K.W. unit, nominal elevator and light service can be economically maintained at night when the exhibition halls are closed to the public.

The erection of the School Service Building necessitated the relocation of the smoke-stack of the Museum Power Plant. It was decided to erect a new stack, since the expense of this undertaking would be little greater than the cost of taking down, moving, and re-erecting the old stack, which had been in service for some twenty years and had therefore considerably deteriorated. On July 31, the Board of Estimate and Apportionment appropriated \$14,000 for this work.

The structural work and lighting installation in connection with the doming over of the North Bird Hall, second floor, were completed in September, making possible the opening to the public in November of what has proved to be one of the most striking exhibits in the Museum, the Flying Bird Group. On the third floor of the central section, subsequent to the flooring over of an open well, the wall construction and fireproofing, preliminary to the future installation of six Primate Habitat Groups in a closed corridor, have been practically finished.

The poor acoustic properties of the Museum Auditorium have long been a source of annoyance. A voice-amplifying system installed in the fall of 1925 makes it possible for a speaker to be heard distinctly every part of the hall.

In the Hall of Ocean Life and the Southeast Wing, recent additions to the Museum plant, marked progress has been made in the preparation and installation of exhibits and in the erection of cases to house them. The lighting fixtures for these two buildings, of special design to harmonize with the interior finish and arrangement of the various halls, were not included in the building construction contract. They are now being installed under a separate contract.

The structural problems in connection with the Coral Reef Group in the Hall of Ocean Life, while most perplexing, especially as regards the huge horizontal sheet of plate glass representing the water surface, are being satisfactorily met. Four of the habitat group cases under the balcony in this hall lack only the metal and glass fronts to bring them to completion. Mechanical arrangements for the hanging of the whale skeletons have been placed.

In the basement and sixth floors of the Southeast Wing the spacious storage rooms have been efficiently utilized by the installation of fireproof metal cases purchased under contract. The laboratories and offices on the fifth floor have been adequately outfitted, involving the construction of shelving, benches, cases, etc., in addition to the purchase of furniture and other equipment.

The contract has been awarded for the finishing of the walls and ceiling of the Fish Hall, the first floor of this wing. Construction is in progress on wall cases for this hall, supplementing existing

cases, to house the systematic collection of fishes. The second floor, the future Asiatic Hall, is now temporarily occupied by the Department of Preparation. Several of the cases for groups to be located in this hall have been completed. In the cloister of the Reptile Hall on the fourth floor, the fireproof front structure to receive the twelve large habitat groups has been erected. Casing for other exhibits for this hall has been accomplished. The great Dinosaur Hall, occupying the fourth floor, required certain changes in the original design and construction, including the blocking-up of four windows, to afford proper arrangement of exhibits. This work has been completed.

In addition to the fabrication, erection, and lighting of cases in the above-mentioned and other halls of the Museum, our construction, mechanical and electrical forces have handled an ever-increasing volume of general maintenance and alteration work. This includes the improvement of the approaches to the restaurant, the salvaging of valuable space in the central attic by fireproofing and installing of metal shelving, and the erection of a lean-to against the east wall of the Ocean Life Hall for the storage of large cetacean material. As Chief of Construction, Mr. Beers has most ably planned and supervised all construction work carried on by the Museum force and has also supervised all Museum construction under outside contracts.

The Department of Heating and Lighting, Mr. Langham, Chief Engineer, in charge, has not only maintained continuous heat and light service but has most satisfactorily solved many difficult illumination and transportation problems. Extensive case lighting, care of approximately 150 electric motors, ranging in size from $\frac{1}{16}$ horsepower to 35 horsepower, extensive alterations and repairs to our electrical, gas, water, steam, and plumbing lines necessitated in 1925, have all fallen within the province of this department's activities. Notably, the admirable lighting of the murals in the Age of Man Hall has been most effectively accomplished through the coöperation of this department and the Department of Construction. Mr. Langham gave minute supervision to the installation of the new dynamos and to their testing prior to their acceptance by the City. During the year the second of the two new electric passenger elevators was put in operation.

The coöperative spirit of our employees has made possible the execution of this large amount of work at what we believe to be minimum cost.

In conclusion, we wish to express our appreciation of the splendid coöperation we have received from City officials in all branches of the City Government with which we have come in contact.



IV. FINANCIAL ADMINISTRATION

GEORGE F. BAKER, JR., Treasurer

The Treasurer's books segregate Museum funds under headings which indicate the purposes to which they are applied: for example, the City Maintenance Fund contains only the moneys the Museum receives from the City for operation—the care and upkeep of the building. The Morris K. Jesup Fund Account records the receipts and disbursements of the income from Mr. and Mrs. Jesup's bequest, which can be used for scientific work only. The General Fund is composed of unrestricted income which may be applied as the Trustees think best for the general administration of the Museum. The Special Funds Account contains moneys which are given for specific objects and cannot be otherwise used. The summary of all these funds shows that during 1925 the Museum received for operation, from the Endowment and other sources, \$866,936.43, and from the City of New York, \$350,940.96, making a total of \$1,217,877.39. The principal sources of this income are:

| | |
|---|----------------|
| City appropriation for Maintenance..... | \$350,940.96 |
| Income on invested funds..... | 523,085.53 |
| Personal contributions of Trustees..... | 101,484.13 |
| Contributions for specific purposes | |
| (Members)..... | 130,707.43 |
| Membership subscriptions, sales, etc..... | 71,980.26 |
| Contributions for specific purposes | |
| (Foundations)..... | 20,000.00 |
| Trustees' Building Fund..... | 19,879.08 |
| | <hr/> |
| | \$1,217,877.39 |

The resources of the Museum are inadequate for all its requirements, and in two cases the needs were so urgent that a special appeal was made to Members for additional support. Thus, during the year the Members of the Museum contributed \$51,117 to maintain the field work of the Third Asiatic Expedition, and the preparation of exhibits to occupy the six new exhibition halls was supported in part by a special fund of \$21,165, also contributed by Members. A list of the contributors to these two funds follows:

THE THIRD ASIATIC EXPEDITION FUND

| | | | |
|---|------------|----------------------------------|----------|
| American Museum of Natural History..... | \$5,000.00 | Gates, Thomas S..... | 500.00 |
| Appleby, Mrs. John Storm..... | 25.00 | Gilbert, Mrs. Frederick M..... | 5.00 |
| Asia Publishing Company..... | 3,000.00 | Grossmann, Mrs. Edward A.... | 3.00 |
| Baker, Carrie Ethel..... | 5.00 | Haldt, Harry Peale..... | 5.00 |
| Baker, George F..... | 5,000.00 | Halsey, Harold V. W..... | 10.00 |
| Bamberger, Louis..... | 200.00 | Harriman, E. Roland..... | 100.00 |
| Barr, James H..... | 100.00 | Harriman, William Averell.... | 250.00 |
| Battle, George Gordon..... | 10.00 | Hoe, Mrs. Richard March.... | 50.00 |
| Bernheim, Henry J..... | 100.00 | Holden, Guerdon S..... | 500.00 |
| Bernheimer, Mr. and Mrs. Charles L..... | 500.00 | Hollingshead, Rev. Geo. G., D.D. | 10.00 |
| Bigelow, Dr. Wm. S..... | 200.00 | Holmes, Charles Leyland..... | 10.00 |
| Bill, Edward Lyman..... | 25.00 | Holmes, Walter W..... | 50.00 |
| Blackmer, James L..... | 100.00 | Hunter, Roland Jackson..... | 30.00 |
| Bliss, Elizabeth B..... | 5.00 | James, Arthur Curtiss..... | 1,000.00 |
| Bliss, Mrs. William H..... | 5,000.00 | Kachurin, Philip..... | 5.00 |
| Brodman, Dr. Henry..... | 5.00 | Kellogg, J. H..... | 25.00 |
| Cannon, Gabriel..... | 10.00 | Kemeys, Walter Schuyler.... | 50.00 |
| Carpenter, C. L..... | 50.00 | Kirkham, William B..... | 10.00 |
| Chapin, Cornelia Van A..... | 20.00 | Kridel, Alexander H..... | 20.00 |
| Chubb, Percy..... | 100.00 | Lamont, T. W..... | 250.00 |
| Church, E. D..... | 50.00 | Landon, Francis G..... | 50.00 |
| Coburn, Louise H..... | 10.00 | Logan Museum, Beloit College. | 1,000.00 |
| Cole, Harry N..... | 1.00 | Ludlum, C. A..... | 25.00 |
| Colgate, Henry A..... | 200.00 | Mack, Arthur J..... | 10.00 |
| Colgate, R. R..... | 100.00 | Mackay, Clarence H..... | 500.00 |
| Collins, P. D..... | 10.00 | MacMurray, C. F..... | 125.00 |
| Congdon, Walter B..... | 50.00 | Marsh, Geo. E..... | 3.00 |
| Covell, Henry H..... | 500.00 | Masson, John G..... | 5.00 |
| Crabbe, Louise G..... | 10.00 | McClintock, Gilbert S..... | 100.00 |
| Crosby, Albert H..... | 20.00 | McCrea, W. S..... | 25.00 |
| Davis, Waters S..... | 10.00 | McGraw, Arthur B..... | 25.00 |
| Dodge, Cleveland H..... | 500.00 | Moore, Miss K. T..... | 25.00 |
| DuBois, Ethel..... | 20.00 | Morgan, J. P..... | 7,500.00 |
| Dunbar, F. L..... | 50.00 | Morris, Ira N..... | 300.00 |
| Elsberg, H. A..... | 10.00 | Morris, Dr. Lewis R..... | 100.00 |
| Erbisloh, R..... | 10.00 | Mosman, Philip A..... | 10.00 |
| Farrell, Thos. G..... | 3.00 | Nettleton, Charles H..... | 10.00 |
| Farrington, R. I..... | 100.00 | Newbold, Arthur E., Jr..... | 500.00 |
| Field Museum of Natural History..... | 5,000.00 | Notman, George..... | 100.00 |
| Fordyce, George L..... | 5.00 | Pedersen, James..... | 10.00 |
| Franklyn, Mrs. Cyril..... | 15.00 | Peters, Isabel M..... | 10.00 |
| Frick, Childs..... | 1,000.00 | Philipp, Philip B..... | 50.00 |
| Gage, Simon H..... | 10.00 | Pratt, Mr. and Mrs. John T.... | 300.00 |
| Garrett, Hon. John W..... | 100.00 | Putnam, Helen C., M. D..... | 25.00 |
| | | Raisler, Samuel..... | 15.00 |
| | | Ramsperger, H. G..... | 2.00 |
| | | Riegger, Arnold F..... | 10.00 |

Subscriptions to the Third Asiatic Expedition Fund

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| | | | |
|--------------------------------|----------|----------------------------------|-------------|
| Robinson, Mrs. C. L. F..... | 10.00 | Thompson, A. W..... | 10.00 |
| Rockefeller, John D., Jr..... | 7,500.00 | Thompson, Mrs. J. Todhunter.. | 25.00 |
| Rogers, Saul E..... | 50.00 | Thorne, S. B..... | 10.00 |
| Rosenberg, Max L..... | 100.00 | Voigtlander, George..... | 5.00 |
| Ryerson, Mrs. Arthur..... | 1,500.00 | Weigert, Hugo..... | 10.00 |
| Satterlee, Mrs. Herbert L..... | 50.00 | Westervelt, Rev. William D.... | 10.00 |
| Schniewind, Ewald H..... | 20.00 | Wherry, Wm. B..... | 10.00 |
| Scholle, Howard A..... | 10.00 | Whitnall, Harold O..... | 10.00 |
| Scrymser, Mrs. J. A..... | 100.00 | Wilbur, James Benjamin..... | 100.00 |
| Scudder, Hewlett..... | 25.00 | Willard, Frank C..... | 5.00 |
| Simpson, Jean Walker..... | 25.00 | Williams, William..... | 100.00 |
| Smith, Harriet Otis..... | 5.00 | Winne, Charles K., Jr..... | 10.00 |
| Smith, W. Hinckle..... | 25.00 | Wright, Mrs. Eva Edgar..... | 10.00 |
| Snell, Francis Arnold..... | 15.00 | Zinsmeister, Mrs. Elsie Ahrens.. | 25.00 |
| Straus, Mrs. H. Grant..... | 10.00 | A friend..... | 100.00 |
| Taber, Mary..... | 25.00 | | |
| Taylor, Fredk. M. P..... | 250.00 | | |
| | | | <hr/> |
| | | | \$51,117.00 |

THE EMERGENCY PREPARATION AND EXHIBITION FUND

| | | | |
|---------------------------------|----------|-------------------------------|-------------|
| Babcock, Albert..... | \$10.00 | Myers, Frank J..... | 100.00 |
| Baker, George F..... | 100.00 | Nettleton, Charles H..... | 10.00 |
| Baldwin, Geo. J..... | 100.00 | Osborne, Arthur A..... | 3.00 |
| Bell, Louis V. (Estate of)..... | 100.00 | Papworth, Anton G..... | 5.00 |
| Beller, Mr. and Mrs. A..... | 10.00 | Parsons, Mrs. Joseph..... | 25.00 |
| Butler, Charles S..... | 25.00 | Pfeiffer, Curt G..... | 100.00 |
| Calman, Henry L..... | 50.00 | Phoenix, Lloyd..... | 250.00 |
| Carpenter, C. L..... | 50.00 | Pierrepont, Julia J..... | 10.00 |
| Chamberlain, George Agnew... | 20.00 | Rockefeller, John D., Jr..... | 5,000.00 |
| Chambers, Robert A..... | 10.00 | Roebing, John A..... | 7,500.00 |
| Chapin, Cornelia Van A..... | 50.00 | Schieren, Chas. A..... | 50.00 |
| Church, E. D..... | 50.00 | Schmucker, Prof. S. C..... | 10.00 |
| Dole, Elwyn H..... | 10.00 | Scholle, William D..... | 10.00 |
| Dunbar, F. L..... | 50.00 | Schwarz, Emilie E..... | 5.00 |
| Fleitmann, H. C..... | 10.00 | Scoville, Grace..... | 100.00 |
| Goodwin, William B..... | 50.00 | Scudder, Hewlett..... | 50.00 |
| Harkness, Edward S..... | 5,000.00 | Sharpe, Henry D..... | 100.00 |
| Harriman, E. Roland..... | 50.00 | Simpson, Jean Walker..... | 50.00 |
| Hodenpyl, Anton G..... | 100.00 | Smyth, E. Graywood..... | 2.00 |
| Holden, Guerdon S..... | 500.00 | Sollmann, Ekko..... | 10.00 |
| Houghton, Clement S..... | 200.00 | Stone, Robert G..... | 10.00 |
| Howard, John K..... | 20.00 | Sullivan, Mrs. James..... | 15.00 |
| Irvine, William Mann..... | 5.00 | Taylor, B. L..... | 20.00 |
| Kinney, Warren..... | 100.00 | Uhl, Oswald W..... | 500.00 |
| Kirkham, Dr. William B..... | 10.00 | Voigtlander, George..... | 5.00 |
| McLean, Mrs. James..... | 200.00 | Wadsworth, Mrs. W. Austin... | 20.00 |
| Morgan, J. S., Jr..... | 200.00 | Welcher, Amy Ogden..... | 5.00 |
| Morris, L. R..... | 100.00 | Wolkwitz, Ernest..... | 10.00 |
| Mosman, P. A..... | 10.00 | | <hr/> |
| | | | \$21,165.00 |

The operating costs of the Museum for all purposes was \$1,229,480.11, and these expenditures were apportioned as follows:

| | | |
|-------------------------|--|-----------------------|
| Cost of Operation | Administration and Operation..... | \$497,212.95 |
| | (City expenses, care and upkeep of the building, general administration and general care of the collections) | |
| | Financial Administration..... | 55,511.08 |
| | (Expenses of Bursar's office, extension of membership) | |
| | Scientific and Research..... | 406,977.13 |
| | (Exploration, investigation, purchase of specimens, and other purely scientific items) | |
| | Printing, Books and Publications..... | 72,269.76 |
| | (Cost of scientific Bulletins, Memoirs, Anthropological Papers, "Natural History," and the President's Annual Report) | |
| | Preparation and Exhibition..... | 167,645.87 |
| | (Preparation of exhibits for the halls and the preservation of study collections—Trustees' Funds only) | |
| | Educational—Public School Work..... | 29,863.32 |
| | (Extension service to schools, colleges and universities) | |
| | | <u>\$1,229,480.11</u> |

The Permanent Endowment Fund of the Museum now amounts to a book value of \$11,155,431.63, which is invested as follows:

| | | |
|--------------------------------|---|------------------------|
| Permanent Endowment Fund | Railroad Bonds..... | \$8,525,554.25 |
| | Industrial Bonds..... | 826,248.38 |
| | Public Utilities..... | 1,486,073.00 |
| | Other Securities, including 5,000 shares of Standard Oil Company of California and 252 shares of General Electric Company Common, | 317,556.00 |
| | | <u>\$11,155,431.63</u> |

The principal items of new capital added to the Endowment during 1925 have been received from the following sources:

| | |
|---|-------------|
| William Sloane Estate, final payment on account of the bequest of \$50,000..... | \$25,000.00 |
| Emily A. Watson Estate, payment of bequest..... | 10,010.52 |
| Helen C. Inslee Estate, payment of bequest..... | 5,000.00 |
| Arabella D. Huntington Estate, payment of bequest, to be known as the Collis P. Huntington Fund..... | 50,000.00 |
| Membership fees and other sources..... | 11,760.00 |

The Finance Committee sold securities of a book value of \$1,661,483.43 for \$1,734,418.30, which increased the capital of our Endowment Fund \$72,934.87. With the proceeds of these sales and new Endowment Funds, the Committee purchased securities to the value of \$1,841,971.00. By these transactions the Endow-

ment Fund has been increased \$191,587.39, and the Committee considers the investments equally secure.

The following Bequests to the Museum are in process of settlement:

Recent Bequests *Louis V. Bell Bequest.* Under the will of Louis V. Bell, the Museum has a remainder interest in the estate. Three trust funds, totaling \$385,000, have been established, the principal to be paid to the Museum on the death of certain beneficiaries now receiving the income from the funds. Mr. Bell was a Member of the Museum from 1912 until his death.

John Kennedy Tod Bequest. The will of John Kennedy Tod, who had been a Life Member, provides a bequest of \$50,000 to the American Museum.

Julius Hallgarten Bequest. The Museum has a contingent interest in a legacy of \$42,000 under the will of Julius Hallgarten.

Frances Julia Cook Bequest. Frances Julia Cook designated the American Museum as a legatee in her will, bequeathing \$20,000 to our permanent funds.

Jennette Robertson Bequest. The will of Jennette Robertson, for twenty-five years a Member of the American Museum, provides that the Museum is to receive \$2,500, subject to life interest of a friend.

Oliver J. Wells Bequest. As a bequest to the Museum, \$500 is provided in the will of Oliver J. Wells, a Member since 1904.

Albert J. Sauter Bequest. The American Museum is one of several institutions benefiting under the will of Albert J. Sauter. The Museum's share is \$100. Mr. Sauter joined the Museum in 1908.

The Trustees are deeply appreciative of these gifts to our Permanent Endowment Fund, and feel that they are indicative of widespread interest in the Museum.

Again the Trustees desire to pay tribute to the important service which the Advisory Committee on Investments is rendering to the Museum. This Committee, consisting of Messrs. Arthur M. Anderson, Francis D. Bartow and Charles E. Mitchell, is giving continuous attention to the Museum's permanent funds and is rendering advice that insures the integrity of our Endowment, which is the very backbone of the Museum's financial support.

FINANCIAL STATEMENT, 1925

PERMANENT ENDOWMENT

| | Par Value | Book Value |
|------------------------------------|------------------------|------------------------|
| Morris K. Jesup Fund..... | \$6,571,638.80 | \$6,026,818.16 |
| General Endowment Fund*..... | 1,769,732.65 | 1,692,678.98 |
| The Sage Fund..... | 1,629,150.00 | 1,435,539.10 |
| George F. Baker Fund..... | 263,150.00 | 249,995.35 |
| John D. Rockefeller, Jr. Fund..... | 1,066,250.00 | 1,188,418.37 |
| Collis P. Huntington Fund..... | 49,900.00 | 49,986.05 |
| Special Endowment Funds: | | |
| J. P. Morgan Fund..... | 450,350.00 | 449,219.53 |
| Jonathan Thorne Memorial Fund..... | 30,800.00 | 25,754.20 |
| Matilda W. Bruce Fund..... | 11,200.00 | 11,552.80 |
| Margaret Olivia Sage Fund..... | 11,000.00 | 9,995.00 |
| Physical Anthropology Fund..... | 10,528.55 | 10,466.59 |
| Anson W. Hard Library Fund..... | 5,000.00 | 5,007.50 |
| | <u>\$11,868,700.00</u> | <u>\$11,155,431.63</u> |

Uninvested Cash:

| | | |
|------------------------------------|------------------------|------------------------|
| Morris K. Jesup Fund..... | \$ 102.17 | |
| General Endowment Fund..... | 1,135.17 | |
| The Sage Fund..... | 91.79 | |
| John D. Rockefeller, Jr. Fund..... | 98.44 | |
| George F. Baker Fund..... | 4.65 | |
| Collis P. Huntington Fund..... | 13.95 | |
| Physical Anthropology Fund..... | 41.25 | |
| Anson W. Hard Library Fund..... | 81.57 | |
| Jonathan Thorne Memorial Fund..... | 77.00 | |
| Matilda W. Bruce Fund..... | 75.70 | |
| | <u>1,721.69</u> | <u>1,721.69</u> |
| | <u>\$11,870,421.69</u> | <u>\$11,157,153.32</u> |

TRUSTEES' BUILDING FUND

| | | |
|------------|--------------------|--------------------|
| Bonds..... | \$39,500.00 | \$39,500.00 |
| Cash..... | 2,712.35 | 2,712.35 |
| | <u>\$42,212.35</u> | <u>\$42,212.35</u> |

*Contributors to the Permanent Endowment Fund, 1884-1925:

| | | | | | |
|-------------------------------|--------------|---------------------------------|-------------|-----------------------------|------------------------|
| Auchincloss, Hugh..... | \$10,223.56 | Watson, Emily A..... | \$10,010.52 | Jones, Emma Chambers..... | \$1,000.00 |
| Baker, George F..... | 250,000.00 | Astor, W. W..... | 1,000.00 | Karelsen and Karelsen..... | 10.00 |
| Bridgham, Fanny..... | 15,000.00 | Babcock, Samuel D..... | 5,000.00 | Landon, Charles..... | 5,000.00 |
| Combe, Louisa..... | 42,172.33 | Baugh, Margaret L..... | 10,000.00 | Lanier, Charles..... | 4,500.00 |
| Constable, James M..... | 25,000.00 | Bishop, Cortlandt Field..... | 500.00 | Lawrence, Mrs. Samuel..... | 500.00 |
| Davis, Benjamin P..... | 22,799.25 | Bishop, David Wolfe..... | 500.00 | Loeb, Solomon..... | 5,000.00 |
| Douglas, James..... | 100,000.00 | Bishop H. R..... | 1,000.00 | Matthiesson, F. O..... | 1,000.00 |
| Eno, Amos F..... | 246,033.33 | Bliss, George..... | 1,000.00 | Mitchell, Albert M. P..... | 4,953.97 |
| Harkness, Edward S..... | 100,000.00 | Bliss, Mrs. William H..... | 5,000.00 | Parsons, John E..... | 1,000.00 |
| Havemeyer, H. O..... | 25,000.00 | Bondy, Emile C..... | 10,000.00 | Pyne, Percy R..... | 2,500.00 |
| Huntington, Mrs. C. P..... | 50,000.00 | Booth, Mary A..... | 124.13 | Rand, George C..... | 100.00 |
| James, Arthur Curtiss..... | 26,750.00 | Bowdoin, George S..... | 5,000.00 | Rhineland, Charles E..... | 10,000.00 |
| Jesup, Morris K..... | 1,225,000.00 | Bradford, Mrs. A. A..... | 1,000.00 | Rockefeller, William..... | 10,000.00 |
| Jesup, Mrs. Morris K..... | 5,000,000.00 | Bruce, Miss Matilda W..... | 10,000.00 | Roebeling, John A..... | 1,000.00 |
| Juilliard, A. D..... | 100,000.00 | Constable, Frederick A..... | 2,000.00 | Rogers, Mrs. Mary E..... | 1,000.00 |
| Juilliard, Helen C..... | 50,000.00 | Cruikshank, James..... | 95.25 | Russ, Edward S..... | 1,000.00 |
| Kitching, Frank W..... | 10,043.00 | Davis, Mrs. J. C. Bancroft..... | 50.00 | Sands, William R..... | 10,000.00 |
| Mills, D. O..... | 125,000.00 | Dodge, William E..... | 5,000.00 | Schermerhorn, Wm. C..... | 5,000.00 |
| Morgan, J. Pierpont..... | 325,000.00 | Dodge, W. E..... | 10,000.00 | Seligman, Henry..... | 1,000.00 |
| Morgan, J. P..... | 127,187.50 | Fiske, Mrs. Martha T..... | 10,000.00 | Southwick, Mrs. Joseph..... | 10.00 |
| Ottendorfer, Oswald..... | 30,000.00 | FitzGerald, Desmond..... | 625.00 | Swords, Mrs. James R..... | 500.00 |
| Pratt, George D..... | 50,000.00 | Forbes-Leith, A. J..... | 1,000.00 | Van Praag, Leonidas A..... | 500.00 |
| Pyne, Percy R. (No. 1)..... | 45,000.00 | Gade, Frederika..... | 4,956.72 | Villard, Henry..... | 5,000.00 |
| Rockefeller, John D., Jr..... | 1,025,000.00 | Goldenberg, Joel..... | 1,900.00 | Weigle, Chas. H..... | 50.00 |
| Sage, Mrs. Russell..... | 1,349,316.29 | Halsted, Miss L. P..... | 100.00 | Wilson, R. T..... | 1,000.00 |
| Sloane, William..... | 50,000.00 | Hard, Anson W..... | 5,000.00 | | |
| Stuart, Mrs. Mary..... | 50,000.00 | Hitchcock, Miss S. M..... | 5,000.00 | | |
| Thorne, Phebe Anna..... | 30,000.00 | Huntington, C. P..... | 5,000.00 | | |
| Tilford, Charles E..... | 25,070.87 | Iden, Henry..... | 10,000.00 | Patronship Fees..... | 23,000.00 |
| Trevor, Mrs. Emily..... | 30,098.90 | Insee, Helen C..... | 5,000.00 | Fellowship Fees..... | 8,000.00 |
| Vanderbilt, Cornelius..... | 25,000.00 | Iselin, Adrian..... | 10,000.00 | Life Membership Fees..... | 75,500.00 |
| Vanderbilt, William H..... | 50,000.00 | Jacobi, A..... | 300.00 | | |
| Warburg, Felix M..... | 19,000.00 | James, D. Willis..... | 5,000.00 | | |
| | | | | | <u>\$10,972,980.12</u> |

ENDOWMENT AND INVESTMENT ACCOUNT

Receipts, 1925

General Endowment Fund:

| | | |
|--|------------|--------------|
| Balance..... | \$6,688.78 | |
| Proceeds from Sale of Bonds..... | 302,025.85 | |
| Desmond Fitzgerald Gift..... | 200.00 | |
| Karelsen and Karelsen Gift..... | 10.00 | |
| Bequest of William Sloane..... | 25,000.00 | |
| Bequest of Emily A. Watson..... | 10,010.52 | |
| Bequest of Helen C. Inslee..... | 5,000.00 | |
| Bequest of Charles H. Weigle..... | 50.00 | |
| Membership Fees..... | 11,500.00 | |
| George F. Baker Fund, Balance..... | 4.65 | |
| Collis P. Huntington Fund: | | |
| Bequest of Arabella D. Huntington..... | 50,000.00 | |
| John D. Rockefeller, Jr., Fund: | | |
| Balance..... | \$718.22 | |
| Proceeds from Sale of Bonds..... | 48,412.32 | |
| Redemption of Bonds..... | 268,750.00 | 317,880.54 |
| The Sage Fund: | | |
| Balance..... | \$77.93 | |
| Proceeds from Sale of Bonds..... | 153,289.54 | |
| Proceeds from Sale of Stock..... | 17,887.82 | 171,255.29 |
| Total General Endowment..... | | \$899,625.63 |

Special Endowment Funds:

| | | |
|----------------------------------|-------------|-----------------------|
| Matilda W. Bruce Fund: | | |
| Proceeds from Sale of Bonds..... | \$11,628.50 | |
| Anson W. Hard Library Fund: | | |
| Proceeds from Sale of Bonds..... | 5,089.07 | |
| Morris K. Jesup Fund: | | |
| Balance..... | \$14.29 | |
| Proceeds from Sale of Bonds..... | 891,372.75 | 891,387.04 |
| Physical Anthropology Fund: | | |
| Proceeds from Sale of Bonds..... | 10,131.25 | |
| Jonathan Thorne Memorial Fund: | | |
| Proceeds from Sale of Bonds..... | 25,831.20 | |
| Total Special Endowment..... | | 944,067.06 |
| Interest on Credit Balances..... | | 1,339.94 |
| | | <u>\$1,845,032.63</u> |

Disbursements, 1925

General Endowment Fund:

| | |
|--|--------------|
| Purchase of Bonds..... | \$359,349.98 |
| Collis P. Huntington Fund, Purchase of Bonds..... | 49,986.05 |
| John D. Rockefeller, Jr., Fund, Purchase of Bonds..... | 317,782.10 |
| The Sage Fund, Purchase of Bonds..... | 171,163.50 |
| Total General Endowment..... | \$898,281.63 |

Special Endowment Funds:

| | |
|---|-----------------------|
| Matilda W. Bruce Fund, Purchase of Bonds..... | \$11,552.80 |
| Anson W. Hard Library Fund, Purchase of Bonds..... | 5,007.50 |
| Morris K. Jesup Fund, Purchase of Bonds..... | 891,284.87 |
| Physical Anthropology Fund, Purchase of Bonds..... | 10,090.00 |
| Jonathan Thorne Memorial Fund, Purchase of Bonds..... | 25,754.20 |
| Total Special Endowment..... | \$943,689.37 |
| Interest on Credit Balances (to General Account)..... | 1,339.94 |
| Cash on hand, December 31, 1925..... | 1,721.69 |
| | <u>\$1,845,032.63</u> |

CITY MAINTENANCE ACCOUNT*

Receipts, 1925

Capital Fund:

| | |
|-----------------------------------|-------------|
| Cash on hand January 1, 1925..... | \$15,000.00 |
|-----------------------------------|-------------|

Department of Parks, City of New York, 1925:

| | |
|----------------------------------|--------------|
| Salaries, Regular Employees..... | \$300,314.54 |
|----------------------------------|--------------|

Expenses for Other Than Personal Service:

| | |
|--|-------------|
| 1. Fuel Supplies..... | \$15,400.00 |
| 2. Office Supplies..... | 5,594.05 |
| 3. Laundry, Cleaning and Disinfecting Supplies..... | 1,771.00 |
| 4. Motor Vehicle Supplies..... | 924.00 |
| 5. General Plant Supplies..... | 3,041.50 |
| 6. Wearing Apparel..... | 1,155.00 |
| 7. Office Equipment..... | 385.00 |
| 8. General Plant Equipment..... | 577.50 |
| 9. General Plant Materials..... | 7,084.00 |
| 10. General Repairs and Replacements.... | 2,483.25 |
| 11. Telephone Service..... | 1,135.75 |
| 12. Fixed Charges and Contributions..... | 5,082.00 |

| | |
|--|-----------|
| | 44,633.05 |
|--|-----------|

Maintenance of New Additions (Special Revenue Bonds)

| | |
|------------------------------------|----------|
| Salaries, Temporary Employees..... | 5,993.37 |
|------------------------------------|----------|

| | |
|---|--------------|
| Total net receipts for the maintenance of all departments:..... | \$350,940.96 |
|---|--------------|

| | |
|-----------------------------------|--------|
| Interest on Credit Balances:..... | 354.77 |
|-----------------------------------|--------|

| | |
|--|---------------------|
| | <u>\$366,295.73</u> |
|--|---------------------|

Disbursements, 1925

| | |
|---|------------|
| Geology and Invertebrate Palaeontology..... | \$1,994.11 |
| Mineralogy..... | 2,823.82 |
| Mammalogy..... | 5,206.15 |
| Ornithology..... | 5,689.55 |
| Vertebrate Palaeontology..... | 5,904.31 |
| Comparative Anatomy..... | 12.00 |
| Anthropology..... | 7,360.31 |
| Ichthyology..... | 2,149.92 |
| Herpetology..... | 1,718.43 |
| Lower Invertebrates..... | 5,533.00 |
| Entomology..... | 2,800.00 |
| Library..... | 8,700.29 |
| Public Education..... | 11,109.63 |
| Preparation and Exhibition..... | 1,836.99 |
| Division of Printing..... | 6,234.60 |
| Heating and Lighting..... | 56,809.29 |
| Repairs and Installation..... | 39,436.49 |
| General Supplies and Expenses..... | 14,191.65 |
| Administration..... | 171,430.42 |

| | |
|---|--------------|
| Total net disbursements for the maintenance of all departments..... | \$350,940.96 |
|---|--------------|

| | |
|---|--------|
| Interest on Credit Balances (to General Account)..... | 354.77 |
|---|--------|

Capital Fund:

| | |
|-------------------------------------|-----------|
| Cash on hand December 31, 1925..... | 15,000.00 |
|-------------------------------------|-----------|

| | |
|--|---------------------|
| | <u>\$366,295.73</u> |
|--|---------------------|

*The annual appropriation of the City can be used only for the maintenance of the Museum and is inadequate for this purpose. It cannot be used for the purchase of specimens or for the expenses of exploring and collecting expeditions. The deficiency in maintenance for 1925, amounting to \$254,786.61, has been met from the Trustees' General Account.

GENERAL ACCOUNT

Receipts, 1925

| | | |
|--|-------------|---------------------|
| Income from General Endowment Fund..... | \$87,945.34 | |
| Income from The Sage Fund..... | 80,084.92 | |
| Income from George F. Baker Fund..... | 13,157.50 | |
| Income from John D. Rockefeller, Jr., Fund..... | 60,028.93 | |
| Income from Collis P. Huntington Fund..... | 90.09 | |
| Interest on Credit Balances..... | 3,336.73 | |
| Annual Members..... | 41,520.00 | |
| Sustaining Members..... | 4,200.00 | |
| Associate Members..... | 7,338.00 | |
| Sale of Publications..... | 5,985.74 | |
| Subscriptions to Natural History..... | 2,526.80 | |
| Sales and Exchanges..... | 1,081.88 | |
| Contributions of Trustees for General Purposes and Emergency Preparation: | | |
| George F. Baker, Jr..... | \$5,000.00 | |
| Frederick F. Brewster..... | 4,600.00 | |
| Cleveland E. Dodge..... | 1,000.00 | |
| Cleveland H. Dodge..... | 4,000.00 | |
| Walter Douglas..... | 1,500.00 | |
| Chauncey J. Hamlin..... | 500.00 | |
| W. A. Harriman..... | 1,000.00 | |
| Clarence L. Hay..... | 1,000.00 | |
| Adrian Iselin..... | 1,000.00 | |
| Walter B. James..... | 1,000.00 | |
| Roswell Miller..... | 500.00 | |
| Ogden Mills..... | 5,000.00 | |
| J. P. Morgan..... | 25,000.00 | |
| Henry Fairfield Osborn..... | 2,000.00 | |
| George D. Pratt..... | 2,500.00 | |
| Percy R. Pyne..... | 2,500.00 | |
| John B. Trevor..... | 1,000.00 | |
| Felix M. Warburg..... | 10,000.00 | |
| | | 69,100.00 |
| Contributions for General Purposes: | | |
| G. M. Ballin..... | 5.00 | |
| Mabel Clark..... | 10.00 | |
| Robert Rogers..... | 10.00 | |
| R. S. Sturtevant..... | 7.00 | |
| J. Kennedy Tod..... | 100.00 | |
| Anonymous..... | 145.00 | |
| | | 277.00 |
| Contributions for Special Purposes: | | |
| Carnegie Corporation of New York..... | \$15,000.00 | |
| Cleveland H. Dodge Foundation Fund..... | 5,000.00 | 20,000.00 |
| Total net receipts for the development of all departments..... | | \$396,672.93 |
| Contributions of Trustees for General Purposes for 1926: | | |
| Childs Frick..... | | 3,500.00 |
| Loans: | | |
| Incidental Account, Group Life Insurance No. 3..... | \$1,611.07 | |
| Incidental Account, Group Life Insurance No. 4..... | 1,375.40 | |
| Bursar's Account..... | 35,000.00 | |
| | | 37,986.47 |
| Bank Loans: | | |
| Proceeds of Notes held by the United States Trust Company of New York..... | 250,000.00 | |
| | | <u>\$688,159.40</u> |

GENERAL ACCOUNT**Disbursements, 1925**

| | | |
|--|------------|--------------|
| Geology and Invertebrate Palæontology..... | \$2,923.69 | |
| Mineralogy..... | 1,312.89 | |
| Mammalogy..... | 7,364.70 | |
| Asiatic Exploration and Research Fund..... | 766.66 | |
| Ornithology..... | 7,452.01 | |
| Vertebrate Palæontology..... | 15,976.58 | |
| Comparative Anatomy..... | 2,949.57 | |
| Anthropology..... | 20,887.17 | |
| Ichthyology..... | 4,373.55 | |
| Herpetology..... | 3,311.65 | |
| Lower Invertebrates..... | 4,673.49 | |
| Entomology..... | 3,148.76 | |
| Public Health..... | 1,239.51 | |
| Library..... | 13,090.02 | |
| Comparative Physiology..... | 4.75 | |
| Public Education..... | 31,855.20 | |
| Preparation and Exhibition..... | 30,183.89 | |
| Publications..... | 18,557.35 | |
| Division of Printing..... | 19,635.41 | |
| Heating and Lighting..... | 26,617.60 | |
| Repairs and Installation..... | 30,789.81 | |
| General Supplies and Expenses..... | 43,337.87 | |
| Administration..... | 70,883.90 | |
| Pension Fund..... | 20,400.84 | |
| Group Life Insurance..... | 5,698.10 | |
| Interest on Bank Loans..... | 5,312.89 | \$392,747.86 |

Total net disbursements for the development of all departments

| | |
|------------------------------|----------|
| Deficit of 1924 Account..... | 2,388.70 |
|------------------------------|----------|

Loans:

| | | |
|---|------------|-----------|
| Incidental Account, Group Life Insurance No. 4..... | \$3,022.78 | |
| Bursar's Account..... | 35,000.00 | 38,022.78 |

Balance December 31, 1925:

| | | |
|--|--------------|---------------------|
| Proceeds of Notes held by United States Trust Company of New York to meet overdrafts..... | \$250,000.00 | |
| Cash..... | 5,000.06 | *255,000.06 |
| | | <u>\$688,159.40</u> |

***Balance December 31, 1925: Proceeds of Notes held by the**

| | | |
|--|--------------|--------------|
| United States Trust Company of New York..... | \$250,000.00 | |
| Cash..... | 5,000.06 | \$255,000.06 |

Loans Receivable:

| | | |
|---|------------|---------------------|
| Group Life Insurance Advance..... | \$1,647.38 | |
| Disbursements made in anticipation of the Accrued Interest of the Sage Bequest during 1921, balance..... | 4,486.39 | |
| Ditto for 1922..... | 6,248.75 | |
| Ditto for 1923..... | 776.06 | |
| | | 13,158.58 |
| | | <u>\$268,158.64</u> |

Contributions of Trustees for General Purposes for 1926 (paid in 1925).....

| | | |
|---|------------|--|
| Orders and Contracts outstanding of 1925 Account..... | \$3,500.00 | |
| Proceeds of Notes held by the United States Trust Company of New York..... | 14,658.64 | |
| | 250,000.00 | |

\$268,158.64

MORRIS K. JESUP FUND ACCOUNT*

Receipts, 1925

| | | |
|--|--------------|---------------------|
| Trustees' Restricted Funds: | | |
| Cash on hand January 1, 1925..... | | \$8,086.40 |
| Income from Morris K. Jesup Fund..... | \$255,926.53 | |
| Sale of Publications..... | 1,690.67 | |
| Sales and Exchanges..... | 3,676.47 | |
| Interest on Credit Balances..... | 623.97 | |
| | | <u>261,917.64</u> |
| Total net receipts for the development of all departments..... | | <u>\$270,004.04</u> |

Disbursements, 1925

| | | |
|---|--------------|---------------------|
| Geology and Invertebrate Palæontology..... | \$ 13,482.98 | |
| Mineralogy..... | 3,017.96 | |
| Mammalogy..... | 13,269.09 | |
| Asiatic Exploration and Research Fund..... | 16,150.87 | |
| Ornithology..... | 16,205.97 | |
| Vertebrate Palæontology..... | 26,795.48 | |
| President Osborn's Science Fund..... | 7,274.28 | |
| Comparative Anatomy..... | 13,191.31 | |
| Anthropology..... | 25,458.29 | |
| Ichthyology..... | 6,367.26 | |
| Dr. Dean's Research and Publication Fund..... | 1,200.00 | |
| Herpetology..... | 6,782.34 | |
| Lower Invertebrates..... | 4,491.79 | |
| Entomology..... | 8,042.08 | |
| Library..... | 16,724.95 | |
| Comparative Physiology..... | 33.30 | |
| Public Education..... | 5,254.55 | |
| Preparation and Exhibition..... | 56,391.31 | |
| Publications..... | 11,028.22 | |
| Division of Printing..... | 9,108.70 | |
| Interest on Bank Loans..... | 2,593.04 | |
| Total net disbursements for the development of all departments..... | | \$262,863.77 |
| Cash on hand December 31, 1925†..... | | 7,140.27 |
| | | <u>\$270,004.04</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.

†The Treasurer's books show a balance on hand December 31, 1925, of \$7,140.27, which has been carried forward to 1926, to meet pledges and obligations contracted in 1925.

SPECIAL FUNDS ACCOUNT
Receipts and Disbursements, 1925

| | Receipts | Disbursements | Balance Dec. 31, 1925 |
|---|--------------------|--------------------|--------------------------|
| GEOLOGY | | | |
| James Douglas Geological Fund: Balance..... | \$850.00 | | |
| | \$850.00 | \$850.00 | |
| MINERALOGY | | | |
| Matilda W. Bruce Fund: Balance..... | 557.12 | | |
| Interest..... | 711.67 | | |
| | \$1,268.79 | \$1,267.24 | \$1.55 |
| J. P. Morgan Fund: Transferred from Reserve | 754.32 | | |
| | \$754.32 | \$754.32 | |
| MAMMALOGY | | | |
| George S. Bowdoin Whale Model Fund: Balance | 1,000.00 | | |
| | \$1,000.00 | \$250.00 | \$750.00 |
| Vernay Angola Expedition Fund: | | | |
| Arthur S. Vernay..... | 3,418.00 | | |
| | \$3,418.00 | \$3,418.00 | |
| ASIATIC EXPLORATION AND RESEARCH | | | |
| Third Asiatic Expedition Fund: | | | |
| Balance, 1924..... | 10,242.62 | | |
| *Subscriptions 1924..... | 500.00 | 10,742.62 | |
| Balance 1925..... | 5,055.00 | | |
| *Subscriptions 1925..... | 48,392.00 | 38,832.84 | 14,614.16 |
| Balance 1926..... | 330.00 | | |
| *Subscriptions 1926..... | 2,225.00 | | 2,555.00 |
| Balance 1927..... | 325.00 | | 325.00 |
| Balance 1928..... | 325.00 | | 325.00 |
| | \$67,394.62 | \$49,575.46 | \$17,819.16 |
| ORNITHOLOGY | | | |
| African Bird Fund: | | | |
| Don A. Baxter..... | 100.00 | | |
| Mrs. E. M. B. Naumburg..... | 100.00 | | |
| Irving K. Taylor..... | 100.00 | | |
| | \$300.00 | \$300.00 | |
| Amazon Field Fund: Balance..... | 1,875.09 | | |
| Mrs. E. M. B. Naumburg..... | 1,000.00 | | |
| | \$2,875.09 | \$1,730.86 | \$1,144.23 |
| J. Sanford Barnes Fund: | | | |
| J. Sanford Barnes..... | 1,073.00 | | |
| | \$1,073.00 | \$203.52 | \$869.48 |
| Crandall Oological Fund: Balance..... | 1,160.00 | | |
| | \$1,160.00 | \$1,160.00 | |
| Ecuador Expedition Fund: Balance..... | 600.00 | | |
| | \$600.00 | \$600.00 | |
| Carried Forward..... | \$80,693.82 | \$60,109.40 | \$20,584.42 |

*See listing of subscriptions from Members and Friends on pages 126 and 127 of this report.

SPECIAL FUNDS ACCOUNT (Continued)

| | Receipts | Disbursements | Balance Dec. 31, 1925 |
|--|--------------------|--------------------|--------------------------|
| Brought Forward..... | \$80,693.82 | \$60,109.40 | \$20,584.42 |
| Ecuador Publication Fund: | | | |
| Malcolm S. Mackay..... | 500.00 | | |
| | \$500.00 | | \$500.00 |
| Flying Bird Group Fund: | | | |
| Mrs. Dwight Arven Jones..... | 700.00 | | |
| | \$700.00 | | \$700.00 |
| Ruwenzori-Kivu Expedition Fund: | | | |
| Henry W. Sage..... | 2,000.00 | | |
| | \$2,000.00 | \$1,166.95 | \$833.05 |
| Margaret Olivia Sage Fund: Balance..... | 427.88 | | |
| Interest..... | 427.88 | | |
| | \$855.76 | | \$855.76 |
| Tropical Bird Group Fund: | | | |
| Evan M. Evans..... | 500.00 | | |
| | \$500.00 | \$500.00 | |
| Whitney South Sea Expedition: Balance..... | 3,065.30 | | |
| H. P. Whitney..... | 20,000.00 | | |
| | \$23,065.30 | \$18,702.26 | \$4,363.04 |

VERTEBRATE PALÆONTOLOGY

| | | | |
|---|--------------------|--------------------|-------------------|
| Asiatic Palæontology Fund: Balance..... | 1,000.00 | 1,000.00 | |
| Edw. D. Cope Biography Fund: Balance.... | 450.00 | | |
| Julia Cope Collins..... | 200.00 | | |
| | \$650.00 | \$43.75 | \$606.25 |
| Florida Palæontology Research Fund: | | | |
| Walter W. Holmes..... | 300.00 | | |
| | \$300.00 | \$259.25 | \$40.75 |
| J. P. Morgan Fund—Vertebrate Palæontology: | | | |
| Transferred from Reserve..... | 18,400.00 | | |
| | \$18,400.00 | \$18,400.00 | |
| American Pliocene Fund—Vertebrate Palæontology: | | | |
| Balance..... | 6,033.34 | | |
| Anonymous..... | 7,788.83 | | |
| | \$13,822.17 | \$7,322.17 | \$6,500.00 |
| Pleistocene Faunal Life Scenes Fund: Balance | 50.00 | 50.00 | |
| Siwalik Preparation Fund: Balance..... | 8,000.00 | | |
| Mrs. Adelaide H. C. Frick..... | 2,000.00 | | |
| | \$10,000.00 | \$2,865.27 | \$7,134.73 |
| Western Field Fund: Balance..... | 6,006.09 | | |
| Childs Frick..... | 2,500.00 | | |
| | \$8,506.09 | \$6,486.33 | \$2,019.76 |

COMPARATIVE ANATOMY

| | | | |
|-------------------------------------|---------------------|---------------------|--------------------|
| Comparative Anatomy Fund: | | | |
| Childs Frick..... | 500.00 | | |
| | \$500.00 | | \$500.00 |
| Evolution of Man Fund: Balance..... | 26.10 | \$26.10 | |
| Carried Forward..... | \$161,569.24 | \$116,931.48 | \$44,637.76 |

SPECIAL FUNDS ACCOUNT (Continued)

| | Receipts | Disbursements | Balance Dec. 31, 1925 |
|--|--------------|---------------|--------------------------|
| Brought Forward..... | \$161,569.24 | \$116,931.48 | \$44,637.76 |
| ANTHROPOLOGY | | | |
| Canon del Muerto Fund: | | | |
| Ogden Mills..... | 2,500.00 | | |
| | \$2,500.00 | \$1,575.84 | \$924.16 |
| East Asiatic Fund: Balance..... | 778.49 | 185.00 | 593.49 |
| Indian Records Fund: | | | |
| George D. Pratt..... | 1,245.30 | | |
| | \$1,245.30 | \$1,245.30 | |
| Migrations Research Fund: Balance..... | 1,134.41 | | |
| National Research Council..... | 1,578.99 | | |
| | \$2,713.40 | \$2,713.40 | |
| Physical Anthropology Fund: | | | |
| Interest..... | 469.62 | | |
| | \$469.62 | \$469.62 | |
| Mrs. William Boyce Thompson Archæological Expedition to the Lower Gila Fund: | | | |
| Mrs. William Boyce Thompson..... | 5,000.00 | | |
| | \$5,000.00 | \$4,971.61 | \$28.39 |
| ICHTHYOLOGY | | | |
| Cleveland H. Dodge Ichthyology Fund: | | | |
| Balance..... | 353.17 | | 353.17 |
| Fish Bibliography Fund: Balance..... | 2,347.78 | | |
| Bashford Dean..... | 1,200.00 | | |
| | \$3,547.78 | \$66.64 | \$3,481.14 |
| ENTOMOLOGY | | | |
| Entomological Fund: Balance..... | 900.00 | | |
| Herbert F. Schwarz..... | 200.00 | | |
| | \$1,100.00 | \$311.45 | \$788.55 |
| LIBRARY | | | |
| Anson W. Hard Library Fund: Interest..... | 290.55 | | |
| | \$290.55 | \$290.55 | |
| PUBLIC EDUCATION | | | |
| Nature Study Fund: | | | |
| Gano Dunn..... | 100.00 | | |
| Mrs. Mortimer J. Fox..... | 100.00 | | |
| Edwin Gould..... | 100.00 | | |
| Richard M. Hoe..... | 50.00 | | |
| Mrs. Clarence M. Hyde..... | 300.00 | | |
| | \$650.00 | \$650.00 | |
| School Fund: | | | |
| Department of Education of the City of New York: | | | |
| 1924 Account..... | 74.58 | | |
| 1925 Account..... | 3,554.08 | | |
| | \$3,628.66 | \$3,628.66 | |
| Jonathan Thorne Memorial Fund: Interest.. | 1,323.00 | | |
| | \$1,323.00 | \$1,323.00 | |
| Carried Forward..... | \$185,169.21 | \$134,362.55 | \$50,806.66 |

SPECIAL FUNDS ACCOUNT (Continued)

| | Receipts | Disbursements | Balance Dec. 31, 1925 |
|--|---------------------|---------------------|--------------------------|
| Brought forward..... | \$185,169.21 | \$134,362.55 | \$50,806.66 |
| PREPARATION AND EXHIBITION | | | |
| African Hall Group Fund: | | | |
| Daniel E. Pomeroy..... | 28,749.78 | | |
| | \$28,749.78 | | \$28,749.78 |
| Emergency Preparation Fund: | | | |
| 1924 Account, Balance | 10,183.35 | 10,183.35 | |
| 1925 Account, Balance..... | 1,562.50 | | |
| *1925 Account, Members' Subscriptions.. | 21,165.00 | 14,817.86 | |
| | \$32,910.85 | \$25,001.21 | \$7,909.64 |
| Total net receipts for the development of specific departments..... | \$246,829.84 | | |
| Total net disbursements for the development of specific departments..... | | \$159,363.76 | |
| Balances, December 31, 1925..... | | | \$87,466.08 |
| J. P. Morgan Fund Reserve: Balance..... | 3,364.92 | | |
| Interest..... | 22,629.50 | | |
| | \$25,994.42 | \$19,154.32 | \$6,840.10 |
| Angelo Heilprin Exploring Fund Reserve: Balance | 50.00 | | |
| Mr. and Mrs. Paul J. Sachs..... | 500.00 | | |
| | \$550.00 | | \$550.00 |
| Interest on Credit Balances..... | 1,606.69 | 1,606.69 | |
| Totals..... | \$274,980.95 | \$180,124.77 | \$94,856.18 |

*See listing of Subscribing Members on page 127 of this report.

CORPORATE STOCK ACCOUNT

1925

Receipts:

Department of Parks, City of New York:

| | |
|-------------------|-----------------|
| C. D. P. 3 G..... | \$26,533.89 |
| C. D. P. 3 S..... | 2,853.37 |
| N. D. P. 3 R..... | <u>8,341.87</u> |

\$37,729.13

Interest on Credit Balances.....

5.69

\$37,734.82

Disbursements:

Payroll of Mechanics, etc.....

\$37,729.13

Interest on Credit Balances, Transferred to General Account.....

5.69

\$37,734.82

TRUSTEES' BUILDING FUND ACCOUNT

1925

Receipts:

Cash on hand January 1, 1925.....

\$8,867.90

Investment Fund:

Sale of Securities.....

17,350.62

Income from Investment Fund.....

2,244.69

Interest on Credit Balances.....

83.77

\$28,546.98

Disbursements:

The Age of Man Hall.....

\$5,622.93

Architects' Services.....

982.44

Astronomical Hall Plans.....

1,500.00

Case Alterations Present Building.....

290.79

Case Lighting.....

493.06

Dinosaur Hall Changes.....

8,877.00

Doming over Bird Hall.....

2,545.00

Engineers' Services School Service Building.....

964.69

Engineers' Services Southeast Wing.....

1,483.65

Exhibition Lighting.....

1,506.94

Perspective Drawings.....

375.00

Replacement of Elevators.....

425.00

Southeast Wing and Court Building Changes.....

768.13

Cash on hand December 31, 1925.....

2,712.35

\$28,546.98

INCIDENTAL ACCOUNT

1925

Receipts:

| | | |
|--|-----------------|---------------------------|
| Cash on hand January 1, 1925..... | | \$246.91 |
| Received from Individuals and Societies..... | | 5,688.60 |
| Group Life Insurance: | | |
| Employees' Premium Payments..... | \$5,495.11 | |
| Loans from General Account..... | <u>3,022.78</u> | 8,517.89 |
| Interest on Credit Balances..... | | 29.64 |
| | | <u><u>\$14,483.04</u></u> |

Disbursements:

| | | |
|--|-----------------|---------------------------|
| Disbursements for Individuals and Societies..... | | \$5,680.25 |
| Group Life Insurance: | | |
| Premiums..... | \$5,531.42 | |
| Loan Instalments paid General Account..... | <u>2,986.47</u> | 8,517.89 |
| Interest on Credit Balances, Transferred to General Account..... | | 29.64 |
| Cash on hand December 31, 1925..... | | <u>255.26</u> |
| | | <u><u>\$14,483.04</u></u> |

All the foregoing accounts have been

Examined and { WILLIAM AVERELL HARRIMAN }
 Approved { FREDERICK TRUBEE DAVISON } *Auditing Committee*

E. & O. E.

NEW YORK, December 31, 1925.

GEORGE F. BAKER, JR., *Treasurer*

V. MEMBERSHIP

PERCY R. PYNE, Secretary

The membership of The American Museum of Natural History is a very important factor in carrying out our extensive research and educational work. We depend upon our Members in a large measure to disseminate the scientific information compiled by our staff through its many researches and explorations. The broad geographical distribution of members is evidence of the wide interest in the activities of the Museum. Each of the United States and forty-nine foreign countries are represented.

During 1925, members contributed in their membership fees \$64,558 for the general purposes of the Museum. The Permanent Endowment Fund has been increased by \$11,500 of this amount, representing the receipts from Life Members and the higher classes of membership.

One of the most valuable privileges of membership is the included subscription to *Natural History*, the Museum's popular illustrated magazine devoted to the advancement of natural science, the recording of progress in scientific research, exploration and discovery, and the development of Museum exhibition and Museum influence in education.

The large tower room on the third floor, known as the Members' Room, is reserved for the use of members visiting the Museum. Here they may read, rest or write letters, and the attendant in the room, when requested, will secure an instructor to conduct members to the exhibition halls in which they are particularly interested.

Nine lectures for members and eight Saturday morning lectures for the children of members were arranged during the year. In addition, three special lectures for members were given. Members of all classes except Associate receive, each season, tickets for these lectures. At other lectures given in the auditorium of the Museum all members are cordially welcome.

During 1925 our membership was substantially increased by the addition to our rolls of 1,055 new names, of which 118 were Life Members. The loss through death and resignation was 488, bringing the net gain to 567, and the total membership on the last day of the year was 8,519. The membership by classes is as follows:

| | | | |
|----------------------------|-----|----------------------------|-------|
| Founders..... | 0 | Honorary Life Members..... | 52 |
| Benefactors..... | 14 | Life Members..... | 1,131 |
| Associate Founders..... | 13 | Corresponding Members..... | 22 |
| Associate Benefactors..... | 22 | Sustaining Members..... | 167 |
| Patrons..... | 130 | Annual Members.. | 4,286 |
| Honorary Fellows..... | 15 | Associate Members..... | 2,617 |
| Fellows..... | 68 | (non-resident) | |

NEW MEMBERS

During 1925 the following new members were elected:

BENEFACTOR

GEO. EASTMAN

ASSOCIATE FOUNDERS

D. E. POMEROY

WILLIAM SLOANE*

ASSOCIATE BENEFACTOR

GEO. F. BAKER, JR.

PATRONS

AUSTEN COLGATE

GUERDON S. HOLDEN

MRS. D. C. COOK

LOUIS J. HOROWITZ

JOHN F. FOWLER

MRS. LOUIS J. HOROWITZ

MRS. CHILDS FRICK

MRS. ANNIE TRUMBULL

HOWARD FUGUET

SLOSSON

MRS. W. L. HARKNESS

MRS. WILLIAM BOYCE

CLARENCE L. HAY

THOMPSON

HONORARY FELLOWS

PROF. DR. EUG. DUBOIS

LINCOLN ELLSWORTH

*Deceased

FELLOWS

| | |
|------------------------|------------------------|
| ANNIE M. ALEXANDER | GILBERT S. McCLINTOCK |
| THOMAS S. GATES | FRANCIS W. McMILLAN |
| ROLAND JACKSON HUNTER | ROSWELL MILLER |
| HARRY F. KNIGHT | ARTHUR E. NEWBOLD, JR. |
| CLARENCE H. MACKAY | MRS. ARTHUR RYERSON |
| FREDERICK STURGES, JR. | |

HONORARY LIFE MEMBERS

| | |
|---------------------|----------------------------|
| DR. DANA W. ATCHLEY | JOSÉ ANTONIO DE LAVALLE, Y |
| FRANCISCO BALLÉN | GRACÍA |

LIFE MEMBERS

| | |
|------------------------------|----------------------------|
| WALTER H. ALDRIDGE | JAMES W. CROMWELL |
| J. S. ALEXANDER | ULRIC DAHLGREN |
| GEORGE B. ALVORD | OSCAR DANIELS |
| WILLIAM C. ATWATER | GHERARDI DAVIS |
| JOHN EDWARDS BARBOUR | MRS. HENRY W. DEFOREST |
| DR. WM. S. BIGELOW | CLEVELAND E. DODGE |
| LEO S. BING | H. YALE DOLAN |
| JAMES L. BLACKMER | F. L. DUNBAR |
| WM. J. BOARDMAN | LAMMOT DU PONT |
| WALTER L. BOGERT | JESSE L. EDDY |
| ISAIAH BOWMAN | MRS. A. WENTWORTH ERICKSON |
| NICHOLAS F. BRADY | FLORENCE SUTRO ESBERG |
| MRS. JONATHAN BULKLEY | HENRY ESBERG |
| FREDERICK J. BURGHARD | MAX FARRAND |
| IRVING T. BUSH | R. I. FARRINGTON |
| WENDELL T. BUSH | ALBERT R. FISH |
| ARTHUR W. BUTLER | MRS. HENRY J. FISHER |
| MRS. F. H. CABOT | HENRY FITZHUGH |
| MRS. G. LISTER CARLISLE, JR. | JOHN W. GARRETT |
| ANDREW CARNEGIE, 2D | ALEX GOLDSMITH |
| GEORGE W. CHAUNCEY | W. C. GOTSHALL |
| GEORGE E. CHISHOLM | MRS. GEORGE M. GOULD |
| PERCY CHUBB | KINGDON GOULD |
| HENRY A. COLGATE | MRS. ANSON W. HARD |
| MRS. D. C. COOK | E. ROLAND HARRIMAN |
| ALFRED J. CRANE | ALFRED C. HARRISON |

| | |
|------------------------------|--------------------------|
| MRS. MORRIS HAWKES | MAX L. ROSENBERG |
| VAN CAMPEN HEILNER | JULIUS ROSENWALD |
| F. GILBERT HINSDALE | WILLIAM J. RUCKER |
| ANTON G. HODENPYL | HENRY M. SAGE |
| CHARLES LEYLAND HOLMES | GEORGE B. ST. GEORGE |
| CLEMENT S. HOUGHTON | MRS. F. J. SARMIENTO |
| MRS. A. G. HULL | OTTO SARTORIUS |
| ELIZABETH A. HULL | H. VON W. SCHULTE |
| FREDERICK HUSSEY | A. B. SEE |
| MRS. WM. E. KEITH | EDGAR V. SEELER, JR. |
| RICHARD KELLY | MISS ELLEN J. STONE |
| F. A. KENNEDY | MRS. HENRY ALVAH STRONG |
| RINGLAND F. KILPATRICK | JOSEPH R. SWAN |
| SAMUEL H. KRESS | DR. W. P. THOMPSON |
| EDWARD J. LAVINO | J. KENNEDY TOD |
| JOHN J. LICHTER | WILLIAM H. VANDERBILT |
| MRS. CHARLES O. MAAS | MRS. JOHN A. VIETOR |
| MRS. WINIFRED MACCURDY | HANS V. BRIESEN |
| MISS ELIZABETH McLANE | ARTHUR T. WALKER |
| JEREMIAH MILBANK | FRANK D. WATERMAN |
| W. H. MINER | ORLANDO F. WEBER |
| MRS. PAUL MOORE | D. B. WENTZ |
| IRA NELSON MORRIS | ANDREW CASTLE WESTERVELT |
| MRS. DWIGHT W. MORROW | WILLIAM D. WESTERVELT |
| CLEMENT BUCKLEY NEWBOLD | HAROLD C. WHITMAN |
| E. PENNINGTON PEARSON | CASPAR WHITNEY |
| MISS CLAUDIA LEA PHELPS, 2d. | MRS. CASPAR WHITNEY |
| MRS. MONROE D. ROBINSON | J. MACY WILLETS |
| KERMIT ROOSEVELT | HENRY WITTMER |

SUSTAINING MEMBERS

| | |
|---------------------------|-------------------------|
| MRS. BRUCE-BROWN | R. C. LEFFINGWELL |
| MRS. THOMAS UPHAM COE | FREDERICK LYON |
| MRS. MARIUS DE BRABANT | OSCAR I. MAYER |
| EBEN S. DRAPER | A. GRAHAM MILES |
| SENECA D. ELDRIDGE | MRS. H. A. MOORE |
| THOMAS T. GAUNT | MISS MAY TAYLOR MOULTON |
| CHARLES SUTHERLAND HAMNER | FREDERICK OSBORN |
| MRS. HORACE HAVEMEYER | WALTER J. OTIS, M.D. |
| WILLARD V. KING | WILLIAM C. POTTER |

| | |
|-------------------------|----------------------------|
| WILLIAM HALE PRICE | EDWIN SEFTON |
| EDWARD BREVOORT RENWICK | SIMON SIEGMAN |
| MRS. C. G. RICE | MRS. WHARTON SINKLER |
| CHARLES EDWARD RILEY | R. L. SLEETH, JR. |
| DR. DUDLEY ROBERTS | MISS CHARLOTTE R. STILLMAN |
| GEORGE I. ROCKWOOD | BERTRAND L. TAYLOR |
| EDWARD TOWNSEND | |

DECEASED MEMBERS**PATRONS**

| | |
|-------------------------|-----------------|
| MRS. M. SCHUYLER ELLIOT | GEORGE G. HAVEN |
| JOHN H. PRENTICE | |

FELLOW

PROF. CHAS. F. CHANDLER

HONORARY LIFE MEMBERS

| | |
|---------------------|--------------------|
| DR. JOHN A. FORDYCE | CHARLES F. FORSYTH |
|---------------------|--------------------|

LIFE MEMBERS

| | |
|-------------------------|-------------------------|
| LOUIS V. BELL | EDMUND PENFOLD |
| LESTER B. CHURCHILL | DR. CHARLES B. PENROSE |
| ADAM W. S. COCHRANE | NORTON PERKINS |
| MISS MARY O'HARA | DR. T. MITCHELL PRUDDEN |
| DARLINGTON | DANIEL G. REID |
| THEODORE DE WITT | WILLIAM LATHROPE RICH |
| JAMES W. ELLSWORTH | ROBERT ROGERS |
| FRANCIS L. HIGGINSON | MRS. ROBERT S. RUSSELL |
| HUGH HILL | ALANSON SKINNER |
| GEO. W. HOADLEY | A. B. SPRECKELS |
| MRS. V. EVERIT MACY | LOUIS STERN |
| GEORGE W. MAYNARD | EDW. R. STETTINIUS |
| WALTER E. MAYNARD | MISS CLARA F. STILLMAN |
| CHARLES E. MILMINE | ADOLPH D. STRAUS |
| MRS. WILLIAM F. MILTON | A. F. TROESCHER |
| MRS. J. PIERPONT MORGAN | S. BRECK P. TROWBRIDGE |
| T. B. PARKER | C. BLAINE WARNER |

MRS. JOHN J. WYSONG

A complete list of members will be found on pages 149 to 220 of this report.

TRUSTEES AND STAFF

At the Annual Meeting of the Trustees held January 5, 1925, the following trustees were elected to the class of 1929: George F. Baker, George D. Pratt, Walter Douglas, Chauncey J. Hamlin, Henry Fairfield Osborn. With the exception of Mr. Chauncey J. Hamlin, these trustees were members of the class of 1925 whose term expired at the Annual Meeting.

During 1925 the following promotions and appointments were made in the Scientific and Administrative Staffs:

Staff W. D. Matthew, Ph.D., was appointed Acting
Changes Curator of Geology and Invertebrate Palæontology.

William K. Gregory, Ph.D., was made Curator of Ichthyology.

H. E. Anthony, M.A., was promoted from Associate Curator of Mammals of the Western Hemisphere to Curator of Mammalogy.

Charles W. Mead was made Honorary Curator of Peruvian Archæology.

E. W. Gudger, Ph.D., was appointed Bibliographer and Associate in the Department of Ichthyology.

Earl H. Morris was appointed Associate Curator of American Archæology.

Harry L. Shapiro was appointed Assistant Curator of Physical Anthropology.

C. M. Breder, Jr., was appointed Research Associate in the Department of Ichthyology.

Van Campen Heilner, F.R.G.S., was made Field Representative of the Department of Ichthyology.

Josephine Hopkins, A.B., was appointed Assistant in the Department of Public Education.

Wayne M. Faunce, Sc.B., was appointed Assistant Secretary.

Francis Bushell was promoted to Assistant Bursar.

LIST OF MEMBERS

December 31, 1925

FOUNDERS

This class of members is composed of the incorporators of the Museum

WILLIAM T. BLODGETT*
JOSEPH H. CHOATE*
ROBERT COLGATE*
CHARLES A. DANA*
A. G. PHELPS DODGE*
BENJAMIN H. FIELD*
WILLIAM A. HAINES*
ADRIAN ISELIN*

MORRIS K. JESUP*
J. PIERPONT MORGAN*
HENRY PARISH*
HOWARD POTTER*
THEODORE ROOSEVELT*
BENJAMIN B. SHERMAN*
D. JACKSON STEWARD*
ROBERT L. STUART*

JOHN DAVID WOLFE*

BENEFACTORS

By contribution of \$50,000 or upward to the Museum

GEORGE F. BAKER
JAMES M. CONSTABLE*
CLEVELAND H. DODGE
JAMES DOUGLAS*
GEO. EASTMAN
AMOS F. ENO*
CHILDS FRICK
EDWARD S. HARKNESS
ARCHER M. HUNTINGTON
ARTHUR CURTISS JAMES
MORRIS K. JESUP*
MRS. MORRIS K. JESUP*
A. D. JULLIARD*
MRS. A. D. JULLIARD*

DARIUS OGDEN MILLS*
OGDEN MILLS
J. P. MORGAN
J. PIERPONT MORGAN*
HENRY FAIRFIELD OSBORN
GEO. D. PRATT
PERCY R. PYNE*
JOHN D. ROCKEFELLER, JR.
MRS. RUSSELL SAGE*
MRS. ROBERT L. STUART*
CORNELIUS VANDERBILT*
WM. H. VANDERBILT*
FELIX M. WARBURG
HARRY PAYNE WHITNEY

*Deceased

ASSOCIATE FOUNDERS

By contribution of \$25,000 to the Museum

| | |
|-----------------------|----------------------------|
| GEORGE S. BOWDOIN* | J. P. MORGAN |
| JAMES M. CONSTABLE* | OSWALD OTTENDORFER* |
| CLEVELAND H. DODGE | D. E. POMEROY |
| WILLIAM E. DODGE, 2D* | PERCY R. PYNE |
| CHILDS FRICK | WILLIAM ROCKEFELLER* |
| HENRY O. HAVEMEYER* | WILLIAM SLOANE* |
| ARCHER M. HUNTINGTON | MISS PHEBE ANNA THORNE* |
| ADRIAN ISELIN | CHARLES E. TILFORD* |
| ARTHUR CURTISS JAMES | MRS. JOHN B. TREVOR* |
| A. D. JUILLIARD* | CORNELIUS VANDERBILT, 1ST* |
| CHARLES LANIER | FELIX M. WARBURG |
| OGDEN MILLS | HARRY PAYNE WHITNEY |
| | WILLIAM C. WHITNEY* |

ASSOCIATE BENEFACTORS

By contribution of \$10,000 to the Museum

| | |
|------------------------|--------------------------|
| HUGH AUCHINCLOSS* | ADRIAN ISELIN* |
| GEORGE F. BAKER | ADRIAN ISELIN |
| GEO. F. BAKER, JR. | ARTHUR CURTISS JAMES |
| EMIL C. BONDY* | D. WILLIS JAMES* |
| GEORGE S. BOWDOIN* | A. D. JUILLIARD* |
| FREDERICK F. BREWSTER | FRANK W. KITCHING* |
| JOSEPH H. CHOATE* | MRS. FRANK W. KITCHING |
| ROBERT COLGATE* | CHARLES LANIER |
| THOMAS DEWITT CUYLER* | JOSEPH F. LOUBAT |
| BENJAMIN P. DAVIS* | OGDEN MILLS |
| HENRY P. DAVISON* | J. P. MORGAN |
| DR. BASHFORD DEAN | HENRY FAIRFIELD OSBORN |
| CLEVELAND H. DODGE | PERCY R. PYNE |
| WILLIAM E. DODGE, 2D* | JOHN D. ROCKEFELLER, JR. |
| MRS. WILLIAM E. DODGE* | WILLIAM ROCKEFELLER* |
| MRS. JOSIAH M. FISKE* | MRS. RUSSELL SAGE* |
| JAMES B. FORD | WM. R. SANDS* |
| CHILDS FRICK | JACOB H. SCHIFF* |
| HENRY C. FRICK* | ROBERT L. STUART* |
| MRS. HENRY C. FRICK | JOHN B. TREVOR |
| ANSON W. HARD* | MRS. JOHN B. TREVOR* |
| ARCHER M. HUNTINGTON | FELIX M. WARBURG |
| HENRY IDEN* | HARRY PAYNE WHITNEY |

*Deceased

PATRONS

By contribution of \$1,000 to the Museum

| | |
|------------------------------|-----------------------------|
| EDWARD D. ADAMS | ANDREW CARNEGIE* |
| MRS. CHARLES B. ALEXANDER | HAZEL DORIS CARTIER |
| JOHN ANDERSON* | DR. WALTER CHANNING* |
| JAMES ANGUS* | JOSEPH H. CHOATE* |
| HICKS ARNOLD* | JOHN J. CLANCY* |
| RICHARD ARNOLD* | B. PRESTON CLARK |
| WILLIAM H. ASPINWALL* | EDWARD CLARK* |
| JOHN JACOB ASTOR* | JONAS G. CLARK* |
| WILLIAM WALDORF ASTOR* | AUSTEN COLGATE |
| HUGH AUCHINCLOSS* | JAMES B. COLGATE* |
| BENJAMIN AYMAR* | ROBERT COLGATE* |
| SAMUEL D. BABCOCK* | SIDNEY M. COLGATE |
| GEO. F. BAKER, JR. | FREDERICK A. CONSTABLE* |
| GEORGE F. BAKER | MRS. FREDERICK A. CONSTABLE |
| MRS. GUY ELLIS BAKER | JAMES M. CONSTABLE* |
| GEO. J. BALDWIN | MRS. D. C. COOK |
| MRS. HARLEY GRANVILLE BARKER | GEORGE C. COOPER* |
| H. A. BARNEY* | PETER COOPER* |
| D. N. BARNEY* | AUSTIN CORBIN* |
| JAMES GORDON BENNETT* | ALEXANDER I. COTHEAL* |
| CHARLES L. BERNHEIMER | ZENAS CRANE* |
| ALBERT S. BICKMORE* | JOHN D. CRIMMINS* |
| MRS. ALBERT S. BICKMORE* | JOHN J. CROOKE |
| FREDERICK BILLINGS* | ROBERT FULTON CUTTING |
| HEBER R. BISHOP* | CORNELIUS C. CUYLER* |
| GEORGE BLISS* | THOMAS DEWITT CUYLER* |
| GEORGE T. BLISS* | HENRY P. DAVISON* |
| MISS SUSAN DWIGHT BLISS | DR. BASHFORD DEAN |
| MRS. WILLIAM H. BLISS | MRS. BASHFORD DEAN |
| WILLIAM T. BLODGETT* | W. M. DONGAN DE PEYSTER |
| ROBERT BONNER* | L. P. DI CESNOLA* |
| HENRY BOOTH | W. B. DICKERMAN |
| M. C. D. BORDEN* | JULIAN A. DIMOCK |
| J. A. BOSTWICK* | A. G. PHELPS DODGE* |
| GEORGE S. BOWDOIN* | CLEVELAND H. DODGE |
| GEORGE DEXTER BRADFORD* | WILLIAM E. DODGE, 1st* |
| MRS. A. H. BRAWNER* | WILLIAM E. DODGE, 2d* |
| FREDERICK F. BREWSTER | MRS. WILLIAM E. DODGE* |
| ALEX. H. BROWN, M.P.* | JAMES DOUGLAS* |
| JAMES BROWN* | WALTER DOUGLAS |
| MISS MATILDA W. BRUCE* | ANDREW E. DOUGLASS* |
| HERMON C. BUMPUS | JOSEPH W. DREXEL* |
| JOHN L. CADWALADER* | MRS. ISAAC M. DYCKMAN* |
| MRS. CARNEGIE | D. G. ELLIOT* |

*Deceased

MRS. M. SCHUYLER ELLIOT*
 MRS. LEONARD ELMHIRST
 JAMES R. ELY*
 LIEUT G. T. EMMONS, U. S. N
 BENJAMIN H. FIELD*
 CYRUS W. FIELD*
 CYRUS W. FIELD, JR.*
 JAMES B. FORD
 PROF. AUGUSTE FOREL
 ARTHUR A. FOWLER
 JOHN F. FOWLER
 CHILDS FRICK
 MRS. CHILDS FRICK
 MISS HELEN CLAY FRICK
 HENRY C. FRICK*
 HOWARD FUGUET
 MRS. FREDERICKA GADE*
 WILLIAM T. GARNER*
 ELBRIDGE T. GERRY
 ROBERT W. GOELET
 LUDWIG MAX GOLDBERGER*
 JOEL GOLDENBERG*
 GEORGE J. GOULD*
 JOHN A. C. GRAY*
 MRS. CLEMENT ACTON GRISCOM, JR.
 LUDLOW GRISCOM
 JOHN A. GROSSBECK*
 WILLIAM A. HAINES*
 ANSON W. HARD*
 DR. JAMES M. B. HARD
 MRS. W. L. HARKNESS
 E. H. HARRIMAN*
 MRS. E. H. HARRIMAN
 OLIVER HARRIMAN*
 WILLIAM AVERELL HARRIMAN
 HENRY O. HAVEMEYER*
 THEODORE A. HAVEMEYER*
 GEORGE G. HAVEN*
 GEORGE G. HAVEN*
 CLARENCE L. HAY
 GEORGE A. HEARN*
 AUGUST HECKSCHER
 MRS. WM. TOD HELMUTH
 ABRAM S. HEWITT*
 MRS. ABRAM S. HEWITT*
 W. L. HILDBURGH
 MISS S. M. HITCHCOCK*

*Deceased

VERY REV. E. A. HOFFMAN,
 D.D., LL.D.*
 MRS. EUGENE A. HOFFMAN*
 SAMUEL V. HOFFMAN
 GUERDON S. HOLDEN
 GEO. B. HOPKINS*
 LOUIS J. HOROWITZ
 MRS. LOUIS J. HOROWITZ
 GEN. T. H. HUBBARD*
 ARCHER M. HUNTINGTON
 C. P. HUNTINGTON*
 MRS. HENRY EDWARDS HUNTINGTON*
 B. H. HUTTON*
 B. T. BABBITT HYDE
 DR. FREDERICK E. HYDE
 FREDERICK E. HYDE, JR.
 JAMES H. HYDE
 ADRIAN ISELIN*
 ADRIAN ISELIN
 ARTHUR CURTISS JAMES
 D. WILLIS JAMES*
 DR. WALTER B. JAMES
 CHARLES M. JESUP
 MORRIS K. JESUP*
 MRS. MORRIS K. JESUP*
 H. J. JEWETT*
 J. TAYLOR JOHNSTON*
 MRS. ISABELLE FIELD JUDSON
 A. D. JUILLIARD*
 JAMES R. KEENE*
 MRS. DAVID J. KELLEY
 L. D. KELLOGG
 GUSTAV E. KISSEL*
 MRS. SOPHIA HANDFORTH KUNZ*
 CHAS. G. LANDON*
 CHARLES LANIER
 LORD LEITH OF FYVIE
 JAMES LENOX*
 ADOLPH LEWISOHN
 MAJOR C. A. M. LIEBRECHTS
 SOLOMON LOEB*
 JOSEPH F. LOUBAT
 SETH LOW, LL.D.*
 PRINCESS VILMA LWOFF-PARLAGHY*
 JOHN B. MARCOU*
 PHILIPPE B. MARCOU
 EDWARD MATTHEWS

FRANCIS O. MATTHIESSEN*
 GEORGE B. McCLELLAN
 DR. EDGAR A. MEARNS, U. S. A.*
 HERMAN A. METZ
 GERRISH H. MILLIKEN
 DARIUS OGDEN MILLS*
 OGDEN MILLS
 ALBERT M. P. MITCHELL*
 MASON MITCHELL
 EDWARD C. MOORE, JR.
 J. P. MORGAN
 J. PIERPONT MORGAN*
 FRANK J. MYERS
 MRS. WALTER WEHLE NAUMBURG
 THOS. NEWBOLD
 A. PERRY OSBORN
 HENRY FAIRFIELD OSBORN
 MRS. HENRY FAIRFIELD OSBORN
 WM. CHURCH OSBORN
 W. H. OSBORN*
 MRS. WM. H. OSBORN*
 OSWALD OTTENDORFER*
 JOHN E. PARSONS*
 GEORGE FOSTER PEABODY
 DR. WM. PEPPER*
 I. N. PHELPS*
 S. WHITNEY PHOENIX*
 HENRY CLAY PIERCE
 HENRY W. POOR*
 JOHN H. PRENTICE*
 PERCY R. PYNE*
 PERCY R. PYNE
 PAUL J. RAINY*
 CHARLES E. RHINELANDER*
 CLARK LOMBARD RING
 J. HAMPDEN ROBB*
 COLEMAN T. ROBINSON*
 JOHN D. ROCKEFELLER
 JOHN D. ROCKEFELLER, JR.
 WM. ROCKEFELLER*
 JOHN A. ROEBLING
 COL. ARCHIBALD ROGERS
 MRS. MARY E. ROGERS*
 THEODORE ROOSEVELT*
 THEODORE ROOSEVELT*
 EDWARD S. RUSS*
 PAUL J. SACHS

MRS. PAUL J. SACHS
 MRS. RUSSELL SAGE*
 WM. SCHAUS
 F. AUGUSTUS SCHERMERHORN*
 WILLIAM C. SCHERMERHORN*
 JACOB H. SCHIFF*
 MRS. HARRIET L. SCHUYLER*
 HERBERT F. SCHWARZ
 HENRY SELIGMAN
 JESSE SELIGMAN*
 CHARLES H. SENFF*
 CHARLES S. SHEPARD
 EDWARD M. SHEPARD*
 BENJAMIN B. SHERMAN*
 WM. D. SLOANE*
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 Davis, John W. A.
 Davis, Leonard M.
 Davis, Morgan
 Davis, R. C.
 Davis, Samuel D.
 Davis, Warren J.
 Davis, Waters S.
 Davison, Miss Alice M.
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 Davison, E. Mora
 Davison, George W.
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 Day, Miss Sarah J.
 Day, W. A.
 Dazian, Henry
 Dearborn, D. B., Jr.
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 de Bonneval, Mrs. A.
 De Buys, A.
 Deeks, R. E.
 de Forest, Johnston
 de Forest, Lockwood
 de Forest, Robert W.
 de Forest, Mrs. Robert W.
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 Degener, Paul A.
 de Gersdorff, Mrs. Carl A.
 De Golyer, E.
 Deitsch, Alan B.
 deKosenko, Stepan
 Delacorte, Geo. T., Jr.
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 Delafield, Mrs. John R.
 Delafield, Lewis L., Jr.
 Delamar, Alice A.
 Delano, Lyman
 De Lanoy, William C.
- Delavan, D. Bryson, M.D.
 Delehanty, Wm. R.
 de Long Mrs. George B.
 Deming, Mrs. Horace E.
 Deming, L. C.
 Dempsey, Geo. C.
 Demuth, Leopold
 Denby, Edwin H.
 Denison, Mrs.
 Charles Halbert
 Denison, Lucile G.
 Denny, Mrs. Lucy W.
 Denton, Dr. Myron P.
 Denver, Miss Mary H.
 de Perigny, Comtesse
 Deppé, W. P.
 Dercum, Francis X., M.D.
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 Derringer, David F., Jr.
 de Ruyter, John E.
 Desmond, Thomas C.
 De Sola, Mrs. J. C.
 De Sola, Solomon, D.D.S.
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 Detmer, Julian F.
 Deutsch, Lee
 De Vinne, T. B.
 Devotion, Miss Harriet N.
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 De Witt, Benjamin P.
 DeWolf, W. Ashley
 Dexter, Mrs. Stanley W.
 Dey, Richard Varick
 Dick, Adolph M.
 Dick, Mrs. Fairman R.
 Dick, Madeleine T.
 Dick, Ralph H.
 Dick, William K.
 Dickerman, Mrs. Wm. C.
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 Dickey, Charles D., Jr.
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 Diedel, Henry R.
 Diefenthaler, Charles E.
 Dieffenbach, William H., M.D.
 Dieterich, Chas. F.
 Dill, Miss Mary A.
 Diller, Angela

- Dillingham, F. A.
 Dillon, Charles J., M.D.
 Dillon, Herbert Lowell
 Dilworth, Jos. R.
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 Dittrich, Hermann
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 Dix, John A.
 Dixon, Mrs. I. H.
 Dobbyn, William A.
 Dodd, Frederick G.
 Dodd, Miss Gertrude
 Dodge, Mrs. Arthur M.
 Dodge, Bayard
 Dodge, Francis P.
 Doelger, Charles P.
 Doelger, Frank G.
 Doherty, Mary
 Dolbey, Miss Sarah E.
 Dole, Miss Margaret
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 Dominick, Gayer G.
 Dominick, Mrs. George F., Jr.
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 Dommerich, L. W.
 Dommerich, O. L.
 Donaldson, Fred'k E.
 Donoho, Mrs. Ruger
 Donohugh, Mrs. Agnes C. L.
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 Dorrance, Rev. Samuel M.
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 Doubleday, Nelson
 Doughty, Edgar M.
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 Douglas, Rev. Winfred
 Douglas, Wm. Harris
 Douglass, Mrs. Chas.
 Douglass, Mrs. G. A.
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 Downer, William J.
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- Downey, John I.
 Dows, David
 Dows, Mrs. David
 Doying, Arthur Simeon
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 Draper, George
 Draper, Mrs. William K.
 Draper, Mrs. Wm. P.
 Drayton, J. Coleman
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 Drummond, Isaac Wyman
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 DuBois, Mrs. Arthur M.
 DuBois, Eugene
 DuBois, Mrs. Matthew B.
 DuBosque, F. L.
 Dudley, Mrs. Frank A.
 Duell, Major Holland S.
 Duffy, Rev. Francis P., D.D.
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 Duncan, Frederick S.
 Duncan, Stuart
 Duncan, Wm. A.
 Dunham, Mrs. Carroll
 Dunham, Mrs. Edward K.
 Dunkak, Henry
 Dunlop, E. A.
 Dunn, Henry E.
 Dunne, Mrs. Finley Peter
 Dunning, Henry S., M.D.
 Dunning, Dr. William B.
 du Nouy, Mrs. Pierre
- Lecomte
 Dupee, Charles
 du Pont, Henry F.
 Durkee, Eugene W.
 Durkee, Richard P. H.
 Durlach, Theresa Mayer
 Dustin, Charles W.
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 Dutcher, Malcolm B.
 DuVal, Mrs. Clive L.
 Du Val, Guy
 Duvall, William C.
- Dwight, Col. A. S.
 Dwight, Jonathan, M.D.
 Dwight, P. D.
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- Eager, Ernest W.
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 Earle, Ellis P.
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 Eaton, Cyrus S.
 Eaton, Mrs. Frederick H.
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 Ecker, F. H.
 Eckstein, Alfred
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 Eddy, Wm. H.
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 Edgell, George Harold
 Edie, Richard, Jr.
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 Ehrich, Mrs. Jules S.
 Ehrmann, Mrs. E.
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 Eimer, August
 Eimer, Walter R.
 Einstein, I. D.
 Eising, Dr. Eugene H.
 Eisman, Max
 Eisner, William J.
 Eldridge, Lewis A.
 Elkan, Benno
 Elkus, Abram I.
 Elkus, Mrs. Abram I.
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 Elliott, Howard
 Elliott, William, Jr.

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Endicott, William

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Ewing, George R. M.
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Fabbri, Ernesto G.
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Fahnestock, William
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Fairchild, S. W.
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Feldman, Herman
Fellman, E.
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Ferry, Mansfield

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Feustman, L. P.
Fichtel, Frederic
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Field, Henry
Field, Wm. B. Osgood
Field, Mrs. Wm. B. Osgood
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Filley, Oliver D.
Fink, E. C.
Finn, Mrs. J. A.
Finn, Mrs. James Wall
Fiach, Gustav G., M.D.
Fischer, Hermann, M.D.
Fischer, T. Tasso
Fish, Erland F.
Fisher, Howell
Fisher, Samuel H.
Fisher, Walter G.
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Fitzpatrick, Frank J. E.
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Flanagan, Mrs. Chas. A.
Flanagan, John R.
Flanigan, Horace
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Fleitmann, H. C.
Fleitmann, William

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Fleming, Stephen B.
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Fletcher, Henry
Flexner, Mrs. Simon
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Foot, Sandford D.
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Forsch, Mrs. F.
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Fosdick, Raymond B.
Foshay, P. Maxwell

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 Frank, Mrs. Harold
 Frank, Jerome W.
 Frank, Joseph S.
 Frank, Mrs. Lawrence
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 Franke, Mrs. Albert
 Franke, Julius
 Frankel, D. J.
 Frankel, Herbert
 Frankel, Jacob L.
 Franken, Sigmund W. A.,
 D.D.S.
 Frankenberg, Henry E.
 Frankenberg, Werner V.
 Frankenstein, Edwin
 Frankfeld, B.
 Franklin, George S.
 Franklin, Walter S.
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 Fraser, Mrs. C. D.
 Fraser, Miss Jane G.
 Fraser, Miss J. K.
 Fraser, Miss S. Grace
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 Freedman, Leo
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 Freeman, Halstead G.
 Freeman, Herbert C.
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 Frelinghuysen, P. H. B.
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 French, Mrs. Daniel C.
 French, Fred F.
 Frese, Fred
 Frew, Walter E.
 Frew, Mrs. William N.
 Fréy, Arthur G.
 Fried, Dr. Gustav A.
 Friede, Sydney A.
 Friedlander, Louis
 Friedlander, Victor
 Friedman, Henry M.
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 Frissell, Miss Leila S.
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 Frothingham, Mrs. Randolph
 Frothingham, Robert
 Frothingham, William I.
 Frueh, Mrs. Alfred J.
 Fuerst, W. F.
 Fuld, Felix
 Fuld, Henry
 Fulle, Chas. A.
 Fulle, John H.
 Fuller, Mrs. Eugene
 Fulton, John H.
 Fulton, Robert Edison
 Funke, Herbert F. L.
 Gaillard, Mrs. Wm. D.
 Galban, Eugenio
 Gale, Mrs. Thomas K.
 Gallatin, Albert
 Gallatin, Mrs. Albert
 Gallatin, Goelet
 Gallowhur, W. G.
 Gamble, James N.
 Gammell, Arthur A.
 Gammell, R. H. Ives
 Gans, Howard S.
 Gans, Nathan
 Gantz, Aaron
 Gardin, John E.
 Gardner, W. A.
 Garfunkel, Aaron
 Garrard, Miss Margaret H
 Garrett, Miss Laura B.
 Garrett, Mrs. Thos., Jr.
 Garrison, Mrs. E. E.
 Gartland, George E.
 Garvan, Mrs. F. P.
 Garver, John A.
 Gaston, Wm. G.
 Gatti-Casazza, Giulio
 Gavin, Robert O.
 Gawtry, Lewis B.
 Gay, William O.
 Gaylord, Irving C.
 Geer, Francis H.
 Geer, Robert C.
 Geer, Walter
 Geier, Mrs. Frederick A.
 Geigerman, Charles
 Geller, Frederick
 Gerdau, Mrs. Otto
 Gerrish, Frank Scott
 Gerry, Robert L.
 Gerster, John C. A.
 Gerster, Mrs. A. G.
 Gibb, Mrs. H. E.
 Gibb, Mrs. Walter
 Gibb, Dr. W. Travis
 Gibson, Miss Florence Wier
 Gibson, W. Frazer
 Gifford, E. Garfield
 Gifford, Walter S.
 Gilbert, Miss Ellen G.
 Gilbert, Mrs. M. B.
 Gilchrist, George R. E.

Gill, Kermod F.
 Gillette, Curtenius
 Gillespie, Samuel H.
 Gilman, Samuel P.
 Gilsey, Margaret
 Gimbel, Mrs. Bernard F.
 Gintzler, Morris
 Girden, B. B.
 Given, Wm. B., Jr.
 Gladding, J. R.
 Gladding, Nelson Augustus
 Glave, Mrs. G. Y.
 Glazier, Henry S.
 Gleason, Herbert P.
 Glenn, John M.
 Glines, E. Stanley
 Glokner, Edward O. A.
 Gluck, Mrs. Edward
 Glyn, W. E.
 Goddard, Conrad G.
 Goddard, Mrs. Morrill
 Goddard, Ralph
 Godfrey, Mrs. E. D.
 Godley, George McMurtrie
 Goetchius, Mrs. J. M.
 Goetz, Mrs. Joseph Addison
 Goldan, S. Ormond, M.D.
 Goldman, Albert
 Goldman, Alfred L.
 Goldman, Julius
 Goldmann, Nathan
 Goldmark, Mrs. Emil
 Goldsmith, Alfred N.
 Goldsmith, Frederick
 Goldsmith, Mrs. H. B.
 Goldsmith, James A.
 Goldsmith, Mrs. Maurice
 Goldstone, Abraham L.
 Goldwasser, I. Edwin
 Goldwater, Henry
 Golwynne, Henry A.
 Good, Dr. Robert
 Goodenough, Robert J.
 Goodfriend, Jacob
 Goodfriend, Meyer
 Goodhue, Chas. E.
 Goodwin, Walter L.
 Gordon, Fred W.

Gordon, George B.
 Gordon, Walter R.
 Gordon, Mrs. Wm. S.
 Gossler, Mrs. Philip G.
 Götberg, Miss Anna S.
 Gottgetreu, Wm.
 Gottheil, Mrs. Paul
 Gotthold, Arthur F.
 Gould, Charles A.
 Gould, Edwin
 Gould, Harry
 Gould, Horace S.
 Gould, Lyttleton B. P.
 Gove, Marguerite
 Grace, Mrs. L. A.
 Graham, Allen J.
 Graham, Charles V.
 Graham, Dr. John C.
 Grandin, George Wilbert
 Grant, Adolph
 Grant, De Forest
 Grant, E. R.
 Grasselli, C. A.
 Gratz, Anderson
 Gratz, Frank W.
 Graves, Henry, Jr.
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 Gray, Albert Z.
 Gray, Arthur R.
 Gray, Henry G.
 Gray, Prentiss N.
 Graydon, Mrs. Clendenen
 Greeff, Bernhard, Jr.
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Borland

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 Greenbaum, Fred H.
 Greenbaum, Lawrence S.
 Greenhut, Benedict J.
 Greening, Alfred C.
 Greenough, William Bates
 Greenough, Mrs. Wm.
 Greenwald, Isidor
 Greer, Louis M.
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 Greims, Mrs. Herbert
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Spencer

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 Grigg, Harry K.
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 Grinnell, E. Morgan
 Grinnell, Dr. Robt. S.
 Griscom, Lloyd C.
 Griswold, Wm. E. S.
 Groskin, Mark
 Gross, James S.
 Gross, Moritz
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 Howard, M.D.
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 Guernsey, Miss Ruth
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 Gude, Edward C.
 Guggenheim, B.
 Guggenheim, Simon
 Guggenheim, Mrs. Simon
 Guggenheim, William
 Guggenheimer, Mrs. J. Caesar
 Guillaume, Jules A.
 Guinzburg, A. M.
 Guinzburg, Mrs. Victor
 Guiterman, Percy L.
 Gulick, Archibald A.
 Gunari, Andrew P.
 Gushee, R. A.
 Guthrie, William B.
 Gutman, J. W.
 Guye, C. H.
 Gwinn, Ralph W.
 Haas, Miss Edith
 Haas, Sidney V., M.D.
 Hackett, Frank S.
 Hage, John D.
 Hague, Miss Marian
 Haigh, George C.
 Haines, Charles D.
 Hale, Dr. Henry E.
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Hall, Esther Wadsworth
 Hall, George Gilman
 Hall, Henry B.
 Hall, Henry J. S.
 Hall, Julia R.
 Hall, William Webster
 Halle, Mrs. Stanley J.
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 Halsey, Frederick A.
 Halsey, Harold V. W.
 Halsey, Herbert D.
 Halsey, Robert H.
 Halsey, R. T. H.
 Hamann, Wm. A.
 Hamburger, Samuel B.
 Hamerschlag, Royal P.
 Hamersley, Louis Gordon
 Hamilton, Alexander
 Hamilton, Miss E. S.
 Hamilton, Geo.
 Hamilton, Mrs. Morgan
 Hamlin, Chauncey J.
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 Hammer, Dr. H. F.
 Hammerslough, Alexander J.
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 Hanauer, Jerome J.
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 Handy, H. H. S.
 Handy, Parker D.
 Hansen, Ferdinand
 Hanson, Henry Hall
 Harbeck, Mrs. J. R.
 Hard, DeCourcy L.
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 Hardin, William B.
 Hardinge, Mrs. H.
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 Hardy, Charles J.
 Hardy, Dr. Sarah Belcher
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 Hare, Mrs. Montgomery
 Hare, William
 Harlem Academy
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 Harmon, Mrs. Benedict

Harmon, Rawson B.
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 Harrington, Mary E.
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 Harris, Albert H.
 Harris, Chas. C.
 Harris, Geo. A.
 Harris, Mrs. Hayden B.
 Harris, Ida M.
 Harris, Madame Cecil
 Camille Martin
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 Harrison, Philip
 Harrower, Pascal R.
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 Hastings, Thomas
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 Hatcher, Arthur B.
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 Hauswirth, Dr. Louis
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 Havemeyer, H. O.
 Havemeyer, John F.
 Havemeyer, T. A.
 Haven, J. Woodward
 Hawkes, Eva
 Hawkes, Mrs. Forbes
 Hawkes, George Walter
 Hawkins, Mrs. Eugene D.
 Hawley, Mrs. Henry E.
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 Hayden, Warren S.
 Hayes, Carroll
 Hayes, Dr. Wm. Van Valzah
 Hayes, Mrs. Wm. Van Valzah
 Haynes, Miss Mary E. P.
 Haynes, W. deF.
 Hays, David S.
 Hayward, J. B.
 Hazard, Frederick Rowland

Hazard, Mrs. R. G.
 Hazen, George H.
 Healy, Edward M.
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 Heck, George C.
 Heckscher, Mrs. G. Maurice
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 Hegeman, Gerard C.
 Heide, Henry
 Heide, Henry, Jr.
 Heide, Herman L.
 Heide, Julius A.
 Heide, William F.
 Heilner, Julius
 Heilner, Mrs. Samuel
 Heiman, Dr. Jacob
 Heineman, Bernard
 Heinsheimer, Alfred M.
 Heisenberg, Karl
 Heller, Abraham A.
 Mott Heller, Samuel
 Hellman, Edgar A.
 Hellman, Henry
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Hymann, Everett B.
Heymann, Seymour E.
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Higginson, Rear-Admiral
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Hine, Lyman N.
Hine, Thomas A.
Hines, Walter D.
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Hoffman, F. Burrall, Jr.
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Holt, R. S.
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Hoyer, F.
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Hoyt, Geo. H.
Hoyt, Geo. S.
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Hoyt, Miss Virginia Scott
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Huber, Mrs. J. M.
Huddleston, Carrol H.
Hudson, Marjorie V. L.
Huffman, Dr. Otto V.
Hughes, Charles E., Jr.
Hughes, John C.
Huidekoper, Edgar
Hulswit, Frank T.

- Humphreys, Frederic E.
 Humphreys, Mrs. Geo. H.
 Hunt, Henry T.
 Hunt, Seth B.
 Hunt, Mrs. Thomas
 Hunt, W. Roger
 Hunter, Arthur M.
 Hunter, George Leland
 Hunter, Jeremiah
 Hunter, S. J.
 Hunter, Stephen C.
 Huntington, Mrs. Francis C.
 Huntington, Mrs. R. 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, Wm. A.
 Hutchins, A. S.
 Hutchins, Mrs. R. G.
 Hutzler, George H.
 Huyler, C. D.
 Huyler, David
 Huyler, Frank DeK.
 Hyatt, A. M.
 Hyde, A. Fillmore
 Hyde, Mrs. Augustus L.
 Hyde, Mrs. Clarence M.
 Hyde, Courtney
 Hyde, E. Francis
 Hyde, Miss Hazel
 Hyde, Seymour Worrall
 Hyman, Abraham, M.D.
 Hyman, Edwin C.
 Hymes, Richard
 Ihlseng, Dr. Magnus C.
 Ill, Edgar A.
 Imboden, Harry M.
 Ingalls, Mrs. F. Abbott
 Ingalls, Fay
 Ingalls, Roscoe C.
 Ingersoll, Mrs. Ernest
 Ingersoll, Jonathan
 Ingersoll, Mrs. Marion Crary
 Ingraham, Geo. L.
 Ingraham, Mrs. George
 Ingraham, Mrs. Phoenix
 Ingram, Ernest S.
 Inman, John H.
 Innes, O. G.
 Irons, Robert Hatfield
 Inslee, Edwin W.
 Irwin, William Fletcher
 Isaacs, Stanley M.
 Iselin, C. Oliver
 Iselin, Mrs. C. Oliver
 Iselin, Miss Georgine
 Iselin, Lewis
 Iselin, Mrs. William E.
 Iselin, Wm. E.
 Iselin, Wm. O'D.
 Isham, Phillips
 Isham, William B.
 Isham, Mrs. Wm. B.
 Ising, Charles Eugene
 Israel, Milton J.
 Jackson, Mrs. C. D.
 Jackson, Francis DeMilt
 Jackson, Mrs. Frederic W.
 Jackson, Frederick W.
 Jackson, Mrs. Percy
 Jackson, Robert A.
 Jackson, Samuel
 Jacobs, E. Louis
 Jacobus, John S.
 Jacoby, George W.
 Jaeckel, Albert F.
 Jaffray, Robert
 Jais, Jacob D.
 James, Ellerton
 James, Henry
 James, Mrs. Walter B.
 James, Mrs. Wortham
 Jameson, Mrs. Edwin C.
 Jamison, Dr. A. B.
 Jansen, Ed.
 Janvrin, Edmund R. P., M.D.
 Jarecky, Dr. Herman
 Jaretzki, Mrs. Alfred
 Jarvie, James N.
 Jarvis, N. S., M.D.
 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
 Jephson, George S.
 Jermain, Miss M. C.
 Jervey, Huger W.
 Jetter, J. Edward
 Jewett, George L.
 (In Memoriam)
 Jobling, James W., M.D.
 John, Robert
 Johnson, Mrs. Bradish
 Johnson, Evangeline B.
 Johnson, F. Elmer, M.D.
 Johnson, George B.
 Johnson, Gilbert H.
 Johnson, Leeds
 Johnson, Reginald M.
 Johnson, Mrs. S. Pitney
 Johnson, Thos. W.
 Johnson, Wm. C., M.D.
 Johnson, Mrs. Wm.
 Templeton
 Johnston, J. Herbert
 Johnston, Mrs. J. Herbert
 Johnston, Dr. Marius E.
 Jonas, Ralph
 Jones, Mrs. Adam Leroy
 Jones, A. H.
 Jones, Arthur J.
 Jones, Arthur W., Jr.
 Jones, Bassett
 Jones, Mrs. Cadwalader
 Jones, De Witt Clinton
 Jones, Mrs. Dwight A.
 Jones, Edwin Artimus
 Jones, Emily L.
 Jones, Francis C.

Jones, Frank Morton
 Jones, H. Bolton
 Jones, J. Frederick
 Jones, Mrs. Paul T.
 Jones, Samuel B.
 Jones, T. Catesby
 Jones, William B.
 Jones, W. Strother
 Joseph, Mrs. John A., Jr.
 Josephthal, Louis M.
 Judson, William D.
 Julian, R. L.
 Jungbluth, Karl

Kachurin, Philip
 Kahle, Mrs. Julie
 Kahn, Arthur J.
 Kahn, Dr. Morton C.
 Kahn, Otto H.
 Kahn, Dr. Robert Johnstone
 Kahn, Walter N.
 Kahrs, J. Henry
 Kahrs, W. H., M.D.
 Kalbfleisch, Franklin H.
 Kallman, Max S.
 Calvin, Nathan
 Kane, Mrs. De Lancey
 Kane, Miss Sybil Kent
 Kann, N.
 Karelsen, Frank E., Jr.
 Karsch, Bernard
 Kaskel, Max
 Kassing, Edwin S.
 Kastor, Adolph
 Kathan, Reid A.
 Kaufmann, Charles B.
 Kaufmann, Donald
 Kaufmann, Ernst B.
 Kaufmann, H. M.
 Kaufmann, Irma H.
 Kaufmann, Julius
 Kaufmann, Max
 Kaufmann, Mrs. M. J.
 Kaupe, Albert G.
 Kaye, Mrs. E. D.
 Kayser, Henry A.
 Keagey, Esther

Kean, Mrs. Hamilton Fish
 Kean, John
 Kean, Robert Winthrop
 Keech, Mrs. Frank Browne
 Keeler, Mrs. Charles Bradley
 Keen, Barton L.
 Keene, Charles S.
 Keep, C. H.
 Keigwin, Rev. Dr. A. Edwin
 Keith, Henry M.
 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, Mrs. R. S.
 Kelly, Charles P.
 Kemmerer, M. S.
 Kemp, Prof. James F.
 Kempner, Elias
 Kempner, Sigmund Marshall
 Kennedy, Dr. Harris
 Kennedy,
 Mrs. H. Van Rensselaer
 Kennedy, James J.
 Kennedy, Mrs. John S.
 Kennerley, Mrs. M.
 Kennerly, M. M.
 Kenney, Jane
 Kent, Edwin C.
 Kent, G. H.
 Kent, Peter Lorillard
 Kenyon, John N.
 Keppel, David
 Kern, William M.
 Kerr, E. Coe
 Kerr, John B.
 Kerr, John Clapperton
 Kerrison, Dr. Philip D.
 Kerrison, Mrs. Philip D.

Kessel, Leo, M.D.
 Keuffel, W. G.
 Kibbee, W. B.
 Kieger, Emil L.
 Killeen, Edward V.
 Kilner, S. E.
 Kilsheimer, James B., Jr.
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 Kimball, Edward A.
 Kimball, W. Eugene
 Kimbel, Henry
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 King, Herbert T.
 King, Miss Isabella C.
 King, James Gore
 King, Jerome A.
 Kingsbury, Miss Alice E.
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 Kingsford, Miss Margaret S.
 Kingsley, W. M.
 Kinney, Morris
 Kinney, Warren
 Kip, William F.
 Kip, W. Ruloff
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 Kirby, Sarah L.
 Kirchberger, M.
 Kirkpatrick, John
 Kiser, John W.
 Kissel, Mrs. G. E.
 Kissel, W. Thorn
 Kitchel, Allan F.
 Kittredge, George W.
 Kittredge, S. Dana
 Klee, Sigmund
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 Klein, Leo M.
 Kleinberger, François
 Klenke, William H.
 Klingenstein, Charles
 Kloh, Alphonse
 Klugman, Julius
 Knapp, Edward J.
 Knapp, Joseph P.
 Knapp, William Jared
 Knight, Mrs. J. P., Jr.
 Knoblauch, Geo. W.
 Knoedler, Roland F.

La Dow, Stanley V.
LaFarge, O. H. P.
Lagai, Dr. G.
Lage, Frederico
Lagemann, C.
Lagowitz, Miss H. L.
Lamarche, Mrs. Henry J.
Lamb, Dr. Albert R.
Lamb, Gilbert D.
Lambelet, Mrs. H.
Lambert, Adrian V. S.
Lambert, Alexander
Lambert, Samuel W.
Lambert, Vitus C.
Lamprecht, Theodore H.
Lancashire, Mrs. J. H.
Lanchner, Dr. S. H.
Landon, Francis G.
Landon, Henry Hutton
Landsman, Samuel M., M.D.
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Lane, James Warren
Lane, Melvin
Lane, Wolcott G.
Lange, Gustav, Jr.
Lange, Nancy C.
Langeloth, Mrs. Jacob
Langenberg, Carl H.
Langley, Mrs. William C.
Langmann, Mrs. G.
Langstadter, Aaron
Langzettel, Mrs.
Marion B. B.
Lanier, Reginald B.
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Lapham, Lewis H.
Lapsley, Anna Welsh
La Rosa, Carlos, Jr.
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Lathrop, Alanson P.
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
Lawrence, W. V.
Lawton, William W.
Layng, Mrs. Jas. D., Jr.
Lea, Charles M.
Leach, Mrs. Henry G.
Leach, Henry Goddard
Leale, Charles A., M.D.
Leary, Mrs. George
Leavitt, Mrs. Charles W.
Leavitt, Gordon
Leberman, Jacob
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LeBloas, Jean
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Lee, Mrs. Arthur
Lee, Charles H.
Lee, Mrs. Cornelius S.
Lee, Frederic S.
Lee, Ivy L.
Lee, J. W., Jr.
Lee, Dr. Marguerite T.
Lee, Samuel
Leewitz, Adolph
Le Fevre, C. R.
Lefferts, Mrs. Barent
Lefferts, Marshall C.
Legg, George
Lehmaier, James M.
Lehmaier, Mrs. Louis A.
Lehman, Arthur
Lehman, Harold M.
Lehman, I. Howard
Lehman, Irving
Leigh, R. Walter
Leland, Mrs. Amory
Lemp, Louis
Leo, Brother
Leon, Henry
Leonori, Charles L.
Lerner, Michael
Lerner, Samuel A.
Le Roy, Mrs. E. A.
LeRoy, Dr. Louis C.

- Lesser, Leon M., M.D.
 Lesser, Mrs. S. D.
 Lester, A. Edward
 Lester, George Bacon
 Levene, Alexander
 Levenson, Edward, D.D.S.
 Leventritt, David
 Levi, Mrs. Albert A.
 Levi, Mrs. Carl
 Levi, Emil S.
 Levi, George
 Levi, Philip J.
 Levison, Benno
 Levy, B. E.
 Levy, Edgar A.
 Levy, Ephraim B.
 Levy, John
 Levy, Louis S.
 Levy, Moe
 Levy, Willy
 Lewengood, Miss Helen
 Louise
 Lewis, Mrs. August
 Lewis, C.
 Lewis, Esther J.
 Lewis, Mrs. Eugene
 Lewis, Mrs. Frederic Elliott
 Lewis, John W., Jr.
 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
 Lichtenstein, Oscar R.
 Lichtenstein, Mrs. Paul
 Lieb, Charles C., M.D.
 Lieb, J. W.
 Lieber, Dr. Hugo
 Liebman, Mrs. Charles J.
 Liebmman, Samuel
 Lilienthal, Albert M.
 Lilienthal, Dr. Howard
 Lilienthal, Jos. L.
 Lillibridge, Harrison
 Limburg, Herbert R.
 Lincoln, Mrs. Lowell, Jr.
 Lincoln School of Teachers
 College, The
 Lindenmeyr, Fritz
 Lindley, Allen L.
 Lindsay, C. Seton
 Lindsey, Edward
 Lindsley, Henry D.
 Lion, Oscar
 Lippincott, Miss M. T.
 Lisman, Frederick J.
 Lissauer, Robert
 Lissberger, Miss Alma L.
 Lissberger, Milton L.
 Littauer, Lucius N.
 Little, Bascom
 Little, Mrs. Elliotte
 Littlefield, Chas. W.
 Litwin, Mrs. M. A.
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 Livermore, John Walton
 Livingston, Miss A. P.
 Livingston, Archibald R.
 Livingston, Henry S.
 Livingston, Louis
 Livingston, Philip
 Lloyd, Mrs. Francis G.
 Lobenstine, Mrs. Wm. C.
 Lobsenz, Jacob Munter, M.D.
 Lobsitz, Maurice
 Locke, Mrs. Robinson
 Lockwood, Dr. George Roe
 Loeb, C. M.
 Loeb, J.
 Loeb, Mrs. Morris
 Loeb, Mrs. William
 Loewenthal, Walter
 Loewi, Hugo V.
 Long, Miss Emilie O.
 Long, Fred. R.
 Loomis, C. C.
 Lorberblatt, Isaac
 Lord, Daniel M.
 Lorenz, Mrs. Leo
 Lorsch, Arthur
 Lorsch, Henry
 Louderback, Arthur E.
 Lough, W. H.
 Loughran, Robert L., M.D.
 Loundsbery, Richard
 Lovett, R. S.
 Low, Mrs. Clarence
 Low, Ethelbert I.
 Low, E. Herrick
 Low, Mrs. Seth
 Low, William Gilman, Jr.
 Lowenheim, Fredk.
 Lowenstein, Oscar
 Lowenstein, Solomon
 Lowndes, M. E.
 Lowrey, Mrs. G. C. W.
 Lowther, Christopher M.
 Lowther, George
 Ludington, Charles H.
 Ludlow, Mrs. Banyer
 Ludlum, Albert C.
 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
 Lundquist, Miss G.
 Luquer, Lea Shippen
 Lusk, Miss Anna H.
 Lusk, Graham
 Lustbader, Samuel Jr.
 Lybrand, William M.
 Lyeth, J. M. R.
 Lyeth, John C.
 Lyman, Grace Greenleaf
 Lyman, Robert H.
 Lynch, Mrs. John H.
 Lynch, W. J. Turner
 Lyons, Howard J.
 Maas, Milton A.
 Maabon, J. B.
 MacCracken, Mrs. George
 Gore
 MacCurdy, George Grant
 Macdonald, Rev. Wilson

- Macfarlane, Wm. M.
 Mack, Arthur C.
 Mack, Arthur J.
 Mack, Fred. A.
 Mack, Julian W.
 MacKay, John J.
 MacKee, Geo. M.
 Mackenzie, Kenneth K.
 Macleod, William P.
 MacMurray, C. F.
 Macy, W. Kingsland
 Madden, Jay
 Madden, William Jay
 Madeira, Percy G.
 Mager, F. Robert
 Mahin, John Lee
 Mainzer, Herbert R.
 Mainzer, Robert H.
 Mallet-Prevost, S.
 Mallory, Mrs. Charles
 Malone, L. Wm.
 Manchester, Percival
 Mandell, K.
 Mandlebaum, Dr. F. S.
 Manges, Dr. Morris
 Mansfield, Howard
 Mantle, J. G. C.
 Manville, H. Estelle
 Manz, Gustav
 Mapes, Eugene E.
 Marble, William A.
 Marbury, Miss Elisabeth
 Marckwald, A. H.
 Marcus, B. K.
 Marcus, Samuel
 Marcuse, Alexander J.
 Marcuse, Bernhard
 Margret, Sister M.
 Marion, Pierce
 Markle, John
 Markle, Mrs. John
 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, Mrs. Grinnell
 Martin, Mrs. J. P.
 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.
 Masters, Francis R.
 Masters, Sarah W.
 Mastin, Mrs. J. Edward
 Mather, Samuel
 Mathesius, Fredk., Jr.
 Matheson, Wm. J.
 Mathews, Dr. Frank S.
 Mathewson, Charles E.
 Maxwell, George T.
 Maxwell, Henry L.
 Maxwell, Howard W.
 May, Sir George
 May, George O.
 Mayer, Joseph L. B.
 Mayer, Josh. W.
 Mayer, Dr. Leo
 Mayer, M. R.
 Mayer, Nelson B.
 Mayer, Mrs. R. A. de Lima
 Maynard, Robert W.
 Maxey, Mrs. Thomas S.
 McAdoo, William
 McAfee, John Knox
 McAleenan, Joseph A.
 McAlpin, B. B.
 McAlpin, Dr. D. H.
 McAlpin, Kenneth R., M.D.
 McBride, Mrs. Herbert
 McBride, Thomas J.
 McBride, Wm. M.
 McCafferty, Lawrence K.
 McCagg, Louis B.
 McCall, John C.
 McCall, Leo H.
 McCarthy, J. M.
 McCarty, Harry C.
 McClure, Samuel G.
 McComas, The Rev. Jos. P.
 McCready, Robert L., M.D.
 McCook, Philip J.
 McCormick, Miss Parker
 McCourt, James
 McCrea, W. S.
 McCreery, Henry Forbes
 McCulloh, Charles S.
 McCulloh, James S.
 McCurdy, Robert H.
 McCutchen, Chas. W.
 McDonald, C. Eric W.
 McDuffie, Marshall William
 McElheny, Victor K., Jr.
 McFadden, Mrs. W. A.
 McFarland, Warren C., M.D.
 McGinley, J. R.
 McGraw, Stanley D.
 McGregor, Robert
 McIlhenny, E. A.
 McIlvaine, Tompkins
 McIntyre, John G.
 McKay, R. G.
 McKee, Mrs. Robert T.
 McKelvey, Charles W.
 McKelvey, J. J.
 McKelvy, Robert
 McKenney, Henry P.
 McKeown, Matilda J.
 McKernon, Dr. Jas. F.
 McKim, John A.
 McKim, Le Roy
 McKinley, Lindsay P.
 McKnight, Charles
 McKune, Clarence S.
 McLain, F. J.
 McLane, Mrs. Allan, Jr.
 McLane, Miss Sophie
 Hoffman
 McLane, Thomas S.
 McLaren, W. A.
 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.
 McPherson, Mrs. W. S.
 McRoberts, Samuel
 McWilliams, Mrs. Josephine
 Mead, Carl A.
 Mead, Charles N.
 Mead, Mrs. E. Spencer
 Mead, G. W.
 Mead, Herbert, Jr.
 Mean, Mrs. W. G.
 Meckel, Mrs. E.
 Meeker, Henry E.
 Meeks, Howard V.
 Meigs, Mrs. Ferris J.
 Meinhard, Morton H.
 Meirowitz, Dr. Philip
 Meister, Albert
 Melcher, John S.
 Mellen, Chase
 Meloy, Andrew D.
 Melville, Ward
 Mendes, George A.
 Mendes, Henry E.
 Menke, William
 Menken, Mrs S. Stanwood
 Mergentime, Mrs. Charles
 Merle-Smith, Van S.
 Merle-Smith, Mrs. Wilton
 Merriam, Edwin W.
 Merriam, Henry F.
 Merrihew, George W.
 Merrill, Edwin G.
 Merrill, John Lenord
 Merritt, Dr. Arthur Hastings
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 Metcalf, Mrs. Walter
 Willson
 Metcalfe, Henry
 Metzger, David
 Meyer, Arthur S.
 Meyer, Mrs. Eugene, Jr.

Meyer, Felix
 Meyer, Harry H.
 Meyer, J. Edward
 Meyer, Dr. Julian J.
 Meyer, Max
 Meyer, Robert B.
 Meyers, Mrs. Clare Florence
 Meyers, Edwin L.
 Mezes, S. E.
 Michalis, C. G.
 Middlebrook, Frederic J.
 Migel, J. A.
 Milbank, Albert G.
 Millard, William J.
 Miller, Mrs. Alice A.
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 Miller, Mrs. Byron D.
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 Miller, Clifford L.
 Miller, Mrs. Henry Wise
 Miller, Mrs. H. R.
 Miller, Dr. James Alexander
 Miller, J. E.
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 Miller, Nathan J.
 Miller, Mrs. Roswell, Jr.
 Miller, Simon
 Miller, Spencer, Jr.
 Miller, William W.
 Millett, Gardner W.
 Millett, Miss Mary G.
 Millett, Stephen C.
 Millhiser, Mrs. Clarence
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 Milliken, Seth M.
 Mills, Dr. Adelaide
 Mills, Frederic C.
 Milne, Clyde
 Miner, Mrs. Charles
 Miner, Edward G.
 Minford, Lewis W.
 Minot, G. W.
 Mitchell, Miss Addison
 Mitchell, A. M.
 Mitchell, C. E.
 Mitchell, Cornelius von E.
 Mitchell, Mrs. John Murray

Mitchell, Wesley C.
 Mitchell, Mrs. William
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 Moffat, G. B.
 Moffatt, Mrs. R. Burnham
 Moffit, Mrs. A. R.
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 Monaè-Lesser, Mozart
 Montgomery, A. Moore
 Montgomery, Carleton
 Montgomery, Charles S.
 Montgomery, Mrs.
 Henry Eglinton, 2d
 Montgomery, Mrs. Lettie D.
 Montgomery, Robert H.
 Montross, N. E.
 Moody, Prof. Herbert R.
 Moore, Major Barrington
 Moore, Benjamin
 Moore, Mrs. Casimir de R.
 Moore, E. A.
 Moore, Frederic P.
 Moore, Miss K. T.
 Moore, William A.
 Moore, Wm. S.
 Moot, Adelbert
 Moran, Chas.
 Morgan, Miss Anne
 Morgan, Majs. Charles
 Morgan, E. D.
 Morgan, Shepard A.
 Morgan, W. Forbes, Jr.
 Morgan, Wm. Fellowes
 Morgan, Mrs. Wm. Fellowes
 Morgan, William O. P.
 Morgenthau, Henry
 Morgenthau, Mrs. Henry
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 Morris, Joseph L.
 Morris, Lewis Spencer
 Morris, Louis M.
 Morris, Mrs. L. R.

- Morris, P. Randolph
 Morris, Ray
 Morris, Theodore Wilson
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 Morrison, I. D.
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 Morse, Perley
 Mortimer, Geo. T.
 Morton, Quincy L.
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 Moses, Mrs. Henry L.
 Mosle, A. Henry
 Mosle, Max. A.
 Mosman, Philip A.
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 Mosson, Isidore
 Motley, Jas. M.
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 Mott, Mrs. J. L.
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 Mott, Miss Marian
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 Mulford, Stockton
 Müller, Carl
 Müller, Mrs. Carl
 Muller-Schall, Fred.
 Mumford, William C.
 Mundy, Floyd W.
 Munn, Dr. John P.
 Munroe, Vernon
 Munsey, Frank A.
 Munson, C. W.
 Munson, S. L.
 Murphy, Charles F., Jr.
 Murphy, Deas, M.D.
 Murphy, Franklin
 Murphy, G. M.-P.
 Murphy, Henry Killam
 Murphy, James B.
 Murphy, Wm. C.
 Murray, F. W., M.D.
- Murray, J. Archibald
 Murray, R. D.
 Muschenheim, Fred. A.
 Myers, L.
 Myers, William S.
 Myers, Winter W.

 Nadelman, Elie
 Nadelman, Mme. Elie
 Nash, Leo
 Nathan, Mrs. Frederick
 Nathan, Harold
 Nathan, Dr. Philip W.
 Naumburg, Aaron
 Naumburg, Walter W.
 Necarsulmer, Henry
 Neeser, John G.
 Nehring, Jules
 Neilson, Raymond P. R.
 Nesbit, Wm.
 Nesmith, James
 Neugass, Isidore
 Neuhoof, Dr. Harold
 Neumoegen, M. L.
 Neustadt, Mrs. S.
 Newburger, Morton J.
 Newsom, William Monypeny
 Nichols, Mrs. Chas. Walter
 Nichols, C. W.
 Nichols, Edward T.
 Nichols, Edward T., 4th
 Nichols, Mrs. Edward T.
 Nichols, William B.
 Nicholson, John E.
 Nickerson, Hoffman
 Nicoll, Mrs. Benjamin
 Nicoll, Mrs. Fancher
 Nightingale, Miss Frances N.
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 Nolan, Mrs. John H.
 Nones, Walter M.
 Noonan, W. T.
 Norman, Mrs. Bradford
 Norris, Beverly Arden
 Norris, Charles
 North, George B.
 Northrop, Chas. P.
- Norton, Mrs. Charles D.
 Norton, Mrs. N. R.
 Norton, W. P.
 Noyes, D. Raymond
 Nuckols, Henry Wade
 Nugent, Frank L.
 Nute, Mrs. John W.
 Nusbaum, Mrs. Ferdinand

 Oakes, Geo. W. Ochs
 Oastler, Dr. F. R.
 Obermayer, Charles J.
 Obermeyer, Jos.
 O'Brien, Morgan J.
 Obrig, Mrs. Adolph
 Ochs, Adolph S.
 Offerman, John
 Ogden, Charles W.
 Ogden, Mrs. David B.
 Ogden, Geo. B.
 Ogle, Mrs. Ponsonby
 O'Gorman, Mrs. Richard
 Ohmes, Arthur K.
 Okey, Hazard
 Olcott, E. E.
 Oldroyd, Ida S.
 Olds, George S.
 Ollesheimer, Henry
 Olmsted, William Beach
 Olney, Elam Ward
 Olyphant, Robert
 Oman, Rear-
 Admiral J. W., U. S. N.
 O'Neil, Mrs. Matthew
 Opdycke, Mrs. Leonard E.
 Openhym, George J.
 Oppenheim, Laurent
 Oppenheimer, David E.
 Oppenheimer, Harry C.
 Oppenheimer, Julius
 O'Reilly, John B.
 Orr, William C.
 Orteig, Raymond
 Orvis, Mrs. Charles E.
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 Osborn, Earl Dodge
 Osborn, Mrs. Frederick H.

- Osborn, Mrs. William H.
 Osborn, Wm. H.
 Osterholt, Ehler
 Otheman, Mrs. Francis W.
 Otis, Charles
 Otis, Mrs. George L.
 Otis, Harold
 Otley, Martha M.
 Oudin, Lucien
 Outerbridge, Mrs. Adolph J.
 Overton, Frank
 Ovington, Charles K.
 Owens, Wm. E.
- Pace, Homer S.
 Pack, Mrs. Charles Lathrop
 Paddock, Mrs. Eugene H.
 Paddock, Mrs. Robert L.
 Paff, A. E. Merriman
 Page, Mrs. Arthur W.
 Page, F. Palmer
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 Pagenstecher, A., Jr.
 Pagenstecher, G.
 Paine, A. G., Jr.
 Paine, Charles J.
 Paine, Edward S.
 Paine, Mrs. George Eustis
 Painter, Dr. H. McM.
 Palmenberg, Emil T.
 Palmer, Edgar
 Palmer, Herman
 Palmer, Howard
 Palmer, Laura A.
 Palmer, Lowell M., Jr.
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 Palmer, S.
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 Alvin M., M.D.
- Pardee, Ario
 Pardoe, J. B., D.D.S.
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 Parish, Wainwright
 Park, Charles F., Jr.
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 Parker, A. W.
 Parker, John S.
- Parker, Junius
 Parker,
 Mrs. William Lincoln
 Parker, Winthrop
 Parks, Mrs. Elizabeth H.
 Parks, Elton
 Parodi, Dr. Teofilo
 Parson, Hubert Templeton
 Parsons, Chas. W.
 Parsons, Edgerton
 Parsons, Frank H.
 Parsons, Miss Gertrude
 Parsons, H. de B.
 Parsons, Mrs. Joseph
 Parsons, Miss M.
 Parsons, Schuyler L.
 Parsons, Wm. Barclay
 Parsons, Wm. Barclay, Jr.
 Parsons, W. U.
 Paskus, Benj. G.
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 Paton, Dr. Stewart
 Patterson, Henry S., M.D.
 Patterson, Joseph Read
 Patterson, M.
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 Patterson, Stuart H.
 Patterson, T. H. Hoge
 Patton, Mrs. J. B.
 Paul, John Gile
 Paul, John J.
 Paulding, Charles C.
 Payne, Wm. T.
 Payson, Charles S.
 Peabody, Lincoln R.
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 Peacock, Charles A.
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 Pearsall, Samuel
 Pearson, Mrs. Frederick
 Peck, Charles E.
 Peck, Charles H.
 Peck, E. Stuart
 Peck, Morton R., M.D.
 Peck, Wm. Halsey
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 Pedersen, Victor C., M.D.
- Peet, Geo. H.
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 Pell, H. Gallatin
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 Pell, Walden
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 Perkins, F. Curtis, Jr.
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 Perkins, Miss Hattie W.
 Perkins, James H.
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 Perry, Mrs. Louise M.
 Perry, Mrs. William A.
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 Mc-Clure
 Peters, Miss Isabel M.
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 Noroton
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 Phillips, W. Stanwood
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- Pickhardt, Carl
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 Rosenbaum, Sol. G.
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 Rothschild, Mrs. V. Sydney
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 Rowland, Thos.
 Rowley, H. S.
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 St. Dominic, Sisters of
 St. John, Fordyce B., M.D.
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 Sanborn, William A.
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 Sanders, John E.
 Sands, Mrs. B. Aymar
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 Sanford, Francis B.
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 Sarg, F. A.
 Saril, August
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 Schaefer, Geo. G.
 Schaefer, J. Louis
 Schaetzer, Carl
 Schall, W.
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 Scheel, Henry Van Riper
 Schefer, A. H.
 Schell, Miss Mary E.
 Schepp, Leopold
 Scheuer, Arnold L.
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 Schieffelin, Wm. Jay
 Schiffer, Jack W.
 Schippell, Carl F.
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 Schleussner, Philip
 Schley, Evander B.
 Schley, K. B.
 Schling, Max
 Schmelzel, James H.
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Charles Frederick
 Schmidt, Hans
 Schmitt, George
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 Schniewind, Heinrich, Jr.
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 Scholle, Howard A.
 Scholle, William D.
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 Schoonmaker, Herbert S.
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 Schüllinger, J.
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 Schuster, R.
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 Schwab, Mrs. H. C.
 Schwartz, H. J.

Schwarz, Arthur A.
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 Schwarz, Max
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 Schweitzer, Isidor S.
 Schweizer, Raymond J.
 Schwerdtfeger, Otto M.
 Schwob, Adolphe
 Scofield, Miss Marion
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 Scott, Mrs. Frank Hall
 Scott, Major R. T. M.
 Scott, Mrs. Russell
 Scott, William
 Scovill, Margaret
 Scoville, Herbert
 Scoville, Robert
 Scribner, Arthur H.
 Scribner, Charles
 Scripps, Miss E. B.
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 Scudder, Hewlett
 Scudder, Myron T.
 Scudder, Willard
 Scull, Chas. O.
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 Seabury, Miss Eugenia R.
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 Seaman, Joseph H.
 Seaman, Lloyd W.
 Seaman, Louis L., M.D.
 Searles, A. R.
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 Seasongood, Clifford
 Seasongood, Edwin A.
 Seaver, Benj. F.
 Seckels, Richard
 Seed, Miss R.
 Seeman, Carl
 Seeman, Fred. R.
 Seeman, Joseph
 Seidenberg, Otto
 Selig, Arthur L.
 Seligman, A. J.
 Seligman, Edwin R. A.
 Seligman, Eustace
 Seligman, George W.

Seligman, Jefferson
 Seligmann, George A.
 Seligsberg, Albert J.
 Seligsberg, Alfred F.
 Semken, Dr. George H.
 Semler, Geo.
 Serpell, Miss Alethea
 Seton, Alfred
 Seton, Henry
 Seward, J. Perry, M.D.
 Seymour, Henry T.
 Seymour, John S.
 Shailer, William G.
 Shallcross, Cecil F.
 Shameshman, Isaac B.
 Shapiro, Harry H., D.M.D.
 Shardlow, Miss Eliza
 Sharp, Mrs. W. G.
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 Shattuck, Frank G.
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 Shaw, Mrs. Wm. N.
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 Sheffield, Mrs. James R.
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 Sherman, Miss Corinne A.
 Sherwin, Mrs. A. L.
 Sherwood, Mrs. J. K. Ogden
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 Shields, William
 Shiman, Abraham
 Shipman, R. D.
 Shoemaker, Ernest
 Shoemaker, Henry W.
 Shonk, Herbert B.
 Shonnard, Mrs. Frederic
 Shreve, R. H.
 Shulof, Herman Humboldt
 Sicard, Montgomery H.
 Sichel, Mrs. Eugene A.
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 Sidenberg, Richard
 Sidenberg, William R.
 Siedenburg, R.,
 Siegel, Jacob
 Siegel, William

Siegman, Samuel M.
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 Sillocks, Mrs. Henry
 Silverstein, Al. M.
 Silverstein, Joshua
 Simmons, Chas. H.
 Simon, Alfred L.
 Simon, Franklin
 Simon, Horatio S.
 Simon, Leo L.
 Simon, R. E.
 Simon, Theo. A.
 Simons, Miss Kate R.
 Simonson, Miss Lucy C.
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 Skeel, Mrs. Roswell, Jr.
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 Skinner, Norton
 Skinner, William
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 Sloan, Russell R.
 Sloan, Samuel
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 Sloane, John
 Sloane, Wm. M.
 Slocum, H. Jermain, Jr.
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 Capt. Myles Standish
 Slocum, Thomas W.
 Sloss, A. M.
 Smadbeck, Arthur
 Smadbeck, Warren
 Smidt, Frank B.
 Smidt, Thos.
 Smiley, Daniel

- Smillie, James C.
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 Sperry, Eugene E.
 Sperry, Wm. M.
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 Swartwout, Richard H.
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| Van Sinderen, Howard | Wainwright, Mrs. J. Howard | Watrous, Harry W. |
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 Campbell, Karl
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 Carlisle, Donald
 Carlson, J. Edward
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 Van Winkle, Dr. J. O.
 Vaughan, Samuel
 Vaughn, R. G.
 Verrill, A. E.
 Versluys, Prof. Dr. J.
 Vestal, A. G.
 Vevers, Dr. G. M.
 Vibert, Charles W.
 Vick, Albert F. W.
 Vickery, Mrs. H. F.
 Vincent, Bishop Boyd
 Vogel, Felix A.
 Voigtlander, George
 Volkmann,
 Miss Mary-Gordon
 von Ditten,
 Miss Erika Wülfing
 von Geldern, Chas. E., M.D.
 Vonsen, M.
 von Vietinghoff, Dr. Karl
 Vorhies, Chas. T.
 Vorkink, Mrs. I.
 Wadsworth, Samuel
 Wadsworth, Samuel F.,
 M.D.V.
 Wagner, Samuel Tobias
 Waitt, Mrs. Clara Farmer
 Waldo, Edward H.
 Waldron, C. H.
 Waldron, L. R.
 Walker, Elda R.
 Walker, Harrington E.
 Walker, Hiram H.
 Walker, John Tempest
 Walker, Joseph R.
 Walker, Miss Lydia M.
 Walker, Mrs. R. A.
 Walker, Talbot C.
 Walker, Thaddeus
 Wall, Ashbel T.

- Wallace, Mrs. E. G.
 Wallace, Miss Enid
 Wallace, Florian D.
 Wallace, Herbert I.
 Wallace, Lindsay H.
 Wallace, Wm.
 Wallace, W. W.
 Walsh, Dr. Groesbeck F.
 Walsh, Maurice N.
 Walter, Prof. Otto T.
 Walters, L. L.
 Walton, Geo. W.
 Walton, W. J.
 Wampler, F. C.
 Ward, Rowland
 Warner, Mrs. I. De Ver
 Warren, Bentley W.
 Warren, Fiske
 Warren, George C.
 Warren, Manfred L.
 Warren, Samuel D.
 Washburn, C. Fred
 Washburne, A. C.
 Watson, Lucretia S.
 Watson, Thomas A.
 Wayman, W. O.
 Wayne, Arthur T.
 Weare, Mrs. Ely E.
 Webb, Gerald B., Jr.
 Webb, Roscoe J.
 Webb, Walter F.
 Weber, Miss Grete
 Weber, Louis
 Weber, Prof. Max
 Webster, Frederick S.
 Webster, Dr. Ralph W.
 Webster, Lieut. Wm. W.
 Weed, Rt. Rev. Edwin G.
 Weed, Lewis H.
 Weeks, Alanson
 Weeks, Sinclair
 Wehrle, Augustine T.
 Weis, Dr. Joseph D.
 Weis, Samuel W.
 Weisman, M.
 Weiss, Albert P.
 Welch, Andrew
 Welch, Ashbel
 Welch, Chas. W.
 Welch, H. K. W.
 Weld, Elizabeth F.
 Weld, Rev. George F.
 Weller, Stuart
 Welles, Robert
 Welling, John P.
 Wells, Capt. Chester, U.S.N.
 Wells, Daniel D.
 Wells, Edward P., 2d
 Welsh, Dr. Lilian
 Welsh, Robert F.
 Weniger, Dr. Wanda
 Wenner, Geo. D.
 Wenrich, Marion
 Wentworth, Frank W.
 Wernigk, Dr. R.
 West, Dr. Frederic Beall
 Westbrook, Stillman F.
 Westcott, W. R.
 Wetherill, Richard
 Wetherill, Richard B., M.D.
 Wetherill, Wm. Chattin
 Wetherill, William Henry
 Whalley, Miss Muriel E.
 Wheeler, Charles
 Wheeler, Deming
 Wheeler, Mrs. Samuel H.
 Wheeler, William H., 2d
 Wheelwright, Miss Mary C.
 Whelan, Ralph
 Whelden, Roy M.
 Wheless, Wesley E.
 Wherry, Wm. B.
 Whitaker, F. B.
 Whittall, F. D.
 Whittall, Lawrence W.
 Whitby, Eddy
 White, Alain C.
 White, Andrew S.
 White, Mrs. Charles F.
 White, Dr. Charles J.
 White, Dudley
 White, Dr. E. Grace
 White, James C., M.D.
 White, Dr. Joseph A.
 White, Philip T.
 White, Ralston
 White, Wm. B.
 White, Wm. Henry
 Whiting, Adrian P.
 Whiting, Dr. Henry A.
 Whiting, Mrs. Samuel R.
 Whiting, Willard C.
 Whitman, Gerald
 Whitman, Hendricks H.
 Whitmarsh, Martha S.
 Whitnall, Harold O.
 Whitney, David C.
 Whitney, Frederick A.
 Whitney, Mrs. Harwood Otis
 Whitney, Oscar C.
 Whitney, Willis R.
 Whittemore, Harris
 Whittle, W. O.
 Whitwell, Frederick S.
 Wickersham, James
 Wickstrom, Miss Ruth
 Wiesen, Thomas F.
 Wiest, Carrel
 Wightman, Henry Nicoll
 Wilberding, J. B.
 Wilcox, Claude S.
 Wilcox, Edwin J.
 Wilcox, Walter D.
 Wilder, Gerrit P.
 Wilder, Harris H.
 Wilder, S. H.
 Wiley, Lena C.
 Wilharm, Fred. C.
 Wilkinson, Mrs. Henry L.
 Will, George F.
 Will, Louis
 Willard, Dr. Bradford
 Willard, Frank C.
 Wilcox, Prof. Mary A.
 Willetts, Ernest W., M.D.
 Willey, Arthur
 Williams, Amory L.
 Williams, Mrs. C. S.
 Williams, David W.
 Williams, Prof. Edw. H., Jr.
 Williams, Ellison A.
 Williams, Francis H.
 Williams, Mrs. Geoffrey
 Williams, Henry P.

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|----------------------------|---------------------------|-------------------------|
| Williams, Dr. Herbert U. | Winson, J. W. | Wright, John S. |
| Williams, Ira A. | Winston, William O. | Wright, Thew |
| Williams, Mrs. J. Bertram | Winter, Dwight | Wülfing, Otto |
| Williams, Richard E. | Wislocki, George B., M.D. | Wülfing, Peter |
| Williams, Roger B. | Witcher, William | Wullen, Mrs. Hilda H. |
| Williams, S. P., Jr. | Wolcott, E. R. | Wurlitzer, Rembert |
| Williams, Wentworth | Wolverton, B. C. | Wyer, Samuel S. |
| Williamson, E. B. | Wood, Walter | Wynn, Henry G. |
| Williard, Lester R. | Woodford, R. H. | |
| Willits, Dr. I. Pearson | Woodring, Wendell P. | |
| Willock, J. Scott | Woodruff, Mrs. | Yanagida, Hikoji |
| Willoughby, David P. | Charles Albert | Yarnall, Charlton |
| Wilson, Charles Branch | Woods, Chas. M. | Yerkes, Robert M. |
| Wilson, Mrs. Etta S. | Woods, Edward A. | Yoder, I. T. |
| Wilson, H. E. | Woods, Robert S. | York, George W. |
| Wilson, Dr. J. Howard | Woodward, Lemuel Fox | Younger, C. H. |
| Wilson, Mountford S. | Woodwell, John | |
| Wilson, Robert, Jr., M.D. | Worcester, H. A. | |
| Wilson, Russell C. | Workman, W. H. | Zapffe, Carl |
| Windle, Ernest | Wright, A. B. | Zetek, James |
| Winkler, Albert J. | Wright, Albert Hazen | Zimmerman, John B. |
| Winn, Herbert J. | Wright, Mrs. Edward Clark | Zinsmeister, Mrs. Elsie |
| Winne, Dr. Charles K., Jr. | Wright, Mrs. Eva Edgar | Abrens |
| Winslow, Winthrop C. | Wright, Gifford K. | Zuno, Hon. José J. |



VI. MUNICIPAL AND STATE RELATIONSHIP INCORPORATION, CHARTER AND CONTRACT

AN ACT TO INCORPORATE THE AMERICAN MUSEUM OF NATURAL HISTORY Passed April 6, 1869

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

SECTION 1. John David Wolfe, Robert Colgate, Benjamin H. Field, Robert L. Stuart, Adrian Iselin, Benjamin B. Sherman, William A. Haines, Theodore Roosevelt, Howard Potter, William T. Blodgett, Morris K. Jesup, D. Jackson Steward, J. Pierpont Morgan, A. G. P. Dodge, Chas. A. Dana, Joseph H. Choate and Henry Parish, and such persons as may hereafter become members of the Corporation hereby created, are hereby created a body corporate, by the name of "The American Museum of Natural History," to be located in the City of New York; for the purpose of establishing and maintaining in said city a Museum and Library of Natural History; of encouraging and developing the study of Natural Science; of advancing the general knowledge of kindred subjects, and to that end of furnishing popular instruction.*

SEC. 2. Said Corporation shall have power to make and adopt a Constitution and By-Laws, and to make rules and regulations for the admission, suspension and expulsion of its members, and their government, the number and election of its officers, and to define their duties, and for the safe keeping of its property, and, from time to time, to alter and modify such Constitution, By-Laws, Rules and Regulations. Until an election shall be held pursuant to such Constitution and By-Laws, the persons named in the first section of this Act shall be, and are hereby declared to be, the Trustees and Managers of said Corporation and its property.

SEC. 3. Said Corporation may take and hold by gift, devise, bequest, purchase or lease, either absolutely or in trust, for any purpose comprised in the objects of the Corporation, any real or personal estate, necessary or proper for the purposes of its incorporation.†

SEC. 4. Said Corporation shall possess the general powers, and be subject to the restrictions and liabilities, prescribed in the Third Title of the Eighteenth Chapter of the First Part of the Revised Statutes, and shall be and be classed as an educational corporation.*

SEC. 5. This Act shall take effect immediately.

STATE OF NEW YORK, }
OFFICE OF THE SECRETARY OF STATE, } ss.:

I have compared the preceding with the original law on file in this office, and do hereby certify that the same is a correct transcript therefrom, and of the whole of said original law.

[L. s.] Given under my hand and seal of Office at the City of
Albany this fourteenth day of April, in the year one
thousand eight hundred and sixty-nine.

D. WILLERS, JR., *Deputy Secretary of State.*

*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.'

*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."

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 hundred 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 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,****

§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 Sunday, 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 parties, 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.*

SEAL
of the 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,

FREDERICK W. LOEW,
Register.

[SEAL.]

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 JANUARY 1, 1926

ARTICLE I

This Corporation shall be styled THE AMERICAN MUSEUM OF NATURAL HISTORY.

ARTICLE II

The several persons named in the charter, and such others as they may add to their number, which shall not exceed thirty in all at one time, and in addition, the Mayor, the Comptroller, and the President of the Department of Public Parks, of the City of New York, for the time being, *ex-officio*, shall be the Trustees to manage the affairs, property and business of the Corporation.

The elective members of the Board in office on November 23rd, 1925, shall hold their office until the expiration of their respective terms. Such elective members of the Board shall continue to be divided into five classes, which hereafter shall consist of six members each, to serve for five years after the election of each class respectively. The Board of Trustees at each annual meeting hereafter, or at an adjournment thereof, shall by ballot, by a majority vote of the Trustees present at the meeting, elect six Trustees to supply the places of the class whose term expires at that meeting; said newly elected Trustees to hold office for five years and until their successors are elected. In case of a vacancy in the Board, caused by death, resignation, disqualification, increase in the authorized number of Trustees or otherwise, the vacancy shall be filled by ballot, in like manner, by the Board of Trustees at any regular or special meeting, for the unexpired term. A trustee elected to fill a vacancy in a particular class shall hold office only until the expiration of the terms of such Trustees as originally composed such class. No person shall be eligible for election as Trustee unless his name shall be presented by the Nominating Committee at a regular or special meeting of the Board previous to the meeting at which his name shall be acted upon. Written notice of such election and the vacancy to be filled shall be sent to the Trustees at least one week prior to said meeting.

ARTICLE III

The Trustees shall meet regularly, on the first Monday after the second day of every January, on the first Monday of May, and on the second Monday of November, at an hour and place to be designated, on at least one week's written notice from the Secretary, and shall annually, at the regular meeting in January, elect the officers and committees for the ensuing year. They shall also meet at any other time to transact special business on a call of the Secretary, who shall issue such call whenever requested so to do, in writing, by five Trustees, or by the President, and give written notice to each Trustee of such special meeting, and of the object thereof, at least three days before the meeting is held.

ARTICLE IV

SECTION 1. The officers of said Corporation shall be a President, a First Vice-President, a Second Vice-President, a Treasurer and a Secretary, who shall be elected from among the Trustees. These officers shall be elected by ballot, and the persons having a majority of the votes cast shall be deemed duly elected. They shall hold their offices for one year or until their successors shall be elected.

SEC. 2. The Board of Trustees shall appoint each year, in such manner as it may direct, the following Standing Committees: an Executive Committee, an Auditing Committee, a Finance Committee and a Nominating Committee. These Committees are all to be elected from the Trustees, and the members shall hold office for one year or until their successors shall be elected.

The Board of Trustees shall also have authority to appoint such other committees or officers as they may at any time deem desirable, and to delegate to them such powers as may be necessary.

The Board of Trustees shall have power to appoint a Director who, acting under the authority and control of the President, shall be the chief administrative officer of the Museum; but shall not be a member of the Board. He shall hold office during the pleasure of the Board.

ARTICLE V

SECTION 1. The President shall have the general supervision, direction and control of the affairs of the Corporation, and shall preside at all the meetings of the Museum and of the Trustees.

In his absence or inability to act, the First or Second Vice-President shall act in his place, or in the absence of these officers, a Trustee appointed by the Executive Committee.

SEC. 2. The Secretary shall be present, unless otherwise ordered by the Board, at all the meetings of the Museum and Trustees, of the Executive Committee and such other Committees as the Board may direct. He shall keep a careful record of the proceedings of such meetings, shall preserve the seal, archives and correspondence of the Museum, shall issue notices for all meetings of the Trustees and various committees, and shall perform such other duties as the Board may direct.

The Board of Trustees shall have power to appoint an Assistant Secretary, who, under its direction, shall perform the duties of the Secretary in his absence or inability to act. The Assistant Secretary shall be an administrative officer of the Museum and shall act under the direction of the President or the Secretary. He shall hold office during the pleasure of the Board.

SEC. 3. The Treasurer shall receive and disburse the funds of the Museum. He shall report in writing, at each regular meeting of the Trustees, the balance of money on hand, and the outstanding obligations of the Museum, as far as practicable; and shall make a full report at the annual meeting of the receipts and disbursements of the past year, with such suggestions as to the financial management of the Museum as he may deem proper.

The Board of Trustees shall have power to appoint an Assistant Treasurer, who shall perform such duties as it may direct, and who shall hold office during its pleasure.

SEC. 4. The accounts of the Museum shall be kept at the General Office, in books belonging to it, which shall at all times be open to the inspection of the Trustees.

ARTICLE VI

The Executive Committee shall consist of nine Trustees, the President, the Secretary and the Treasurer *ex-officio* and six others, to be appointed each year in the manner provided in Article IV. They shall have the control and regulation of the collections, library and other property of the Museum; and shall have power generally to conduct the business of the Museum,

subject to the approval of the Board. Five members of the Committee shall constitute a quorum for the transaction of business.

ARTICLE VII

The Auditing Committee shall consist of three Trustees. They shall have the books of the Museum duly audited, at least once in six months, by an authorized public accountant to be selected by them.

ARTICLE VIII

The Finance Committee shall consist of five Trustees, the Treasurer *ex-officio* and four others to be elected each year in the manner provided in Article IV. They shall have general charge of the moneys and securities of the Endowment and other permanent funds of the Museum, and such real estate as may become the property of the Corporation, with authority to invest, sell and reinvest the same, subject to the approval of the Board of Trustees.

Three members shall constitute a quorum.

ARTICLE IX

The Nominating Committee shall be composed of three Trustees, to whom shall be first submitted the names of any persons proposed as candidates for election to membership in the Board of Trustees. The Committee shall report on such candidates from time to time, as it may deem to be for the interest of the Museum. A fortnight before the annual meeting they shall prepare and mail to each member of the Board of Trustees a list of the candidates for officers and Trustees to be balloted for at the said meeting.

ARTICLE X

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

ARTICLE XI

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

amended at any meeting of the Trustees by a vote of a majority of those present, after a month's notice in writing of such proposed amendment.

ARTICLE XII

The incorporators of The American Museum of Natural History shall be designated as Founders of the Museum.

Any person contributing or devising \$100,000 in cash, securities or property to the funds of the Museum may be elected a Member of the Endowment Class of the Museum.

Any person contributing or devising \$50,000 in cash, securities or property to the funds of the Museum may be elected a Benefactor of the Museum.

Any person contributing \$25,000 in cash, securities or property to the funds of the Museum may be elected an Associate Founder of the Museum who after being so elected shall have the right in perpetuity to appoint the successor in such associate foundership.

Any person contributing \$10,000 to the funds of the Museum may be elected an Associate Benefactor of the Museum, who after being so elected shall have the right in perpetuity to appoint the successor in such associate benefactorship.

Any person contributing \$1,000 to the funds of the Museum, at one time, may be elected a Patron of the Museum, who after being so elected shall have the right in perpetuity to appoint the successor in such patronship.

Any person contributing \$500 to the funds of the Museum, at one time, may be elected a Fellow of the Museum, who after being so elected shall have the right to appoint one successor in such fellowship.

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

Any person contributing \$200 to the funds of the Museum, at one time, may be elected a Life Member of the Museum.

Any person may be elected to the above degrees who shall have given to the Museum books or specimens which shall have been accepted by the Executive Committee, or by the President, to the

value of twice the amount in money requisite to his admission to the same degree.

ARTICLE XIII

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

ARTICLE XIV

No alterations shall be made in this Constitution, unless at a regular meeting of the Trustees, or at a special meeting called for this purpose; nor by the votes of less than a majority of all the Trustees; nor without notice in writing of the proposed alterations, embodying the amendment proposed to be made, having been given at a previous regular meeting.

BY-LAWS

REVISED AND AMENDED TO DECEMBER 31, 1924

I

If any Trustee shall accept a salary from this Corporation he shall thereby be disqualified for the time being from acting as a Trustee thereof; provided, that the Board of Trustees shall have power to suspend the operation of this law in any special case.

II

Any vacancies occurring in the membership of the several committees during the interval between the regular meetings of the Board of Trustees may be filled at a regular meeting of the Executive Committee, until the next meeting of the Board.

III

The regular meetings of the Executive Committee shall be held on the third Wednesday of each month, but special meetings may be held at any other time on a two days' call issued by order of the President, or at the request of three of its members.

IV

All bequests or legacies, not especially designated, and all membership fees, excepting Sustaining, Annual and Associate Membership fees, shall hereafter be applied to the *Permanent Endowment Fund*, the interest only of which shall be applied to the use of the Museum as the Board shall direct.

V

SECTION 1. No indebtedness (other than for current expenses) shall be incurred by any committee, officer or employee of the Museum, except as provided for in the Constitution.

SEC. 2. No bills shall be paid unless approved by the Director or the Executive Secretary, and countersigned by one of the following named Trustees: President, First Vice-President, Second Vice-President, or Treasurer.

SEC. 3. The accounts of the Museum shall be under the care of a Bursar, who, on recommendation of the President and the Treasurer, shall be appointed by the Board of Trustees and be

under its direction. He shall give such bonds for the faithful performance of his duties as the Board may direct, and shall hold office during the pleasure of the Board. The Bursar, acting under the direction of the President or Treasurer, shall be the official representative of the Treasurer at the Museum, and as such shall be the head of the Treasurer's office there.

VI

The Board of Trustees shall have power to appoint, on recommendation of the Director, a Superintendent of Building and such other officers as may be deemed necessary, who, acting under the instruction of the Director or the Executive Secretary, shall have charge of the construction, maintenance, alterations and repairs of the buildings, and shall be responsible for their sanitary condition. They shall hold office during the pleasure of the Board.

VII

The Board of Trustees shall have power to appoint a Registrar, who, acting under the instruction of the Director or Executive Secretary, shall inspect all incoming and outgoing shipments, and shall attend to the details of matters relating to customs.

VIII

Benefactors, giving \$50,000, are each entitled to 1 Subscriber's Ticket, 10 Complimentary Season Tickets and 10 Tickets for a single admission.

Associate Benefactors, giving \$10,000, are each entitled to 1 Subscriber's Ticket, 10 Complimentary Season Tickets and 10 Tickets for a single admission.

Patrons, giving \$1,000, are each entitled to 1 Subscriber's Ticket, 5 Complimentary Season Tickets and 10 Tickets for a single admission.

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

Life Members, giving \$100, are each entitled to 1 Subscriber's Ticket and 7 Tickets for a single admission.

Sustaining Members, paying \$25 yearly, are each entitled to 1 Subscriber's Ticket and 5 Tickets for a single admission.

Annual Members, paying \$10 yearly, are each entitled to 1 Subscriber's Ticket and 4 Tickets for a single admission.

Associate Members, paying \$3.00 yearly, are each entitled to 1 Subscriber's Ticket, admitting to the Members' Room, and 2 Tickets for a single admission; also to current copies of the Museum Journal and the Annual Report.

IX

The Board of Trustees hereby creates a class of honorary Members, without membership fee, to be designated as Corresponding Members. Upon recommendation of the Scientific Staff, any person interested in or actively engaged in scientific research may be elected by the Board of Trustees a Corresponding Member, such election being for a period of five years and subject to renewal. Corresponding Members shall be entitled to current numbers of *Natural History* and to a copy of such scientific publications of the Museum as they may desire for the prosecution of their researches.

NOTE.—A Subscriber's Ticket admits to the Members' Room, also to all Receptions and Special Exhibitions, and may be used by any member of the Subscriber's family.

The Single Admission Tickets admit the bearers to the Members' Room, and are issued to Subscribers for distribution among friends and visitors.

FOR THE CONSTRUCTION AND EQUIPMENT OF
THE SOUTHEAST WING AND COURT BUILDING
OF THE AMERICAN MUSEUM OF NATURAL
HISTORY

LEGAL ENACTMENTS OF 1921

BY THE BOARD OF ESTIMATE AND APPORTIONMENT

RESOLVED, By the Board of Estimate and Apportionment, that, pursuant to the provisions of section 169 of the Greater New York Charter, as amended by chapter 618 of the Laws of 1921, the Comptroller be and is hereby authorized to issue, in the manner provided by section 169 of the Greater New York Charter, serial bonds of The City of New York, in an amount not exceeding one million five hundred thousand dollars (\$1,500,000), at such rate of interest as the Commissioners of the Sinking Fund shall prescribe; the proceeds to the amount of the par value thereof to be used by the Department of Parks, Borough of Manhattan, for the construction and equipment of the southeast wing and court building of the American Museum of Natural History; the cost of general construction, estimated at approximately one million three hundred thousand dollars (\$1,300,000), to be financed by an issue of serial bonds, the principal thereof to mature in equal annual installments within a period not exceeding forty (40) years; the cost of plumbing, heating and ventilating, and electric work and fixtures, estimated at approximately one hundred and ninety thousand dollars (\$190,000), to be financed by an issue of serial bonds, the principal thereof to mature in equal annual installments within a period not exceeding fifteen (15) years; and the cost of furniture and equipment, estimated at approximately ten thousand dollars (\$10,000), to be financed by an issue of serial bonds, the principal thereof to mature in equal annual installments within a period not exceeding ten (10) years; said apportionment of the costs to be subject to modification if necessary, upon the awarding of the contracts for the several portions of the work; provided, however, that no encumbrance by contract or otherwise shall be made against these authorizations, nor shall bids upon contemplated contracts be advertised for until after approval by the Board of Estimate and Apportionment or its duly authorized representative of such expenditure, or of the plans, specifications, estimates of cost and forms of such contracts, nor shall any architect, engineer, expert or departmental employee be engaged or employed as a charge against such authorization, except after approval by said Board of such employment and of the fee or wage to be paid by preliminary and final contract voucher or budget schedule, unless in the case of departmental employees such employment is in accordance with schedules approved by said Board.

A true copy of resolution adopted by the Board of Estimate and Apportionment, December 28, 1921.

JAMES MATTHEWS,
Assistant Secretary.

Amended by the Board of Estimate and Apportionment, August 22, 1924, to provide for Case Construction and Equipment in the Southeast Wing and Court Building.

APPROPRIATION AND EXPENDITURES THEREON TO
DECEMBER 31, 1925

Receipts:

By direct appropriation (December 28, 1921, C. D. P. 3 G. H.
and J)..... \$1,500,000.00

Expenditures (including Contracts and Architects' Fees):

| | |
|--|----------------|
| Contract No. 1, Construction and Electrical Work..... | \$1,107,685.61 |
| Contract No. 2, Plumbing..... | 24,977.33 |
| Contract No. 3, Ventilating and Humidifying | 19,600.00 |
| Contract No. 4, Steam Heating and Fume Removal..... | 68,897.74 |
| Architects' Fees..... | 36,071.31 |

\$1,257,231.99
6,691.75

Furniture and Equipment.....

\$1,263,923.74
236,076.26

Balance December 31, 1925.....

\$1,500,000.00



FOR EQUIPMENT ' AND CASE CONSTRUCTION OF THE AMERICAN MUSEUM OF NATURAL HISTORY

LEGAL ENACTMENTS OF 1922

BY THE BOARD OF ESTIMATE AND APPORTIONMENT

RESOLVED, By the Board of Estimate and Apportionment, that, pursuant to the provisions of section 169 of the Greater New York Charter, as amended, the Comptroller be and is hereby authorized to issue, in the manner provided by said section 169, serial bonds of The City of New York, in an amount not exceeding one hundred and ten thousand nine hundred and seventy-five dollars (\$110,975), 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 two (2) years, the proceeds to the amount of the par value thereof to be used by the Commissioner of Parks, Borough of Manhattan, for construction and equipment in the existing building of the American Museum of Natural History; provided, however, that no encumbrance by contract or otherwise shall be made against this authorization nor shall bids upon contemplated contracts be advertised for, until after approval by the Board of Estimate and Apportionment or its duly authorized representative, of such proposed expenditure or of the plans, specifications, estimates of cost and forms of such contracts, nor shall any architect, engineer, expert or departmental employee be engaged or employed as a charge against such authorization except after approval by said Board of such employment and of the fee or wage to be paid by preliminary and final contract, voucher or Budget schedule, unless in the case of departmental employee, such employment is in accordance with schedule approved by said Board.

A true copy of resolution adopted by the Board of Estimate and Apportionment, April 7, 1922.

JAMES MATTHEWS,
Assistant Secretary.

APPROPRIATIONS AND EXPENDITURES THEREON TO DECEMBER 31, 1925

Receipts:

| | |
|---|--------------|
| By direct appropriation (April 7, 1922, C. D. P 3 K.)..... | \$110,975.00 |
| By direct appropriation (Aug. 14, 1924, C. D. P. 3 K.)..... | 10,000.00 |
| | <hr/> |
| | \$120,975.00 |

Expenditures:

| | |
|---------------------------------|--------------|
| Mechanics' Payroll..... | \$31,096.00 |
| Contracts Paid and Awarded..... | 79,145.20 |
| Materials..... | 10,605.45 |
| | <hr/> |
| | \$120,846.65 |

| | | |
|--------------------------------|-------|----------|
| Balance December 31, 1925..... | <hr/> | \$128.35 |
|--------------------------------|-------|----------|

FOR THE CONSTRUCTION AND EQUIPMENT OF THE SCHOOL SERVICE BUILDING OF THE AMERICAN MUSEUM OF NATURAL HISTORY

LEGAL ENACTMENTS OF 1922

BY THE BOARD OF ESTIMATE AND APPORTIONMENT

RESOLVED, By the Board of Estimate and Apportionment, that, pursuant to the provisions of section 169 of the Greater New York Charter, as amended, the Comptroller be and is hereby authorized to issue, in the manner provided by said section 169, serial bonds of The City of New York, in an amount not exceeding five hundred and seventy thousand dollars (\$570,000), at such rate of interest as the Commissioners of the Sinking Fund shall prescribe, the principal thereof to mature in equal annual installments within a period not exceeding fifteen (15) years, the proceeds to the amount of the par value thereof to be used by the Commissioner of Parks, Borough of Manhattan, for the construction and equipment of a School Service Building in the southwest Court of the American Museum of Natural History; provided, however, that no encumbrance by contract or otherwise shall be made against this authorization nor shall bids upon contemplated contracts be advertised for, until after approval by the Board of Estimate and Apportionment, or its duly authorized representative, of such proposed expenditure or of the plans, specifications, estimates of cost and forms of such contracts, nor shall any architect, engineer, expert or departmental employee be engaged or employed as a charge against such authorization except after approval by said Board of such employment and of the fee or wage to be paid by preliminary and final contract, voucher or budget schedule, unless in the case of departmental employees, such employment is in accordance with schedules approved by said Board.

A true copy of resolution adopted by the Board of Estimate and Apportionment, April 21, 1922.

JAMES MATTHEWS,
Assistant Secretary.

APPROPRIATIONS AND EXPENDITURES THEREON TO DECEMBER 31, 1925

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..... | \$504,517.74 |
| Contract No. 2, Finishing Exhibition Halls..... | 38,979.00 |
| Contract No. 3, Plumbing..... | 36,909.70 |
| Contract No. 4, Steam Heating and Ventilating..... | 63,837.00 |
| Architects' Fees..... | 28,015.83 |
| | <u>\$672,259.27</u> |
| Balance December 31, 1925..... | 19,540.73 |
| | <u>\$691,800.00</u> |

Receipts:

| | |
|---|-------------|
| By direct appropriation (July 13, 1923, C. D. P. 3 M.)..... | \$42,000.00 |
|---|-------------|

Expenditures (including Contracts and Architects' Fees):

| | |
|---|--------------------|
| Contract No. 1, General 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, 1925..... | <u>\$1,919.00</u> |

FOR IMPROVEMENTS TO AND ADDITIONAL EQUIP- MENT FOR EXISTING BUILDING OF THE AMERICAN MUSEUM OF NATURAL HISTORY

LEGAL ENACTMENTS OF 1923

BY THE BOARD OF ESTIMATE AND APPORTIONMENT

RESOLVED, By the Board of Estimate and Apportionment, that pursuant to the provisions of section 169 of the Greater New York Charter, as amended, the Comptroller be and he is hereby authorized to issue, in the manner provided by said section 169 of the Charter, serial bonds of The City of New York in an amount not exceeding one hundred and forty-four thousand nine hundred and fifty dollars (\$144,950) at such rate of interest as the Commissioners of the Sinking Fund shall prescribe, the principal thereof to the amount of forty-five thousand four hundred and thirty-five dollars (\$45,435), to mature within a period not exceeding twenty-five (25) years, and to the extent of ninety-nine thousand five hundred and fifteen dollars (\$99,515) to mature within a period not exceeding fifteen (15) years, the proceeds to the amount of the par value thereof to be used by the Commissioner of Parks, Borough of Manhattan, for improvements to and additional equipment for existing building of the American Museum of Natural History; provided, however, that no expenditure by contract or otherwise shall be made against this authorization nor shall bids upon contemplated contracts be advertised for until after approval by the Board of Estimate and Apportionment, or its duly authorized representatives, of such expenditure, or of the plans, specifications, estimates of cost, and form of proposed contracts for said improvement; nor shall any architect, engineer, expert or departmental employee be engaged or employed as a charge against such authorization except after approval by said Board of such employment and of the fee or wage to be paid by preliminary and final contract, voucher or budget schedule, unless in case of departmental employees such employment is in accordance with schedules approved by said Board.

A true copy of resolution adopted by the Board of Estimate and Apportionment, June 29, 1923.

JAMES MATTHEWS,
Assistant Secretary.

APPROPRIATION AND EXPENDITURES THEREON TO DECEMBER 31, 1925

Receipts:

By direct appropriation (June 29, 1923, C. D. P. 3 P.) for improvements to existing building..... \$45,435.00

Expenditures:

| | | |
|---------------------------------|------------|-------------|
| Mechanics' Payroll | \$1,851.75 | |
| Contracts Paid and Awarded..... | 19,262.00 | |
| Materials..... | 1,161.09 | |
| | | \$22,274.84 |
| Balance December 31, 1925..... | | \$23,160.16 |

Receipts:

By direct appropriation (June 29, 1923, C. D. P. 3 Q.) for additional equipment for existing building..... \$99,515.00

Expenditures:

| | | |
|----------------------------------|-------------|-------------|
| Mechanics' Payroll | \$22,740.75 | |
| Contracts Paid and Awarded | 23,751.31 | |
| Materials..... | 9,425.01 | |
| | | \$55,917.07 |
| Balance December 31, 1925..... | | \$43,597.93 |

ADDITIONAL FOR CONSTRUCTION AND EQUIP-
MENT OF SCHOOL SERVICE BUILDING
(CODE C.D.P 3 L.)

ALSO FOR THE CONSTRUCTION OF INTERCOM-
MUNICATING 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 242.)

*Amended July 13, 1923, substituting serial bonds in place of corporate stock.

FOR THE REPLACEMENT OF TWO ELEVATORS IN THE AMERICAN MUSEUM OF NATURAL HISTORY

LEGAL ENACTMENTS OF 1923

BY THE BOARD OF ALDERMEN

RESOLVED, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of forty thousand dollars (\$40,000), the proceeds whereof to be used by the Commissioner of Parks, Borough of Manhattan, for the purpose of providing funds for the replacement of two elevators in the American Museum of Natural History; all obligations contracted for hereunder to be incurred on or before December 31, 1923.

Adopted by the Board of Aldermen June 12, 1923. Three-fourths of all the members elected voting in favor thereof.

Approved by the Mayor June 20, 1923.

Compared and Correct.

M. J. CRUISE,
Clerk.

FOR THE REPLACEMENT OF TWO ELEVATORS IN THE AMERICAN MUSEUM OF NATURAL HISTORY

LEGAL ENACTMENTS OF 1923

BY THE BOARD OF ESTIMATE AND APPORTIONMENT

RESOLVED, That the resolution adopted by the Board of Aldermen on June 12, 1923, and approved by the Mayor on June 20, 1923, requesting an issue of special revenue bonds in the sum of forty thousand dollars (\$40,000), the proceeds whereof to be used by the Commissioner of Parks, Borough of Manhattan, for providing funds for the replacement of two elevators in the American Museum of Natural History, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment; and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York charter, to issue special revenue bonds of The City of New York to an amount not exceeding forty thousand dollars (\$40,000), redeemable from the tax levy of the year succeeding the year of their issue; all obligations contracted for hereunder to be incurred on or before December 31, 1923.

A true copy of resolution adopted by the Board of Estimate and Apportionment, July 13, 1923.

JAMES MATTHEWS,
Assistant Secretary.

APPROPRIATION AND EXPENDITURES THEREON TO DECEMBER 31, 1925

Receipts:

By direct appropriation (July 13, 1923, R. D. P. 21 J.)..... \$40,000.00

Expenditures:

Contract Paid..... 35,155.00

Balance December 31, 1925..... \$4,845.00

FOR CONSTRUCTION AND EQUIPMENT IN THE
EXISTING BUILDING OF THE AMERICAN
MUSEUM OF NATURAL HISTORY, IN
ADDITION TO APPROPRIATIONS
ALREADY MADE FOR THE
PURPOSE
(CODE C.D.P. 3 K.)

LEGAL ENACTMENTS OF 1924

BY THE BOARD OF ESTIMATE AND APPORTIONMENT

RESOLVED, By the Board of Estimate and Apportionment, that, pursuant to the provisions of section 169 of the Greater New York Charter, as amended, the Comptroller be and is hereby authorized to issue, in the manner provided by said section 169, serial bonds of The City of New York, in addition to appropriations already made for the purpose, Code C.D.P. 3 K. in an amount not exceeding ten thousand dollars (\$10,000), 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 two years, the proceeds to the amount of the par value thereof to be used by the Commissioner of Parks, Borough of Manhattan, for construction and equipment in the existing building of the American Museum of Natural History; provided, however, that no encumbrance by contract or otherwise shall be made against this authorization nor shall bids upon contemplated contracts be advertised for, until after approval by the Board of Estimate and Apportionment or its duly authorized representative, of such proposed expenditure or of the plans, specifications, estimates of cost and forms of such contracts, nor shall any architect, engineer, expert or departmental employee be engaged or employed as a charge against such authorization except after approval by said Board of such employment and of the fee or wage to be paid by preliminary and final contract, voucher or Budget schedule, unless in the case of departmental employee, such employment is in accordance with schedule approved by said Board.

A true copy of resolution adopted by the Board of Estimate and Apportionment, August 14, 1924.

PETER J. MCGOWAN,
Secretary.

(Details of expenditure on page 241.)

NEW YORK STATE ROOSEVELT MEMORIAL

LEGAL ENACTMENTS OF 1924

CREATED BY 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 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.

§2. In such memorial, which shall hereafter be kept and maintained by the state of New York from funds hereafter appropriated, there shall be provided and installed such memorabilia relating to the life of Theodore Roosevelt as shall be selected and determined by the board of trustees constituted pursuant to the next section.

§3. The erection, construction and maintenance of such memorial shall be in charge and under the supervision of a board of state trustees consisting of not less than five nor more than seven citizens of the state of New York who shall be appointed by the governor and who shall serve for a period of three years, and until their successors are appointed. The governor and comptroller of the state shall be ex-officio members of such board in addition to those appointed. The trustees of such memorial shall receive no compensation for the performance of their duties under this act, but shall be paid their actual and necessary expenses incurred in connection therewith. Such trustees shall render an annual report of their operations to the legislature.

§4. The trustees shall select an architect or architects from a list admitted by the State Roosevelt Memorial Commission, and shall adopt plans for such construction on the recommendation of such commission.

§5. The state architect, acting under the instructions of the board of trustees, shall serve in a supervisory capacity during the erection of the memorial and shall make such inspections as are necessary for the proper construction of such memorial.

§6. The trustees shall have authority, within the limit of appropriations made therefor, to appoint and to employ such secretarial and other assistants as they may deem necessary to carry into effect the provisions of this act.

§7. The sum of two hundred and fifty thousand dollars (\$250,000), or so much thereof as may be necessary is hereby appropriated out of any moneys in the state treasury, not otherwise appropriated, to defray the expenses made necessary by this act during the year commencing July first, nineteen hundred and twenty-four. Such moneys shall be paid by the state treasurer on the warrant of the comptroller, upon vouchers verified by two members of the board of trustees and countersigned by the chairman.

§8. This act shall take effect immediately.

**FOR GENERAL CONSTRUCTION WORK IN EXISTING
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, 1925**

| | | |
|--|------------|-------------|
| Receipts: | | |
| By direct appropriation (May 1, 1925, C. D. P. 3 S.) | | \$37,500.00 |
| Expenditures: | | |
| Mechanics' Payroll..... | \$2,862.37 | |
| Contracts and Materials..... | 7,292.78 | |
| | | <hr/> |
| | | 10,155.15 |
| Balance December 31, 1925..... | | <hr/> |
| | | \$27,344.85 |

**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, 1925**

Receipts:

By direct appropriation (May 1, 1925, N. D. P. 3 R.) \$110,260.00

Expenditures:

| | | |
|-------------------------------|------------|-----------|
| Mechanics' Payroll | \$8,341.87 | |
| Contracts and Materials | 18,169.39 | |
| | <hr/> | 26,511.26 |

| | | |
|--------------------------------|--|-------------|
| Balance December 31, 1925..... | | \$83,748.74 |
|--------------------------------|--|-------------|

**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, 1925**

| | |
|---|--------------|
| Receipts: | |
| By direct appropriation (June 19, 1925, C. D. P. 3 T.)..... | \$150,000.00 |
| Expenditures: | |
| Materials..... | 7.77 |
| Balance December 31, 1925..... | \$149,992.23 |

FOR RENEWING AND RELOCATING THE SMOKE
STACK ON THE AMERICAN MUSEUM OF
NATURAL HISTORY
(CODE C.D.P. 23 G.)

LEGAL ENACTMENTS OF 1925

BY THE BOARD OF ESTIMATE AND APPORTIONMENT

RESOLVED, That the resolution adopted by the Board of Aldermen on July 7, 1925, and approved by the Mayor on July 21, 1925, requesting an issue of special revenue bonds in the sum of fourteen thousand dollars (\$14,000), the proceeds whereof to be used by the Commissioner of Parks, Borough of Manhattan, for the purpose of renewing and relocating the smoke stack on the American Museum of Natural History, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment; and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding fourteen thousand dollars (\$14,000) redeemable from the tax levy of the year succeeding the year of their issue; all obligations contracted for hereunder to be incurred on or before December 31, 1925.

A true copy of resolution adopted by the Board of Estimate and Apportionment, July 31, 1925.

JAMES MATTHEWS,
Assistant Secretary.

APPROPRIATION AND EXPENDITURES THEREON TO
DECEMBER 31, 1925

Receipts:

By direct appropriation (July 31, 1925, R. D. P. 23 G.) \$14,000.00

Expenditures:

By Contract Paid 11,990.00

Balance December 31, 1925 \$2,010.00

VII. PENSION AND INSURANCE

THIRTEENTH ANNUAL REPORT

OF THE

PENSION BOARD

OF

THE AMERICAN MUSEUM
OF NATURAL HISTORY

FOR THE YEAR 1925

OFFICERS AND MEMBERS OF THE PENSION BOARD

1925

Chairman

FELIX M. WARBURG

Vice-Chairman

RALPH W. TOWER

Treasurer

GEORGE F. BAKER, JR.

Secretary

GEORGE N. PINDAR

Trustee Members

F. TRUBEE DAVISON
WALTER B. JAMES

A. PERRY OSBORN
FELIX M. WARBURG

Employee Members

HARRY F. BEERS

GEORGE N. PINDAR

RALPH W. TOWER

Bursar

FREDERICK H. SMYTH

Counsel

LEWIS L. DELAFIELD

Consulting Actuary

S. HERBERT WOLFE

Medical Examiner

DANA W. ATCHLEY, M.D.

Service of Officers and Members of Pension Board

1913-1926

| | | |
|---------------------|-----------------------------------|-----------|
| Anderton, Walter P. | Medical Examiner | 1917-1918 |
| Atchley, Dana W. | " " | 1923- |
| Baker, Jr., Geo. F. | Treasurer | 1922- |
| Beers, Harry F. | Member of Board | 1913- |
| Davison, F. Trubee | " " " | 1924- |
| Davison, Henry P. | Treasurer | 1916-1921 |
| Delafield, Lewis L. | Counsel | 1913- |
| Hard, Anson W. | Member of Board | 1913-1915 |
| Iselin, Adrian | " " " | 1913-1923 |
| James Walter B. | " " " | 1916- |
| Lanier, Charles | Treasurer | 1913-1915 |
| Mackenzie, Geo. M. | Medical Examiner | 1916-1923 |
| Osborn, A. Perry | Member of Board | 1921- |
| Pindar, Geo. N. | " " " and Secretary | 1913- |
| Pyne, Percy R. | " " " | 1913-1920 |
| Smyth, Fred. H. | Bursar | 1913- |
| Tower, Ralph W. | Member of Board and Vice-Chairman | 1913- |
| Warburg, Felix M. | " " " " Chairman | 1913- |
| Wolfe, S. Herbert | Actuary | 1913- |

To the President and Trustees of The American Museum of Natural History and to the Subscribers to the Fund:

I have the pleasure to submit for your consideration the Thirteenth Annual Report of the operations of the Pension Fund and its financial statement for the fiscal year ending December 31, 1925.

THE progress of our Pension Fund for the past thirteen years may well be likened to that of a successful individual—it owes its success to having been able to overcome seemingly insurmountable difficulties and obstacles.

The origin and development of our Pension Plan are familiar facts to those who have long been connected with it as a Subscriber or an Administrator, but its personnel has such frequent changes that it is felt to be an opportune time to review its progress.

In 1910, Mr. Archer M. Huntington generously donated the sum of \$1,000. as a nucleus of a fund for the establishment of a Pension System for the benefit of the employees of the Museum. It was not, however, until 1913 that a Committee, appointed by President Osborn, composed of Employees and Trustees, presented for adoption, as a part of our corporate laws, the first set of Rules and Regulations.

For several years prior to 1913, and continuing to the present time, the desirability of a Pension Plan for workers in all their classifications has been the subject of discussion among public and private corporations, and our own Corporation, recognizing its duty to employees of long service, was among the first of similar institutions to adopt a plan which would provide against want for its aged workers. Among the arguments presented by the Employees' to the Trustees' Committee were a number which it is felt still are effective, i.e. (1) A Pension System attracts to museum employment persons of superior character, ability and industry and retains them in the service as long as their efficiency continues (2) It is a conscientious plan by which officials are relieved of the embarrassment of carrying superannuated employees who have proved their faithfulness and efficiency.

The Rules, then, as presented by the Employees' Committee to the Trustees, were the outgrowth and result of the patience, study and research of Messrs. H. F. Beers, J. B. Foulke, H. J. Langham, G. N. Pindar and F. H. Smyth, aided by Mr. Lewis L. Delafield, who freely gave the benefits of his legal knowledge to place in correct terminology the application of the Rules presented by those employees. In all of this work the Committee had the benefit of the actuarial advice of Mr. S. Herbert Wolfe.

It is interesting to note that the employees suggested and recommended that a joint contributory plan would be most desirable and the Trustees felt warranted in accepting their recommendations on this point after reading the arguments in favor of such a plan. In the main, the arguments presented were as follows: That a contributory system makes for independence on the part of the employee and prevents the separation of employees into classes. It was, of course, realized as time passed, that changed conditions and the operation of the Rules as drafted, would require alterations, and this has been done to the end that this year we have been operating under Rules that, with few exceptions, are felt to be as perfect in meeting our needs as any that could be formulated.

The pensioned employees will now receive more adequate annuities; the members of an employee's family are provided for in event of the disability or the death of their earning member. In general, we feel that an altogether equitable and effective Pension Plan is in operation. That the Plan is financially successful is best evidenced by the fact that from a \$1,000 endowment fund, established by Mr. Huntington, there was available at the end of 1924, a total invested fund of \$313,000, and this amount has been increased during the present year by \$46,000. With the exception of the \$1,000 first mentioned, the invested fund is composed entirely of the joint contributions of Employees and Corporation, together with the interest on sums previously invested. The details of the financial condition of the Fund are contained in the Treasurer's statement which is a part of this report.

The membership, which started with 230 employees in 1913, has now grown until it numbers 308 active subscribers, and there are being carried on the pension rolls nine former subscribing employees.

Your Pension Committee, from time to time, has called attention to the best means of securing health insurance. It has proposed

and effected a system of physical examinations for entrants; it has suggested periodical examinations for subscribers, and we have no hesitancy in reporting to you that these precautions have in great measure been productive of good results. It has been felt, in providing for these physical examinations, that the premature death of any subscriber or of any employee is not alone a direct loss to the immediate family or his associates, but it is an economic loss to the institution with which he has been connected and to the community at large. We, therefore, suggest that this elementary health insurance plan be extended, to the end that it be rendered more helpful to all.

In addition to reporting the general objects and workings of our Pension Fund, President Osborn has constituted a portion of your Committee with wide powers as a Welfare Board which, we have occasion to feel, has well proved the necessity for its creation and continued existence. In practice, it assists in securing medical treatment and hospital care for employees requiring it and has in other ways helped worthy employees. Through the generosity of interested friends of the Fund, hospital beds have frequently been placed at the disposal of employees who have had to undergo operations. In all this work the Committee has had the close cooperation of generous friends and, working quietly, has endeavored to perform effective service.

As a result of an inquiry regarding the annual cost of welfare work to the Museum, this seems an opportune time to offer a brief survey of the facts. At the present time the cost of this service to the Corporation through Pensions, Death Gratuities, Group Insurance and Welfare Work is less than three-fourths of one percent of our annual payroll. With a knowledge of the effectiveness with which the present Pension Plan is operating, the Trustees of the Corporation have recently been prompted heartily to endorse and agree that they and their successors will give full consideration to the obligations of the Fund and to the employees should need for such ever arise.

FELIX M. WARBURG,
Chairman.

New York, December 31, 1925.

STATEMENT OF MEMBERSHIP

1925

ACTIVE

| | | |
|---|-----|-----|
| Subscribing Employees, December 31, 1924..... | 299 | |
| New Subscribers, January 1-December 31, 1925..... | 39 | |
| | | 338 |
| Resignations..... | 27 | |
| Deaths..... | 3 | 30 |
| | | 308 |
| Membership, December 31, 1925..... | | 308 |

RETIRED

| | | |
|---|---|-----|
| Pensioned Employees, December 31, 1924..... | 7 | |
| Employees Pensioned during 1925..... | 4 | |
| | | 11 |
| Deaths during 1925..... | 2 | 9 |
| | | 317 |
| Total Membership December 31, 1925..... | | 317 |

STATEMENT OF PENSION ALLOWANCES

| Name | Yearly Amount | Date of Retirement | Period of Payment |
|--------------------------|---------------|--------------------|-------------------|
| H. Ernestine Ripley..... | \$464.00 | Jan. 1, 1919 | 16 years |
| George A. Young..... | 300.00 | Feb. 1, 1919 | 15 years |
| *Adam Hermann..... | 988.00 | Dec. 31, 1919 | Life |
| James Kenney..... | 470.28 | Sept. 1, 1922 | 18 years |
| A. E. Anderson..... | 300.00 | Jan. 1, 1923 | 20 years 9 mos. |
| **James McGovern..... | 458.62 | Sept. 1, 1923 | 17 years 3 mos. |
| George J. Beeth..... | 590.04 | Nov. 21, 1923 | 18 years 9 mos. |
| Brower Palmer..... | 1,012.08 | Jan. 1, 1925 | 23 years 3 mos. |
| Robert McAnuff..... | 805.00 | June 20, 1925 | Life |
| Otto Block..... | 510.00 | Nov. 1, 1925 | 15 years |
| Edward J. Yarrow..... | 1,104.00 | Nov. 1, 1925 | Life |

*Deceased Sept. 22, 1925.

**Deceased Jan. 4, 1925.

Deceased

CHARLES COLE

Charles Cole was born in Carlisle, New York, April 6, 1860. He came to the Museum in 1895 as a member of the Department of Heating and Lighting. During a long term of service, his faithful attention to his duties was greatly appreciated. Early in 1925 he began to suffer severely from chronic mastoids which became so acute that he was forced to enter a hospital. While there he developed an abscess on the brain and passed away May 30, 1925, after a short period of intense suffering. It is always difficult to replace a faithful, efficient and trusted employee such as Mr. Cole, and his loss will be deeply felt.

HENRY R. DODD

Henry R. Dodd was born in Ireland, July 4, 1852. He became a Museum employee in 1912. In January last, as the result of an accident, he fractured his hip. It was thought that he would recover in a short time, but to the great shock of his friends, he died very suddenly on January 16, 1925. The loss of Mr. Dodd was very deeply felt by all the members of the Museum whom he daily welcomed with his kindly smile and cheery words. He was possessed of an unusually bright and happy disposition and his sudden passing has left a great void in the ranks of his co-workers.

Deceased

ADAM HERMANN

Adam Hermann was born in Germany on August 25, 1848. In his early manhood he was trained at Yale University in the preparation and preservation of fossil specimens and records. He came to the Museum when the Department of Vertebrate Palaeontology was in its beginning and lived to watch the growth of its exhibition work from a small corridor display to the development of three great halls. Other museums have adopted Mr. Hermann's methods and a number of preparators were trained under his direction.

On December 31, 1919, after twenty-seven years of service, Mr. Hermann retired, with the hearty good wishes, not only of the Department, but of the entire Museum. It was with sincere sorrow that we learned of his death on September 22, 1925.

JAMES McGOVERN

James McGovern was born in Ireland, August 13, 1853. He came to the Museum in 1906 and quickly made a place for himself by the faithful performance of his duties and by his cheerful spirit. He continued work at the Museum until September 1, 1923, when, by reason of advancing years, he felt it wisdom to retire. His death on February 4, 1925, was sincerely mourned by his associates.

Deceased

LOUIS R. SULLIVAN

Louis R. Sullivan was born at Houlton, Maine, on May 21, 1892. He was graduated from Bates College in 1914, and later worked as a graduate student in zoology at Brown University. From there he came to the Department of Anthropology at the Museum. In 1920 Dr. Sullivan was chosen to make an anthropological survey of the Polynesian Islands. He spent eighteen months on the Islands and later prepared a memoir on "Marquesan Somatology." When Dr. Sullivan returned to the Museum in 1921, his health had begun to fail, so he took up a temporary residence in Tucson, Arizona. While there he made studies of the Mexican and Indian school children, later tabulating the results for publication. During the epidemic of influenza he became a victim of the disease and his health was permanently impaired. In all phases of his work Dr. Sullivan showed conspicuous ability and fine judgment. He was recognized in the Museum as a "quiet fellow, sane, clear-eyed, not afraid of work, with scholarly mind and a lot of native ability." His untimely death has created a distinct loss to the Museum and to the field of anthropology. He passed away at Tucson on April 23, 1925.



FINANCIAL STATEMENT
OF THE
PENSION FUND
OF THE
AMERICAN MUSEUM OF NATURAL HISTORY
1925

| | Invested Funds | | |
|----------------------|-----------------------|---------------|-------------------|
| | Par Value | Income | Book Value |
| Endowment Fund..... | \$1,258.37 | \$50.34 | \$1,140.39 |
| Investment Fund..... | 357,741.63 | 15,392.16 | 334,086.49 |
| | <hr/> | <hr/> | <hr/> |
| | \$359,000.00 | \$15,442.50 | \$335,226.88 |

PENSION FUND ACCOUNT

Receipts, 1925

| | | |
|--|-------------|-------------|
| Cash on hand January 1, 1925..... | | \$13,076.53 |
| Contributions of Subscribing Employees: | | |
| Deductions of 3% from Payrolls of | | |
| City Maintenance Account..... | \$7,973.56 | |
| General Account..... | 6,205.89 | |
| Morris K. Jesup Fund Account..... | 4,646.91 | |
| Special Funds Account..... | 409.31 | |
| Corporate Stock Account..... | 516.89 | |
| Museum Building Fund Account..... | 19.43 | |
| Incidental Account..... | 1.32 | |
| | <hr/> | |
| | \$19,773.31 | |
| Personal Payments of Subscribing Employees..... | 627.04 | |
| Interest on Deferred Contributions..... | .49 | |
| | <hr/> | |
| | | \$20,400.84 |
| Contributions of Board of Trustees: | | |
| To Equal Contributions of Subscribing Employees..... | 20,400.84 | |
| Return of Contributions (Previously Refunded)..... | 207.20 | |
| Interest on Repayment of Contributions and Interest..... | 4.75 | |
| Interest on Contributions (Refund)..... | 8.16 | |
| Income from Investment Fund..... | \$14,056.69 | |
| Income from Endowment Fund..... | 50.34 | |
| | <hr/> | |
| | 14,107.03 | |
| Interest on Credit Balances..... | 170.41 | |
| | <hr/> | |
| | | 55,299.23 |
| Bursar's Account..... | | 1,000.00 |
| | | <hr/> |
| | | \$69,375.76 |
| Examined and { A. PERRY OSBORN } Approved { F. TRUBEE DAVISON } <i>Auditing Committee</i> | | |

PENSION FUND ACCOUNT

Disbursements, 1925

| | | |
|--|------------|-------------|
| Return of Contributions..... | \$3,640.38 | |
| Interest on Contributions Returned..... | 220.38 | |
| | <hr/> | \$3,860.76 |
| Rules of 1913: | | |
| Service Pensions "A"..... | \$30.22 | |
| Service Pensions "B"..... | 9.41 | |
| Service Pensions "C"..... | 32.40 | |
| Service Pensions "E"..... | 37.20 | |
| Pensions in Event of Illness, Dismissal, etc..... | 35.05 | |
| Death Gratuities paid under Section 13..... | 473.64 | |
| Death Gratuities paid under Section 18..... | 1,089.49 | |
| | <hr/> | 1,707.41 |
| Rules of January 15, 1925: | | |
| Service Pensions "A"..... | \$2,987.02 | |
| Service Pensions "B"..... | 373.71 | |
| Pensions in Event of Illness, Dismissal, etc..... | 1,014.41 | |
| Death Gratuities paid under Section 13B..... | 3,817.96 | |
| Death Gratuities paid under Section 18, | | |
| Subdivision 1..... | 950.00 | |
| | <hr/> | 9,143.10 |
| Expenses..... | | 50.00 |
| | | <hr/> |
| | | 14,761.27 |
| Purchase of Securities. | | |
| Investment Fund..... | | 41,739.00 |
| Loan Account..... | | 1,000.00 |
| Cash on Hand, December 31, 1925: | | |
| Deposited with the United States Trust Company of | | |
| New York..... | 10,875.49 | |
| Deposited with the Colonial Bank (Bursar's Account)..... | 1,000.00 | |
| | <hr/> | 11,875.49 |
| | | <hr/> |
| | | \$69,375.76 |
| E. and O. E. | | |
| NEW YORK, December 31, 1925. | | |

PENSION FUND—SPECIAL FUNDS ACCOUNT**Receipts, 1925****Welfare Fund:**

| | |
|---|--------------|
| Balance, January 1, 1925..... | \$73.11 |
| Contributions..... | \$136.00 |
| Transferred from General Account (Allowances from Trustees)..... | 132.13 |
| Transferred from Interest on Credit Balances..... | 1.86 |
| | <hr/> 269.99 |

Interest on Credit Balances:

| | |
|------------------------------------|------|
| Earnings to December 31, 1925..... | 1.86 |
|------------------------------------|------|

\$344.96

Examined and { A. PERRY OSBORN }
 Approved { F. TRUBEE DAVISON } *Auditing Committee*

PENSION FUND—SPECIAL FUNDS ACCOUNT

Disbursements, 1925

| | |
|---|-----------------|
| Welfare Fund..... | \$199.13 |
| Interest on Credit Balances: | |
| Transferred to Welfare Fund..... | 1.86 |
| Cash on Hand, December 31, 1925: | |
| Deposited with United States Trust Company of New York..... | 143.97 |
| | <hr/> |
| | \$344.96 |

E. and O. E.

NEW YORK, December 31, 1925.

