

1869

CITY OF NEW YORK

1931

AMERICAN MUSEUM  
EXPLORATION AND RESEARCH

SIXTY-THIRD  
ANNUAL REPORT OF THE TRUSTEES FOR  
THE YEAR 1931 : : THE AMERICAN  
MUSEUM OF NATURAL HISTORY

MAY 1, 1932

## SERIAL SCIENTIFIC PUBLICATIONS

### NATURAL HISTORY, Journal of The American Museum:

Volumes I-XXXI, 1900-1931. An illustrated bimonthly magazine devoted to records of scientific research, exploration and discovery, of the development of museum exhibitions and of museum influence on education. Contributors include the scientific staff, explorers and Members of the American Museum and other eminent naturalists. Issued free to all classes of membership, or on subscription \$3.00.

### BULLETIN of The American Museum:

Volumes I-LXII, 1881-1931. Scientific records of explorations and collections of the Museum, in Geology, Palæontology, Mineralogy, Zoology, and, originally, Anthropology. Distributed in exchange to over 400 libraries and institutions of science and learning throughout the world. \$5.00-\$10.00 per volume.

### ANTHROPOLOGICAL PAPERS of The American Museum:

Volumes I-XXXIII, 1906-1931. Discoveries, explorations and researches in Archæology, Anthropology and Ethnology among the extinct and living races of man. Distributed to over 300 institutions and scientists throughout the world. 25c.-\$5.00 a part.

### AMERICAN MUSEUM NOVITATES:

Nos. 1-512, 1921-1931. Devoted to publication of preliminary announcements and descriptions of new forms in the fields of Zoology, Palæontology, Geology and Mineralogy. 15c. each.

### MEMOIRS of The American Museum:

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

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

Volumes I-III of the New Series, 1912-1921, devoted to Zoology and Palæontology, \$2.00-\$12.00 a part. This terminates the serial form of publication. Beginning with the forthcoming work by Henry Fairfield Osborn, "Evolution of the Proboscidea," the Memoirs will be issued without serial numbers.

## SPECIAL SCIENTIFIC PUBLICATIONS

### A REVIEW OF THE PRIMATES:

By Daniel Giraud Elliot, 1913. A monographic treatise in three quarto volumes. Paper, \$35.00; morocco, \$45.00.

### BIBLIOGRAPHY OF FISHES:

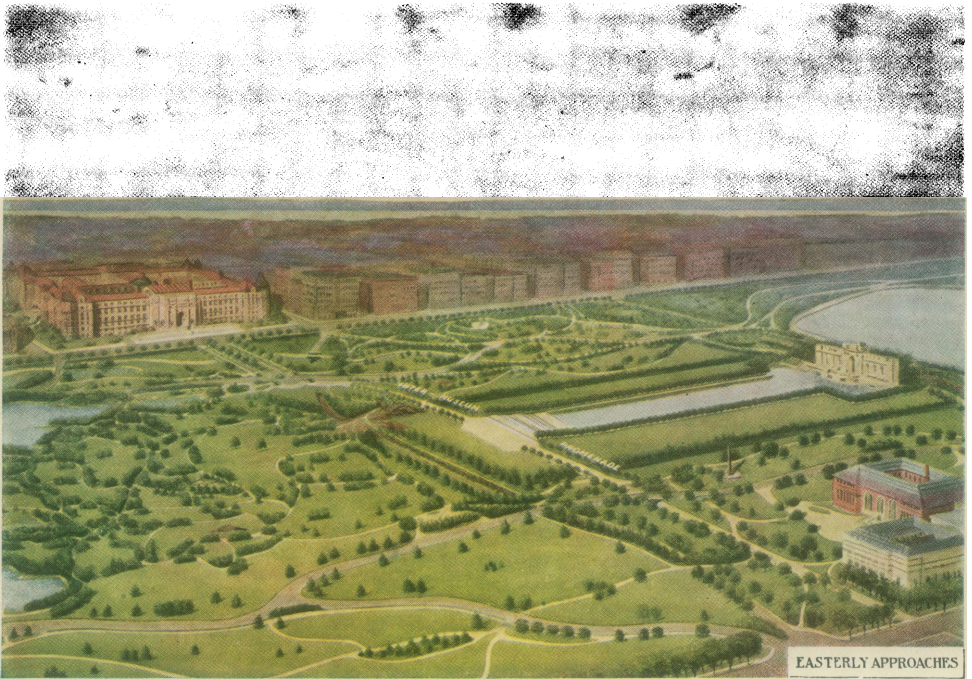
By Bashford Dean, 1916-1923, covering the entire literature of fishes to 1914 and embracing 45,000 titles arranged alphabetically by authors. 3 volumes, \$15.00.

### THE BASHFORD DEAN MEMORIAL VOLUME:

Article I, 1930, \$1.25; Article II, 1931, 60c.; Article III, 1931, \$1.75.

(Publications continued on next page)

THE HUDSON RIVER AND PALISADES IN THE DISTANCE



EASTERLY APPROACHES TO THE NEW YORK STATE  
ROOSEVELT MEMORIAL

Presented to the Board of Estimate, 1922. To the Legislature, 1924

The ROOSEVELT MEMORIAL is in the center of the new east façade of THE AMERICAN MUSEUM OF NATURAL HISTORY, of which the cornerstone was laid by President Grant in the year 1874.

The ROOSEVELT CONCOURSE is on the axis of 79th Street, Central Park West, 600 feet to west driveway. The EASTERLY APPROACHES pass beneath the west driveway to the Intermuseum Promenade and beneath the east driveway along the south façade of the METROPOLITAN MUSEUM OF ART to the axis of 80th Street and Fifth Avenue.

The diagrammatic design of the Intermuseum Promenade was presented to the Board of Estimate and Apportionment April, 1922, by the Chairman of the New York State Roosevelt Memorial Commission. The lagoon and building plan north of the Intermuseum Promenade is the Thomas Hastings design of the WORLD PEACE MEMORIAL presented to the Board of Estimate, 1923.

This perspective, drawn in 1916 and redrawn in 1931, is the work of Charles Delmont.



# AMERICAN MUSEUM EXPLORATION AND RESEARCH



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

## SIXTY-THIRD ANNUAL REPORT OF THE TRUSTEES FOR THE YEAR 1931 : : THE AMERICAN MUSEUM OF NATURAL HISTORY

THE CITY OF NEW YORK  
Issued May 1, 1932



## THE AMERICAN MUSEUM PRESS, 1903-1931

Established in the year 1903 as a one-man, one-handlever press. The original purpose of the press was the printing of Museum labels. In 1905, an electrically driven job press. In 1918, monotype and first cylinder press installed, besides three job presses. In 1925, press included a foreman and 12 assistants; 3 job presses in use; 2 cylinder presses, one of these equipped with automatic feeder and pile delivery. In 1926, an automatic vertical job press was added.

Since 1926 no additional equipment and no new employees in the composing room and press room have been added, yet the output of printing has increased from 1,100,000 press impressions in 1927 to 2,355,225 press impressions in 1931. Practically all of the American Museum's scientific and administrative publications listed on the cover are printed by the American Museum Press, in addition to NATURAL HISTORY and a great variety of other kinds of printing.

**HAWTHORNE DANIEL, Curator, Printing and Publishing**

**IDA RICHARDSON HOOD, Curator, Library and Publications**

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**AMERICAN MUSEUM  
EXPLORATION AND RESEARCH  
1869-1931**

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**SIXTY-THIRD ANNUAL REPORT OF  
THE PRESIDENT OF THE AMERICAN  
MUSEUM OF NATURAL HISTORY FOR  
THE YEAR 1931**

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**REPORTS OF THE PRESIDENT AND  
OTHER OFFICERS  
MEMBERSHIP, HONORARY AND  
CONTRIBUTING**

*To the Members of The American Museum of Natural History:*

The FIRST ANNUAL REPORT of The American Museum of Natural History of the year 1869 was a pamphlet of thirty pages, written by Joseph H. Choate, a Trustee and Founder of the Museum. Beginning in 1921, the Reports by President Henry Fairfield Osborn have become contributions to the Theory and Practice of *Museum Education, Development and Creative Administration*, as indicated by the successive titles:

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

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

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

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

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

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

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

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

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

*THE AMERICAN MUSEUM AND THE UNIVERSITY*, report of 1930, issued in 1931.

*AMERICAN MUSEUM EXPLORATION AND RESEARCH*, report of 1931, issued in 1932.

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

# AMERICAN MUSEUM EXPLORATION AND RESEARCH

BY HENRY FAIRFIELD OSBORN

FROM our foundation in the year 1869, the original educational and recreational purposes of the Museum have gradually expanded, heightened and deepened until they embrace the whole scheme of education from childhood to old age. No other institution in the world to-day has such a broad and at the same time intensive purpose, beginning with the study of the planets and the distant stars, the earth, extending forward into the dawn of life, and continuing through the whole billion-year story of life upon the earth, including the rise of man as the flower of creation. To cover this vast field of knowledge, our explorations are reaching out into every part of the world, our researches are covering the whole field of nature, our educational system is touching every stage in the evolution of life up to the final applications of scientific research to human progress and welfare.

Every university, college, school and museum in the civilized world are being enriched by our explorations, researches and publications as well as by the admirable support and multiplication of our science news service, by local and national radio addresses, by moving picture and the more recent talking picture methods. No institution in the world to-day can lay claim to a greater output of sound and well-balanced research not kept within our own confines but disseminated far and wide in civilized language by every modern means of expression. Response to this unprecedented synthetic educational effort is as keen on the part of the learned academies and universities of the world as it is from all other grades of culture, including the great mass of the children of the public schools not only in and around the City of New York but in ever-widening circles of the great new museums of other cities which are establishing similar educational systems.

In developing this expanding program of science and education during the twenty-four year period since 1908,

**ENDOWMENT BENEFACTORS OF THE AMERICAN  
MUSEUM 1884-1931:**

*Arthur, James.....	\$36,385.62	*LeClear, Mrs. Bonnie Wallace	14,207.15
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Dodge, William E., 2d.....	10,000.00	Russ, Edward S.....	1,000.00
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Goldenberg, Joel.....	1,900.00	*Sturges, Frederick, Jr.....	1,000.00
Goldschmidt, S. A.....	1,000.00	Swords, Mrs. James R.....	500.00
*Grant, Madison.....	1,000.00	*Thompson, William Boyce.....	50,000.00
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Halsted, Miss Laura P.....	100.00	*Thorne, S. Brinckerhoff.....	10,000.00
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Harkness, Edward S.....	100,000.00	Trevor, Mrs. John B.....	30,098.90
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Havemeyer, Henry O.....	25,000.00	Vanderbilt, Cornelius.....	25,000.00
*Hay, Clarence L.....	1,000.00	Vanderbilt, William H.....	50,000.00
Hill, James N.....	9,702.50	Van Praag, Leonidas A.....	500.00
Hitchcock, Miss S. M.....	5,000.00	Villard, Henry.....	5,000.00
Huntington, Collis P.....	5,000.00	*Voss, Frederick G.....	300,000.00
Huntington, Mrs. Collis P.....	50,000.00	Warburg, Felix M.....	19,000.00
Iden, Henry.....	10,000.00	Watson, Emily A.....	10,010.52
Insee, Helen C.....	5,000.00	Weigle, Charles H.....	50.00
Iselin, Adrian.....	10,000.00	Wells, Oliver J.....	500.00
Jacobi, A.....	300.00	*Whitaker, John E.....	12,344.06
James, Arthur Curtiss.....	26,750.00	Wilson, Richard T.....	1,000.00
James, D. Willis.....	5,000.00	Wolff, Emil.....	1,405.50
Jesup, Morris K.....	1,225,000.00	Patronship Fees.....	28,000.00
Jesup, Mrs. Morris K.....	5,000,000.00	Fellowship Fees.....	9,000.00
Jones, Emma Chambers.....	1,000.00	Life Membership Fees.....	81,100.00
Juilliard, A. D.....	100,000.00	Subscriptions to Ralph Winfred Tower Memorial Fund.....	24,082.00
Juilliard, Mrs. A. D.....	50,000.00		
Karelsen and Karelsen.....	10.00		
Kitching, Frank W.....	10,043.00		
Landon, Charles G.....	5,000.00	Increment of Endowment through investment.....	342,769.29
Lanier, Charles.....	4,500.00		
Lawrence, Mrs. Samuel.....	500.00		
			<u>\$15,052,103.13</u>
			<u>\$15,394,872.42</u>

\*Special Contributors to the Sixtieth Anniversary Endowment Fund.

upwards of \$14,330,322.65 have been donated by Trustees, Members and friends, or appropriated from Endowment income, to the execution of these great purposes, in addition to the \$7,131,484.64 of maintenance and operating expenditures contributed by the City of New York, also in addition to bequests and gifts to our Endowment Fund totaling \$14,393,450.88, and the appropriation by the City for buildings amounting to \$11,653,667.01. In the present period of depression it is most gratifying to recall the noble gifts to the Endowment Fund by the men and women who, during the past three decades of prosperity, have made possible the explorations and researches of the American Museum. Our present Endowment of \$15,594,872.42 at the close of the year 1931 yields an income just adequate to carry us through the financial crisis with the Balanced Budget of 1932 as shown at the close of this report. The full list of these gifts from 1884 to 1931 appears on the opposite page.

For the time, we have resolved to suspend our great exploration program, which, as shown in previous reports, has included from twenty to thirty expeditions a year to various parts of the world. At the same time we are concentrating within the Museum to continue with equal intensity our researches upon the results of our past twenty-four year period of exploration. We also have resolved to concentrate attention upon the completion of the educational equipment and arrangement of our fifty-two exhibition halls.

### MAMMALS OF AFRICA

The first and most outstanding work of the year 1932 is the advancement of the great African Hall and gallery under the direction of the Trustee Committee headed by Mr. Daniel E. Pomeroy, the Department of Mammalogy under Curator Harold E. Anthony and the Department of Preparation under Vice-Director James L. Clark. The construction of the African Hall is well advanced, and by mid-summer 1932 the work of installation of the groups already completed or well under way will begin. It seems hard to believe that after years of doubt and uncertainty the dream of Carl E. Akeley's life is about to be realized.

The most recent gift to the great series of habitat groups,

and the one most appropriate to the memory of Carl E. Akeley, is the gorilla group presented by Mr. Julius F. Stone of Columbus, Ohio, especially as a memorial to the final achievement of Akeley's life, the assemblage of the materials for the 'mountain gorilla' which inhabits the forested slopes of Mt. Mikeno in the Parc National Albert. It is difficult for us to express our appreciation of the noble gift of \$50,000.00 for the installation of this group by Mr. Stone and members of his family, especially as it comes in the midst of the present hard times which have arrested the annual inflow of donations of this kind.

In accordance with the wishes of Mr. Stone and of Mrs. Akeley, who accompanied her husband on this last expedition, assembling materials and photographs, the gorilla group will occupy the great southeast corner of the Hall, thus enabling our Preparation and Exhibition Staff under Mr. James L. Clark to plan a superb presentation of the Kivu background, the densely forested foreground and the characteristic poses of these majestic primates. Immediate steps are being taken to prepare a very beautiful design of the mountain gorilla group.

With the consent of Mr. Ogden L. Mills, the donation of his father, Ogden Mills, toward the Kivu gorilla group will be transferred to other African Hall preparation.

The full list of groups and their donors up to the present time is as follows:

**AFRICAN ELEPHANT GROUP FROM KENYA COLONY**, two males, cow, and calf.

Mounted by Carl E. Akeley as the Meredith H. Pyne Memorial. Gift of Mr. and Mrs. Percy R. Pyne. 1929.

**BUFFALO GROUP OF KENYA COLONY**, two males, one female, one young. Gift of George Eastman. 1926.

**KLIPSPRINGER GROUP FROM KENYA COLONY**, containing Klipspringer, Reed-buck, Baboons, and Hyrax. Gift of George Eastman. 1926.

**WILD DOG AND ROAN ANTELOPE GROUP OF TANGANYIKA TERRITORY**. Specimens of the Dog secured. Gift of George Eastman. 1926.

**WATER HOLE GROUP OF KENYA COLONY**. Reticulated Giraffe, Grévy's Zebra, Oryx, Grant's Gazelle, and Eland (15 specimens). Gift of George Eastman. 1926.

**GREATER KOODOO GROUP OF TANGANYIKA TERRITORY**, two males, one female, and young. Gift of Daniel E. Pomeroy. 1926.

**PLAINS GROUP OF TANGANYIKA TERRITORY**. Grant's Zebra, Gnu, Hartbeeste, Robert's Gazelle, Thomson's Gazelle, Topi (19 specimens). Gift of Daniel E. Pomeroy. 1926.



- LESSER KOODOO AND GERENUK OF TANGANYIKA TERRITORY, six specimens. Gift of Daniel B. Wentz of Philadelphia. 1926.
- IMPALLA ANTELOPE GROUP, six specimens. Gift of Mrs. Martin Johnson. 1929.
- GIANT SABLE ANTELOPE GROUP FROM PORTUGUESE WEST AFRICA, two males, two females, and young. Gift of Mr. Arthur S. Vernay. 1925.
- AFRICAN LION GROUP, two males, three females, one young. Gift of Mr. and Mrs. G. Lister Carlisle, Jr. 1928.
- NYALA ANTELOPE GROUP OF ABYSSINIA, five specimens. Gift of Mrs. Gertrude Sanford Legendre. 1928.
- GIANT ELAND GROUP, one male, one female. Gift of Mr. C. Oliver O'Donnell. 1930.
- MOUNTAIN GORILLA OF KIVU, two males, two females, and young. Collected and mounted by Carl E. Akeley. Gift of Messrs. Julius F. Stone and Franz T. Stone and the Misses Edna A. Stone, Theodora M. Stone and Natalia S. Stone. 1931.

Of these fourteen superb habitat groups presented at a total cost of \$700,000.00, the African Elephant group constitutes a triple memorial, first of Carl E. Akeley as an animal sculptor, second of Meredith H. Pyne as an aviation hero of the World War, third of his father, the late Percy R. Pyne, as one of the most beloved and honored of our Trustees.

There remain fourteen opportunities for the donation of animal groups which have been planned and designed and which are yet to be financed and collected for the Akeley African Hall. The chief of these groups and their estimated cost are as follows:

BLACK RHINOCEROS, showing a family of these fast-disappearing pachyderms.....	\$50,000
BONGO (a white-striped antelope) and the largest of the WILD Hogs, in dense tropical forest.....	50,000
OKAPI GROUP: The rare and beautiful Okapi, a close relative of the Giraffe, living in the Great Rain Forest of the Congo.....	60,000
ADDAX AND SUMMERING'S GAZELLE: A desert group on the border of the Sahara.....	50,000
GNU, BLESBOK AND SPRINGBOK: A group of the great South African Plains.....	50,000
NILE RIVER GROUP, on the Upper Nile, featuring the Hippopotamus and animal and bird life along the Upper Nile.....	50,000
VULTURE, JACKAL AND HYÆNA: A typical group of carrion feeders, a common sight in the great game area.....	35,000
LEOPARD, RED RIVER HOG AND IBIS: A tragedy in the depths of the dark forest.....	35,000
COLOBUS MONKEY GROUP: A striking and beautiful black and white Monkey, living in the big forests.....	25,000
CHIMPANZEE GROUP, in the bamboo forests.....	35,000

MANDRIL: A West African Group, showing this spectacular African Primate.....	40,000
LEMURS AND INSECTIVORES, showing special adaptations of the Lemurs and Insectivores isolated in Madagascar.....	35,000
OSTRICH: On the open plains of Eastern Africa, side by side with the big game, graze the largest birds of the world.....	35,000
WART HOG GROUP, showing a family of this spectacular animal on the plains.....	25,000

The above will fill the fourteen spaces on the main floor of the Akeley African Hall and fourteen spaces on the gallery floor.

### MAMMALS OF NORTH AMERICA

Under the leadership of members of the third generation of Trustees, one of the most important steps recently taken is the projection and planning of the great hall, Floor I, African Hall Section, in which will be exhibited the *Mammals of North America* on a scale worthy of comparison with the exhibitions previously planned of the *Mammals of Southern Asia*, comprising the beautiful Vernay-Faunthorpe Collection. The new Hall will open westward out of the *Natural History of the State of New York* Roosevelt Memorial. It is of majestic design, 142 by 96 feet, equal in area to the Akeley Hall of African Mammals on Floor II, with sixteen supporting marble columns. In the center of the new Hall against painted backgrounds will be shown all the groups of larger North American mammals of the forests and plains. On either side will be two galleries for the groups of smaller mammals.

Thus the entire hall will complete the habitat group exhibition of all the mammals of North America, excepting certain polar mammals which will be shown in the Oceanic Hall. Two donations have already been made to the groups in this Hall, namely, that of \$9,500 by the late John A. Roebling, which will be devoted to the Osborn Caribou group, and the donation of the Grant Caribou group by one of our Trustees, Mr. Madison Grant. The models for all the larger groups have already been prepared under the direction of Mr. James L. Clark. A ground plan of the entire Hall, prepared under the direction of Curator Anthony, accompanies this report. The very important decision of the Trustees to plan

and execute this Hall releases the old North American Hall, dedicated to Curator Allen, for other purposes.

With many of the materials in hand, the thirty-three habitat mammal groups, of greater and less dimensions, will be far less costly than the mammal groups of either the African or North and South Asiatic Halls. The present estimate of the cost of the larger groups is as follows, as reported by Curator Anthony December 31, 1931:

	<i>Estimated Cost</i>
BISON AND PRONGHORN GROUP—background, plains of the Yellowstone River.....	\$15,000
WAPITI OR ELK GROUP—background, Jackson's Hole and Gros Ventre mountain range.....	15,000
OSBORN CARIBOU GROUP—background, Cassiar Mountains of British Columbia.....	10,000
GRANT BARREN GROUND CARIBOU GROUP—background, Alaska Peninsula.....	10,000
MOUNTAIN LION GROUP—background, northern rim of the Grand Canyon.....	9,000
ALASKA MOOSE GROUP—background, Kenai Peninsula, to be painted by Carl Rungius.....	12,000
ROCKY MOUNTAIN SHEEP GROUP—background, Banff region.....	10,000
A smaller group as follows:	
FISHER AND PORCUPINE GROUP—background, foothills of White Mountains, New Hampshire.....	3,500

### EQUIDÆ OF THE WORLD

The superb collection of the Equidæ of the world, originating with the munificent gift of William C. Whitney in 1901, will be transferred from its present location in the west gallery of Floor IV to the western half of the present North American Mammal Hall, yielding a much larger space for the life work of Mr. S. H. Chubb in the artistic preparation of the skeletons of the horse in action. To the original Whitney collection have been added the skeleton of "Sysonby," gift of James R. Keene, of "Lee Axworthy," gift of Watson B. Dickerman, and the superbly prepared skeletons of the wild horses, asses and zebras in contrast to the finely mounted skeletons of the existing types of horses, the Arab, the work horse, and the wild horse of Central Asia. The collection of mounted specimens already contains the original northern

horse of Linnæus and the unique Celtic pony of Ewart; it will be enlarged by the addition of the specimens of the wild horses, asses and zebras of the world to be exhibited in cases surrounding the central section, in which will be shown the skeletons. Thus will be completed the presentation of one of the most interesting of all mammalian families, namely, the Equidæ.

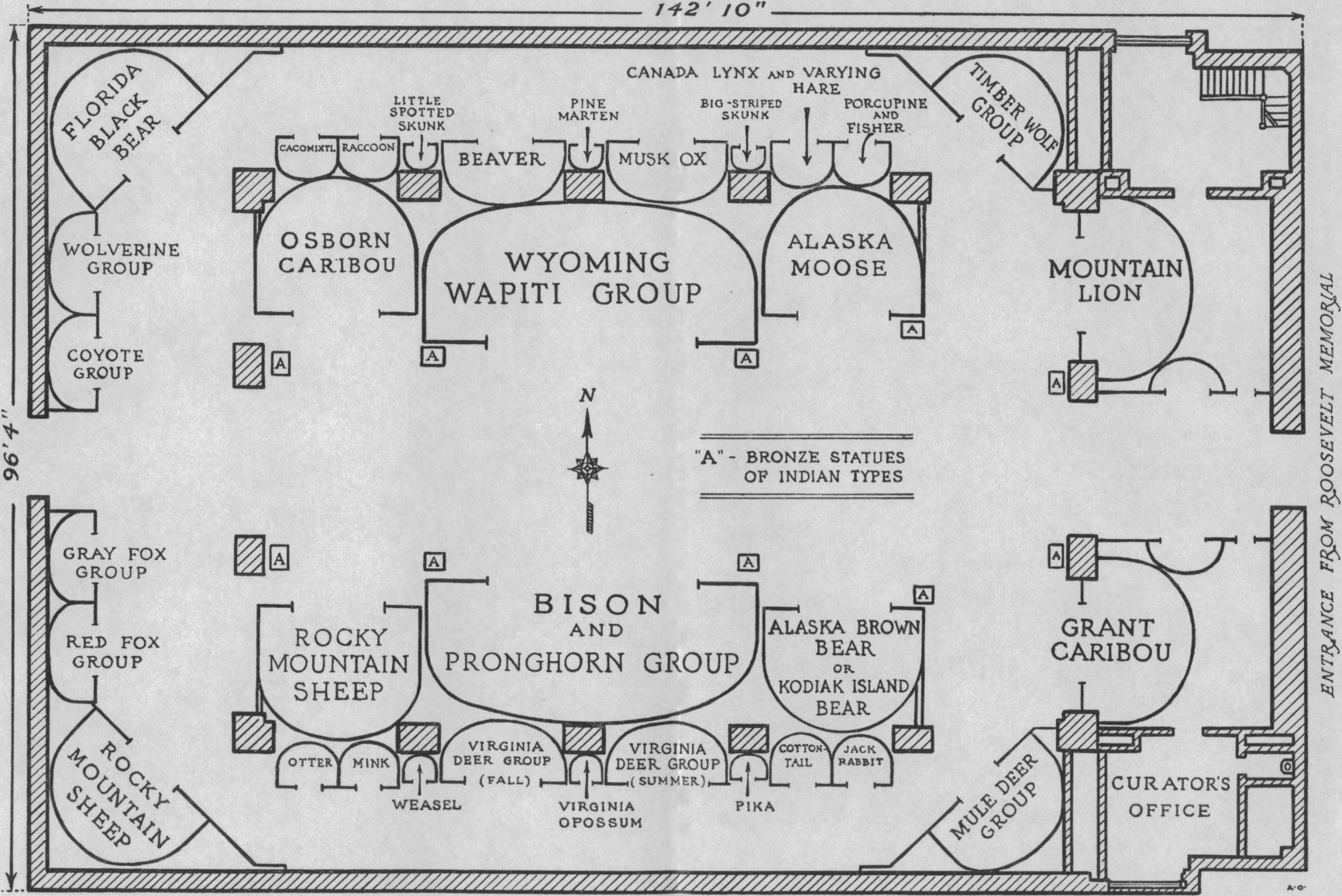
To this series of mounted equines, Mr. Chubb is now adding, in four principal movements of the walking stride, the skeletons of the four principal types of zebras; the mountain, the Chapman, the Grant, and the Grévy. Also from the central deserts of Asia will be added skeletons of the Prjevalsky horse and of the wild ass or kiang. The latter is from the materials collected by the Central Asiatic Expeditions in the Gobi Desert.

To complete the series of mounted skins in their natural colors, Dr. Leonard C. Sanford is making strenuous efforts to secure a single specimen of the original stripeless quagga, which is the typical *Equus zebra* of Linnæus. Only a few specimens of this long extinct type are to be found in the museums of Europe.

#### MAMMALS OF WESTERN EURASIA

The release of the eastern end of the present North American Mammal Hall enables us to make a complete exhibit of the great mammals of western Eurasia, in the habitat group arrangement similar to that of southern Asia. This will include principally the chamois, the mouflon, the stag, the European bison or wisent, the bear, and other mammals which play such an important part in European history. The first donation to this hall was that of the wild boar group by the late Walter C. Winans, an American resident of London. The fine chamois group has already been collected by Mr. William J. Morden. The easterly range of the mammals in this hall will be the tahr. Accordingly plans for the division of the present Hall of North American Mammals into a westerly section for the equines and an easterly section for the west Eurasian mammals are now in preparation.

In another year we shall be able to present habitat group models of the western Eurasian hall. This hall should cer-



PROPOSED NORTH AMERICAN HALL OF MAMMALS



tainly contain a pair of the now sadly diminished European bison, or wisent of ancient writers, to memorialize the splendid efforts made by our colleagues in the New York Zoological Society to save this rare historic animal known in science as *Bison bonasus*. The Society sent Director W. Reid Blair on a tour abroad to visit all the localities where these precious animals still survive. There is a strong probability that through cooperation between various European states and skilful cross-breeding of members of the surviving herds the European bison may be brought back to the numbers existing in Europe prior to the ruthless killing during the World War. If this movement succeeds under the energetic leadership of President Grant of the New York Zoological Society, it will mark another great step in animal and plant conservation, in which he ranks as our most distinguished and successful leader. The complete success of the restoration of the American bison, which has now increased from the original surviving number of 700 to over 14,000 in the United States and Canada, augurs well for this important movement.

#### MAMMALS OF NORTHERN ASIA

The American Museum is deeply indebted to Mr. William J. Morden for his leadership and generosity in the two great expeditions to northern Asia, the results of which so splendidly supplement the work of the Central Asiatic Expeditions that laid the foundation of our present superb collections of North Asiatic mammals. The first of these was the Morden-Clark Expedition of 1926 which secured the unique series of the following animals: *Ovis poli*, ibex, roe, Little-dale's sheep, gazelles, bear, foxes, and marmots, a total of seventy-five specimens.

The heroic work of Messrs. Morden and Clark in overcoming tremendous obstacles and enduring hardships and torture has been recorded in *Natural History* and in previous issues of our reports. Hardly less eventful was Mr. Morden's second expedition, the Amur River Expedition, financed and conducted by Mr. Morden and Mr. George Coe Graves, 2d, in 1929, the chief result of which was the exquisite materials for the Siberian Tiger group. En route to eastern Siberia, Mr. Morden stopped at Kizil Orda and, accompanied by

Assistant Curator George G. Goodwin, made a side expedition into Kazakstan, middle Asia, and collected an excellent group of Saiga antelope and ninety-four small mammals including no less than ten species new to the Museum collections.

The North Asiatic Hall will also include the animals of the Gobi Desert, of the Altai Mountains and of north China secured by the Asiatic Expeditions of 1916-1930, under the direction of Roy Chapman Andrews. Doctor Andrews and his associates collected 9,300 specimens which have given to the Museum an unexcelled series of this North Asiatic fauna. From this comprehensive series will be selected representative specimens for exhibition in the North Asiatic Hall. These will include the wild ass and Gobi gazelle, the takin, the goral and serow, the Asiatic wapiti and roe deer, the tahr, and the *Ovis ammon* sheep.

Among the North Asiatic mammals still unrepresented in this magnificent collection are the wild camel and the wild Prjevalsky horse, the golden monkey and the panda.

The planning of the southeast pavilion for this superb collection in a manner worthy of the generosity of its donors has occupied the last three years and with the able assistance of Mr. James L. Clark will give a splendid setting surrounding the central dome which will present a panorama of the North Asiatic scenes in which the great mammals were collected.

#### MAMMALS OF SOUTHERN ASIA

It would be difficult to estimate the influence which the South Asiatic Hall, containing the unique Vernay-Faunthorpe Collection of all the representative larger mammals of southern Asia, has exerted in all the countries of the world both upon the educated and uneducated public, and especially upon the rapidly increasing class of museum devotees. It is not only a source of beauty and inspiration but it sets a new and rare standard of international cooperation and generosity. Reproductions of the twenty superb groups have appeared in magazines and newspapers throughout the world. Indian princes and British officials who assisted Mr. Arthur Vernay and the late Colonel J. C. Faunthorpe in the arduous twelve-year period of collection of these animals have expressed



themselves as delightful with the results of their cooperation and friendship. Imitation is the sincerest flattery. Imitation of these beautiful works of nature in painting and in sculpture of the highest order as regarded by the late Daniel Chester French, is revitalizing some of the older museums of the world and attracting to them, as to our own halls, crowds of interested and delighted visitors.

Not content with the rare groups of the Sumatran and of the Indian rhinoceros, Mr. Arthur Vernay set out December 16, 1931, on his eighth expedition in quest of the extremely rare and nearly extinct *Rhinoceros sondaicus* named after the Islands of Sunda. He obtained permission to collect for our sister institution, the British Museum (Natural History), and for the American Museum at the same time. If successful, Mr. Vernay will thus have rounded out all the great game animals of India and of southern Asia. It is difficult for the Trustees to express their appreciation of Mr. Vernay's splendid service to the science of zoology and to the natural history museums of the world.

#### EASTERLY APPROACHES TO THE ROOSEVELT MEMORIAL

At the beginning of the fourteenth year since the death of Theodore Roosevelt, January 6, 1919, we are witnessing the rise of the majestic granite columns of the Roosevelt Memorial which will constitute the new east façade center of the American Museum. The splendid design by the firm of John Russell Pope, fully illustrated in previous reports, faces the still undeveloped portions of Central Park extending eastward toward our sister institution, the Metropolitan Museum of Art. Absolutely essential to the enjoyment by the people are the Easterly Approaches across Central Park south of the Metropolitan Museum at the intersection of 80th Street east and Fifth Avenue. Wide differences of opinion have arisen both as to the design and the execution of these Easterly Approaches as first set forth in our Annual Report of the year 1915. The original perspective of this area drawn by Charles Delmont in 1916 and revised by him in 1931 is reproduced in part as a frontispiece to the present report. Nothing would be gained by a review of the discussion of this

matter since the year 1922 when the plan of the Intermuseum Promenade was first presented to the Board of Estimate and Apportionment. In the seventh Annual Report of the Trustees of the New York State Roosevelt Memorial to the Legislature, the present situation is recorded as follows:

The first contract for the excavation of the foundation and the substructure was awarded to M. Shapiro & Son on September 24, 1929, and satisfactorily completed on November 1, 1930. The second contract for the superstructure, after due advertising and competition, was awarded to the J. H. McNally Company on November 15, 1930. There followed a delay of five months in order to absolutely ensure the quality of granite. The construction proceeded thereafter with rapidity and on October 27, 1931, the cornerstone was laid with due ceremony by Governor Franklin D. Roosevelt as reported in detail below. Not included in the second contract, because of insufficient appropriation, are (1) the low reliefs on the balustrade; (2) four ethnic groups; (3) two animal sculptures flanking the entrance; (4) three murals in Memorial Hall; (5) the educational equipment of the Natural History Hall of the State of New York, and other matters set forth in the following pages.

The time of completion and dedication now depends upon two final and essential steps: (1) Additional appropriation by the Legislature adequate to complete the artistic and educational purposes of the Memorial as originally set before the Legislature. (2) The planning and completion of the Easterly Approaches across Central Park as presented to the Legislature by representatives of the Board of Estimate and Apportionment at a legislative hearing on March 18, 1924, following the action of the Board of Estimate and Apportionment of April 7, 1922.

After prolonged consideration, the Trustees of the New York State Roosevelt Memorial recommend that the completion of the Memorial be made coincident with the completion of the Easterly Approaches across Central Park, substantially as set forth by the Board of Estimate and Apportionment of the City of New York in a resolution unanimously adopted on April 7, 1922.

\* \* \* \* \*

The Trustees accordingly recommend that the State Superintendent of Public Works, Colonel Frederick Stuart Greene, with his engineering and architectural staffs, be authorized to cooperate with such officials as may be appointed by the Board of Estimate of the City of New York, in carrying out the united plans and purposes of the Board of Estimate of April 7, 1922, also of March 18, 1924, in inviting the Legislature to locate the Memorial in the City of New York. The architectural and landscape treatment of the Easterly Approaches to 80th Street and Fifth Avenue should be in harmony with the plans and purposes set forth by the State of New York in the year 1925, in the printed prospectus of a competition of eight of the leading architects of the State of New York for the selection of an architect, namely, that the Easterly Approaches should be proportionate to the magnitude and beauty of the building and should provide free and safe access for the great population of the east side of the City. The Trustees also recommend that a landscape architect

of outstanding national reputation be engaged as an adviser in the matter of Easterly Approaches to the Roosevelt Memorial.\*

With the approval of Governor Franklin D. Roosevelt, Mr. Frederick Law Olmsted of Olmsted Brothers, Landscape Architects of Brookline, Massachusetts, was invited to act as adviser to the State, and it is most gratifying to report that on January 2, 1932, Mr. Olmsted accepted the invitation and immediately began a preliminary study of the problem of the Easterly Approaches across Central Park as first presented to the Board of Estimate in 1922 and to the State Legislature in the year 1924.

As expressed in our 62d Annual Report of the year 1930, after a full review of the original educational plans and purposes of Central Park, 1857-1869, by Frederick Law Olmsted, Sr.:

Education, Science and Art were correlated throughout with the beautiful landscape development of Olmsted and Vaux, between the years 1857 and 1871. In 1869 and 1870, Olmsted and Vaux eagerly welcomed the foundation of the American Museum (1869) and the Metropolitan Museum (1870) and planned the sites and approaches for each. Within their original plans, copied in the Report of 1871, are mentioned an Arsenal Museum, a Museum of Natural History, a Zoological Garden, an Observatory, a Conservatory of Plants, several of which are located on the Olmsted-Vaux Central Park map of April 20, 1871, namely, the Humboldt Monument (1), the Conservatory (42), proposed Art Museum and Hall (43), and Museum Arsenal and Park offices (3).\*\*

#### FINANCIAL GROWTH OF THE LAST TWENTY-FOUR YEARS

Our financial growth of the past quarter-century began with the munificent bequests to the Endowment by President and Mrs. Morris K. Jesup, totaling \$6,225,000. In the beginning of our sixty-fourth year, our outstanding and most pressing financial interests are as follows:

First, the increase of our Endowment from the present inadequate figure of \$15,394,872.42 at the close of the year 1931 to the amount of \$27,500,000.00 needed for the budgets

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\*Seventh Annual Report of the Board of Trustees of the New York State Roosevelt Memorial, 1931, Albany, 1932, portions of pages 15 and 17. Thirteenth year of the Roosevelt Memorial.

\*\*First Annual Report of the Board of Commissioners of the Department of Public Parks for the Year ending May 1, 1871. New York, 1871. This Report was disavowed both by Andrew H. Green and Messrs. Olmsted and Vaux because it appeared under the political auspices of Mayor A. Oakey Hall and Comptroller Peter B. Sweeny.\*\*\*

\*\*\*"The American Museum and The University," Sixty-second Annual Report of the Trustees for the year 1930, May 1, 1931, page 5.

**TWENTY-FOUR YEAR FINANCIAL GROWTH OF THE AMERICAN MUSEUM OF NATURAL HISTORY**

Income 1908-1931

(Other than Endowment and Corporate Stock)

	Contributions					City of New York	Grand Total
	Income from Endowment	Contributions of Trustees	Contributions of Members	Contributions of Trustees and Members	Sale of Publications, etc.		
1908	49,905.00	31,142.63	36,700.40	67,843.03	1,776.58	159,930.62	299,041.54
1909	99,851.25	31,700.00	32,818.73	64,518.73	2,056.09	179,999.60	376,828.47
1910	92,832.52	50,225.00	13,408.33	63,633.33	3,887.25	185,757.00	374,974.51
1911	107,050.63	60,314.39	23,991.39	84,305.78	1,857.90	189,757.00	409,695.54
1912	108,239.72	91,975.00	33,144.25	125,119.25	3,714.58	195,000.00	460,409.86
1913	109,935.95	75,186.85	22,893.12	98,079.97	7,313.58	200,000.00	444,331.41
1914	107,860.79	62,993.75	7,964.50	70,958.25	27,220.00	200,000.00	413,926.50
1915	174,586.29	56,500.00	16,350.00	72,850.00	3,814.77	200,000.00	486,253.36
1916	238,762.95	165,627.50	11,497.73	177,125.23	4,698.62	212,999.00	671,645.84
1917	325,968.92	73,508.94	2,515.00	76,023.94	5,309.57	212,700.00	660,799.59
1918	334,993.73	53,350.00	2,350.00	55,700.00	30,508.00	225,000.00	663,349.73
1919	332,520.49	23,350.00	8,005.97	31,355.97	37,665.00	200,000.00	623,970.01
1920	416,612.13	48,650.00	27,964.17	76,614.17	36,326.00	310,983.13	867,787.00
1921	385,130.21	155,724.48	50,585.28	206,309.76	39,619.00	351,547.46	1,019,059.21
1922	450,512.12	90,050.00	55,598.61	145,648.61	43,235.00	344,498.77	1,031,310.19
1923	495,949.35	60,850.78	49,181.00	110,031.78	47,316.00	342,313.36	1,043,748.15
1924	521,560.32	121,533.96	102,130.78	223,664.74	48,095.50	342,320.28	1,183,008.13
1925	497,242.31	123,195.08	90,250.82	213,445.90	53,058.00	350,940.96	1,165,335.00
1926	577,530.06	124,750.00	248,787.03	373,537.03	55,296.00	368,547.22	1,439,644.67
1927	581,645.61	108,264.26	182,950.17	291,214.43	70,036.00	410,121.29	1,415,097.24
1928	634,972.80	166,029.44	194,530.24	360,559.68	75,851.00	452,374.12	1,567,493.12
1929	677,546.45	166,066.41	194,403.82	360,470.23	80,707.00	466,173.45	1,627,604.51
1930	711,443.36	129,313.13	202,744.06	332,057.19	77,676.00	483,145.69	1,647,851.19
1931	750,507.08	66,400.00	93,761.21	160,161.21	67,886.00	547,375.69	1,568,642.52
<b>Total</b>	<b>8,783,160.04</b>	<b>2,136,701.60</b>	<b>1,704,526.61</b>	<b>3,841,228.21</b>	<b>1,023,697.50</b>	<b>7,131,484.64</b>	<b>21,461,807.29</b>

of the years 1933-1934 when our present \$16,000,000 building program is completed and when the research and lecture rooms, laboratories and exhibition halls are in full operation.

*It is to open our educational exhibitions, to sustain our explorations, researches and publications that additional Endowment is absolutely essential and must be attained through unremitting and well-directed effort.* It was on this ground during the past year that our scientific research needs were presented to the General Education Board of the Rockefeller Foundation but without success.

#### SIXTIETH ANNIVERSARY ENDOWMENT

Our drive for new Endowment began April 6, 1929, the sixtieth anniversary of the foundation of the Museum, and for a time progressed in the most encouraging way. The plan of the Trustees to make it nation-wide and place it on a professional basis was ably carried forward by Messrs. H. H. Railey and R. B. Estill, and Mrs. Railey, who prepared the delightful volume entitled "The American Museum of Natural History, an Interpretation," published in 1931. The total expense was \$82,404.12. This movement was suddenly arrested on September 1, 1931.

The President offered to continue as the Chairman of the Endowment Committee. In the autumn of 1931, Dr. Roy Chapman Andrews returned from the field and is now engaged, with the aid of the Committee, consisting of Messrs. Henry Fairfield Osborn, General Chairman, James H. Perkins, Treasurer, George T. Bowdoin, Douglas Burden, Cleveland E. Dodge, Childs Frick, Clarence L. Hay, Junius S. Morgan, Jr., A. Perry Osborn, Daniel E. Pomeroy, Kermit Roosevelt, Henry W. Sage, Leonard C. Sanford, and Felix M. Warburg, in an effort to widen the circle of those who are interested in preparing for the renewed life and activity of the American Museum in the years 1933 and 1934. Meanwhile we give unusual prominence above to the notable list of men and women who, between the years 1884 and 1931, by gift and bequest, have built the bulwarks of our endowment up to the total, December 31, 1931, of \$15,394,872.42.

During the past year, 1931, a number of munificent and most welcome contributions have been made to the Sixtieth Anniversary Endowment Fund, as follows:

*By Gift*

Bowdoin, George T.....	\$6,250.00	
Frick, Childs.....	12,500.00	
Pratt, George D.....	25,000.00	
Ross, William.....	5.00	
		<u>\$43,755.00</u>

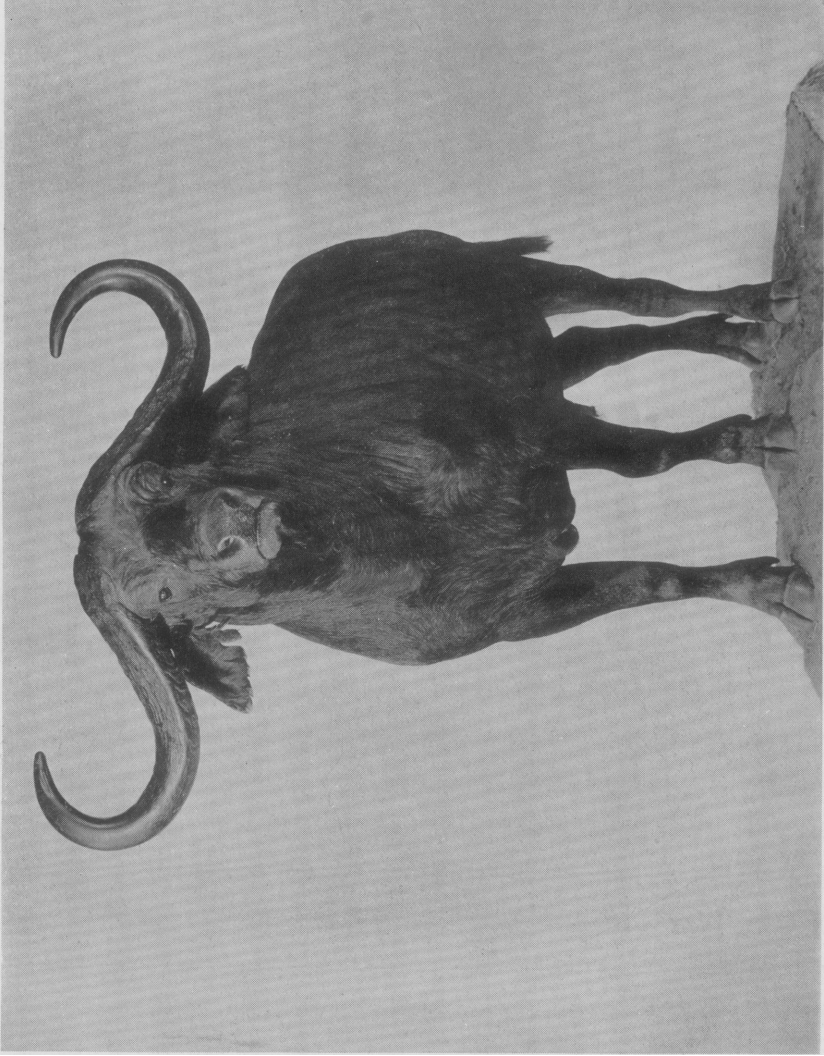
*By Bequest*

Arthur, James.....	\$36,385.62	
Betts, Samuel R.....	5,000.00	
Halliday, George E.....	147,949.48	
Lydig, David.....	10,000.00	
Saunders, Goddard Weld.....	5,000.00	
Sellew, Caroline B.....	5,000.00	
Thompson, William Boyce.....	50,000.00	
Voss, Frederick G. (additional).....	50,000.00	
Whitaker, John E. (additional).....	2,344.06	
		<u>311,679.16</u>
		<u>\$355,434.16</u>

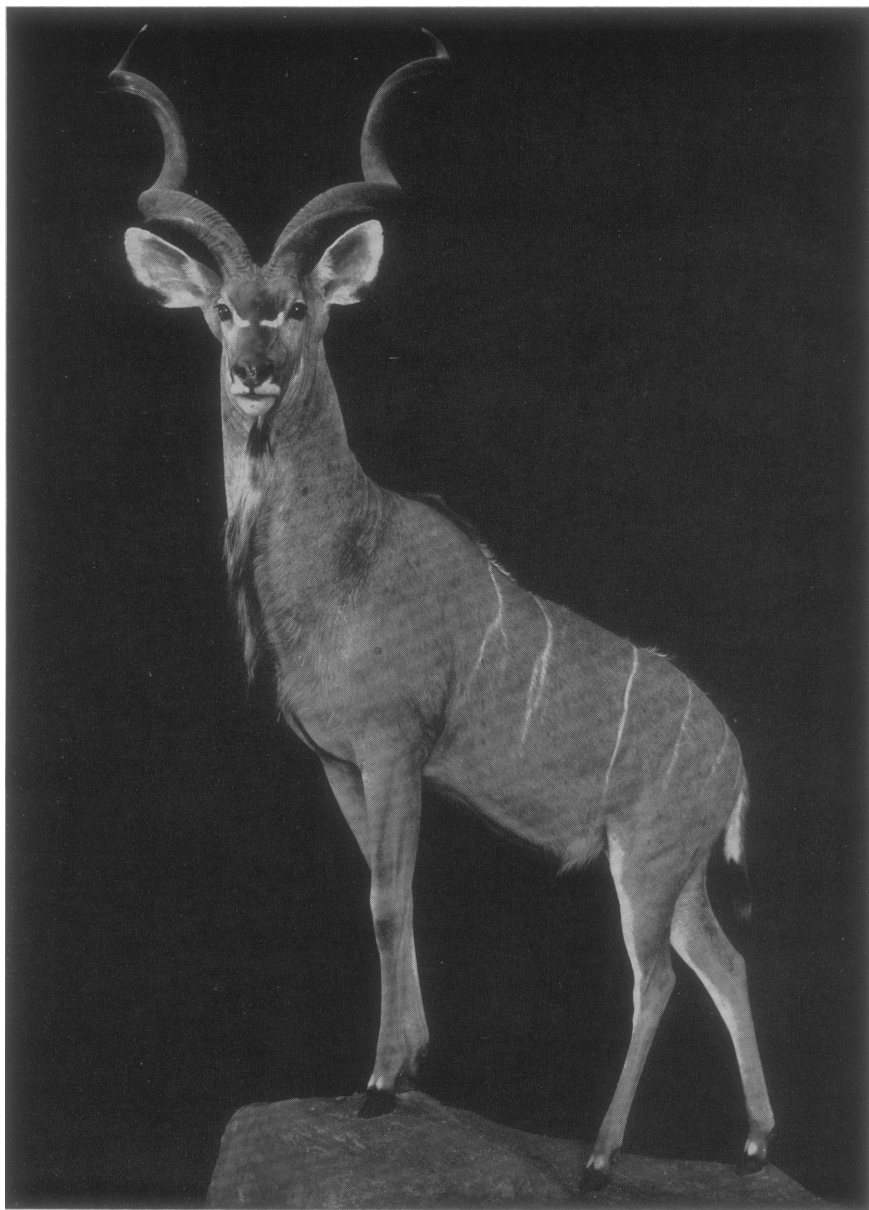
The Trustees acknowledge with special gratitude the bequest of Frederick G. Voss of \$300,000.00 since April 6, 1929, when the Sixtieth Anniversary Endowment Fund was opened. The income of the bequest is to be devoted to Anthropology.

### THE BALANCED BUDGET OF 1932

To meet the present financial world crisis we have made a balanced budget for the year 1932, aided largely by the \$87,532.00 income of our new Sixtieth Anniversary Endowment Fund of \$1,854,364.39. This balanced budget means that in 1932 we are arresting exploration altogether and putting a sudden stop to the field researches which have aroused world-wide interest and won the approval and applause of the entire scientific world; at the same time we are stopping all purchases of collections and all enrichment of collections through expeditions, excepting where provided for through special gifts. At the same time we are greatly retarding the development of our exhibition halls; we are holding our entire staff but are unable to make any advances in salaries.



Mounted specimen for the Buffalo Group for the Akeley African Hall  
Gift of George Eastman



**Mounted specimen for the Greater Koodoo Group for the Akeley African Hall  
Gift of Daniel E. Pomeroy**



*Estimated Disbursements of 1932:*

Total proposed scientific and administrative salaries and wages.....	\$1,081,464.50
Total overhead expenses.....	198,200.00
Assignments to the scientific departments.....	73,097.35
General financial reserve.....	20,000.00
Total budget for 1932.....	\$1,372,761.85

*Estimated General Income of 1932:*

City of New York for Maintenance.....	546,691.91
Income on Endowment.....	717,869.94
Membership Fees.....	74,200.00
Sales of Publications and Exchanges.....	13,500.00
Interest on Credit Balances.....	500.00
Special Grants by Foundations.....	10,000.00
Contribution of Felix M. Warburg.....	10,000.00
Total income for 1932.....	\$1,372,761.85

In brief, during the year 1932 the Museum will run at three-quarters speed instead of at full speed. Attention will be given chiefly to the completion and publication of the scientific explorations and researches of the past decade. Second, attention will be given to the internal development and arrangement of the fifty-two exhibition halls.

Thus, while we are cheerfully and courageously taking our due share of the effects of the world financial crisis, we must not for a moment blind ourselves to the fact that our exploration and research program is for the time arrested, that our whole exhibitional and educational progress is greatly retarded, that we must incessantly look forward to the future and plan both scientifically and financially for the coming years 1933 and 1934 when we are confident the American Museum will again be in the full tide of its wonderful educational and scientific progress.

**ENDOWMENT OF THE ESSENTIAL EFFICIENCY  
BUDGET OF 1934**

At the request of the Executive Committee, Director Sherwood reported December 8, 1931, in regard to the prospective financial requirements of the Museum in the year 1934, as follows:

An Efficiency Budget of 1934 should provide for the full operation of the Museum as a whole; place each department on a well-organized and well-balanced basis; permit of a normal development and utilize effectively the

facilities of the whole Museum when the four new buildings (African, South Oceanic, Roosevelt, Power and Service) are occupied.

This Budget shows that the estimated income for 1934 will have to be increased by \$618,924.49, or approximately the income on \$12,000,000 of new endowment, in order to make our Efficiency Budget for 1934 effective.

The Efficiency Budget of 1934, prepared after more careful study of future requirements than has ever been made before, emphasizes anew the importance of not only securing the \$7,500,000 necessary to complete the original estimate of the Sixtieth Anniversary Endowment Fund of \$10,000,000, but that an additional \$4,500,000 ought to be raised in order to provide for normal development of this great institution.

In brief, the total present Endowment of \$15,394,872.42 yields an income of \$751,097.32. Additional Endowment of \$12,000,000.00 yielding an additional income of \$618,924.49, is needed to meet the operational, educational and scientific needs of the year 1934. In case this new \$12,000,000 Endowment is not raised in the next two years, we shall open and operate only those new building sections and laboratories for which our income is adequate.

## II. SCIENTIFIC AND EDUCATIONAL PROGRESS

GEORGE H. SHERWOOD, Director

The key-note of the Sixty-third Annual Report of President Osborn is the American Museum in Exploration and Research. The influence of this institution is exerted through all its major activities: exploration, research, publication, preparation technique, exhibition and direct instruction of child and adult. Each of the scientific departments, although a unit in itself, participates in every one of these activities and is making its contribution to the advancement of science and education.

The Director has the honor to present a résumé of the achievements of our staff during the year 1931. To enable the reader to visualize more clearly what has been accomplished and the importance of the work under way, the data are segregated under our major activities, instead of being distributed through reports of the various departments. This bird's-eye view of our 1931 endeavors will reveal that substantial progress has been made in many directions, bringing added prestige to the Museum.

### EXPLORATION

Exploration and studies in the field are the very life-blood of the Museum's researches, for without these, material for research would be lacking, and the true interpretation of discoveries would be seriously handicapped if not impossible. While the severe limitation of funds in 1931 made it necessary to suspend or postpone many of our expeditions, thanks to the generous contributions of kind patrons it was possible to carry on a number of important field investigations throughout the world. In all, twenty-seven expeditions were active.

#### ASIA

In October, Dr. Roy Chapman Andrews returned to the Museum from Peiping after a summer spent in fruitless efforts to arrange for an expedition in 1932. The Chinese Commission for the Preservation of Antiquities flatly refused to permit further work by the Central Asiatic Expeditions, an attitude similar to that which the Commission assumed toward Sir Aurel Stein, the British explorer, and the French Citroën-Haardt Trans-Asia Expedition. It is hoped that in the near future such political changes may occur in China that further expeditionary work will be possible. Doctor Andrews expects to return to

China in the spring, and if a 1932 expedition cannot be arranged, the headquarters in Peiping will be closed and he will endeavor to reach Central Asia from another base.

#### AFRICA

After two years of field work, Mr. Harry C. Raven, the leader of the *Columbia University-American Museum African Expedition*, who remained longer in the field than the other members of the expedition to complete his collections, returned to the Museum from the French Cameroon, bringing with him five adult gorillas and three embalmed adult chimpanzees. The expedition made a study of the habits of the gorillas in their widely separated areas of distribution.

The *Chapin-Edson Congo Expedition*, comprising Dr. James P. Chapin and Mr. Franklin Edson, 3d, a generous contributor of funds to the expedition, returned to the Museum in May, after an absence of a year in the field collecting material for a group to illustrate the bird life of the equatorial forests along the Congo River. This group is the gift of the late Mrs. Dwight Arven Jones.

The *O'Donnell-Clark African Expedition* returned in April, from a trip especially planned to collect specimens of the giant eland. Two fine animals with accessories were obtained for the group to be placed in the new African Hall. Financed by Mr. C. Oliver O'Donnell.

A representative and very desirable collection of mammals was brought to the Museum in 1931 by the *Vernay Kalahari Expedition* through the continued generosity of Mr. Arthur S. Vernay. The series covers practically all the larger mammals known in the Kalahari region, including seventeen gemsboks, eight Hartman's zebras, five giraffes, eleven lions and three brown hyenas.

#### BRITISH WEST INDIES

On April 9, Mr. Gilbert Klingel returned from a trip to Inagua and Santo Domingo, with a fine collection of reptiles and amphibians. In December, 1930, Mr. Klingel's yacht, the "Basilisk," on which he was working, struck a reef on the coast of Great Inagua Island in the Bahamas and was destroyed. In spite of this misfortune, Mr. Klingel was able to save enough material to continue his work and make a detailed study of the island on which he and his companion were wrecked. Financed by Mr. Klingel.

#### CENTRAL AMERICA

On February 14, 1931, Mr. H. J. Boekelman, accompanied by Messrs. Junius Bird and Howard M. Mossman, left New York on an archaeological expedition to the coasts of Central and South America, especially to the shores of the Caribbean Sea and the coasts of the islands of the West Indies, to learn more of the cultural status of the people once inhabiting this region, as revealed in the distribution and succession of shell-heaps. Financed through the Voss Fund, an anonymous donor and Mr. Boekelman.

#### INDO-CHINA

In late August, Mr. and Mrs. Sidney Legendre, as sponsors, accompanied by Assistant Curator T. Donald Carter, as the representative of the Museum, left on an expedition to collect birds and mammals in the mountainous regions of Indo-China, a part of the world from which the Museum has as yet had very little material. Financed by Mr. and Mrs. Legendre.

## MADAGASCAR

Messrs. Richard Archbold, Philip A. DuMont and Austin L. Rand, American Museum representatives of the *Mission Zoologique Franco-Anglo-Américaine à Madagascar*, returned during the summer with a collection of birds and mammals representing the entire fauna of the island, extremely desirable acquisitions, since collections in the Museum from that locality have been very small. Through this expedition also, the Museum has received more than six hundred specimens of Quaternary fossils, including skulls and jaws of the pigmy hippopotamus, crocodiles, giant lemurs, as well as skeletal bones of these forms, and many bird bones representing the giant *Epyornis* and *Mullerornis* and small carinates. Financed by the late John F. Archbold and Mr. Richard Archbold.

## MEXICO

Dr. George C. Vaillant has twice visited the Valley of Mexico during 1931. Early in the year he spent several months at El Arbolillo where very satisfactory archæological material was secured. At present he is at the pyramid site of San Juan Teotihuacan in an effort to establish the origin of Teotihuacan civilization, whether indigenous or foreign to the Valley of Mexico. This work is generously supported by Mr. Clarence L. Hay.

## NEW GUINEA

Dr. Margaret Mead sailed, in August, for two years of study among the inland tribes of eastern New Guinea in the Australian Mandate. She expects to return to the Museum not only with a representative ethnological collection but with full data on the culture of these people. Supported in part by the Frederick G. Voss Fund.

## SOUTH AMERICA

The *Scarritt Patagonian Expedition*, comprising Dr. G. G. Simpson, leader, and Mr. Coleman Williams as assistant, returned November 1, after more than a year in South America. A collection of fossil material of wonderful variety and quality was secured; about 1,000 of the specimens came from the *Notostylops* beds, the oldest mammal-bearing formations in South America. The reconnaissance covered about 15,000 square miles and collecting was pursued at a number of localities. The members of the expedition were accorded every possible aid and courtesy by the authorities of the sections visited. Before his return, Doctor Simpson spent six months at the Museo Nacional in Buenos Aires in the revision and study of the Ameghino collection of Patagonian fossils. Financed by gift of Mr. Horace S. Scarritt.

*Brazil-Uruguay.* From the borders of these two countries, splendid collections of birds have been sent to the Museum by Dr. Emil Kaempfer, working under the auspices of Mrs. E. M. B. Naumburg. His collections now cover the entire field of birds from southern and eastern Brazil to Uruguay and Paraguay, and number about 12,800 specimens.

Alfonso Olalla has continued his excellent work in the Amazon Basin as directed by the Departments of Ornithology and Mammalogy and has forwarded several collections of considerable scientific value in the current research work on South American birds. Financed by the Jesup Fund.

**THE SOUTH SEAS**

The Whitney South Sea Expedition has surveyed Ponape and Kusaie in the Caroline Islands, visited the Pelew Group and is now on its way to the Bismarck Archipelago where the field work of the expedition will be concluded during the present year. The great collections made by this expedition in Polynesia and Melanesia during the eleven years of its activity are of an importance difficult to estimate. The Museum is deeply indebted to the late Harry Payne Whitney for his interest and generosity in supporting the work.

**UNITED STATES**

During the past year Mr. Childs Frick supported seven expeditions in search of extinct mammalian faunas in the Americas, five in the late Tertiary and two in the Quaternary, as follows: (1) Mr. Jack Wilson at Barstow, Mohave Desert, California. (2) Later, Mr. Wilson at Santa Fé, New Mexico. (3) Mr. Morris F. Skinner at Ainsworth, Nebraska. (4) Mr. J. C. Blick at Pawnee Creek, Colorado. (5) Mr. Charles Falkenbach at Lusk, Wyoming. (6) From Punin, Ecuador, in the early part of the year, Messrs. Blick and Falkenbach obtained a collection from the Quaternary. (7) Through the courtesy of the United States Smelting, Refining and Mining Company at Fairbanks, Alaska, in coöperation with the Geological Department of Alaska College, another expedition secured forty cases of additional fossil material. One hundred and sixty-five cases of material in all were the result of the year's work.

Curator Barnum Brown spent a most successful season in the west, finding in the Triassic beds at Cameron, Arizona, a primitive reptile, a form new to science, closely related to the stem forms that gave rise to the crocodiles. From the Lakota Cretaceous beds in Montana, nine dinosaur skeletons were obtained. Financed by the Jesup Fund.

In cooperation with the University of Pennsylvania Museum, a large fauna of late Pleistocene genera, several of which are extinct, was found by Curator Brown in a cave in southeastern New Mexico associated with a Folsom arrow-point—an association that establishes great antiquity for early man in America. Financed by the Jesup Fund.

With the financial support of the Frederick G. Voss Fund for Anthropology, Mr. Richard M. Snodgrass of the University of Chicago began in June the third season of archaeological exploration with special reference to the Folsom problem. He first visited northwestern Texas, examining certain quarry sites near Amarillo, and later explored northward to the vicinity of Lamar, Colorado, where several sites were excavated. During the month of June, Mr. Snodgrass was accompanied by Mr. Robert H. Merrill of Grand Rapids, Michigan, who made surveys and maps of the most important sites. Mr. Merrill contributed his time, and we are therefore indebted to him for this important service. The Laboratory of Anthropology at Santa Fé generously offered to cooperate with the Department of Anthropology in an accurate survey of the Folsom bison quarry and vicinity in New Mexico. Mr. Merrill undertook this work and proceeded to the Folsom site, where he was joined later by Curator Wissler. A complete survey was made, and a series of topographical maps was prepared, covering the site and vicinity. Since such a survey of this important site had

never been made, the contribution by the Laboratory of Anthropology and by Mr. Merrill is of unusual value. Financed in part by the Voss Fund.

As in previous years, the research work in pictographs was continued by Mrs. Ann Axtell Morris with a financial grant from the Museum and through Mr. Charles L. Bernheimer. This year Mrs. Morris made copies and photographs of many newly discovered pictographs.

Through special funds provided for experimental biology in the Museum it has been possible from time to time to send collectors into the field to obtain living material for investigation. Toward the close of the year, the Museum combined with the National Zoological Park in sending Mr. M. K. Brady to southern Florida to obtain living amphibians and reptiles, and the large collections secured have been used in furthering investigations as to the rôle of endocrines in evolution.

### RESEARCH

Every true scientist is continually seeking to uncover the mysteries of the earth and the life processes of its inhabitants. Our staff members are adding their quota to the ever-growing fund of human knowledge.

*Vertebrate Palæontology.* During the past year Honorary Curator Osborn has been continuing and amplifying his researches on the measurement of the enamel length and thickness of proboscidean teeth. Under Professor Osborn's direct supervision in the two months spent in England, Mr. E. H. Colbert, research assistant, took many new measurements of specimens in the British Museum (Natural History) and in the Norwich and Ipswich Museums. Mr. Colbert also examined numerous proboscidean specimens in the British Museum in order to clarify certain elements of confusion in classification. The data from these researches are to be incorporated in Professor Osborn's forthcoming great monograph on the Proboscidea.

Preparation and study of the extensive 1930 Mongolian collection have been going forward since its arrival at the Museum in April, and efforts have been concentrated chiefly on the Amblypoda, Proboscidea and titanotheres. The preparation of the Amblypoda has been completed; several of the more important proboscideans are also finished; preliminary studies on these two groups have been made by Osborn and Granger, and two *Novitates* articles prepared for publication.

In the preparation of an almost perfect skeleton of a small reptile (discovered in June by Curator Brown in the Middle Triassic beds of Arizona), which he believes to be ancestral to the crocodiles,

a new method has been employed which contributes vastly to our means of accurate study of fossil specimens. During the past year a hydro-colloidal material (Negocoll) was perfected in Switzerland for taking casts of the human body or other objects, which gives a more precise impression than any substance previously used. In the preparation of this skeleton, the upper and lower surfaces were exposed, after which impressions were made in Negocoll. From these impressions a cast was made in beeswax and the two halves were united by warming and shaping wherever out of alignment. Disorganized sections, as well as limb bones, were shaped separately. From the beeswax specimen, hollow plaster casts were made in the usual way and the parts assembled exactly as the reptile appeared in life.

Further, in the study of this specimen, the dermal plates were found too delicate to be removed and for the first time in this laboratory an X-ray was used successfully to reveal the internal skeleton. Thus by combining these highly refined methods of preparation, the complete skeleton of this ancient reptile has been revealed, contributing greatly to the elucidation of several of the puzzling and much-discussed problems of anatomy.

The Scarritt Patagonian Expedition returned to Buenos Aires from Patagonia on May 15. The specimens of the expedition were sent to New York as soon as they could be cleared, and Doctor Simpson stayed in Argentina until October 10, doing research in the museums there. The greater part of this time was spent in the Museo Nacional de Historia Natural Bernardino Rivadavia in Buenos Aires. A thorough study was made of the *Notostylops* and *Astraponotus* faunas in the Ameghino Collection, work important in itself and also essential for the identification of our own collection since almost all the types of previously known genera and species are in the Ameghino Collection. This study has long been an outstanding necessity, but the collection as a whole has never before been available to any student except Ameghino himself. About five weeks was spent at the Museo de La Plata, making a similar study of the smaller but also important Roth Collection. The Museum authorities, and particularly Dr. M. Doello Jurado, Director of the Museum in Buenos Aires, and Drs. L. M. Torres and A. Cabrera of the Museum of La Plata, provided every facility for this work. The Museo Nacional plans to publish an illustrated revision of this part of the Ameghino Collection as a product of Doctor Simpson's work on it.



*Minerals and Gems.* The crystallographic research of the Department of Mineralogy has been concentrated upon those problems of crystallogenesis toward the solution of which many of the investigations undertaken by the Department and carried on by Curator Whitlock during the last few years have paved the way. A crystallographic study of fluorite published in *Novitates* is a contribution of this character.

*Geology and Invertebrate Palaeontology.* In addition to extensive and exacting editorial and literary obligations, Curator Reeds has employed the Department of Geology in the preparation of world maps. The work was initiated by Professor Osborn, and the earliest phases of the draughtsmanship were placed in the hands of the late Mrs. Sterling. Doctor Reeds revised and completed the "Homalographic Base Map of the World" and prepared a "Homalographic Base Map of the World with the Pacific Ocean Incised." These maps were primarily intended for plotting general zoogeographic distribution. Dr. Ernst Antevs was also engaged to plot on these world maps the Pleistocene glaciations I, II, III and IV, together with the three Interglacial periods, and these maps of the Pleistocene glaciations will be used particularly in Professor Osborn's forthcoming new edition of "The Age of Mammals."

The re-weighing of the smaller meteorite specimens in the Museum collection was concluded; new determinations as to the weight of these specimens were desired for entry in the Catalogue of Meteorites, the preparation of which is progressing. A number of meteorites were sawed, their surfaces polished and etched. The request of Dr. F. Paneth for 100 grams of each of the three Cape York meteoritic irons, for determining the helium content and the age of the specimens, was granted. The teeth of various fossil Proboscidea were also sectioned and polished for Professor Osborn.

*Living Invertebrates.* The scientific work of this Department naturally falls into two categories, namely, research work for publication and research work for Museum exhibits.

The outstanding achievement for the year 1931 under the former heading is the completion by Associate Curator Van Name of his noteworthy monograph on the land and fresh-water isopods of America, including the entire American continent. This is the most important piece of work yet published on the subject and will stand with Harriet Richardson's famous monograph on the marine

isopods. Doctor Van Name has also continued his work on ascidians in connection with an article which has appeared in the *Bulletin* during the year, and is undertaking the revision of a chapter on ascidians for the coming new edition of Professor H. S. Pratt's "Handbook of Common Invertebrate Animals."

Curator Miner has considerably advanced his field book of seashore life which it is hoped will be in press by the fall of 1932. This will cover the majority of the invertebrates of the shallower portions of the oceanic shelf from Labrador to northern Florida, and will include illustrations of all the most important forms. Dr. Miner has also continued his work on corals of the West Indies.

Two papers by Research Associate Treadwell appeared in *Novitates*, entitled "A New West Indian Polychætous Annelid," and "New Species of Polychætous Annelids from California, Mexico, Porto Rico and Jamaica." A paper by Lee Boone, entitled "A Collection of Anomuran and Macruran Crustacea from the Bay of Panama and the Fresh Waters of the Canal Zone," was published in the *Bulletin*. Professor Filippo Silvestri has prepared an important paper, based upon Museum collections, which will shortly appear in the *Bulletin* under the title, "A New and Extraordinary Genus of the Diplopod Family Polydesmidæ from British Guiana." Professor Silvestri is working up an extensive series of myriapods collected by Museum expeditions in the West Indies, the results of which will be published by the Museum and in an article for the New York Academy of Sciences.

An important article, based upon nudibranch mollusk material soon to be incorporated in the Museum collections, has been completed for the press by Professor Leslie A. Chambers of Texas Christian University. Research Associate Myers has pursued his work on rotifers and has continued to revise and add to the Museum collection of mounted rotifers, now the largest and finest in the world.

An important piece of work has been finished under the auspices of the Museum by Professor Hubert Lyman Clark of Harvard University, entitled "The Echinoderms of Porto Rico and the Virgin Islands." This is based upon material collected by expeditions conducted jointly by the New York Academy of Sciences and the American Museum of Natural History and is to be published as a part of the Scientific Survey of the Academy. Another part of this Survey, based upon the Crustacea collected under the same

auspices, has been partially completed by Miss Mary J. Rathbun, Dr. Waldo L. Schmitt, and Mr. Clarence R. Shoemaker, of the United States National Museum. Similar researches are in progress on the annulates of Porto Rico by Research Associate Treadwell; on the mollusks of Porto Rico by Professor H. A. Pilsbry, and on the Bryozoa of Porto Rico by Professor Raymond C. Osburn.

The extensive collections of mollusks of the Solomon Islands secured for the Museum by the Whitney South Sea Expedition are now being studied by Professor B. Rensch of the Museum of the University of Berlin and Professor William J. Clench of the Museum of Comparative Zoology of Harvard University.

*Entomology.* In a museum, "research" is apt to mean the description of species previously unknown to science. The American Museum's small staff of entomologists and their collaborators have far from neglected this field. By the middle of December the descriptions of 272 new species had been published in the 1931 *Bulletin* and *Novitates*. More than a thousand new species of insects have been described by our staff or from our material in the past five years. Of course, with the publication of these descriptions of hitherto unknown species have gone the identification and recording of many more known species, the making of "keys" to help others in such work, and consideration of problems of distribution.

Another sort of research is often called "biology" in a restricted sense. This is not so commonly done in museums but, particularly as experimental biology, has been a feature of our department of insect life for the past twenty years. The subjects studied have included, among numerous laboratory problems, the demonstration of the ability of flower-visiting insects to see ultraviolet, and the prevalence of ultraviolet flowers, bacterial diseases of insects, what controls the diurnal rhythm of insects, the ability of insects to withstand both high and extremely low air-pressures, and the ability of insects to learn and to meet unusual "problems."

*Ichthyology.* Through the courtesy of the officials of the British Museum (Natural History), the great collection of 700 fish skeletons in that museum was made accessible to Curator Gregory during his recent six weeks' stay in London; he was thus able to round out his studies on the construction of the skulls of fishes,

upon which he has been at work for several years. The manuscript, entitled "Fish Skulls: A Study of the Evolution of Natural Mechanisms," was completed in December and awaits publication.

Curator Nichols has continued his studies on the Chinese fresh-water fishes. Material from Kwantung Province, obtained through W. E. Hoffmann of Lingnan University, Canton, has been compared with that from more northerly provinces of China. Extensive recent literature by various Chinese students, especially an "Index Piscium Sinensium" of 290 pages published by St. John's University, Shanghai, has been critically studied and materials for a comprehensive account of the fresh-water fishes of China are being assembled.

Curator Nichols and Assistant Curator La Monte have described in four articles in *Novitates* several small but interesting collections of African fresh-water fishes. The most noteworthy of this lot is a new Atherinid genus from Madagascar. This fish is of considerable faunal interest, because it adds another aberrant fresh-water genus of this family to those already known from this island and tends, therefore, to give the fauna of Madagascar a more endemic and less African aspect.

The fossil fishes collected by the Central Asiatic Expeditions in Mongolia have been identified by Dr. L. Hussakof, whose report awaits publication.

*Herpetology and Experimental Biology.* With the recent advances in the study of heredity and endocrinology, all students of nature are greatly interested in the possible relation between the glands of internal secretion and evolution. Work this year in the Museum's laboratories of experimental biology have shown that a new type of salamander may be created by treating an aquatic species with thyroid solutions. Some animals are, therefore, potentially able to react to hormones which are not adequately represented in their own bodies. If they had inherited more effective endocrine organs they would be different animals from what they are to-day.

In last year's report mention was made of the hormones controlling the breeding cycle of vertebrate animals. This year certain very rare species of frogs and salamanders whose life history was unknown were brought to the laboratories and made to breed. Important data on the eggs and larvæ of these species were obtained and have been used to elucidate the relationships of the

species. The type of courtship characteristic of a species has often an important influence on the genesis of secondary sexual characters such as the bright colors of many male fish, lizards and birds. The courtship of animals can usually be more readily analyzed in the laboratory than in nature. This year one report on the courtship of certain salamanders was published by Curator Noble, and other studies are in progress. The modern naturalist armed with hormones and an adequate live room may look forward to working out in a short time the details of habit which have baffled the naturalists for several generations.

Many of the activities of animals are controlled by hormones. During the past year the dependence of the molt of lizards upon hormones was studied by Dr. Noble and Mrs. Bradley, and two reports published. They are also studying the influence of endocrines in molding the shape of scales. One of the least known endocrine organs is the pineal or median eye. In reptiles this appears to be a light-perceiving organ, and various studies are in progress to elucidate its true function.

The relationships of animals are worked out by a study of their anatomy and by tracing their fossil record. Even when our knowledge of an animal's structure is complete it is still sometimes impossible to decide on the relationships. Such is the case with some of the large salamanders of the United States, namely, *Siren* and *Necturus*. During the past year the Museum has been cooperating with Dr. Alan Boyden of Rutgers University in his study of the blood chemistry of these salamanders. By means of blood tests the degree of affinity of animals may be determined. It is expected that this new method of approach to phylogenetic problems will yield a solution to the most perplexing questions of relationship.

*Ornithology.* Curator Chapman completed the preparation of a new edition of his popular "Handbook of Birds of Eastern North America," which will be published in January, 1932. His report on the upper zonal bird-life of Mt. Roraima and Mt. Duida, completed last year, has been published, as has also a shorter paper containing the description of a new bird from northeastern Brazil. After completing this work, he returned to Barro Colorado Island, Canal Zone, where he is continuing his field studies of tropical wild life, giving especial attention to the interesting group of birds known as the tinamous.

Doctor Murphy has been working on the final draft of his report on the oceanic birds of South America, a work based on the Brewster-Sanford collection. This report will contain descriptions of the coasts of South America and adjacent islands, including also Antarctica, with a discussion of the factors of avian distribution and life-histories of over 160 species of birds.

Doctor Chapin was in the field during the early part of the year, and upon his return from Africa resumed work on his forthcoming comprehensive report on the birds of the Congo, which is now in proof.

Mr. Zimmer has continued his studies of the distribution of bird-life in Peru based primarily upon the Peruvian species in their relationship to the birds of the surrounding countries, but treating also the extralimital forms in proportionate detail. The publication of the series of preliminary systematic papers has been started; the first two have been issued during the year, and others are in preparation.

Mrs. Naumburg, following the publication last year of her report on the birds of Matto Grosso, Brazil, began and is making progress on the study of the birds of eastern Brazil.

Dr. Ernst Mayr, of the Zoological Museum of the University of Berlin, Germany, who came to the Museum during the year as visiting research associate, has devoted his time to the critical study of the birds of the South Sea Islands obtained by the Whitney South Sea Expedition, of which he was for a time a member. His program embraces a full report on the birds of the Solomon Islands, with discussions of the various endemic species and their representative extralimital forms. A survey of the birds of New Guinea is also in project. One of the five papers in the series already published by Dr. Mayr contains a contribution by Mr. Hannibal Hamlin, also formerly a member of the Whitney South Sea Expedition.

The manuscript of a report on the birds of Guatemala by Mr. Ludlow Griscom, formerly a member of the department, now on the staff of the Museum of Comparative Zoology of Harvard University, was completed and delivered to the Department of Publication. This report was begun by Mr. Griscom when he was affiliated with the American Museum of Natural History, and is based in large part on the collections of this institution.

*Mammalogy.* Research on various problems of mammalogy has progressed during the year, although demands of expeditions and exhibition have, in some instances, interfered with plans of study. Curator Anthony has been able to give but little consecutive attention to his research program because the greater part of his time has been devoted to the organization of the Pacaraima-Venezuela Expedition, the plans for new exhibition halls, the conservation of North American mammals, and the routine of administration.

Assistant Curator Goodwin completed his studies on the mammals of Connecticut, and the manuscript of his volume is now in the hands of the editor. He has also been studying an important collection of mammals from Guatemala and has assisted Mr. Prentiss Gray in collecting data for the new volume, "Records of North American Big Game." Mr. Goodwin has been revising the series of North American mammals in the department and indexing the specimens, with the ultimate object of compiling a complete list or catalogue not only of what is in the department, but of what is needed to fill the gaps.

In cooperation with the Department of Comparative Anatomy, Assistant Curator Hatt has completed an exhaustive study of the vertebral columns of ricochetal rodents, submitted to Columbia University as a doctorate thesis, and accepted for publication in the *Museum Bulletin*. The habit of leaping, more or less in the fashion of the kangaroo, has been adopted independently by several subfamilies of rodents in different parts of the world. The leaping habit is accompanied not only by definite changes in the feet and limbs but also by marked structural adjustments in the backbone, and Mr. Hatt's researches throw much light on the reasons for the peculiar characters of the backbone that distinguish leaping rodents from the ordinary rat type. He has been working upon such mammal groups of the Belgian Congo material as have not yet been published and has begun upon the sirenians and the pangolins. In addition to this significant research, he has devoted some time to studies on distribution and life histories of Michigan mammals.

Assistant Curator Tate has submitted to the editor a comprehensive revision of the genus *Marmosa* (marine opossums). This study is based upon the collections of the world, for Mr. Tate has visited practically all of the museums, with the exception of those in South America, where types or important specimens are located.

He has spent some months searching publications on mammals and card-indexing the literature dealing with South American species, thus compiling a most valuable working bibliography. This work was deemed advisable in the building up of a condensed reference or synoptic collection series of South American mammals, which should prove of great usefulness in prompt identification of material received from the field.

Mr. William J. Morden, Field Representative, has been searching literature for data on the so-called wild camels of Asia, concerning which there seems to be some doubt. If camels exist which are truly wild and not merely escaped domestic stock, Mr. Morden is considering plans for an expedition to secure specimens of these animals for the new Hall of North Asiatic Mammals.

Mr. T. D. Carter has been working upon the collection of mammals made by the Sanford-Legendre Abyssinian Expedition, of which he was a member. He also has assisted Mr. Prentiss Gray in the measuring of large game heads for the new volume.

*Comparative and Human Anatomy.* The outstanding research of the year in this department is the monograph on the auditory bulla of recent and fossil mammals by Dr. C. J. van der Klaauw of the University of Leiden, published in the *Museum Bulletin*. As a result of his studies in this Museum and elsewhere, Dr. van der Klaauw has now made available for palæontologists this excellent digest of the extensive literature, adding thereto his own critical new observations on a region of considerable complexity. A study of the characters of the middle ear has often furnished valuable data for the correct determination of the relationships and classification of recent and fossil mammals, and this work will assuredly prove to be of lasting value.

Associate Curator Raven, after recovering from a severe illness contracted in West Africa during his search for gorillas, continued his earlier investigations on the distribution of mammals in the Indo-Australian region. He has located and plotted on maps the occurrence and distribution of about two thousand species and subspecies of mammals as recorded in the literature and checked by his own extended field and museum experience. These maps should settle for all time the vexed problem of the reality of "Wallace's line," so far as mammals are concerned. The only mammals that have succeeded in crossing this "dead-line" are a few very small





Mounted specimens of Robert's Gazelle for the Plains Group for the Akeley African Hall  
Gift of Daniel E. Pomeroy



Lesser Koodoo Group for the Akeley African Hall  
Gift of Daniel B. Wentz

forms which may have clung to the "island rafts" that occasionally get across wide ocean straits.

Curator Gregory, with the skilful assistance of Mrs. Ziska, prepared a new and carefully revised series of large drawings illustrating the progressive changes in the form and functions of the various bony elements of the upper and lower jaws of the long evolutionary series of fossil and recent vertebrates from fish to man. These illustrations and an article on the subject are being published in the *International Journal of Orthodontia*. In conjunction with the Department of Fishes, Curator Gregory completed his studies on the natural mechanisms of the skulls of fishes, together with his manuscript on this subject, for publication in the *Museum Bulletin*.

Dr. Frederick Tilney, the well-known neurologist, working in cooperation with this department and the Department of Vertebrate Palæontology, completed the first part of his investigation on the comparative form of the brain in fossil and recent mammals, which will appear in the *American Journal of Neurology*.

Dr. George E. Brewer investigated the jaw musculature of certain species of bears, in response to the request of a Museum colleague.

Miss Theodora Nelson and Miss Donnie C. Getchell continued from time to time their investigations on the musculature of the backbone of vertebrates.

Professor H. O. Elftman, at the College of Physicians and Surgeons, studied the gorilla specimens secured by Mr. Raven and completed his investigation on the muscular floor of the pelvic outlet; his paper on this subject awaits publication. Professor Schultz of The Johns Hopkins University has also used our gorilla material in his studies on the comparative measurements of man and anthropoids.

Associate Curator Chubb has made a thorough study and investigation of the movements and postures of zebras, as material for mounting his skeleton of a Chapman's zebra (*Equus burchelli chapmani*), and has contributed an article, on "Vestigial Clavicles and Rudimentary Sesamoids: Their Development and Function in Mammals," to the *American Naturalist*.

*Anthropology.* In anthropology, field work is an integral part of the research program of the Department in that the studies made

in the field are completed in its laboratories. For some time the research program for anthropology has been organized as a group of long-time projects rather than a hit-or-miss opportune procedure. The Department now has several series of objectives to work out; a prehistoric chronology for the highland area extending from Mexico to Peru; a study, jointly with the Bishop Museum and the University of Hawaii, of the races of the Pacific, especially the oriental population of the Hawaiian Islands; the investigation of the early prehistoric archæology of Asia, Africa, and the New World; and a study of the cultures of living tribes in the Melanesian area. These are the main objectives upon which the interests of our scientific staff are focused. Each member of the curatorial staff has engaged in field work and when in the Museum gives part of his time to the study of his collection and the preparation of reports for publication.

Curator N. C. Nelson, the senior specialist in prehistoric archæology, devoted his research time this year to a study of the materials collected by Mr. Alonzo W. Pond and himself as members of the Central Asiatic Expeditions, and to a comparative study of the archæology of the Pacific states, British Columbia, and Alaska. The latter involved a thorough review of the Museum collections from these areas. The general objective in these investigations is an intimate understanding of the development of man in the Early Stone Ages. In this connection, a special study has been undertaken of the so-called Folsom culture as first revealed by palæontological explorations in New Mexico. Mr. Richard M. Snodgrass has studied intensively the geographical area surrounding Folsom, with a view to determining the nature and extent of this culture, giving special attention to its antiquity.

Investigations relative to the prehistoric chronology of Mexico and Peru have been carried on under two field programs, namely, the Valley of Mexico and the Peruvian Andes. Work in the Valley of Mexico was under the direction of Mr. Clarence L. Hay and Associate Curator George C. Vaillant. The Peruvian project was undertaken by Dr. Ronald L. Olson, formerly Assistant Curator in this Department, and will be carried on by Dr. W. C. Bennett, who recently joined the Museum staff. Doctor Bennett was previously engaged in ethnological research on the Tarahumara Indians of Mexico and since coming to the Museum has taken up the intensive study of the culture of these people and re-

viewed the collections in the Museum from this tribe made many years ago. Substantial progress has been made on the Mexican project, Associate Curator Vaillant having tentatively established several culture horizons for the Valley of Mexico. The work of Doctor Olson in Peru was preliminary in nature, but nevertheless gives certain leads to the early chronology of that region. Upon his return, Doctor Olson prepared an analytical study of the literature from which correlations with his own results have been made, resulting in a revision of the old accepted chronologies for the area.

Continuing the study of Pacific races, Doctor Shapiro spent part of the year in the Museum working over the materials available. So far, extensive measurements have been made on the Chinese and Japanese populations in Hawaii, the results of which have been tabulated, and as soon as Doctor Shapiro returns from Japan and China with check data, these will be prepared for publication.

Before leaving for New Guinea, Doctor Mead completed the analytical study of data gathered last year on the ethnology of Indian women as observed in a particular tribe. This is a pioneer study of the present culture status of a primitive people and promises to be an important contribution. The results will appear in a book now in the hands of the publisher. An analysis of the kinship system of the Island of Manus in the Admiralties was also completed by Doctor Mead prior to her departure.

Mr. Ichikawa has identified a large part of an archæological collection representing the early prehistory of Japan.

*Central Asiatic Expeditions.* The temporary abandonment of field operations gives a not unwelcome opportunity for the members of the Expedition staff to concentrate on research and publication. The Leader of the Expeditions, Dr. Roy Chapman Andrews, has completed the manuscript of Volume I of the final reports, entitled "The New Conquest of Central Asia." This extensive volume comprises a narrative of the field work of all the five expeditions into Mongolia, and endeavors to translate into popular style the most important discoveries in all branches of science represented on the expeditions. The volume is in the hands of the editor and is expected to be published in 1932.

Mr. Pope has been released from all curatorial duties and directed to concentrate his efforts upon the preparation of Volume X, on reptiles and batrachians. To make this report of the utmost

value, the Expedition is sending Mr. Pope to Europe during the coming year to study the Asiatic material in foreign museums. Volume XI, on mammals, is being prepared by Dr. Glover M. Allen, and Volume IX, on fishes, by Mr. John T. Nichols. Both these volumes are well under way and should reach completion by the end of 1932. The field maps made by Captain W. P. T. Hill on the 1928 Expedition are now in the hands of the printers. Work has been begun energetically upon the palæontological volumes under the direction of Professor Osborn and Mr. Granger.

Too much emphasis cannot be placed upon the importance of all these volumes of the Expedition's reports. Those on mammals, fishes and reptiles will be in the nature of handbooks wherein all the available material from China and Mongolia will be described and critically analyzed. It is the first time that such an attempt has been made and they will be of inestimable importance to any student of these sciences.

#### PRINTING AND PUBLISHING

For years the American Museum has annually expended large sums of money in exploration, exhibition and research. In the last quarter of a century the amount has exceeded several millions of dollars and represents a museum investment of tremendous proportions. To reap an adequate dividend on so extensive an investment of funds as well as of physical energy and effort, it is essential that the results of all our activities should be widely disseminated among scientific institutions and made available especially to students. The currency of this dividend, that great medium of intellectual exchange, is the printed word. For nearly thirty years the Museum has maintained a printing department of its own and it publishes the greater part of the literary production of the Scientific Staff and associated workers. Through this channel, and through such professional agencies as are often used or required, constantly issues a wealth of publications valuable to the entire scientific world.

The general publications of the Museum continue in serial form from year to year and constitute the bulk of our printed material sent in exchange to all principal libraries and institutions of learning.

1. The oldest of these is the *Bulletin*, now entering its sixty-second volume, since 1881 the medium for establishing final and

formal record of Museum exploration and research in all departments, until 1906, when

2. The *Anthropological Papers* were initiated to receive all papers, similar to those in the *Bulletin*, covering the very specialized and distinct science of anthropology.

3. The *Memoirs* of the American Museum were begun in 1893 and comprise such monographic reports as are too long and exhaustive to be printed in the *Bulletin*. Sixteen volumes of the *Memoirs* have been completed.

4. In 1921 the *American Museum Novitates* was started with the two-fold purpose of establishing immediate, although preliminary, printed records of new discoveries in mineralogy, palæontology and zoology, and of facilitating general research by making those discoveries known and available as early as possible.

5. Probably the most widely read of the regular publications of the Museum is the journal *Natural History*, containing popular articles from the whole field of natural history, contributed not only by members of our Scientific Staff but by other well-known explorers and scientists. This magazine was founded in 1900, is issued bi-monthly and has completed its thirty-first volume.

Special serial publications are issued from time to time and are projected in their separate entirety to bring out the discoveries of extensive expeditions carried on over many years, or to present as a unit a single investigation.

1. The series of eleven large quarto volumes, the *Memoirs of the Jesup North Pacific Expedition*, under the editorship of Dr. Franz Boas of Columbia University, is an exhaustive study of the relations between the tribes living on the North Pacific coasts of Asia and America. Begun in 1898, the series is complete with the exception of a part of the last volume.

2. The *Zoology of the Congo* contains the results of the expeditions to the Congo conducted by Mr. Herbert Lang and Dr. James P. Chapin, with the cooperation of the Belgian Government. Nine of the twelve octavo volumes have been completed, and Doctor Chapin's first volume on birds is in press.

3. Of the twelve volumes of the Central Asiatic Expeditions publications, *The Natural History of Central Asia*, Volumes II and IV have been issued; Volume I, "The New Conquest of Central Asia," is in preparation. A prospectus of the remaining volumes will be found on the cover of this Report.

4. The memoir, by Dr. Robert Cushman Murphy, on the Brewster-Sanford Expedition for the collection of South American oceanic birds, is, as mentioned above, in final draft and nearly ready for the printer. A similar publication will ultimately record the results of the great ornithological survey of oceanic birds which is being carried on by the Whitney South Sea Expedition.

5. In the series of the *Bashford Dean Memorial* volume, the editor, Dr. E. W. Gudger, has put through the press Articles II and III, and Article IV was in type before the end of the year.

The annual record of publication includes practically every scientific department; the quantity and increase can best be visualized from Curator Daniel's statistical report of printing.

In 1931, 2,069 pages of the *Bulletin* and *Novitates* appeared, an increase of sixty-five per cent. over the output of 1930. Further, in regard to the *Bulletin*, title-pages and indices have been completed for Volumes XLIX, L and LIV, thus making it possible to bind and distribute these volumes. Beginning with Volume LXII, the *Bulletin* will be distributed by articles, instead of by complete volumes as heretofore, which will make all our contributions available to science immediately upon publication. While at the end of the year 1930 there were approximately 2,077 printed pages in press, in 1931 there were 3,028 pages, an increase of forty-six per cent. At the end of 1930, there were approximately 3,324 pages of untouched manuscripts on hand which during 1931 were reduced to 1,880 pages, of which 1,500 pages are being held for an opinion by the Committee on Scientific Publications. *Anthropological Papers* show only a slight increase over 1930, but the total of scientific publications increased last year more than two-thirds over 1930.

In addition to this output of scientific papers, President Osborn's *magnum opus*, the Proboscidea Memoir, has continued to progress until there are now 929 pages in type and one chapter in galley form, not yet paged, in the composing room, and this great work may now be said to be in the final stages of its preparation.

To these demands on the Printing Department should be added the enormous quantity of miscellaneous pamphlets, announcements, labels, tickets, and stationery required especially by the Departments of Administration and Education, totaling over 1,300,000 pieces in one year and constituting the greatest single task of the Department of Printing. The Curator reports none the



less the maintenance of an enviable reputation for high standards in his department.

Shifting the perspective of the publications of 1931 from this actual physical status to the works themselves presents a diversity and richness of subject and achievement. The alliance between study and written expression is so close that a very significant portion of the contemplated or actual publication properly belongs and is treated in this Report under the heading of Research; other work, in published form, is here mentioned.

A phase of publishing often too little appreciated is the colossal task of the editor. He receives nothing of the glory accorded original composition, but in some instances the intricate, time-consuming duty of editing manuscripts involves unbelievable labor and often an unusual catholicity of scholarship. In this realm Curator Reeds has accomplished the editing of "The Permian of Mongolia" by Dr. Grabau, Volume IV in *The Natural History of Central Asia* series; a sixteen-page circular and other publications on the Central Asiatic Expeditions; twelve *Novitates*; six articles for the *Bulletin*, four of the Crocker Land Expedition Reports by W. Elmer Ekblaw, and fifteen sheets of the 1928 Mongolian maps. Besides this work, Doctor Reeds has himself written a book, "The Earth, Our Ever-Changing Planet," issued by The University Society, Inc.; an important article in *Natural History*, and other miscellaneous articles and guide booklets. -

Other valuable editorial work has been done by Dr. E. W. Gudger on the Dean Memorial volumes in putting through the press the following contributions:

"The Genital System of the Myxinoidea" by J. LeRoy Conel.

"The Segmentation of the Egg of the Myxinoid, *Bdellostoma stouti*"  
by E. W. Gudger and B. G. Smith.

These two papers are based in part on notes and drawings left by the late Bashford Dean; the principal plates are photolithographs from the beautiful drawings made by Doctor Dean thirty years ago.

"The Structure of *Dinichthys*" by Anatol Heintz.

This last paper concerns an important reconstruction of the skull of an early group of fish-like chordates to which Doctor Dean devoted a great deal of study.

Dr. Gudger has also carried on the work of compiling the indexed card catalogue of literature for the next volume of the Bibliography of Fishes, and during the year has completed and published many shorter papers.

The year 1931 records the publication of a volume, partly editorial in nature but containing considerable original historical and palæontological material, by Professor Osborn, entitled "Cope: Master Naturalist." This bibliography of one of America's most eminent palæontologists, who was also expert and informed in many other branches of learning, is built chiefly upon the voluminous letters written by Cope during his entire lifetime, and is illuminating not only in the history of the science of palæontology but in the portrayal of the life and character of E. D. Cope.

Much of the taxonomic as well as the biological work on the Amphibia in the American Museum has been summarized in a volume of 577 pages, "The Biology of the Amphibia," written and published by Curator Noble. The work presents a new classification of the Amphibia based principally on the extensive collections of the Museum and will serve as an exhaustive, as well as authoritative, textbook or treatise on this subject. The collections of reptiles and amphibians have grown at the rate of eight thousand or more specimens a year, and the scientific reports on this material have kept nearly abreast of the growth. This year an extensive account, by Assistant Curator Pope, of the Amphibia secured by the Central Asiatic Expeditions in southeastern China was published. A complete treatment of the South American lizards in the collection of the American Museum appeared from the pen of Dr. and Mrs. Charles E. Burt, who have also in press a report on the herpetological collections secured by the Whitney South Sea Expedition.

Despite the great amount of time spent by the staff of the Department of Mammals upon routine administration and exhibition, in the year 1931 a great many pages of manuscript were completed and published. Every member of the Department has contributed one or more articles to purely technical or more popular periodicals, and several longer reports are completed and only await publication.

The Department of Anthropology has been extremely active during the past year and reports a notable list of publications. These include three contributions from Doctor Wissler, Doctor

Vaillant and Doctor Shapiro to *Anthropological Papers*, with three more in the hands of the printer, several revisions of *Guide Leaflets* and *Handbooks*, and six articles in *Natural History* by various members of the Department.

In Comparative Anatomy the Curator contributed four articles on the origin and evolution of vertebrate animals including man, to *Popular Science Monthly* in collaboration with Mr. Michael Mok. Doctor Gregory also published, as Curator-in-Chief of the Department of Living and Extinct Fishes, two articles on Chinese fishes in the *American Museum Novitates*; two in the *Lingnan [China] Science Journal*, and one, on the history and distribution of carps and catfishes, in *Copeia*.

#### DISTRIBUTION OF PUBLICATIONS

A compilation of the names of the 972 organizations on our exchange lists would make a fairly complete "Who's Who in Natural History." Through an ever-widening contact with colleagues in all countries we not only disseminate the results of our research but receive in return priceless contributions on many subjects in a variety of languages. Our series are now being distributed on exchange as follows:

<i>Bulletin</i>	329 copies	<i>Natural History</i>	560 copies
<i>Novitates</i>	209 copies	<i>Annual Report</i>	275 copies
<i>Anthropological Papers</i>	216 copies	<i>Guide Leaflets</i>	175 copies
<i>Memoirs</i>	238 copies	<i>Handbooks</i>	111 copies
Separates on various subjects			189

In addition, 100 copies of each paper or article appearing in the various scientific series are distributed to individuals working in the particular field with which the paper is concerned, the list of recipients being supplied by the author.

The interest of the public in the literature contained in the reading tables distributed throughout the various exhibition halls was proved by the fact that 485 visitors availed themselves of this opportunity to learn more about the exhibits and the subjects they represent.

The Osborn Library of Vertebrate Palæontology has continued to render invaluable service to the members of the Staff and to scientists of the vicinity.

By the sale of 2,121 *Handbooks*, 11,930 *Guide Leaflets* and 3,643 *General Guides*, the Museum has furthered the distribution of popular scientific literature at a minimum cost to the public.

One thousand eighty-five books were bound by the Museum Bindery, in addition to which the large number of pamphlets received during the year were placed in Lithomount covers by the Library staff.

### THE LIBRARY

Much has been said in the foregoing pages of research, collecting and exploring. A few words might perhaps here be said concerning records. Without records, research could make little progress. The written statements of past discoveries and experiences furnish the scientist and the student of the day with the groundwork upon which to base his own enterprise, whether it be the solution of a new problem, the planning of an expedition, the identification of a collection, or the assembling of an exhibition group. Books must be classed as tools of paramount importance, as indispensable as the microscope, the test-tube, the scalpel or the geologist's pick. They are as necessary to the zoologist or palæontologist as to the geologist or archæologist; they constitute the one common need of all research, and the Library, far from being a storehouse of musty tomes, supplies the very life-breath of all scientific activity.

Every individual worker naturally is concerned with the proper functioning of this one department, and a heavy burden of responsibility rests upon the librarian. Old records must be furnished for comparison and confirmation; new records for information and inspiration; obscure references must be located; at a moment's notice the desired information, a picture, a map, a description of a species must be produced. Furthermore, the librarian must constantly watch and draw upon the second-hand market and the current output, in order to supplement the available reference material and maintain the high standard of the department.

The services of the American Museum Library are by no means limited to intramural needs. The Reading Room is frequented by scientists, students from the universities and schools, artists, travelers and representatives of industrial firms, newspapers and magazines. Since the Library is often a court of final appeal, the problems which these visitors present are as a rule most interesting and frequently difficult. During the past year there were 1,609 such

readers for whose use 5,175 books were brought from the shelves. In addition, 8,426 books were charged out to members of the Staff and on inter-library loans.

There is always a certain number of important volumes whose scarcity makes it impossible for even the larger libraries each to own a copy. To overcome this difficulty as much as possible, there exists an inter-library loan system whereby such volumes may be borrowed. During the year 1931, fifteen to twenty Museum books each month traveled to almost every state in the Union, as far west as California, supplementing the collections of forty-seven of the outstanding universities and research institutions in the country. We, in turn, availed ourselves of the privilege of obtaining for our Staff certain volumes without which work would have been delayed or greatly handicapped.

Such extended and constructive usefulness should most certainly justify the constant efforts which are being made to increase the resources of this, one of the finest natural history libraries in the western hemisphere.

#### PREPARATION AND EXHIBITION

Preparation in Museum activities signifies those processes and methods by which objects of nature are transmuted from the living actuality of the field, the ocean and the sky into the reproductions of the museum exhibit. The technique of preparation includes not only all that was implied by the old term taxidermy but all the recent discoveries and refinements of method, developed and applied by the late Carl E. Akeley, James L. Clark and others, which have elevated taxidermy from an ordinary trade to an art demanding the highest manual skill and imagination. The responsibility of Preparation extends from the mounting and presentation of specimens to the most minute detail of the accessories of an exhibit, such as the reproduction of trees, plants and flowers and the creation or simulation of rocks and soil. The conception, design and execution of settings and backgrounds must be artistic as well as absolutely truthful representations or copies of nature. Preparators are, therefore, important elements in museum organization. Under the direction of Mr. James L. Clark a fine corps of these technical artists has been developed and to their talent and skill can be attributed much of the beauty and value of our exhibits.

In 1931 the personnel of the Preparation Department devoted itself chiefly to plans and habitat groups for the four prospective new mammal halls already described by the President (pages 3-10), namely, the Akeley African Hall, North American Mammal Hall, North Asiatic Mammal Hall, Western Eurasiatic Mammal Hall, and to the Oceanic Hall which will contain the whales, seals, walruses and other aquatic mammals, also the unique Bahama Coral Reef Group which is being reproduced under the direction of Curator Roy W. Miner.

Every year witnesses steady progress in preparation; 1931 was no exception. Of the important work accomplished, mention may be made of the following:

In the preparation of the habitat groups for the Akeley African Hall, three of the Greater Koodoo have been completed, and for the Klipspringer Group four baboons and one klipspringer are mounted and three other animals have been modeled. Two dik-dik were also mounted for the Plains Group. The two specimens of Giant Eland, a fine bull and a cow, secured during the year by the O'Donnell-Clark African Expedition, are now mounted, and for the Water-hole Group three Thomson's gazelles were completed. The background of the Lesser Koodoo Group has been painted and carried as far as advisable until its final installation in the African Hall.

For the new North American Hall, a complete model on a scale of two inches to the foot has been made to facilitate the study of the best actual arrangement of groups for this hall and to solve graphically the various problems of proper ceiling, case-front treatment, and lighting.

For the new North Asiatic Hall, much preliminary work has been done in making several sketch models for the groups, and in the mounting of the fine Siberian Tiger Group, as well as working out a scale model of the hall itself for the study of the physical problems and the arrangement of the groups.

The Walrus Group for the Hall of Ocean Life has steadily gone forward, and we now have six specimens mounted, with the large bull and a baby yet to be completed. The work on the Coral Reef Group in the Hall of Ocean Life has continued as rapidly as possible, and considerable progress has been made. The coloring of the great half-domed background above the gallery has been completed with noteworthy results; a carefully designed and effective

method of lighting has been devised to illuminate this background; the coloring of the submarine background beneath the gallery has been started; an extension of the coral reef in the foreground has been modeled; and a large series of gorgonians, including sea fans, sea bushes, and sea whips have been prepared and colored for installation in the group.

In the Darwin Hall a series of fourteen invertebrate models has been completed or substantially advanced during the year, including models of two remarkable species of hydroids, three of nudibranchs, one echinoderm, and a series of eight models of typical rotifers illustrating the comparative anatomy of the group.

In the Hall of the Habitat Groups of Birds of the World, a group representing the bird life of the Kidong Valley, East Africa, the gift of Mr. Henry W. Sage, was completed and opened to the public on November 9th. The Gobi Desert Group of Bird Life is well under way, as well as the Congo Bird Group showing the bird life of the great equatorial rain forests. Four Emperor Penguins from the Byrd Antarctic Expedition were also mounted and the skins of eleven large birds were prepared for the study collections.

In the Morgan Hall of Minerals and Gems, twenty new models have been added to the series explaining atomic structure. Type specimens used for crystallographic study and recent investigation have been especially displayed and labeled with the illustrations from the articles describing them.

In the exhibition halls of the Department of Vertebrate Palæontology, a skeleton, including the carapace and part of the internal skeleton, of the Pleistocene glyptodont from Arizona has been mounted, and three skeletons have been remounted—the Irish Deer, Pliocene horse, and the Oligocene Titanotherium. Under the direct supervision of Professor Osborn, the installation of the great Proboscidea collection has been completed.

Progress often seems slow in exhibition work where there are so many details as in a Hall of Insect Life, but at least some progress has been made this year. The exhibit of more than a thousand different kinds of insects found in an ordinary suburban yard has been installed in new cases. The experiment of infusing "life" into the hall by the use of living insects continues to be a success and is being placed on a more permanent basis. With these outstanding features, a complete revision of old exhibits has been going on, with the hope that the hall may eventually become "a text-book

of insect biology in which the text is reduced to a minimum and the illustrations are real specimens."

The Flying Fishes exhibit, in which the similarities between flying fishes and flying machines are pointed out, was nearly completed at the close of the year. Carefully colored drawings have been prepared to illustrate the evolution of the Flying Fishes and their relationships to more normal types, and also the wide adaptive radiation of the scombroid fishes (tunnies, mackerels and their allies) arranged in a series as a "family tree." A tablet showing the records of big game fishes has been placed on exhibition and is kept up to date through the coöperation of the fishing editor of *Field and Stream*. The Preparation Department also completed for the Fish Hall a specimen of a very large Basking Shark.

In the Reptile Hall, two small groups contrasting the method of egg-laying in a terrestrial with that in an arboreal lizard have been placed on exhibition. Between the groups is an illuminated panel analyzing the reptile egg and explaining how the development of the calcareous egg-shell aided the evolution of vertebrate animals. These groups are unique in that all the animals are entire with their tissues merely infiltrated with paraffin. Of the several exhibits placed in the hall this year none has caused more favorable comment than the "rattling rattlesnake," a model of a rattlesnake with a real rattle which buzzes when a button is pressed. Behind the snake is a cross-section of a rattle with a label explaining how the rattle is formed and what its significance appears to be in the life of the snake. The success of this exhibit clearly shows the importance of dynamic demonstrations and working models in holding the attention of visitors. Another new type of museum exhibit is a collection of local reptiles and amphibians with each merely numbered. A label asks the visitor how many of these species he knows and calls his attention to an accompanying "take away" label where a key to the list of numbers is given. The most important function of an exhibition hall is to teach, and many ways of stimulating attention are being investigated.

Much work that would properly be called research is constantly necessary during the preparation of the numerous exhibits for the new Hall of the Natural History of Man, under the joint supervision of the Departments of Comparative Anatomy, Anthropology and Preparation. For example, carefully revised reconstructions of the skeletons of several important fossil vertebrates have been



prepared and completed, which have required intensive studies of the material and literature. For the Physical Anthropology section of this hall, under the direction of Doctor Shapiro, preliminary working sketches were prepared for sculptured figures representing the chief race types, together with detailed plans for the embryological and developmental part of the exhibit. Dr. George E. Brewer very kindly supervised closely the preparation of several large models of human anatomy. The Museum is under obligation to Professor Ernst Huber of The Johns Hopkins University who presented his original drawings of the facial musculature of a series of vertebrates from fish to man. Enlarged low-relief models of a selected series of these drawings were made for the same hall. In the Hall of Primates, a habitat group of five specimens of Nilgiri Langur has been completed and installed.

Early in the year, the new African Hall of Ethnology, dedicated to Their Majesties King Leopold and King Albert of Belgium, was opened to the public. It contains the extensive and valuable collection representing the culture of the Congo natives presented to the Museum in 1907 by the late King Leopold II. The future development of the Hall calls for a number of miniature groups representing the different culture areas.

The new Hall of South American Archæology was opened in November. The exhibit is devoted chiefly to the higher civilizations of the Andes, particularly Peru, but the more primitive tribes from other parts of South America are represented in so far as collections were available, and archæological specimens from the West Indies are included. The plan of installation was worked out by Dr. Ronald L. Olson who supervised the installation of the Peruvian material, and Dr. W. C. Bennett took up the work where Doctor Olson left off and completed the installation as a whole. We believe the new installation is a great improvement over the old South American Hall, as it has been planned to offer special advantages to students of both archæology and art. Not infrequently a few archæological materials are found in so fragmentary a condition as to require careful restoration. Most conspicuous in this class is the great ceremonial vessel now on view in the South American Hall. This was restored in form by Mr. E. A. Neilson, who has also restored a number of rare neolithic pots from Denmark, and in color by Mr. S. Ichikawa,—an unusually difficult task calling for a careful study of Peruvian ceramic art.

The two halls devoted to the Philippine Islands, Australia, New Zealand, New Guinea, and other islands of the Pacific were revised by Dr. Margaret Mead. The new collections added are chiefly those made by her in Melanesia. A miniature model representing a Manus village has been placed in the Hall.

Curator N. C. Nelson has made considerable progress with the Hall of Prehistoric Archæology, having recently installed exhibits of pottery from the United States, Egypt, and Denmark, and type exhibits for all the Pacific states including British Columbia and Alaska. An important new group has been added, representing the famous modeled clay bison from Tuc d'Audoubert, Europe. A model of the cave, Castillo, is also under construction.

Mr. Clarence L. Hay and Dr. G. C. Vaillant made important revisions in the Mexican-Central American Hall, changing the order of the casing and thereby greatly improving the general appearance of the exhibit which was further enriched by the addition of a cast, the gift of Mr. Hay, representing the new Calendar Stone discovered in Mexico City and now in the Mexican National Museum. Further, several important architectural models have been added, as (a) model of the temple at Uaxactun, a gift from the Carnegie Institution of Washington, (b) model of the Temple of Tajin, a gift from the Mexican Government, and (c) model of the famous staircase of the Temple of Quetzalcoatl, a gift from Mr. Hay. These important accessions, taken with the models already shown in the Hall, present the main features of ancient Central American architecture.

### EDUCATION

The ultimate goal of the foregoing activities, presented under the respective headings of Exploration, Research, Publication, and Preparation, is education, a term used in its broadest sense, including not merely the direct relation between the Museum and schools and institutions of higher learning, but that indirect instruction of both youth and adult through the exhibition halls and the contributions of the staff to human knowledge. Every department of the Museum participates in this great educational program, in which the most conspicuous service is performed by the Department of Public Education, because of its intimate relation with the educational system of the city and the large population with which it deals, through the university, college, teacher training, and secondary school contacts.



Giant Sable Antelope Group for the Akeley African Hall  
Gift of Arthur S. Vernay



Model of the African Lion Group for the Akeley African Hall  
Gift of Mr. and Mrs. G. Lister Carlisle, Jr.

During 1931 further attention has been concentrated on developing plans to enable universities and colleges of the vicinity to make more intensive and coördinated use of the incomparable collections and facilities offered by the Museum. Conferences were held with representatives of New York University, the College of the City of N. Y. and Columbia University, and it is gratifying to note an increasing realization by these institutions of the rare opportunities for intensive original and complementary study presented through the treasures of the Museum. A noteworthy example is the cordial cooperation established between the Museum and the School of Education at New York University. For the 1932 spring term five courses have been arranged, under the joint auspices of the American Museum and New York University. These are not merely extension courses, but afford full residence credit of two points a course by the University, and thirty hours' credit by the Board of Education of New York City. Classes will be held at the American Museum, making further cooperation possible through the utilization of Museum material illustrative of the subjects of the courses, which are as follows:

*The Museum in Elementary Education*, by Dr. Miriam Blanton Huber, formerly instructor in English at Columbia University.

*Visual Aids in Science Teaching*, by Dr. Charles J. Pieper, Associate Professor of Education, New York University.

*Earth Features and Their History*, by Mr. Sydney E. Helprin, Assistant Curator of Geology, American Museum of Natural History.

*Astronomical Bodies and Their Movements*, by Dr. Clyde Fisher, Curator of Astronomy, American Museum of Natural History.

*Primitive Culture*, by Dr. Dudley F. McCollum, Assistant Professor of Education, New York University.

Several of the curators have assisted in the course which has been given for the past eight years in conjunction with Rutgers University. Organized classes came also from Hunter College, Columbia University, Barnard College, the College of the City of New York, the University of Vermont, the New Jersey State Teachers College, McDowell College, Froebel Normal School, Lafayette College, Colgate University, the Maxwell, New York, and Jamaica Training Colleges for Teachers, Packer Institute, New York University, Harvard, Yale, Princeton, Purdue, Alfred,

Brown, Wisconsin, Brooklyn College, North Carolina College for Women, St. Francis College, United States Military Academy, Cadets from the University of Rome, and others.

The Museum courses for the training of teachers have passed the experimental stage, and as is proved by an overwhelming registration, now fulfil a vital need for teachers in further fitting them for their profession. During 1931 seven courses were offered, including two in Visual Instruction. "The Theory and Practice of Visual Instruction" by Mrs. Grace Fisher Ramsey and "The Mechanics of Visual Instruction" by Mr. L. Wales Holden; for each course City College allows one point credit, and the Board of Education thirty hours. Mrs. Ramsey, as the director of these two courses, was appointed to the staff of the College of the City of New York in May, 1931. Other teacher courses given during the year, and allowed thirty hours' credit by the Board of Education, were two for high school teachers directed by Dr. Clyde Fisher, and one directed by Mrs. Ramsey for both elementary and high school teachers; in these three courses many of the lectures were given by various curators of the Museum. Teachers have spoken repeatedly of the inspiration and value they have derived from the work and of how the direct contact with original materials was vitalizing and enriching their actual teaching. The matter of receiving credit for Museum courses for teachers was also brought to the attention of officials of Teachers College, Columbia, with whom the matter is under consideration at the present time.

A specific contribution to adult education is the continuation of programs arranged by Miss Dorothy A. Bennett, in cooperation with the Council on Adult Education for the Foreign-Born, for the Evening Elementary School Students' Association, an organization of foreign-born adults with but a recent and rudimentary command of the English language. Classes of this type require a peculiar and very painstaking technique. Aside from the intrinsic value of the lectures themselves, these programs serve the purpose of bringing to the Museum each night an almost entirely different group of individuals, many of whom have never visited the museum. The total attendance for six lectures was 7,834, an average of 1,300 persons an evening, and after each lecture many availed themselves of the opportunity of viewing the halls related to the subject of the lecture, became better acquainted with the wealth of new and interesting educational material in the Museum, and were thereby

encouraged to repeat their visits. The Department of Education also contributed a display, demonstrating the cooperation between the public schools and other city institutions, to a general exhibit held at the Russell Sage Foundation under the direction of the State Department of Education, to demonstrate Ways of Teaching English to Foreigners.

In the number of contacts, exacting requirements, intensity of effort and educational value, the school service to the secondary schools overshadows all other activities of the department. The volume of this service has increased over the remarkable record of 1930, and with it a refinement and improvement in methods and content have been continually made. More than ninety-two per cent. of the public schools of the city have utilized these facilities, and the total contacts with pupils are approximately 28,000,000, tabulated comparatively as follows:

	1928	1929	1930	1931
Attendance at lectures, classes and guiding..	218,267	226,608	247,629	226,552
Children's Fair.....	36,777	25,000	39,250	30,657
Visitors to Bear Moun- tain Nature Trails..	42,000	186,000	200,000	283,000
Contacts made by lend- ing lantern slides...	9,734,122	8,660,181	15,588,403	17,392,790
Contacts made by lend- ing motion picture films.....	1,576,249	1,725,865	3,764,505	7,423,708
Contacts made by lend- ing circulating col- lections.....	2,397,882	1,906,682	3,210,741	2,590,753
Totals.....	14,005,297	12,730,336	23,050,528	27,947,460

Several factors have contributed to this increasing success. Conferences with Deputy Superintendent Harold G. Campbell, and with Associate Superintendent Eugene A. Colligan, directly in charge of Visual Education, have established a closer relation with the Board of Education and a clearer conception of the potential value of the Museum's coöperation, as evidenced by the assignment to the Museum of four additional substitute teachers, recently graduated from the training colleges, efficient and of excellent assistance in the school service. The continued generous financial contributions of Mr. Felix M. Warburg have made it possible to add many features to our service to the schools in all its branches and to maintain the Nature Trails at Bear Mountain. Furthermore, the university and college plans, the teacher training courses

and the adult education program could not have been carried out had it not been for the annual grant of money from the Carnegie Corporation of New York. The volume of our school service, particularly in the slide and film divisions, has been increased through the addition of clerical helpers from the Emergency Work Bureau.

Limitation of space in this report prohibits a detailed account of our secondary school activities, now generally regarded as essential features of the school curriculum, and attention is called merely to the character of the activities and the most important developments of the year.

The *Circulating Nature Study Collections*, the oldest feature of our school service and especially useful in the science courses of the high schools and teacher training colleges, continue to be in great demand. During the year new collections have been added, in particular small groups with painted backgrounds to suggest the environment of the species; exhibits showing types of skulls in mammals, the types of feet and bills in birds, an illuminated bird questionnaire exhibit, and cases showing the zoölogical Orders from Amœba to Mammal.

The three regular *Lecture Courses* for school children given in the auditorium twice daily on three days of the week have proved for several years to be one of the most attractive features of our school service, and despite the severe epidemic of infantile paralysis in the fall and subsequent curtailment of all school activities, 66,915 children attended the series of 103 lectures. The subjects, natural history, geography, history and biology, were correlated with the school syllabus, and ranged from the Antarctic to the Arctic, from the heavenly bodies to the treasures within the earth, from days of the Indians and early settlers to problems of the present day. Comprehensive lectures on biologic science, designed primarily to supplement biology courses in the high schools, were arranged by Mr. Paul B. Mann, and grateful acknowledgment is hereby made to him and to other lecturers outside the Museum who have cooperated by lecturing in this course.

Under the support of the Jonathan Thorne Memorial Fund, the *Blind and Sight Conservation Talks* have been continued with changes for improving the method of presentation suggested by Miss Moscrip, Inspector of the Blind and Sight Conservation Classes of the New York City Public Schools. Under this new system, in



place of the eight topics formerly offered, the curriculum now includes sixty-four in nature study, geography, history, health and astronomy.

The *Exhibition Hall Talks*, consisting of an informal half-hour lecture in the classroom on such subjects as astronomy, geography, history, industry, civics, nature study, and health, followed by a visit to the pertinent exhibition halls, are found most helpful by the teachers, who brought 11,671 children in groups to the Museum for this instruction during the year 1931.

Active interest and membership in the *Junior Astronomy Club* are steadily increasing, and through the *Junior Astronomy News* the Associate Membership in the Club has been extended to numerous points in six states. In the activities of the Club during the past year the *News* has assumed a place of such importance that it was recently described by the author of an excellent popular book on astronomy as "more sound and up-to-date than most astronomical articles or even popular books on the subject."

The fourth annual *Children's Science Fair*, to encourage project-making among the students of science in elementary and high schools throughout New York City, was held from December 3 to 9 in Education Hall under the auspices of the American Institute, the School Nature League and the Museum. The 406 exhibits entered showed considerable advance in both the excellence of the work and the ability of the pupils to portray definite scientific principles. By means of specially prepared guide sheets, a definite effort was made carefully to direct the observation of the 30,657 pupils who visited the Fair, and on the last day a treasure hunt was prepared and conducted under the direction of Dr. Morris Meister of the New York Teachers Training College to test the scientific knowledge and accuracy of observation of high school students.

During the 1931 season, May to October, more than 283,000 contacts were made through the *Nature Trails and Trailside Museum* at Bear Mountain, which we may fittingly term our chief "experimental station" or "laboratory" of natural history. The Park Commissioners, through Major William A. Welch, have rendered, as usual, great assistance, and last year provided a new cabin to house the members of the staff. New features include a trailside craftshop, where nature councillors are taught how to make nature exhibits; botany pools, with aquatic plants and animals surrounded by ferns of the region; turtle ponds, and a snake house. More

lectures were given among the park camps than ever before, and the six regional museums under the direction of Miss Ruby M. Jolliffe, superintendent of the camping department, were aided in many ways.

The delayed opening of the schools and the prohibition against pupils meeting in assemblies in the early autumn, caused a considerable decrease in the *Circulation of Lantern Slides* during the fall, but for the full school year 1930-1931, the circulation of slides increased to such an extent that the total number lent to the public schools of Greater New York alone was 1,217,023, an average of more than 1,200 orders a week.

A marked change has occurred in the past year in the use of educational films in the schools throughout the country; the 16 mm. projector has been widely introduced, so that practically all films are projected under normal classroom conditions with greatly enhanced value as visual aids. Requests from schools for our *Film Service* now generally include only 16 mm. films, with an occasional 35 mm. film needed for auditorium purposes. The most important addition to our film library was the gift of three sets of the Yale Chronicles of America films valued at over \$10,000. Additional prints of films already deposited with the Museum for general circulation were also secured from the Canadian Government, the General Electric Company and other sources, and the library has been further enriched by the acquisition of several special reels composed from the motion pictures taken in the field by our explorers. Although the number of pupil contacts made with the 16 mm. films are far less than with the 35 mm. films used in large assemblies, 19,531 reels were lent in 1931 and shown to 7,423,708 people. An average attendance of over 1,100 children and adults attested the continued popularity of the weekly Saturday afternoon programs of educational motion pictures in the Museum.

The *Docent Service*, which has increased from 23,453 persons guided in 1930 to 27,758 in 1931, has been extended to members, the public schools, private and parochial schools, and the general public. For individuals, clubs or organizations not members of the Museum, paid guiding is available. In addition to the many groups of university, college and high school students guided, special trips were conducted by Dr. William Lord Smith for groups of nurses from fourteen leading hospitals, and special guiding has

been arranged for the parents of school children entertained by the Museum on Parents' Day, for the members attending Members' Day, and for other guests attending various receptions and programs at the Museum.

The *Photographic Division* has been an important factor in the success of the work of the School Service Department. The photographic library has been consulted and utilized by an ever-increasing number of authors, publishers, artists, students, teachers, architects, and persons in the motion picture industry. Material for visual education has been distributed from the Museum to more than one hundred schools and colleges in forty-three states of the Union and in nine foreign countries.

That the Department of Education is able to render such extensive and practical service is due primarily to the exploration and research of the scientific departments. Hence, many members of every department directly or indirectly have an important share in the Museum's intensive work in public education, and in extending the prestige and influence of the Museum throughout the world, through their technical and popular publications, through radio broadcasting, through lectures in the Museum and the entire country, and especially through their attendance at meetings of scientific societies. Perhaps the most notable occasion of this nature was the Centenary Meeting of the British Association for the Advancement of Science held in London the last week of September under the Presidency of the Right Honorable General Jan Christiaan Smuts. The American Museum was represented by President Osborn, accompanied by Curator Gregory. They attended several sessions of the meeting, Professor Osborn himself presenting four valuable papers, and participated in the celebration of the Fiftieth Anniversary of the Natural History Museum at South Kensington. A further recognition of Professor Osborn's advancement of world science is the addition to an already long list of honors of the award of the degree of *Doctor honoris causa* from the University of Paris, conferred in November through a representative of the American Embassy.

Doctor Gregory serves education in many capacities, is the President of the Galton Society, a Vice-President of the American Association for the Advancement of Science, and Chairman of Section H (Anthropology), and a member of various scientific societies and advisory committees.

The Annual Meeting of the American Association for the Advancement of Science, held this year in New Orleans, found as usual several members of our staff present: Messrs. Brown, Gregory, Noble and Carr. The exhibit of Museum work prepared by Mr. Carr for this meeting won universal acclaim. Earlier in the year Mr. Carr also took a prominent part in the annual meeting of the National Conference on State Parks in St. Louis.

This last year marks the meeting of the First Canadian Biological Conference at Matamek, on the north shore of the St. Lawrence, Canada, an important and comprehensive meeting on the intricate biological problem of the cycles of abundance and scarcity, at which the Museum was represented by special invitation by Curator Anthony.

For several years Curator Wissler has been cooperating with the Institute of Human Relations at Yale University, has served as Chairman of the committee of special education of the Carnegie Institution of Washington, has lectured at Amherst College during the year, and serves on the council of the American Association of Museums, of which Director Sherwood is the Vice-President of the Science Museums Division and also a member of the Council.

In the field of education itself, Mrs. Ramsey has attended the annual conference of the National Education Association in Los Angeles and the Society of Visual Education.

Our staff is also occasionally called upon to augment the teaching facilities of various universities, especially in the summer sessions. Examples are: Dr. Noble's courses in comparative anatomy and experimental morphology at the University of Chicago, and Dr. Fisher's summer courses at Cornell University where Dr. Lutz has been called to deliver lectures during the coming summer.

Always there are the countless meetings of smaller and more specialized scientific societies, of which many of our staff are influential members.



### III. ADMINISTRATION, OPERATION, BUILDING

GEORGE H. SHERWOOD, Director

WAYNE M. FAUNCE, Assistant Director

“Man works from sun to sun,  
But woman’s work is never done.”

This is an old adage that may be applied to Museum activities, in which the service divisions play the rôle of the woman. Our operating departments must be prepared for any emergency, as well as the engrossing labors of the day, and certain branches are on duty twenty-four hours of every day. Problems of construction have been met and solved. The care and comfort of more

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

	1927	1928	1929	1930	1931
Board of Education Lectures...	10,914	12,342			
Lectures to School Children and classes visiting the Museum for Study.....	145,304	172,549	157,168	214,153	226,552
Meetings of Scientific Societies and Other Meetings and Lec- tures.....	47,680	27,461	45,936	56,640	20,330
Total.....	203,898	212,352	203,104	270,793	246,882
Attendance in Exhibition Halls.	2,088,978	688,879	712,529	876,601	882,309
Total attendance for all Purposes.....	2,292,876	901,231	915,633	1,147,394	1,129,191
Lectures to Pupils in the Schools Number reached by Motion Picture Service.....	20,241	45,718	26,456	19,512	8,248
Number reached by Lantern Slide Service.....	1,123,704	1,576,249	1,725,865	3,764,505	7,423,708
Number reached by Circulating Collections.....	6,866,112	9,734,122	8,550,181	15,588,403	17,392,790
Bear Mountain Nature Trails..	1,679,589	2,288,272	1,857,729	3,194,647	2,567,537 283,000
Grand Total.....	11,982,702	14,539,592	13,075,864	23,714,461	28,804,474

than a million visitors have been guarded, and the requirements of our 652 employees have been satisfactorily met. In an organization so large and complex in its interests, close team-work on the part of all the service departments is vital to success. The Director takes this opportunity to commend the valuable contributions made by the heads of our Administrative Departments—Assistant Director Faunce, Bursar Smyth, Registrar Pindar, Chief of Construction Beers, Chief Engineer Langham, and Superintendent Foulke, and the entire personnel of their respective departments.

One index of the importance of the Museum in the community is the steady flow of visitors through its halls and to its many lectures. The total attendance for all purposes in 1931 was 1,129,191 persons. The epidemic of infantile paralysis in the summer and fall of 1931 materially affected the attendance, especially of school children, who during the early weeks of the autumn term wisely were not allowed to congregate at lectures or assemblies. Our total attendance record for the year was very gratifying, and is shown, in comparison with that for the previous four years, in the foregoing table.

The foregoing statistics in themselves give a good idea of the extent to which the Museum is serving the public and show clearly the remarkable growth of the Museum's educational work.

#### PUBLICITY

Through its unrivaled resources, the Museum is meeting the growing demands, not alone of people in our own country, but of many foreign visitors to our shores. Requests for information about the Museum, its history and varied fields of endeavor come to the publicity office with gratifying regularity—from individuals and institutions in the United States as well as from countries in Europe and South America. Since Mr. Pindar contributed an article to the German work—*Forschungsinstitute, ihre Geschichte, Organization und Ziele*, several requests for information on our work have come from Europe, in addition to numerous orders for photographs of groups and specimens to be published in newspapers and magazines. Recently a long article on the Museum, its many departments and exhibits, was published in a Norwegian newspaper, in which the writer gave not only detailed descriptions of groups and various objects but their locations in the halls.

Our relations with the press have proceeded, as always, most harmoniously, and we find that a gradual process of training in scientific matters is being instituted by the press, in which natural history plays an important part. This is so closely linked with our educational program that we are glad to encourage the spirit. We are frequently called upon to direct some member of the press to the department wherein he can obtain the necessary data or the correct scientific character for an article so popularized as to prove of interest to a general public.

Through steps taken two years ago, relations were established with several of the prominent broadcasting companies, and many informing talks were given by our curators on the work and possibilities of the Museum. Later this work was given an added interest through the courtesy of the *Herald Tribune*, which printed a page of illustrations on two Sundays each month in connection with radio talks given by curators. We are now planning to use rotogravure illustrations, and television talk, to be given through the courtesy of the Columbia Broadcasting System. We have found the radio talks to be instrumental in arousing interest in Museum work.

#### PROGRESS OF CONSTRUCTION DURING 1931

In construction matters 1931 has been an exceedingly busy year. It is a pleasure to report that the four large additions to the Museum's building have made substantial progress:

With appropriate ceremonies, the cornerstone of the Roosevelt Memorial was laid on October 27, the seventy-third anniversary of Theodore Roosevelt's birthday, and work is proceeding satisfactorily on this monumental structure, which is being erected by the State of New York.

The African Hall, adjoining the Roosevelt Memorial on the west, is practically ready for occupancy, and we fully expect that the installation of exhibits will be under way early in 1932. The City of New York not only erected this building, but has appropriated funds for its equipment, notably the laboratory equipment for the quarters to be occupied by the newly established Department of Experimental Biology.

The new Power and Service Building in the northwest court was completed in November. The City erected this splendid service wing to provide an adequate power plant for the entire Museum and to afford suitable quarters for our force of preparators and artists. The power plant has been in operation since late summer, and the equipping of the upper floors to meet the specialized requirements of the Department of Preparation is going forward rapidly.

The South Oceanic Wing, which faces Central Park directly north of the Roosevelt Memorial and which was made possible by the munificent gift of \$750,000 by the late Harry Payne Whitney and the appropriation of an equal amount by the City of New York,

has made extraordinary progress. Present indications are that this building, which is to house the entire Department of Birds, will be ready for occupancy by next autumn.

During the first part of the year, the Buildings and Plans Committee of the Trustees, together with the Citizens Planetarium Committee and the newly constituted Director's Staff Committee on Buildings and Plans, made preliminary studies for the proposed planetarium for the Museum. Our architects prepared sketches for the Planetarium Building which it is proposed to erect in the northeast court. Application has already been made to the City of New York for architects' fees to cover the designs of this section and also the Northeast Corner Section of our building, which will complete the Central Park façade.

Our architects, Trowbridge and Livingston, consulting engineers Tenney and Ohmes, and the engineering staffs of the Department of Parks and the Department of Water Supply, Gas and Electricity have been especially watchful of the Museum's interests in the planning and erection of these magnificent buildings. Indeed, the officers of all the City departments which have had an official connection with this work have shown the fullest cooperation.

City appropriations have also enabled the Museum to undertake extensive improvements within the existing building. The Shell Catalogue and Storage Room, off the corridor leading to the Hall of Ocean Life, is nearly completed. A City contract has been prepared for the complete renovation, redecoration and relighting of the Age of Mammals Hall on the fourth floor. Exhibition cases have been constructed for the new Peruvian Hall and the new Hall of African Ethnology, both of which were opened to the public on November 9. The latter hall has been provided with new lighting fixtures. A new skull storeroom has been equipped with shelving for study collections of the Department of Anthropology.

During the summer the lighting of the main auditorium was completely revamped and a dimmer-system installed. Wiring arrangements were also made to double the illumination in Education Hall. Extensive case construction and lighting have been carried out to take care of new exhibits in the Hall of the Natural History of Man, the New Zealand Room, the Darwin Hall and the Insect Hall. Two new group cases have been completed in the Birds of the World Hall, and the ornamental front of the great Coral Reef Group in the Hall of Ocean Life has been installed. To provide



luncheon facilities for the hundreds of school children visiting the Museum daily during the school year, a cafeteria has been installed in the basement of the School Service Building. This new service has already demonstrated its indispensability.

A tremendous amount of miscellaneous construction and installation has also been carried on under the able direction of our Chief of Construction, Mr. Beers, and our Chief Engineer, Mr. Langham. Indeed, nearly 600 requisitions have received attention in these departments during the year. Space permits mention of only a few of the more important items. Three exhibition halls and five offices have been painted. About 85 per cent. of the obsolete electrical wiring in our building has been changed to a modern three-wire system and this important renovation will be completed next year. New washrooms for employees have been installed on the fifth floor of the West Tower and the fourth floor of the School Service Building. New exhibition cases have been constructed for practically all departments. Over 250 special traveling cases were made for the School Service circulating collections. Noteworthy lighting improvements were made in many parts of the building.

Scores of minor repairs have been made promptly on the recommendation of our efficient Superintendent of Buildings, Mr. Foulke. The burden on his department has been materially increased by the ever-increasing scope of our intra-Museum activities, but despite this fact, our exhibition halls and the sections of the building which are not open to the public have been kept in excellent order.

In connection with new building plans and the general administration of the Museum, the Trustees arranged for Assistant Director Faunce to visit museums and other public buildings of western United States during the autumn. Over thirty of the larger institutions of the country were inspected on this trip which proved to be of great instructional and inspirational value.

Because of the general financial situation, the wide diversity of our building program and the lack of an adequate force, 1931 has been a trying year for our Administrative Staff. Notwithstanding the excessive strain under which they have labored, our administrative officers have carried on with extraordinary patience, unanimity of purpose and untiring perseverance. Only by the whole-hearted cooperation of every member of the Staff—indeed, of all the employees in the mechanical and maintenance departments—could such an extensive program be carried out. A large

measure of success has crowned the efforts of our workers and the Museum is justly proud of the fine personnel in these departments. The splendid work of Mr. Smyth, our Bursar, through his contacts with the City departments, deserves special recognition.

#### REPORT OF THE REGISTRAR .

The increase of gifts of great value to the Museum in its work, as recorded in the Registrar's office, marks the growing interest in scientific matters by a world that is passing through an unexampled era of change. These records show 988 accessions for the year as follows: 691 by gift; 136 by purchase; 38 through exchange; 97 from expeditions and 26 by transfer to various departments concerned. Many of these accessions are used to enrich the Museum's study collections, among the finest in the world, while others are employed in exhibition groups. A very rich source of Museum material is represented in the remarkable collection of photographic negatives collected from many expeditions and from the exhibits and scientific work in the Museum. These form a very considerable library in themselves.

During the year, 4,125 shipments were received in the packing and shipping department, necessitating the delivery of 12,458 packages to departments; 2,789 shipments were sent out, involving the packing of 4,583 parcels. Thus, out of a total of 7,002 shipments 17,021 packages were handled. There were also forty-eight bonded shipments containing 571 packages. The delivery car made 527 trips, covering 4,860 miles.

To the Pension System, also an adjunct of this office, a new feature has been added this year which was desired at the time the Fund was started but not heretofore incorporated because of a prediction by the Actuary that a yearly decrease in surplus would occur. Fortunately, this has not been the case. Not only has the decrease not been realized, but a steady increase, year by year, from the beginning has taken place, which now permits the much desired incorporation of amendments providing for pensions to widows of pensioners or of subscribing employees already entitled to pensions.

## IV. FINANCIAL ADMINISTRATION

JAMES H. PERKINS, Treasurer  
 FREDERICK H. SMYTH, Bursar

### SIXTIETH ANNIVERSARY ENDOWMENT FUND

In the President's section of the report are shown the receipt of bequests and gifts to the Sixtieth Anniversary Endowment and the status of the campaign to December 31, 1931.

#### PERMANENT ENDOWMENT FUND, 1931

Due to the economic condition existing during the year, the Finance Committee, with its Advisers, made more frequent examinations of the securities of the Museum. The Treasurer, who is also Chairman of the Finance Committee, reports that during the year 1931, by sales, redemptions and amortization payments, the Committee disposed of securities amounting to a book value of \$1,173,790.75 for \$1,127,462.29. With these proceeds and Bequests and Gifts received, excepting 2,052 shares The Borden Company Capital Stock which is still held, the Committee purchased securities of a par value of \$1,583,000.00 for \$1,555,496.88. By the transactions for the year 1931 the Endowment Fund has been increased \$330,712.99.

During the year the Advisers to the Finance Committee suggested the sale of various railroad bonds and the reinvestment of the proceeds in a similar amount of public utility bonds. Some of the changes suggested were made, and our Endowment Fund on December 31, 1931, amounted to a book value of \$15,394,872.42, diversified and comparing with the previous year as follows:

	December 31, 1931	December 31, 1930
Railroad Bonds.....	\$7,897,912.25	\$8,827,946.75
Public Utility Bonds.....	3,903,642.00	2,610,573.25
Industrial Bonds.....	1,277,015.50	1,277,015.50
Industrial Stocks.....	499,430.50	361,690.00
Government Bonds.....	45,295.32	25,423.44
Investment Trust Bonds.....	296,052.50	296,052.50
Real Estate Mortgages.....	1,474,100.00	1,475,300.00
	\$15,393,448.07	\$14,874,001.44
Uninvested Cash.....	1,424.35	190,157.99
	\$15,394,872.42	\$15,064,159.43

The market value of the securities, according to a compilation made in December, 1931, and supplemented by recent transactions, is \$13,315,388.88.

At this time it was observed that, in the exchange of railroad bonds for public utility bonds on the sales and purchases made under advice of the Finance Committee, the securities sold declined 28.7% while the securities purchased declined only 7.2%.

The annual income from our Endowment is \$751,097.32, a yield of .0486 of the value at which the securities are carried on our books, compared with a yield of .0495 in 1929 and of .0493 in 1930.

In conclusion, the Chairman wishes to call the Board's attention to important gratuitous assistance rendered the Museum by our Financial Advisers, Messrs. Arthur M. Anderson and Moreau Delano, who have given a great deal of study to the Museum's holdings.

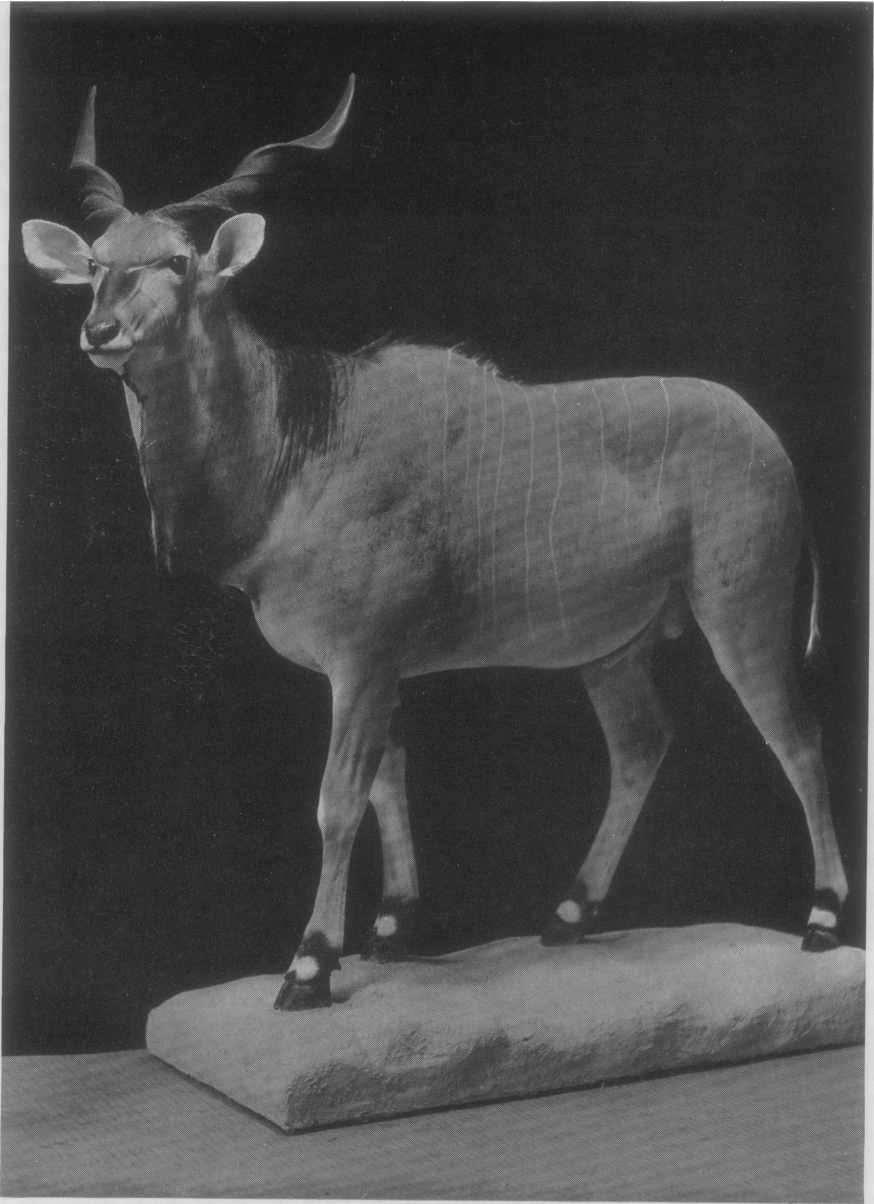
#### SUMMARY OF ALL ACCOUNTS

As it is difficult for one not fully conversant with the varied accounts of the Museum to visualize the total receipts and disbursements as shown by the financial report, we are printing the combined statement of the City Maintenance, General and Morris K. Jesup Funds (which are known as the budgetary accounts), and the Special Funds (for designated purposes).

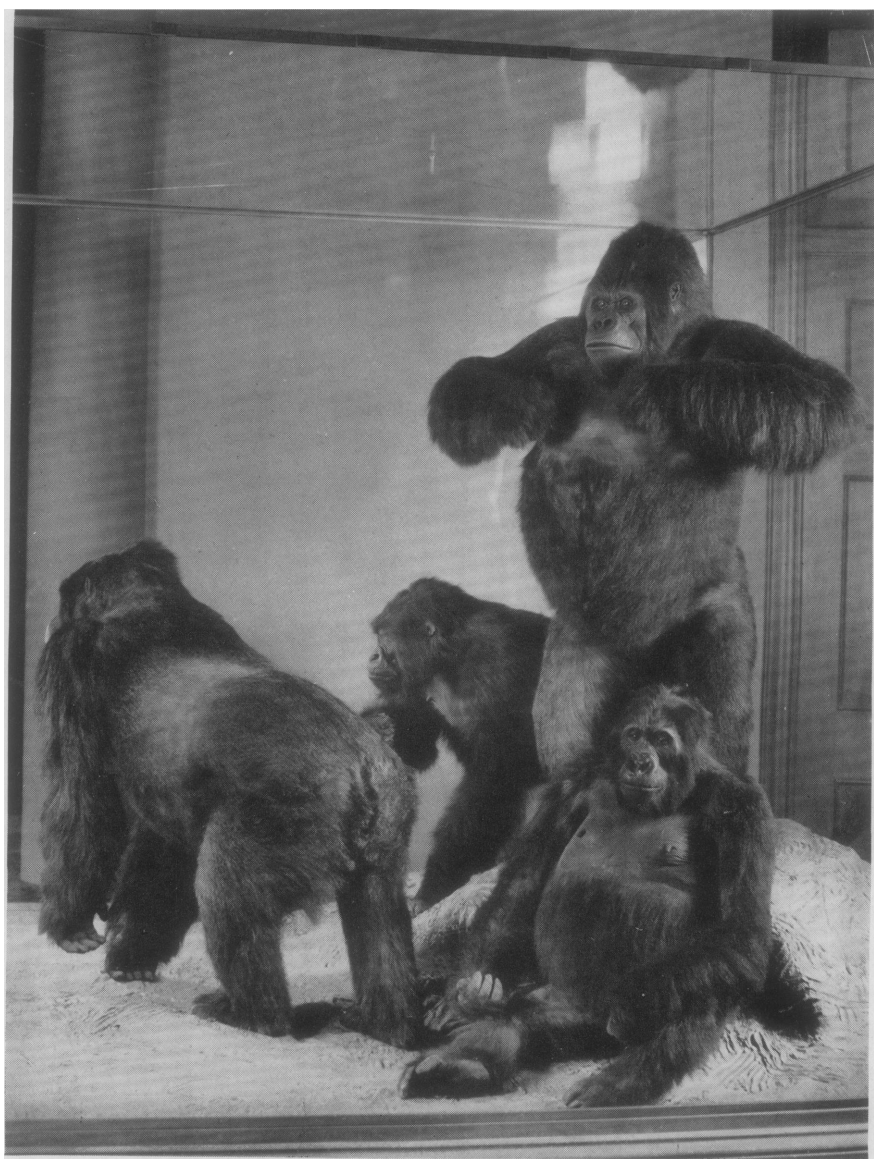
#### SUMMARY OF RECEIPTS AND DISBURSEMENTS FOR ALL PURPOSES, 1931

##### Receipts

City of New York for Maintenance.....		<u>\$547,375.69</u>
Trustees' Funds:		
Balance, January 1, 1931.....		\$221,961.92
Income from Endowment Funds.....	\$750,585.83	
Contributions of Trustees.....	66,400.00	
Contributions of Members and Friends....	93,711.21	
Membership Dues.....	67,886.00	
Sale of Publications and Exchanges.....	21,675.66	
Interest on Credit Balances.....	1,036.88	
Contributions of Foundations.....	20,000.00	
Group Preparation, General Preparation..	<u>50.00</u>	1,021,345.58
Loan Account, Deficiency of 1931.....		<u>29,884.68</u>
Total Income, Trustees' funds.....		<u>\$1,273,192.18</u>
Total Income, all sources.....		\$1,820,567.87



**Mounted specimen for the Giant Eland Group for the Akeley African Hall  
Gift of C. Oliver O'Donnell**



**Kivu Gorillas, collected and mounted by the late Carl Akeley  
These specimens will form part of the Gorilla Group in the Akeley African Hall  
Gift of Julius F. Stone**

Disbursements (Operating Costs)

Scientific and Research:

Geology and Invertebrate Palæontology...	\$15,031.82
Mineralogy.....	13,369.05
Mammalogy.....	37,972.84
Central Asiatic Exploration and Research.	35,686.58
Ornithology.....	69,657.20
Vertebrate Palæontology.....	77,641.69
The President's Science and Research Fund	6,384.71
Comparative Anatomy.....	17,409.82
Anthropology.....	54,169.50
Ichthyology.....	18,256.73
Herpetology and Experimental Biology...	35,077.18
Lower Invertebrates.....	14,880.54
Entomology.....	21,889.96
Library.....	30,048.79
Astronomy.....	3,218.37
	<u>\$450,694.78</u>

Printing, Books and Publications:

Printing and Publishing.....	\$104,472.39
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Preparation and Exhibition:

Preparation and Exhibition.....	\$163,084.82
Vertebrate Palæontology.....	24,242.82
	<u>\$187,327.64</u>

Educational—Public School Work:

Public Education.....	\$105,356.79
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Administration and Operation:

Administration.....	\$312,385.16
General Supplies and Expenses.....	53,840.98
Heating and Lighting.....	146,880.77
Repairs and Installation.....	93,030.88
Special Repairs.....	29,687.23
Pension Fund.....	34,039.87
Engineers' Services.....	2,500.00
Architects' Services.....	5,296.88
Group Life Insurance.....	9,240.78
Museum Restaurant Equipment.....	1,557.96
Legal Services.....	10,193.05
	<u>\$698,653.56</u>

Financial Administration:

Administration.....	\$72,309.23
General Supplies and Expenses.....	13,302.21
	<u>\$85,611.44</u>

Total, all costs.....	<u>\$1,632,116.60</u>
Balance, December 31, 1931.....	<u>\$188,451.27</u>

**BUDGETARY FUNDS OF 1931**

On January 5, 1931, the Trustees approved of a budget of \$1,436,319.97, which included a sum of \$43,346.05 to be raised, this being the amount over actual estimated receipts for the year, and during the year increased this sum by \$5,025.00 due to sale of specimens. This gave authority to the Director and Bursar to operate to a total of \$1,441,344.97. Due to careful watchfulness, throughout the year, it was possible to curtail our expenditures by \$16,171.20, decreasing the authorization to \$1,425,173.77.

Our income, however, was reduced by loss in Income on Endowment, Membership Fees, and Sale of Publications by \$25,902.98, resulting with the curtailed expenditures in a net decrease of \$9,731.78. As the Trustees authorized a deficiency of \$43,346.05, and due to the financial difficulties of 1931 it was necessary to add the net decrease of \$9,731.78, it is shown that our deficiency in 1931 was really \$53,077.83. Through contributions by Trustees and other sources of \$23,193.15, we close our books for 1931 with an unsubscribed deficiency of \$29,886.68, which is at present being carried on our bank loan. The Trustees contributing to this deficiency were: Messrs. Frederick F. Brewster, C. Suydam Cutting, F. Trubee Davison, Cleveland Earl Dodge, Childs Frick, Clarence L. Hay, Ogden L. Mills, Junius S. Morgan, Jr., J. P. Morgan, Henry Fairfield Osborn, Henry W. Sage, and W. K. Vanderbilt.

Comparison of 1930 receipts with those of 1931 indicates a considerable decrease in contributions of Trustees and Friends. In 1930 the Trustees contributed \$129,313.13, and in 1931, \$66,400.00. Our Members contributed, in 1930, \$202,744.06, and in 1931, \$93,711.21. Our Membership loss was \$9,790.00, mostly in the higher classes of membership.

This loss of income brings to attention the urgent need of new Endowment for the Museum, and every effort should be put forth to interest a greater number of people in the Museum work.



FINANCIAL STATEMENT, 1931

ENDOWMENT AND INVESTMENT

	Par Value	Book Value
<b>UNRESTRICTED ENDOWMENT FUNDS:</b>		
General Endowment Fund.....	\$1,843,600.00	\$1,834,132.16
George F. Baker Fund.....	268,250.00	236,611.85
Wood Fosdick Fund.....	1,000,700.00	1,007,081.72
Anna M. Harkness Fund.....	1,020,200.00	1,024,103.32
Collis P. Huntington Fund.....	50,000.00	50,088.05
John D. Rockefeller, Jr., Fund.....	970,050.00	963,916.25
5,202 Shares No Par.....		256,250.00
The Sage Fund.....	1,707,450.00	1,567,865.35
4,032 Shares No Par.....		55,440.00
Sixtieth Anniversary Endowment.....	1,353,400.00	1,421,608.02
<b>RESTRICTED ENDOWMENT FUNDS:</b>		
Morris K. Jesup Fund.....	5,820,500.00 } £110,000 }	5,897,936.10
Anthropology Special Fund.....	1,100.00	1,083.25
James Arthur Research Fund.....	36,500.00	36,464.37
Matilda W. Bruce Fund.....	12,000.00	12,002.00
Bashford Dean Ichthyological Library Fund.....	5,100.00	5,100.80
Anson W. Hard Library Fund.....	5,100.00	4,109.50
J. P. Morgan Fund.....	489,450.00	479,236.78
Osborn Palæontologic Research Fund....	5,400.00	5,076.80
Physical Anthropology Fund.....	12,200.00	11,564.00
Margaret Olivia Sage Fund.....	1,000.00 } £2,000 }	9,995.00
The Boyce Thompson Mineral Collection Fund.....	50,000.00	50,000.00
Jonathan Thorne Memorial Fund.....	29,300.00	28,347.75
Ralph Winfred Tower Memorial Fund....	23,700.00	24,150.12
Vertebrate Palæontology Field Fund....	25,500.00	25,000.75
Vertebrate Palæontology Special Fund..	1,100.00	1,083.25
Frederick G. Voss Anthropology and Archæology Fund.....	307,800.00	300,054.50
Wallace Memorial Fund.....	14,000.00	14,274.50
Carried Forward.....	\$15,053,400.00 } £112,000 }	\$15,323,576.19

**ENDOWMENT AND INVESTMENT (Continued)**

	Par Value	Book Value
Brought Forward.....	\$15,053,400.00	\$15,323,576.19
	£112,000	
<b>RESTRICTED INVESTMENT FUNDS:</b>		
African Hall Preparation Special Fund		
1,000 Shares No Par.....		50,000.00
The Boyce Thompson Mineral Collection		
Installation Fund.....	20,000.00	19,871.88
	\$15,073,400.00	\$15,393,448.07
	£112,000	
Uninvested Cash.....		1,424.35
		<u>\$15,394,872.42</u>

**ENDOWMENT AND INVESTMENT ACCOUNT**

Receipts and Disbursements, 1931

**GENERAL ENDOWMENT FUNDS—(Unrestricted Funds):**

	Receipts	Disbursements	Balance Dec. 31, 1931
<b>General Endowment Fund:</b>			
Balance.....	\$55,740.20		
Transferred from General Account.....	51.05		
Sale of Securities.....	85,284.33		
Purchase of Securities.....		\$141,016.25	
	<u>\$141,075.58</u>	<u>\$141,016.25</u>	<u>\$59.33</u>
<b>George F. Baker Fund:</b>			
Balance.....	4.65		
Transferred from General Account.....	97.35		
Sale of Securities.....	41,385.00		
Purchase of Securities.....		40,780.75	
	<u>\$41,487.00</u>	<u>\$40,780.75</u>	<u>\$706.25</u>
<b>Wood Fosdick Fund:</b>			
Balance.....	620.79		
Redemption and Amortization Payments.....	161,200.00		
Purchase of Securities.....		161,751.00	
	<u>\$161,820.79</u>	<u>\$161,751.00</u>	<u>\$69.79</u>
<b>Anna M. Harkness Fund:</b>			
Balance.....	61.18		
Transferred from General Account.....	40.82		
Sale of Securities.....	7,000.00		
Purchase of Securities.....		7,102.00	
	<u>\$7,102.00</u>	<u>\$7,102.00</u>	
<b>Collis P. Huntington Fund:</b>			
Balance.....	13.95		
Transferred from General Account.....	88.05		
Purchase of Securities.....		102.00	
	<u>\$102.00</u>	<u>\$102.00</u>	
<b>John D. Rockefeller, Jr., Fund:</b>			
Balance.....	59.31		
Transferred from General Account.....	42.69		
Sale of Securities.....	46,381.56		
Purchase of Securities.....		46,407.00	
	<u>\$46,483.56</u>	<u>\$46,407.00</u>	<u>\$76.56</u>
Carried Forward.....	<u>\$398,070.93</u>	<u>\$397,159.00</u>	<u>\$911.93</u>

**ENDOWMENT AND INVESTMENT ACCOUNT**  
(Continued)

	Receipts	Disbursements	Balance Dec. 31, 1931
Brought Forward.....	\$398,070.93	\$397,159.00	\$911.93
<b>The Sage Fund:</b>			
Balance.....	750.66		
Transferred from General Account.....	61.59		
Sale of Securities.....	189,670.00		
Purchase of Securities.....		190,482.25	
	<u>\$190,482.25</u>	<u>\$190,482.25</u>	
<b>Sixtieth Anniversary Endowment:</b>			
Balance.....	19,798.81		
Gift of:			
Trustees.....	31,250.00		
William Ross.....	5.00		
Bequest of:			
Samuel R. Betts.....	5,000.00		
*George E. Halliday.....	10,208.98		
David Lydig.....	10,000.00		
Goddard W. Saunders.....	5,000.00		
Caroline B. Sellev.....	5,000.00		
John E. Whitaker.....	2,344.06		
Sale of Securities.....	2,812.50		
Purchase of Securities.....		91,270.75	
	<u>\$91,419.35</u>	<u>\$91,270.75</u>	<u>\$148.60</u>
<b>Total General Endowment.</b>	<b>\$679,972.53</b>	<b>\$678,912.00</b>	<b>\$1,060.53</b>

**SPECIAL ENDOWMENT FUNDS—(Restricted Funds):**

<b>Matilda W. Bruce Fund:</b>			
Balance.....	47.70		
Transferred from Special Funds Account.....	54.30		
Purchase of Securities.....		102.00	
	<u>\$102.00</u>	<u>\$102.00</u>	
<b>Anson W. Hard Library Fund:</b>			
Balance.....	81.57		
Transferred from Special Funds Account.....	20.43		
Purchase of Securities.....		102.00	
	<u>\$102.00</u>	<u>\$102.00</u>	
Carried Forward.....	\$204.00	\$204.00	

\*Securities received from George E. Halliday Bequest, \$137,740.50.

**ENDOWMENT AND INVESTMENT ACCOUNT**  
(Continued)

	Receipts	Disbursements	Balance Dec. 31, 1931
Brought Forward.....	\$204.00	\$204.00	
<b>Morris K. Jesup Fund:</b>			
Balance.....	54.68		
Sale of Securities.....	554,426.67		
Purchase of Securities.....		554,373.13	
	<u>\$554,481.35</u>	<u>\$554,373.13</u>	<u>\$108.22</u>
<b>J. P. Morgan Fund:</b>			
Balance.....	84.76		
Transferred from Special Funds Account.....	17.24		
Purchase of Securities.....		102.00	
	<u>\$102.00</u>	<u>\$102.00</u>	
<b>Osborn Palæontologic Research Fund:</b>			
Balance.....	14.85		
Transferred from Special Funds Account.....	495.15		
Purchase of Securities.....		510.00	
	<u>\$510.00</u>	<u>\$510.00</u>	
<b>Physical Anthropology Fund:</b>			
Balance.....	55.53		
Transferred from Special Funds Account.....	46.47		
Sale of Securities.....	11,043.23		
Purchase of Securities.....		11,064.00	
	<u>\$11,145.23</u>	<u>\$11,064.00</u>	<u>\$81.23</u>
<b>Jonathan Thorne Memorial Fund:</b>			
Balance.....	77.00		
Transferred from Special Funds Account.....	11.75		
Sale of Securities.....	28,259.00		
Purchase of Securities.....		28,347.75	
	<u>\$28,347.75</u>	<u>\$28,347.75</u>	
<b>Ralph Winfred Tower Memorial Fund:</b>			
Balance.....	36.50		
Transferred from Special Funds Account.....	65.50		
Purchase of Securities.....		102.00	
	<u>\$102.00</u>	<u>\$102.00</u>	
<b>Sixtieth Anniversary Endowment: Anthropology Special Fund:</b>			
Balance.....	18.75		
Carried Forward.....	\$594,892.33	\$594,702.88	\$189.45

**ENDOWMENT AND INVESTMENT ACCOUNT**  
(Continued)

	Receipts	Disbursements	Balance Dec. 31, 1931
Brought Forward . . . . .	\$594,892.33	\$594,702.88	\$189.45
Anthropology Special Fund (Continued):			
Transferred from Special Funds Account . . . . .	83.25		
Purchase of Securities . . . . .		102.00	
	\$102.00	102.00	
James Arthur Research Fund:			
Bequest of James Arthur . . . . .	36,385.62		
Transferred from Special Funds Account . . . . .	78.75		
Purchase of Securities . . . . .		36,464.37	
	\$36,464.37	36,464.37	
Bashford Dean Ichthyological Library Fund:			
Balance . . . . .	1.20		
Transferred from Special Funds Account . . . . .	100.80		
Purchase of Securities . . . . .		102.00	
	\$102.00	102.00	
The Boyce Thompson Mineral Collection Fund:			
Bequest of William Boyce Thompson . . . . .	50,000.00		
Purchase of Securities . . . . .		50,000.00	
	\$50,000.00	50,000.00	
Vertebrate Palæontology Field Fund:			
Balance . . . . .	12,500.00		
Gift of a Trustee . . . . .	12,500.00		
Transferred from Special Funds Account . . . . .	47.00		
Purchase of Securities . . . . .		25,000.75	
	\$25,047.00	25,000.75	\$46.25
Vertebrate Palæontology Special Fund:			
Balance . . . . .	18.75		
Transferred from Special Funds Account . . . . .	83.25		
Purchase of Securities . . . . .		102.00	
	\$102.00	102.00	
Carried Forward . . . . .	\$706,709.70	\$706,474.00	\$235.70

**ENDOWMENT AND INVESTMENT ACCOUNT**  
(Continued)

	Receipts	Disbursements	Balance Dec. 31, 1931
Brought Forward.....	\$706,709.70	\$706,474.00	\$235.70
Frederick G. Voss Anthropology and Archæology Fund:			
Balance.....	100,082.50		
Bequest of Frederick G. Voss, third payment.....	50,000.00		
Transferred from Special Funds Account.....	54.50		
Purchase of Securities.....		150,137.00	
	<u>\$150,137.00</u>	<u>\$150,137.00</u>	
Wallace Memorial Fund:			
Balance.....	34.65		
Transferred from Special Funds Account.....	67.35		
Purchase of Securities.....		102.00	
	<u>\$102.00</u>	<u>\$102.00</u>	
<b>Total Special Endowment.</b>	<b>\$856,948.70</b>	<b>\$856,713.00</b>	<b>\$235.70</b>

**SPECIAL INVESTMENT FUNDS—(Restricted Funds):**

The Boyce Thompson Mineral Collection Installation Fund:			
Bequest of William Boyce Thompson.....	20,000.00		
Purchase of Securities.....		19,871.88	
	<u>\$20,000.00</u>	<u>\$19,871.88</u>	<u>\$128.12</u>
<b>Total Special Endowment...</b>	<b>\$20,000.00</b>	<b>\$19,871.88</b>	<b>\$128.12</b>
<b>Total Endowment and Investment</b>	<b>\$1,556,921.23</b>	<b>\$1,555,496.88</b>	<b>\$1,424.35</b>
<b>Interest on Credit Balances:</b>			
Interest earned to December 31, 1931.....	721.74		
Transferred to General Account		721.74	
	<u>\$1,557,642.97</u>	<u>\$1,556,218.62</u>	<u>\$1,424.35</u>

**CITY MAINTENANCE ACCOUNT\*****Receipts, 1931****Capital Fund:**

Cash Balance, January 1, 1931.....		<b>\$15,000.00</b>
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**Department of Parks, City of New York:**

Salaries, Regular Employees....	\$445,840.69	
Salaries, Temporary Employees (Special Repairs).....	16,950.00	<b>\$462,790.69</b>
<b>Expenses for Other Than Personal Service:</b>		
1410 Fuel Supplies.....	\$27,516.00	
1411 Office Supplies.....	8,130.00	
1412 Laundry, Cleaning and Disinfecting Supplies.....	3,215.00	
1413 Motor Vehicle Supplies	1,430.00	
1414 Educational and Recrea- tional Supplies.....	1,787.00	
1415 General Plant Supplies..	7,272.00	
1416 Wearing Apparel.....	2,500.00	
1417 Office Equipment.....	1,430.00	
1418 General Plant Equipment	2,145.00	
1419 General Plant Materials.	16,617.00	
1420 Special Repairs (Building Materials).....	3,967.00	
1421 Repairs and Replace- ments.....	2,860.00	
1422 Telephone Service.....	2,716.00	
1423 Fixed Charges and Con- tributions.....	3,000.00	<b>84,585.00</b>

<b>Total net receipts for the maintenance of all departments</b>		<b>547,375.69</b>
		<b><u>562,375.69</u></b>

\*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 1931 amounting to \$10,000.00, has been met from the Trustees' General Account.



CITY MAINTENANCE ACCOUNT

Disbursements, 1931

Administration and Operation:

Administration.....	\$256,077.05	
General Supplies and Expenses....	20,598.70	
Heating and Lighting.....	90,392.93	
Repairs and Installation.....	57,728.19	
Special Repairs.....	20,829.73	
Financial Administration.....	22,795.00	\$468,421.60

Scientific and Research:

Geology and Invertebrate Palæ- ontology.....	\$1,778.98	
Mineralogy.....	3,069.09	
Mammalogy.....	4,758.24	
Ornithology.....	5,543.79	
Vertebrate Palæontology.....	2,680.00	
Comparative Anatomy.....	414.99	
Anthropology.....	5,951.89	
Ichthyology.....	2,198.42	
Herpetology and Experimental Biology.....	2,212.50	
Lower Invertebrates.....	5,489.00	
Entomology.....	3,512.50	
Library.....	7,575.00	45,184.40

Printing, Books and Publications:

Printing and Publishing.....		8,448.41
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Preparation and Exhibition:

Preparation and Exhibition.....		2,050.81
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Educational—Public School Work:

Public Education.....		<u>23,270.47</u>
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Total net disbursements for the maintenance of all  
departments.....

**\$547,375.69**

Capital Fund:

Cash Balance, December 31, 1931.....	\$10,874.66	
Bills awaiting reimbursements from Department of Parks, December 31, 1931.....	4,125.34	<u>15,000.00</u>
		<u><u>\$562,375.69</u></u>

## GENERAL ACCOUNT

## Receipts, 1931

Cash Balance, January 1, 1931.....		\$9,875.75
Income from General Endowment Fund.....	\$90,316.47	
Income from George F. Baker Fund.....	13,194.06	
Income from Wood Fosdick Fund.....	50,507.29	
Income from Anna M. Harkness Fund.....	49,738.55	
Income from Collis P. Huntington Fund.....	2,496.84	
Income from Charles M. Jesup Trust Fund.....	4,806.58	
Income from John D. Rockefeller, Jr., Fund.....	62,965.67	
Income from The Sage Fund.....	86,674.04	
Income from Sixtieth Anniversary Endowment...	65,999.27	
Interest on Credit Balances.....	1,036.88	
Fellows and Life Members.....	2,900.00	
Sustaining Members.....	6,975.00	
Annual Members.....	44,880.00	
Associate Members.....	13,131.00	
Sale of Publications.....	5,395.61	
Subscriptions to Natural History.....	2,766.20	
Sales and Exchanges.....	2,259.03	
Contributions of Trustees for General Purposes:		
Frederick F. Brewster.....	\$1,500.00	
C. Suydam Cutting.....	1,000.00	
F. Trubee Davison.....	250.00	
Cleveland Earl Dodge.....	1,000.00	
Childs Frick.....	1,500.00	
Clarence L. Hay.....	1,000.00	
Ogden L. Mills.....	1,000.00	
Junius S. Morgan, Jr.....	2,000.00	
J. P. Morgan.....	7,500.00	
Henry Fairfield Osborn.....	1,000.00	
Henry W. Sage.....	1,000.00	
William K. Vanderbilt.....	2,000.00	
Felix M. Warburg.....	10,000.00	30,750.00
Contributions for General Purposes:		
David Todd Buckley.....	\$100.00	
Adrian Iselin.....	250.00	
Mr. and Mrs. Van Santvoord		
Merle-Smith.....	100.00	
C. Alison Scully.....	500.00	
Frederick Strauss.....	100.00	
Other Contributors.....	82.00	1,132.00
Contributions for Special Purposes:		
Carnegie Corporation of New		
York.....	\$5,000.00	
Cleveland H. Dodge Foundation.....	5,000.00	10,000.00
Subscriptions for Emergency Exhibition and Edu-		
cation (transferred from Special Funds).....		200.00
Subscriptions for Group Preparation (transferred		
from Special Funds).....		50.00
International Congress of Americanists (trans-		
ferred from Special Funds).....	1,111.15	549,285.64
<b>Total net receipts for the development of all departments</b>		<b>559,161.39</b>
Carried Forward.....		\$559,161.39

**GENERAL ACCOUNT**

**Disbursements, 1931**

<b>Administration and Operation:</b>		
Administration.....	\$56,308.11	
General Supplies and Expenses...	33,242.28	
Heating and Lighting.....	56,487.84	
Repairs and Installation.....	35,302.69	
Special Repairs.....	8,857.50	
Architects' Services.....	5,296.88	
Engineers' Services.....	2,500.00	
Legal Services.....	10,193.05	
Museum Restaurant Equipment.....	1,557.96	
Pension Fund.....	34,039.87	
Group Life Insurance.....	9,240.78	\$253,026.96
<b>Financial Administration:</b>		
Administration.....	\$49,514.23	
General Supplies and Expenses..	13,302.21	62,816.44
<b>Scientific and Research:</b>		
Geology and Invertebrate Palæ- ontology.....	\$5,458.93	
Mineralogy.....	1,323.43	
Mammalogy.....	5,786.55	
Ornithology.....	5,783.67	
Central Asiatic Exploration and Research.....	2,549.50	
Vertebrate Palæontology.....	5,472.59	
Comparative Anatomy.....	3,907.80	
Anthropology.....	4,212.88	
Ichthyology.....	5,005.66	
Herpetology and Experimental Biology.....	6,589.34	
Lower Invertebrates.....	3,573.14	
Entomology.....	8,208.35	
Library.....	10,776.71	
Astronomy.....	3,107.77	71,756.32
<b>Printing, Books and Publications:</b>		
Printing and Publishing.....		71,965.87
<b>Preparation and Exhibition:</b>		
Preparation and Exhibition.....		57,494.53
<b>Educational—Public School Work:</b>		
Public Education.....		61,985.95
<b>Total net disbursements for the development of all departments.....</b>		<b>\$579,046.07</b>
Carried Forward.....		\$579,046.07

**GENERAL ACCOUNT (Continued)****Receipts, 1931**

<b>Brought Forward</b> .....	<b>\$559,161.39</b>
<b>Sixtieth Anniversary Endowment:</b>	
Loan Account (transferred from General Account).....	82,404.12
<b>African Hall Construction:</b>	
Loan Account (transferred from General Account).....	33,302.07
<b>Authorized Deficit of 1931:</b>	
Loan Account (transferred from General Account).....	29,884.68
<b>Bank Loan:</b>	
Proceeds of Notes held by the United States Trust Com- pany of New York.....	350,000.00
	<u><u>\$1,054,752.26</u></u>

**GENERAL ACCOUNT (Continued)**

**Disbursements, 1931**

Brought Forward.....		\$579,046.07
Loans to Sixtieth Anniversary Endowment.....		82,404.12
Loans to African Hall Construction.....		33,302.07
Loans to Authorized Deficit of 1931.....		29,884.68
Sixtieth Anniversary Endowment Expense:		
1930 Account.....	\$66,133.14	
1931 Account.....	<u>16,270.98</u>	82,404.12
African Hall Construction.....		33,302.07
Cash Balance, December 31, 1931.....		214,409.13
		<u><u>\$1,054,752.26</u></u>

**SUMMARY**

Cash Balance, December 31, 1931.....	\$214,409.13
Loans Receivable:	
Sixtieth Anniversary Endowment.....	82,404.12
African Hall Construction.....	33,302.07
Authorized Deficit of 1931.....	29,884.68
	<u><u>\$360,000.00</u></u>
Bank Loans.....	\$350,000.00
Reserved for 1932.....	10,000.00
	<u><u>\$360,000.00</u></u>

**MORRIS K. JESUP FUND ACCOUNT\*****Receipts, 1931**

Trustees' Restricted Funds:		
Cash Balance, January 1, 1931.....		\$1,284.07
Income from Morris K. Jesup Fund.....	\$278,498.12	
Sale of Publications.....	3,600.47	
Sales and Exchanges.....	5,369.35	287,467.94
<b>Total net receipts for the development of all departments</b>		<b><u>288,752.01</u></b>

**Disbursements, 1931****Scientific and Research:**

Geology and Invertebrate Palæ- ontology.....			\$7,483.11	
Mineralogy.....			3,755.91	
Mammalogy.....			17,346.31	
Central Asiatic Exploration and Research.....			17,379.68	
Ornithology.....			23,988.34	
Vertebrate Palæontology.....			22,300.72	
President Osborn's Science Fund.....			6,384.71	
Comparative Anatomy.....			12,808.28	
Anthropology.....			24,147.42	
Ichthyology.....			10,823.50	
Herpetology and Experimental Biology.....			17,975.25	
Lower Invertebrates.....			5,818.40	
Entomology.....			10,161.11	
Library.....			10,256.90	\$190,629.64
<b>Printing, Books and Publications:</b>				
Printing and Publishing.....				23,970.42
<b>Preparation and Exhibition:</b>				
Preparation and Exhibition.....			\$45,249.13	
Vertebrate Palæontology.....			24,242.82	69,491.95
<b>Total net disbursements for the development of all departments.....</b>				<b>\$284,092.01</b>
Cash Balance, December 31, 1931.....				†4,660.00
				<b><u>288,752.01</u></b>

\*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.

†Available for obligations of 1931.

SPECIAL FUNDS ACCOUNT

Receipts and Disbursements, 1931

	Receipts	Disbursements	Balance Dec. 31, 1931
<b>Geology and Invertebrate</b>			
<b>Palæontology</b>			
J. P. Morgan Fund—Geology:			
Transferred from Reserve.....	\$310.80		
	<u>\$310.80</u>	<u>\$310.80</u>	
<b>Mineralogy</b>			
Matilda W. Bruce Fund:			
Balance.....	255.85		
Interest.....	596.84		
	<u>\$852.69</u>	<u>\$843.81</u>	<u>\$8.88</u>
J. P. Morgan Fund—Mineralogy:			
Transferred from Reserve.....	3,619.22		
	<u>\$3,619.22</u>	<u>\$3,619.22</u>	
The Boyce Thompson Mineral Collection Fund:			
Interest.....	1,125.00		
	<u>\$1,125.00</u>		<u>\$1,125.00</u>
Wallace Memorial Fund:			
Balance.....	60.75		
Interest.....	696.84		
	<u>\$757.59</u>	<u>\$757.59</u>	
<b>Mammalogy</b>			
Archbold Mammal Fund:			
Richard Archbold.....	3,456.05		
	<u>\$3,456.05</u>	<u>\$2,827.74</u>	<u>\$628.31</u>
George S. Bowdoin Whale Model Fund:			
Balance.....	750.00		
	<u>\$750.00</u>		<u>\$750.00</u>
Legendre Indo-China Expedition Fund:			
Sidney J. Legendre.....	1,000.00		
	<u>\$1,000.00</u>	<u>\$1,000.00</u>	
Morden Chamois Expedition Fund:			
William J. Morden.....	5,960.00		
	<u>\$5,960.00</u>	<u>\$5,960.00</u>	
North American Mammal Fund:			
George Shiras 3rd.....	300.00		
	<u>\$300.00</u>		<u>\$300.00</u>
Carried Forward.....	\$18,131.35	\$15,319.16	\$2,812.19

## SPECIAL FUNDS ACCOUNT (Continued)

	Receipts	Disbursements	Balance Dec. 31, 1931
Brought Forward.....	\$18,131.35	\$15,319.16	\$2,812.19
Ottley-Anthony Venezuela Expedition Fund:			
Gilbert Ottley.....	500.00		
	<u>\$500.00</u>	<u>\$283.62</u>	<u>\$216.38</u>
Special Canine Fund:			
Childs Frick.....	250.00		
	<u>\$250.00</u>	<u>\$10.38</u>	<u>\$239.62</u>
Asiatic Exploration and Research			
Central Asiatic Expeditions Fund:			
Balances.....	37,958.67		
Subscriptions:			
American Museum of Natural History.....	5,000.00		
Mrs. John Gribbel.....	25.00		
J. P. Morgan.....	7,500.00		
Sale of Publications.....	1,535.35		
	<u>\$52,019.02</u>	<u>\$15,757.40</u>	<u>\$36,261.62</u>
Ornithology			
Amazon Field Fund.			
Balance.....	84.42		
Mrs. Walter W. Naumburg....	2,277.70		
	<u>\$2,362.12</u>	<u>\$2,362.12</u>	
Archbold Madagascar Expedition Fund:			
Balance.....	176.06		
Richard Archbold.....	2,020.28		
	<u>\$2,196.34</u>	<u>\$2,196.34</u>	
Bird Photo Fund:			
National Geographic Society...	50.00		
	<u>\$50.00</u>	<u>\$36.63</u>	<u>\$13.37</u>
Celebes Expedition Fund:			
Richard Archbold.....	2,600.00		
	<u>\$2,600.00</u>	<u>\$2,600.00</u>	
Congo Bird Fund:			
Balance.....	313.04		
Estate of Emily Lefferts Jones...	3,000.00		
	<u>\$3,313.04</u>	<u>\$3,313.04</u>	
Carried Forward.....	\$81,421.87	\$41,878.59	\$39,543.18



**SPECIAL FUNDS ACCOUNT (Continued)**

	Receipts	Disbursements	Balance Dec. 31, 1931
Brought Forward.....	\$81,421.87	\$41,878.69	\$39,543.18
Congo Ornithological Field Fund:			
Balance.....	738.74		
	<u>\$738.74</u>	<u>\$738.74</u>	
Gulf of Guinea Expedition Fund:			
Balance.....	.35		
Estate of Samuel Brinckerhoff Thorne.....	1,813.96		
	<u>\$1,814.31</u>	<u>\$1,814.31</u>	
Ornithological Fund:			
Balance.....	163.90		
	<u>\$163.90</u>		<u>\$163.90</u>
Ruwenzori-Kivu Expedition Fund:			
Balance.....	11.53		
	<u>\$11.53</u>	<u>\$11.53</u>	
Margaret Olivia Sage Fund:			
Interest.....	427.88		
	<u>\$427.88</u>	<u>\$427.88</u>	
Whitney South Sea Expedition Fund:			
Balance.....	10,837.41		
Estate of H. P. Whitney.....	10,000.00		
Transferred from Museum Building Fund Account.....	12,257.97		
	<u>\$33,095.38</u>	<u>\$20,840.81</u>	<u>\$12,254.57</u>
Vertebrate Palæontology			
Frick-Gregory-Fulda Mural Fund:			
Balance.....	5.70		
	<u>\$5.70</u>	<u>\$5.70</u>	
J. P. Morgan Fund—Vertebrate Palæontology:			
Transferred from Reserve.....	21,008.86		
	<u>\$21,008.86</u>	<u>\$21,008.86</u>	
Osborn Palæontologic Research Fund:			
Balance.....	385.38		
Interest.....	254.20		
	<u>\$639.58</u>	<u>\$639.58</u>	
Carried Forward.....	\$139,327.75	\$87,366.10	\$51,961.65

## SPECIAL FUNDS ACCOUNT (Continued)

	Receipts	Disbursements	Balance Dec. 31, 1931
Brought Forward.....	\$139,327.75	\$87,366.10	\$51,961.65
American Pliocene Fund—Vertebrate Palæontology:			
Balance.....	10,391.58		
Anonymous.....	8,500.00		
Mrs. Childs Frick.....	2,000.00		
	<u>\$20,891.58</u>	<u>\$17,181.02</u>	<u>\$3,710.56</u>
Scarritt Patagonian Expedition Fund:			
Balance.....	3,673.12		
Refund.....	2,914.42		
	<u>\$6,587.54</u>	<u>\$2,650.68</u>	<u>\$3,936.86</u>
Vertebrate Palæontology Field Fund:			
Interest.....	411.21		
	<u>\$411.21</u>	<u>\$47.00</u>	<u>\$364.21</u>
Vertebrate Palæontology Special Fund:			
Balance.....	10.75		
Interest.....	46.84		
	<u>\$57.59</u>		<u>\$57.59</u>
Western Field Fund:			
Balance.....	5,138.30		
	<u>\$5,138.30</u>	<u>\$5,138.30</u>	
Comparative Anatomy			
James Arthur Research Fund:			
Interest.....	617.60		
	<u>\$617.60</u>	<u>\$278.75</u>	<u>\$338.85</u>
Anthropology			
Anthropology Special Fund:			
Balance.....	10.75		
Clarence L. Hay.....	200.00		
Interest.....	46.84		
	<u>\$257.59</u>	<u>\$200.00</u>	<u>\$57.59</u>
Charles L. Bernheimer Pictograph Research Fund:			
Balance.....	1,048.81		
	<u>\$1,048.81</u>	<u>\$1,048.81</u>	
Bishop Museum Fund:			
Bernice P. Bishop Museum.....	1,143.90		
	<u>\$1,143.90</u>	<u>\$1,143.90</u>	
Carried Forward.....	<u>\$175,481.87</u>	<u>\$115,054.56</u>	<u>\$60,427.31</u>

**SPECIAL FUNDS ACCOUNT (Continued)**

	Receipts	Disbursements	Balance Dec. 31, 1931
Brought Forward.....	\$175,481.87	\$115,054.56	\$60,427.31
<b>Carnegie Conference Fund:</b>			
Balance.....	351.75		
Carnegie Corporation of New York.....	600.00		
	<u>\$951.75</u>	<u>\$307.65</u>	<u>\$644.10</u>
<b>Middle American Research Fund:</b>			
Clarence L. Hay.....	200.00		
	<u>\$200.00</u>	<u>\$200.00</u>	
<b>Physical Anthropology Fund:</b>			
Balance.....	1,301.35		
Interest.....	524.54		
	<u>\$1,825.89</u>	<u>\$1,824.89</u>	<u>\$1.00</u>
<b>Physical Anthropology of Quebec Fund:</b>			
Laboratory of Anthropology, Santa Fé, New Mexico.....	300.00		
	<u>\$300.00</u>		<u>\$300.00</u>
<b>Special Physical Anthropology Fund:</b>			
Balance.....	500.00		
	<u>\$500.00</u>	<u>\$500.00</u>	
<b>Frederick G. Voss Anthropology and Archæology Fund:</b>			
Balance.....	271.70		
Interest.....	10,975.47		
	<u>\$11,247.17</u>	<u>\$9,643.53</u>	<u>\$1,603.64</u>
<b>West Indian Fund:</b>			
Anonymous.....	5,000.00		
	<u>\$5,000.00</u>	<u>\$4,988.53</u>	<u>\$11.47</u>
<b>Ichthyology</b>			
Bashford Dean Ichthyological Library Fund:			
Interest.....	250.84		
	<u>\$250.84</u>	<u>\$229.15</u>	<u>\$21.69</u>
<b>Herpetology and Experi- mental Biology</b>			
Special Biological Research Fund No. 1:			
Balance.....	690.78		
Mrs. Henry White.....	1,000.00		
Childs Frick.....	500.00		
	<u>\$2,190.78</u>	<u>\$1,658.04</u>	<u>\$532.74</u>
Carried Forward.....,..	\$197,948.30	\$134,406.35	\$63,541.95

## SPECIAL FUNDS ACCOUNT (Continued)

	Receipts	Disbursements	Balance Dec. 31, 1931
Brought Forward.....	\$197,948.30	\$134,406.36	\$63,541.95
Special Biological Research Fund No. 2:			
Balance.....	3,227.80		
George T. Bowdoin.....	1,000.00		
William Douglas Burden.....	1,000.00		
Cleveland Earl Dodge.....	1,000.00		
Clarence L. Hay.....	1,000.00		
Junius S. Morgan, Jr.....	2,000.00		
Estate of Percy R. Pyne.....	1,000.00		
A. Hamilton Rice.....	1,000.00		
Felix M. Warburg.....	500.00		
	<u>\$11,727.80</u>	<u>\$6,642.05</u>	<u>\$5,085.75</u>
Entomology			
Entomological Fund:			
Balance.....	1,436.00		
	<u>\$1,436.00</u>	<u>\$8.00</u>	<u>\$1,428.00</u>
Library			
Anson W. Hard Library Fund:			
Interest.....	251.84		
	<u>\$251.84</u>	<u>\$251.84</u>	
Ralph Winfred Tower Memorial Fund:			
Interest.....	1,188.34		
	<u>\$1,188.34</u>	<u>\$1,188.34</u>	
Printing and Publishing			
Anthropological Handbook Fund:			
Balance.....	2,242.69		
Sales.....	571.98		
	<u>\$2,814.67</u>		<u>\$2,814.67</u>
Brewster-Sanford Publication Fund:			
Balance.....	87.69		
	<u>\$87.69</u>	<u>\$87.69</u>	
Cope Publication Fund:			
Balance.....	500.00		
	<u>\$500.00</u>	<u>\$500.00</u>	
Public Education			
Astronomic Fund:			
Balance.....	325.14		
	<u>\$325.14</u>	<u>\$110.60</u>	<u>\$214.54</u>
Carried Forward.....	\$216,279.78	\$143,194.87	73,084.91

## SPECIAL FUNDS ACCOUNT (Continued)

	Receipts	Disbursements	Balance Dec. 31, 1931
Brought Forward.....	\$216,279.78	\$143,194.87	\$73,084.91
<b>Carnegie Corporation of New York Fund:</b>			
Balance.....	2,220.41		
Carnegie Corporation of New York.....	10,000.00		
	<u>\$12,220.41</u>	<u>\$10,168.42</u>	<u>\$2,051.99</u>
<b>School Fund:</b>			
Henry J. Bernheim.....	100.00		
Tuition Fees.....	136.67		
Guiding Fees.....	41.00		
	<u>\$277.67</u>	<u>\$277.67</u>	
<b>Special Education Fund:</b>			
Balance.....	104.71		
Felix M. Warburg.....	10,000.00		
	<u>\$10,104.71</u>	<u>\$8,738.39</u>	<u>\$1,366.32</u>
<b>Jonathan Thorne Memorial Fund:</b>			
Balance.....	731.14		
Interest.....	893.32		
	<u>\$1,624.46</u>	<u>\$915.89</u>	<u>\$708.57</u>
<b>Preparation and Exhibition African Hall Group Fund:</b>			
Balance.....	51,889.32		
	<u>\$51,889.32</u>	<u>\$31,565.79</u>	<u>\$20,323.53</u>
<b>African Hall Preparation Fund Gorilla Group:</b>			
Edna A. Stone.....	4,000.00		
Franz T. Stone.....	8,500.00		
Julius F. Stone.....	5,000.00		
Natalia S. Stone.....	5,000.00		
Theodora M. Stone.....	5,000.00		
	<u>\$27,500.00</u>		<u>\$27,500.00</u>
<b>African Hall Preparation Special Fund:</b>			
Balance.....	1,250.00		
Interest.....	2,500.00		
	<u>\$3,750.00</u>		<u>\$3,750.00</u>
<b>Carlisle-Clark African Expedition Preparation Fund:</b>			
Balance.....	15,971.17		
	<u>\$15,971.17</u>		<u>\$15,971.17</u>
Carried Forward.....	\$339,617.52	\$194,861.03	144,756.49

## SPECIAL FUNDS ACCOUNT (Continued)

	Receipts	Disbursements	Balance Dec. 31, 1931
Brought Forward.....	\$339,617.52	\$194,861.03	\$144,756.49
O'Donnell-Clark African Expedition Fund:			
Balance.....	49,918.64		
	<u>\$49,918.64</u>	<u>\$24,764.55</u>	<u>\$25,154.09</u>
Vernay Special Asiatic Fund:			
Arthur S. Vernay.....	448.78		
	<u>\$448.78</u>	<u>\$448.78</u>	
Walrus Group Fund:			
Balance.....	1,511.23		
	<u>\$1,511.23</u>	<u>\$1,511.23</u>	
Total net receipts for the development of specific departments.....	\$391,496.17		
Total net disbursements for the development of specific departments.....		\$221,585.59	
Balances, December 31, 1931.....			\$169,910.58
J. P. Morgan Fund Reserve:			
Balance.....	\$4,255.47		
Interest.....	24,581.34		
	<u>\$28,836.81</u>	<u>\$24,956.12</u>	<u>\$3,880.69</u>
Emergency Exhibition and Education Fund Reserve No. 1, 1930:			
William Church Osborn.....	100.00		
	<u>\$100.00</u>	<u>\$100.00</u>	
Emergency Exhibition and Education Fund Reserve No. 1, 1931:			
Emily A. Schwarz.....	100.00		
	<u>\$100.00</u>	<u>\$100.00</u>	
Group Preparation Fund Reserve General Preparation 1931:			
Mrs. Herbert L. Satterlee.....	50.00		
	<u>\$50.00</u>	<u>\$50.00</u>	
Totals.....	<u>\$420,582.98</u>	<u>\$246,791.71</u>	<u>\$173,791.27</u>

THE AMERICAN MUSEUM OF NATURAL HISTORY  
CORPORATE STOCK ACCOUNT

1931

Receipts:

Department of Parks, City of New York:

C. D. P. 123-K.....	\$18,004.50
N. D. P. 3-8.....	20,638.00
N. D. P. 3-9.....	737.00
N. D. P. 3-10.....	1,688.50
N. D. P. 3-11.....	<u>3,341.25</u>

\$44,409.25

Interest on Credit Balances..... 7.44

\$44,416.69

Disbursements:

Payroll of Mechanics, etc.....	\$44,409.25
Interest on Credit Balances (to General Account).....	7.44

\$44,416.69

TRUSTEES' BUILDING FUND ACCOUNT

1931

Receipts:

H. P. Whitney Gift of South Oceanic Wing:

Interest on Credit Balances..... \$12,257.97

\$12,257.97

Disbursements:

H. P. Whitney Gift of South Oceanic Wing:

Transferred to Whitney South Sea Expedition Fund,  
Special Funds Account..... \$12,257.97

\$12,257.97

## INCIDENTAL ACCOUNT

1931

## Receipts:

Cash Balance, January 1, 1931.....		\$6,481.48
Received from Individuals and Societies.....		49,844.31
Group Life Insurance:		
Employees' Premium Payments.....	\$9,087.45	
Loans.....	<u>4,655.91</u>	13,743.36
Mayor's Official Committee:		
Employees' Contributions to Unemployment Fund.....		5,123.91
Interest on Credit Balances.....		<u>79.27</u>
		<u>\$75,272.33</u>

## Disbursements:

Disbursements for Individuals and Societies.....		\$50,254.07
Group Life Insurance:		
Premiums.....	\$9,187.56	
Loan Instalments.....	<u>4,555.80</u>	13,743.36
Mayor's Official Committee:		
Payments to Unemployment Fund.....		5,130.02
Interest on Credit Balances (to General Account).....		<u>79.27</u>
Cash Balance, December 31, 1931.....		<u>6,065.61</u>
		<u>\$75,272.33</u>

All the foregoing accounts have been

Examined and	{ DOUGLAS BURDEN FREDERICK TRUBEE DAVISON H. RIVINGTON PYNE }	} <i>Auditing Committee.</i>
Approved		

E. and O. E.

NEW YORK, December 31, 1931.

JAMES H. PERKINS, *Treasurer.*



THE AUDIT COMPANY OF NEW YORK  
26 Broadway  
New York

February 13, 1932

OGDEN L. MILLS, Esq.,  
Chairman Auditing Committee,  
American Museum of Natural History,  
77th Street and Central Park West,  
New York, N. Y.

DEAR SIR:—

We have examined the accounts and records of the various Funds of the American Museum of Natural History for the year ended December 31, 1931.

\* \* \* \* \*

We certify that the statements of Cash Receipts and Disbursements of the several funds, annexed hereto, are in accord with the books and, in our opinion, correctly set forth the results of the operations of the Funds of the American Museum of Natural History for the year ended December 31, 1931.

Respectfully submitted.

THE AUDIT COMPANY OF NEW YORK,  
(Signed) R. G. RANKIN, *President*.



**TREASURER'S REPORT**  
**OF THE**  
**PENSION FUND**  
**OF**  
**THE AMERICAN MUSEUM OF NATURAL HISTORY**  
**FOR THE YEAR 1931**

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**INVESTED FUNDS**

**Summary**

	Par Value	Book Value
Investment Fund .....	\$685,841.63	\$658,265.11
Endowment Fund .....	1,258.37	1,140.39
	<u>\$687,100.00</u>	<u>\$659,405.50</u>

## PENSION FUND ACCOUNT

## Receipts, 1931

Cash Balance, January 1, 1931.....			\$27,777.26
Contributions of Subscribing Employees:			
Deductions of 3% from Payrolls of			
General Account.....	\$15,396.00		
Morris K. Jesup Fund Account.....	6,785.23		
City Maintenance Account.....	7,148.46		
Special Funds Account.....	1,010.08		
Corporate Stock Account.....	903.02		
Museum Restaurant Account...	313.72		
Museum Cafeteria Account.....	11.53		
	<u>\$31,568.04</u>		
Personal Payments of Subscribing Employees.....	720.71	\$32,288.75	
Contributions of Board of Trustees:			
To equal contributions of Subscribing Employees.....		32,288.75	
Income from Investment Fund.....	\$28,898.05		
Income from Endowment Fund.....	50.34	28,948.39	
Interest on Credit Balances.....		<u>96.22</u>	93,622.11
Redemptions of Securities and Amortization Payments:			
Investment Fund.....			14,775.00
Bursar's Account.....			<u>1,000.00</u>
			<u>\$137,174.37</u>

Examined and Approved { A. PERRY OSBORN }  
 { F. TRUBEE DAVISON } Auditing Committee

PENSION FUND ACCOUNT

Disbursements, 1931

Return of Contributions.....	\$4,403.03		
Interest on Contributions Returned.	374.55	\$4,777.58	
Service Pensions "A".....	\$6,724.37		
Service Pensions "B".....	1,692.00		
Service Pensions "C".....	1,225.00		
Pensions in Event of Illness, Dis-			
missals, etc.....	1,619.44	11,260.81	
Death Gratuities Paid under			
Section 13.....	\$7,623.80		
Death Gratuities Paid under			
Section 18.....	867.77	8,491.57	
Expenses.....		70.00	\$24,599.96
Purchase of Securities:			
Investment Fund.....			94,638.75
Loan Account.....			1,000.00
Cash Balance, December 31, 1931:			
Deposited with the United States Trust Com-			
pany of New York.....	\$15,935.66		
Deposited with the National City Bank of New			
York (Bursar's Account).....	1,000.00	16,935.66	
		<u>\$137,174.37</u>	

E. & O. E.

New York, December 31, 1931.

## PENSION FUND—SPECIAL FUNDS ACCOUNT

## Receipts, 1931

Welfare Fund:	
Cash Balance, January 1, 1931.....	\$1,349.65
Refunds from Secretary.....	39.06
Interest on Credit Balances.....	9.96
	<u>\$1,398.67</u>
Examined and Approved	{ A. PERRY OSBORN F. TRUBEE DAVISON } <i>Auditing Committee</i>

## PENSION FUND—SPECIAL FUNDS ACCOUNT

## Disbursements, 1931

Welfare Fund:	
Assistance and Relief.....	\$404.38
Cash Balance, December 31, 1931:	
Deposited with the United States Trust Company of New York.....	994.29
	<u>\$1,398.67</u>
E. & O. E.	
New York, December 31, 1931	JAMES H. PERKINS, <i>Treasurer</i>

THE AUDIT COMPANY OF NEW YORK  
26 Broadway  
New York

A. PERRY OSBORN, Esq.,  
Chairman Auditing Committee,  
Pension Board of the American Museum of Natural History,  
Seventy-seventh Street and Central Park West,  
New York City.

DEAR SIR:

We have examined the records of the Cash Receipts and Disbursements of the Pension Fund of the American Museum of Natural History for the year ending December 31, 1931.

\* \* \* \* \*

We hereby certify that the annexed statements of Cash Receipts and Disbursements are in accord with the books and, in our opinion, correctly set forth the results of the operations of the Funds of the Pension Fund of the American Museum of Natural History, for the Year ended December 31, 1931.

Respectfully submitted,  
THE AUDIT COMPANY OF NEW YORK.  
R. G. RANKIN, *President.*

NEW YORK,  
February 11, 1932.





## V. MEMBERSHIP

CLARENCE L. HAY, Secretary

WAYNE M. FAUNCE, Assistant Secretary

Due to the continuation of the universal stringent economic conditions, the American Museum has suffered with similar institutions a decline in its membership. Through resignation the loss has been greater than usual and, from that cause and through death and transfers, the total decrease amounts to 1,122. On the other hand, we can with gratification report the addition of 1,034 new members during 1931, so that the net loss in membership is only 88, a very negligible percentage of the full membership of 12,007.

Upon the constant loyalty of our members depends a substantial part of the success of our educational efforts. That loyal support is expressed not only in the regular fees, and frequent extra contributions, but in less tangible though even more valuable and deeply influential manner in the enthusiasm and pride of the members in the institution. The extent and diversity of our membership also affords an incomparable means of teaching every phase of natural history with which our Scientific Staff is identified.

To our appreciation and gratitude for the continued coöperation of the entire membership are added our thanks for exceptional gifts. Dr. I. Wyman Drummond has presented to the Gem Collection a splendid series of carved jade objects which has so enriched our collection that it is becoming widely known as the best in America, and as ranking high in the gem collections of the world.

The Spring and Autumn Courses of Lectures for Members have continued to attract a large attendance. On the occasions of all the Members' Lectures, the Museum Restaurant has remained open to serve a special dinner, thus enabling many of our members to dine in pleasant surroundings at the Museum and to visit some of the exhibition halls before the lecture.

During 1931, the following lectures for Members were given; Fossil Hunting in Navajo Land, by Mr. Barnum Brown; The Land of the Lost Eskimo, by Captain Robert A. Bartlett; Asiatic Steppes and Forests, by Mr. William J. Morden; Life In and Under the South Seas, by Mr. Arthur C. Pillsbury; Gorillas at Home,

by Harry C. Raven; *The Fishing Banks and Fishing*, by Bassett Jones; *With Byrd to the Bottom of the World*, by Laurence M. Gould; *The Glories of the Apache Trail*, by Robert Frothingham; *Intimate Glimpses of Animals of the Southwest*, by William L. Finley.

Spring and Autumn Lectures to the Children of Members were as follows: *The Spirit of the Jungle*, by Mr. Dhan Gopal Mukerji; *Birds of Prairie and Woodland*, by Mr. Cleveland P. Grant; *Tales of an Indian Chief*, by Chief Long Lance; *A Trip to Iceland and Lapland*, by Dr. Clyde Fisher; *Nature Poems and Pictures*, by Ruth Crosby Noble; *Indian Music*, by Rosebud Seymour; *The Story of the Beaver*, by William H. Carr; *African Adventures*, by Harold T. Green.

On April 22 was held the Third Annual Members' Visiting Day, a social occasion at which we had the privilege of giving more than three hundred members and their friends an official and intimate inspection of the progress in our research laboratories, preparation studios and new exhibits.

A radical revision has been instituted in the regulations for membership. By action of the Trustees at a meeting of the Board on December 10, the restriction that Associate Members must reside at least fifty miles from the Museum was removed, and it is now possible for many friends of the Museum in the metropolitan area, who did not desire to subscribe to annual membership, to become definitely associated with the institution by the payment of annual dues of only three dollars.

On December 31, 1931, our membership, by classes, was made up as follows:

Founders.....	0	Fellows.....	93
Endowment Members.....	7	Honorary Life Members.....	68
Benefactors.....	15	Life Members.....	1,164
Associate Founders.....	19	Corresponding Members.....	22
Associate Benefactors.....	36	Sustaining Members.....	295
Patrons.....	206	Annual Members.....	4,961
Honorary Fellows.....	21	Associate Members.....	5,100

Total Membership, December, 31, 1931.....12,007

**CHANGES IN THE BOARD OF TRUSTEES**

The Secretary reports with the deepest regret and sorrow an irreplaceable loss to the Museum in the death of one of its most eminent Trustees, Mr. George Fisher Baker. The President, in his memorial tribute, speaks of Mr. Baker's distinguished service to the Museum, and at the meeting of the Board of Trustees held on May 4 the following resolution was unanimously adopted:

*Resolved*, That the Trustees of The American Museum of Natural History desire to express their deep loss through the death of their colleague,

**GEORGE FISHER BAKER**

who passed away on May 2, 1931. Mr. Baker was elected a Trustee at the Annual Meeting of the Board on February 2, 1914, as the successor of his lifelong friend, Mr. J. Pierpont Morgan. He became First Vice-President in 1924 and served in this capacity until his death. He was a member of the Finance Committee from 1914 to 1926 and of the Special Committee on the Jesup Bequest for the years 1914 and 1915. Mr. Baker was successively elected a Patron, an Associate Benefactor, a Benefactor and an Endowment Member of the Museum. He displayed a great interest especially in exploration, in Central Asia under Roy Chapman Andrews, and he was a generous supporter of the Central Asiatic Expeditions since their inception ten years ago. He was a regular attendant at the Annual Meetings. His invaluable advice was freely given on many financial problems of the Museum and he became one of the Museum's most generous supporters. He also took a generous share in meeting the general running expenses of the Museum. The most personal of his gifts was his tribute to his dear friend, through providing the means for redesigning the Morgan Memorial Hall and the rearrangement of the collection of minerals and jewels presented by Mr. Morgan. The dedication of the hall is contained in a bronze tablet at the entrance, which bears the following inscription:

**MORGAN MEMORIAL HALL  
PRESENTED TO  
THE PEOPLE OF THE CITY OF NEW YORK  
BY GEORGE FISHER BAKER TRUSTEE OF THE MUSEUM  
IN MEMORY OF HIS FRIEND  
JOHN PIERPONT MORGAN  
MCMXXI**

The Trustees of the Board extend their deepest sympathy to the members of the family in the passing away of one of the finest examples of American citizenship and one of the leaders of American finance in the last century, and a man of such great personal charm and character.

At the Annual Meeting of January 4, 1932, Professor Henry Fairfield Osborn was re-elected President; Mr. J. P. Morgan was elected First Vice-President to fill the vacancy due to the death of Mr. George F. Baker; Mr. Cleveland E. Dodge was elected Second Vice-President, the office formerly held by Mr. J. P. Morgan; Mr. James H. Perkins was re-elected Treasurer, and Mr. Clarence L. Hay was re-elected Secretary.

Also at the Annual Meeting of January 4, 1932, Mr. Frederick H. Osborn was elected to the Class of 1934, to fill the vacancy due to the death of Mr. George F. Baker. The following Trustees, whose terms expired at the Annual Meeting of 1932, were re-elected to the Class of 1936: Messrs. Frederick F. Brewster, Douglas Burden, Cleveland E. Dodge, Childs Frick, James H. Perkins, and Leonard C. Sanford.

#### CHANGES AND PROMOTIONS IN THE SCIENTIFIC STAFF

In the Department of Anthropology Ronald L. Olson, Ph.D., resigned as Assistant Curator of South American Archæology to accept the post of Associate Professor of Anthropology in the University of California, and was appointed Research Associate in Peruvian Archæology in the American Museum. To fill this vacancy in the staff, W. C. Bennett, Ph.D., was appointed September 1, 1931, Assistant Curator in Anthropology.

Mr. Sydney E. Helprin, A.M., was appointed Assistant Curator in the Department of Geology, and Mr. T. Donald Carter was appointed Assistant Curator of Old World Mammals.

Other Research Associates were appointed by the Trustees: Père Teilhard de Chardin, Research Associate in Mammalian Palæontology, Department of Asiatic Exploration and Research; Mr. Richard Archbold in the Department of Mammalogy, and Frederick Tilney, Ph.D., M.D., in the Department of Comparative and Human Anatomy.

Mrs. Helen Teale Bradley, A.B., and Miss Leah B. Richards, A.M., were appointed Staff Assistants in the Department of Experimental Biology.

The following changes were made in the Department of Education: Miss Dorothy A. Bennett, A.B., was promoted from Staff Assistant to Assistant Curator, and Messrs. Herman A. Sievers, John Saunders, L. Wales Holden, and the Misses Farida A. Wiley and Agnes G. Kelly, A.M., were appointed Staff Assistants.

**NEW MEMBERS**

During 1931 the following new members were elected:

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MISS MARION M. WILSON

\*Deceased

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GEORGE F. BAKER

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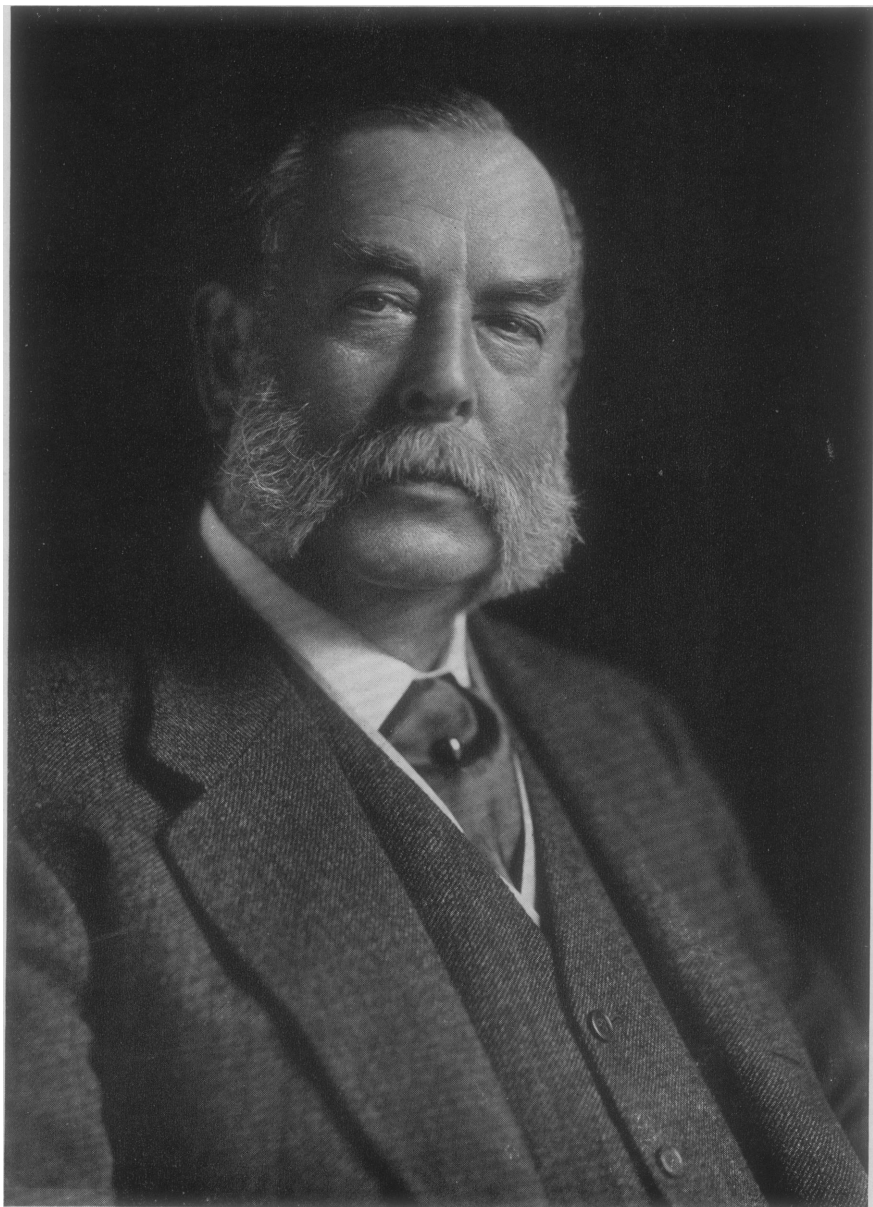
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GEORGE FISHER BAKER

1840-1931

Trustee of the American Museum of Natural History, 1914-1931

First Vice-President, 1924-1931





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**MEYER STERN**

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**ALBERT TAG**

Respectfully submitted,

**CLARENCE L. HAY,**

*Secretary.*

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*December 31, 1931*

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 Barber, Thomas H.  
 Barbour, F. K.  
 Barker, Alexander C.

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 Brune, Fred. H.  
 Bruning, Florence E.  
 Bruns, Edwin G., Jr.  
 Brunswick, Mrs. E.  
 Bryant, Dr. Alice G.  
 Bryant, Chas. E.  
 Bryant, Mrs. Martha L.  
 Bryce, Miss Mary Tileston  
 Buch, Miss Emily  
 Buchman, Albert  
 Buck, Helen I.  
 Buckle, Lewis M.  
 Buckley, B. Lord  
 Bucknall, George Stafford  
 Buckner, M. N.  
 Buckner, Thos. A.  
 Buckner, Walker  
 Buckstaff, Ralph N.  
 Bucky, Dr. Gustav  
 Buechner, C. Fred  
 Buffin, Mrs. L.  
 Bugbee, Dr. Henry G.  
 Bulkley, Edwin M.  
 Bulkley, Mrs. Edwin M.  
 Bulkley, Jonathan  
 Bulkley, Joseph E.  
 Bulkley, Robert J.  
 Bull, Chas. Livingston  
 Bull, Mrs. E. Llewellyn  
 Bull, Mrs. Ludlow  
 Bullowa, Dr. Jesse G. M.  
 Bunker, William  
 Burch, Guy I.  
 Burch, Mrs. Lowell R.  
 Burchell, Fford  
 Burchell, Henry  
 Burden, James A.  
 Burden, John  
 Burden, Mrs. W. A. M.  
 Burdett, Mrs. Frederick T.  
 Burgess, H. D. R.  
 Burgess, Thornton W.  
 Burghard, Mrs. Josephine F.  
 Burghardt, F. A.  
 Burgi, Oscar  
 Burhorn, Edwin  
 Burke, Mrs. Stanley W.  
 Burleigh, George Wm.  
 Burleigh, Mrs. George W.  
 Burlingame,  
     Mrs. Frederic A.  
 Burlingham, Mrs. Charles  
 Burlingham, Mrs. Charles C.  
 Burlingham, Hiram  
 Burnham, Gordon W.  
 Burpee, George W.  
 Burr, Allston  
 Burr, Geo. H.  
 Burr, Mrs. Winthrop  
 Burr, Wm. H.  
 Burroughs, Chas. W.  
 Burton, Mrs. Bhima  
 Burton, J. Campbell  
 Burton, Mrs. J. H.  
 Burton, Mrs. Robert L.  
 Bushnell, Charles E.  
 Bushnell, Douglas S.  
 Bussing, Miss Mary  
 Butler, Charles S.  
 Butler, Dr. E. Santley  
 Butler, Ethan Flagg, M.D.  
 Butler, Joseph G., 3d  
 Button, Mrs. W. H.  
 Buttrey, A. J.  
 Byrd, William  
 Byrne, James  
 Byrne, Mrs. James  
 Cabot, F. H., Jr.  
 Cabot, William B.  
 Cady, Vernon M., Ph.D.  
 Cæsar, H. A.  
 Cæsar, Harry I.  
 Cahen, James P.

- Cahill, Edmund H.  
 Cahn, Mrs. Leopold  
 Cahn, Mrs. S.  
 Caldwell, Edward T.  
 Caldwell, Mrs. Jean H.  
 Caldwell, Prof. Otis W.  
 Caldwell, R. J.  
 Caldwell, Dr. W. E.  
 Calkins, Miss E. W.  
 Callan, William  
 Callaway, Merrel P.  
 Callender, Mrs. John A.  
 Calman, Henry L.  
 Calvocoressi, L. J.  
 Cameron, Amelia E.  
 Cammann, E. C.  
 Cammann, Mrs. Henry L.  
 Campbell, Alexander C.  
 Campbell, Dr. C. G.  
 Campbell, Clarence L.  
 Campbell, Dr. Eleanor A.  
 Campbell, Miss Flora M.  
 Campbell, Lauretta  
 Campbell, Mrs. Robert James  
 Cane, Melville H.  
 Canfield, George F.  
 Cannon, Charles M.  
 Cannon, H. W.  
 Canter, Max M.  
 Caplin, Harry  
 Capron, C. Alexander  
 Carden, George A.  
 Cardozo, Michael H., Jr.  
 Cardozo, Sidney B.  
 Carlebach, Mrs. Emil  
 Carlebach, Walter M.  
 Carlisle, Mrs. John  
 Carlotti, Charles J.  
 Carlton, Newcomb  
 Carpender, Mrs. Edwin R.  
 Carpenter, Mrs. C. C.  
 Carpenter, Charles C.  
 Carpenter, Mrs. J. Norman  
 Carpenter, Thomas R.  
 Carr, Herbert J.  
 Carr, James A.  
 Carrott, O. B.  
 Carscallen, Mrs. John D., 2d  
 Carscallen, Marie L.  
 Carter, Ernest T.  
 Carter, Mrs. Ernest T.  
 Carter, R. Franklin, M.D.  
 Carty, John J.  
 Carver, Clifford  
 Cary, Mrs. Robert J.  
 Casamajor, Dr. Louis  
 Casamajor, Miss Martha  
 Case, Mrs. Charles L.  
 Case, J. Herbert  
 Case, Theodore W.  
 Caspary, A. H.  
 Cass, Charles Anderson  
 Cassell, Mrs. William Edward  
 Castle, Chas. C.  
 Cattell, J. McKeen  
 Cattus, John V. A.  
 Caulfield, John  
 Ceballos, Mrs. Juan M.  
 Chace, Arthur F.  
 Chadbourne, William M.  
 Chaffee, H. Almon  
 Chalmers, Arthur A.  
 Chambers, Frank R.  
 Chambers, Geo. J.  
 Chandler, Mrs. Harry A.  
 Chandler, Norman Wilmer  
 Chandler, Percy M.  
 Chandor, Miss Valentine L.  
 Chapin, C. H. B.  
 Chapin, Miss Cornelia VanA.  
 Chapin, L. H. Paul  
 Chapin, Miss Maria Bowen  
 Chapman, Clarence E.  
 Chapman, Mrs. Clarence E.  
 Chapman, Mrs. Edwin N.  
 Chapman, John Jay  
 Chapman, Mrs. John Jay  
 Chappell, Mrs. Howard Field  
 Charles, Lillian M.  
 Charles, Mrs. Mary de P.  
 Charles, William B.  
 Charlton, Mrs. Earle P.  
 Chase, Miss Jessie  
 Chatillon, George E.  
 Chauncey, A. Wallace  
 Chaves, José E.  
 Cheney, Geo. L.  
 Cheney, Mrs. K. D.  
 Cheney, Louis R.  
 Chester, Hawley T.  
 Child, Ralph S.  
 Child, Miss Ruth Auchincloss  
 Childs, Frederick R.  
 Childs, Mrs. W. J.  
 Childs, Wm.  
 Chipman, Guy W.  
 Chisholm, Hugh J.  
 Chisholm, Mrs. Hugh J.  
 Chisman, Rosa B.  
 Chisolm, B. Ogden  
 Chisolm, Mrs. B. Ogden  
 Choate, Mabel  
 Christie, R. E.  
 Chubb, Mrs. F. Y.  
 Chubb, Mrs. Hendon  
 Church, C. T.  
 Church, F. Edwin  
 Church, Louis P.  
 Cisco, George H.  
 Clafin, Mrs. George E.  
 Clafin, John  
 Clapp, Frederick G.  
 Clapp, George H.  
 Clapp, Paul S.  
 Clark, Bert  
 Clark, Mrs. Charles M.  
 Clark, Charles Martin  
 Clark, Clarence M.  
 Clark, Miss Ella Mabel  
 Clark, George C., Jr.  
 Clark, George H.  
 Clark, Mrs. Grenville  
 Clark, Harold Benjamin  
 Clark, Harold T.  
 Clark, Henry A.  
 Clark, Jesse W.  
 Clark, John M.  
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 Clark, James Cameron  
 Clark, Mrs. John Peyton  
 Clark, Mrs. Le Roy  
 Clark, Maud S.  
 Clark, Raymond Skinner  
 Clarke, Mrs. David

- Clarke, Mrs. E. A. S.  
 Clarke, Florence  
 Clausen, George U.  
 Clayberger, R. P.  
 Clayburgh, Albert  
 Clayton, Florence P.  
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 Cleveland, Mather  
 Clevenger, Mrs. Russell R.  
 Close, Walter H.  
 Clow, Mrs. James C.  
 Clowes, Francis J.  
 Clowes, Frederick V.  
 Cluett, Walter H.  
 Coakley, Cornelius G., M.D.  
 Cobb, A. Polhemus  
 Cobb, Mrs. Clement B. P.  
 Cobb, Mrs. Henry E.  
 Cobb, Irvin S.  
 Cochran, G. D.  
 Coe, Henry E., Jr.  
 Coffin, Miss Alice S.  
 Coffin, Francis A.  
 Coffin, William S.  
 Cogswell, Mrs. Ledyard, Jr.  
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 Cohen, DeWitt Clinton  
 Cohen, Julius Henry  
 Cohen, Max  
 Cohen, Moise K.  
 Cohen, Wm. N.  
 Cohen, William W.  
 Cohn, Alfred E.  
 Cohn, Martin L.  
 Colburn, Albert E.  
 Colburn, Burnham S.  
 Cole, Dr. C. Monford  
 Cole, Edwin  
 Cole, Frederic A.  
 Cole, Irving V.  
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 Cole, Rufus  
 Cole, Mrs. Rufus  
 Colebrook, Charles B.  
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 Coleman, L. W. T.  
 Coleman, Mrs. Leighton H.
- Coleman, Dr. Warren  
 Coles, Robert R.  
 Colgate, Gilbert  
 Colgate, James C.  
 Colgate, Mrs. Richard M.  
 Colie, Stuart Edgar  
 Collier, Mrs. R. J.  
 Collins, Chas. Farnham, M.D.  
 Collison, B. N.  
 Colonna, Mrs. Paul A.  
 Colp, Dr. Ralph  
 Colt, Harris D.  
 Colt, Richard C.  
 Colton, Mrs. Chester L.  
 Conboy, Martin  
 Cone, Bernard M.  
 Cone, Mrs. Ceasar  
 Cone, Frederick H.  
 Conklin, Mrs. W. R.  
 Connable, Mrs. John Lee  
 Connfelt, Charles M.  
 Connor, Mrs. Edith  
 Conover, Myra B.  
 Conroy, Mrs. William H.  
 Constantian, Dr. R.  
 Content, Walter  
 Conway, W. Palen  
 Conyngham, Mrs. John N.  
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 Cook, H. J.  
 Cooke, Richard A.  
 Cooley, Samuel S.  
 Coolidge, Oliver H.  
 Coolidge, Mrs. W. H., Jr.  
 Coombs, James Bliss  
 Coombs, Mrs. Robert D.  
 Coonan, J. E.  
 Cooper, Mrs. Charles W.  
 Cooper, Drury W., Jr.  
 Cooper, Dudley M.  
 Cooper, F. G.  
 Cooper, Henry E.  
 Cooper, Henry S. Fenimore  
 Cooper, Mrs. M. Le Brun  
 Cooper, Morris  
 Copeland, Royal S., M.D.  
 Coppell, Arthur  
 Corbin, A. O.
- Corbin, Austin  
 Corcoran, George Eustis  
 Coriell, William W.  
 Corlies, Howard  
 Cormack, G. A.  
 Corn, Belmont  
 Cornell, Edward  
 Cornell, F. G., Jr.  
 Corning, Mrs. Parker  
 Corsa, James E.  
 Corscaden, Dr. James A.  
 Cory, Robert H.  
 Cosel, Max D.  
 Coshland, Mrs. Lee B.  
 Costello, J. George  
 Coster, Mrs. C. H.  
 Cote, Arthur J.  
 Cotting, C. E.  
 Coulter, E. D.  
 Courtney, Mrs. Basil S.  
 Coutant, Mrs. Russel S.  
 Cowan, Harold  
 Coward, Marian W.  
 Codwin, J. Cheever  
 Cowdin, Mrs. Winthrop  
 Cowl, Clarkson  
 Cowl, Mrs. Clarkson  
 Cowles, Dr. Edward S.  
 Cowles, Mrs. Percival W.  
 Crabbe, Mrs. Charles  
 Crabbe, Miss Louise G.  
 Craft, Laura F.  
 Craig, Dr. Gerald S.  
 Craig, Gladys M.  
 Crain, Miss Christobelle  
 Cram, Mrs. Harward W.  
 Crandall, John Lou  
 Crane, Charles R.  
 Crane, Mrs. Clinton H.  
 Crane, Mrs. W. Murray  
 Crane, Mrs. Winthrop M., Jr.  
 Crawford, A. R.  
 Crawford, Douglas J.  
 Crawford, Mary M., M.D.  
 Creedon, Miss Gaile C.  
 Crile, George W., M.D.  
 Crimmins, Miss Mary C.  
 Crimmins, Mrs. Thomas

- Crocker, W. T.  
 Crocker, William H.  
 Crockett, Mrs. Stuart  
 Cromwell, James H. R.  
 Cromwell, Lincoln  
 Cross, Miss Emily  
 Cross, George D.  
 Cross, Miss M. R.  
 Cross, W. R.  
 Crow, Chas. S.  
 Crozier, Maj.-Gen. William  
 Crump, Dr. Armistead C.  
 Cullinan, Craig F.  
 Cullman, Mrs. H. S.  
 Cullman, Jos. F.  
 Cullman, Mrs. Joseph F., Jr.  
 Cummins, G. Wyckoff  
 Cunningham, Francis de L.  
 Cunningham, Mrs. Frederic,  
 Jr.  
 Cunningham, W. de L.  
 Cuppia, J. C.  
 Curie, Chas.  
 Curiel, H.  
 Curran, Guernsey  
 Curtis, Mrs. James Brecken-  
 ridge  
 Curtis, Mrs. James F.  
 Curtis, Ronald Eliot  
 Curtiss, Franklin  
 Cushing, Grafton D.  
 Cushing, Mrs. H. A.  
 Cushman, Burritt A.  
 Cushman, James Stewart  
 Cushman, Merton L.  
 Cutcheon, F. W. M.  
 Cuthell, Chester W.  
 Cutler, Earle  
 Cutler, Mrs. Geo. C.  
 Cutler, J. Warren  
 Cutting, Mrs. Fulton  
 Cypra, Anton  
  
 Daily, George M.  
 Dakin, Mrs. Henry D.  
 Dale, Chester  
 Dale, Mrs. Eben  
 Dall, C. W.  
  
 Dall, Mrs. Curtis B.  
 Dallett, Frederic A.  
 Damrosch, Frank  
 Dana, Denison D.  
 Dana, Edward S.  
 Daniel, Annie S., M.D.  
 Danziger, Virginia  
 Darlington, Mrs. Gilbert  
 Darlington, Rev. Henry, D. D.  
 Dashew, Jacob  
 Daum, Warren  
 Davenport, Chas. B.  
 Davenport, Miss Fanny  
 Davenport, Frederick  
 Morgan, Jr.  
 Davenport, Mrs. Ira  
 Davey, Mrs. Jas. A. & G.  
 Davidson, DeWitt A.  
 Davidson, Mary E. S.  
 Davie, Mrs. Bedford  
 Davie, Preston  
 Davies, J. Clarence  
 Davis, Mrs. Aaron  
 Davis, Emanuel S.  
 Davis, Horace A.  
 Davis, Mrs. J. Edward  
 Davis, John W.  
 Davis, Morgan  
 Davis, Nelson C.  
 Davis, Mrs. Robert C.  
 Davis, Samuel D.  
 Davis, Warren J.  
 Davison, Miss Alice M.  
 Davison, Miss E. H.  
 Davison, George W.  
 Davison, Mrs. Louis V.  
 Dawson, William E.  
 Day, Joseph P.  
 Day, Miss Sarah J.  
 Dazian, Henry  
 Dean, Mrs. E. Clarence  
 Dean, Gerald J.  
 Dean, Miss Harriet M.  
 Deane, H. Towner  
 Dearborn, D. B., Jr.  
 Debevoise, Thomas M.  
 de Brabant, Mrs. Marius  
 De Buys, A.  
  
 Decker, Mrs. Ella Smith  
 Decker, Evelyn F.  
 Decker, Mrs. H. E.  
 deCoppet, Miss Juliette  
 de Forest, Johnston  
 de Forest, Lockwood  
 de Forest, Mrs. Robert W.  
 de Ganahl, Frank  
 Degener, John F., Jr.  
 Degener, Paul A.  
 de Gersdorff, Mrs. Carl A.  
 de Ghika, George  
 De Golyer, E.  
 Deitsch, Alan B.  
 Deknatel, F. H.  
 deKosenko, Stepan  
 deKrafft, Wm.  
 Delacorte, Geo. T., Jr.  
 Delafield, Mrs. John R.  
 Delafield, Lewis L., Jr.  
 Delafield, Robert H.  
 Delamar, Alice A.  
 Delano, Lyman  
 De Lanoy, William C.  
 Delavan, D. Bryson, M.D.  
 Delehanty, M. J.  
 Demarest, Peter E., Ph.D.  
 Deming, Mrs. Horace E.  
 Deming, L. C.  
 Demonet, Eugene A., Jr.  
 Demorest, Mrs. William J.  
 Demuth, Leopold  
 Denby, Edwin H.  
 Denison, Mrs. Charles Halbert  
 Denny, Miss Amey D.  
 Denny, Mrs. Lucy W.  
 Denton, Dr. Myron P.  
 Denzer, Dr. Bernard S.  
 de Perigny, Comtesse  
 Depland, Paul L.  
 Derfelden, Margharita  
 de Ruyter, John E.  
 Desimone, Anthony  
 Desmond, Thomas C.  
 De Sola, Solomon, D.D.S.  
 Detjen, Wm. Edward  
 Detmer, Julian F.  
 Deutsch, Lee



- Dewey, Frederick A.  
 Dewey, Dr. Martin  
 DeWitt, Benjamin P.  
 DeWolf, W. Ashley  
 Dexter, Mrs. Stanley W.  
 Dick, Adolph M.  
 Dick, Fairman R.  
 Dick, Madeleine T.  
 Dick, William K.  
 Dickerman, Minerva  
 Dickerman, Mrs. Wm. C.  
 Dickey, Mrs. Charles D.  
 Dickey, Charles D., Jr.  
 Dickey, Lawrence W.  
 Dickins, A. C.  
 Diefenthaler, Charles E.  
 Dieffenbach,  
     William H., M.D.  
 Dike, Mrs. Norman S.  
 Diller, Angela  
 Dillingham, F. A.  
 Dillon, Charles J., M.D.  
 Dillon, Herbert Lowell  
 Dimock, E. J.  
 Dinkelspiel, Judith C.  
 Dinsmore, Madeleine I.  
 Dittler, Mrs. Herbert  
 Dittrich, Hermann  
 Dix, Mrs. Alfred P.  
 Dix, John A.  
 Dixon, Miss Augusta P.  
 Dixon, William L.  
 Dize, Miss Eleanor E.  
 Doane, S. E.  
 Dodge, Bayard  
 Dodge, C. Gerard  
 Dodge, Miss Marian P.  
 Dodge, Murray W.  
 Dodge, Mrs. Murray W.  
 Doelger, Charles P.  
 Doernberg, Mrs. Dudley D.  
 Doherty, Thomas J.  
 Dohme, John L.  
 Dolbey, Miss Sarah E.  
 Dole, Nathan Haskell  
 Domer, Wilson D. I.  
 Dominick, Bayard  
 Dominick, Gayer G.  
 Dominick, Mrs. George F., Jr.  
 Dominick, Wm. F.  
 Dominick, Mrs. Wm. F.  
 Donaldson, Francis  
 Donaldson, Fred'k E.  
 Donaldson, Mrs. John W.  
 Donchian, Peter  
 Donoho, Mrs. Ruger  
 Donohugh, Mrs. Agnes C. L.  
 Dooley, Channing Rice  
 Doran, Charles S.  
 Dorffman, Norman I.  
 Dorr, Goldthwaite Higginson  
 Dorr, John V. N.  
 Dorrance, Rev. Samuel M.  
 dos Passos, Cyril F.  
 Doubleday, F. N.  
 Doubleday, Nelson  
 Douglas, Mrs. Percy L.  
 Douglas, Rev. Winfred  
 Douglas, Wm. Harris  
 Douglass, Mrs. Chas.  
 Douglass, Mrs. G. A.  
 Dow, Dr. Stanley M.  
 Dowd, Wyllys E., Jr.  
 Downey, John I.  
 Dows, David  
 Doying, Arthur Simeon  
 Drake, Miss Mary E.  
 Draper, Charles D.  
 Draper, George  
 Draper, Ruth  
 Draper, Mrs. William K.  
 Draper, Mrs. Wm. P.  
 Drayton, Emlen M.  
 Drayton, Mrs. Emlen M.  
 Drayton, J. Coleman  
 Dreier, H. Edward  
 Dressler, Mrs. Oscar  
 Drew, Mrs. Charles V.  
 Dribben, S. F.  
 Dring, Chas. P.  
 Dryfoos, Mrs. Jack A.  
 DuBois, Arthur  
 Du Bois, Miss Cora A.  
 Du Bois, Eugene  
 DuBois, Miss Margaret  
 Du Bois, Mrs. Matthew B.  
 DuBosque, F. L.  
 Dudley, Ralph  
 Duff, John, M.D.  
 Duffus, Mrs. R. L.  
 Duffy, Rev. Francis P., D.D.  
 Duffy, John J.  
 Duis, Bernhard A.  
 Dumbell, Henry T.  
 Duncan, Frederick S.  
 Duncan, Stuart  
 Duncan, Wm. A.  
 Dunham, Mrs. Carroll  
 Dunham, Mrs. Edward K.  
 Dunham, Sturges S.  
 Dunlap, Mrs. Charles J.  
 Dunn, Henry E.  
 Dunn, Thomas E.  
 Dunning, Henry S., M.D.  
 Dunning, Dr. William B.  
 Dupee, Charles  
 du Pont, Henry F.  
 Durant, Donald  
 Durant, John  
 Durant, Mrs. Margery  
 Durant, Mrs. Thomas W.  
 Durlach, Theresa Mayer  
 Durrell, Joseph H.  
 Durstine, Mrs. Roy S.  
 Dutcher, Malcolm B.  
 Du Val, Guy  
 Dwight, Col. A. S.  
 Dwight, Dr. Kirby  
 Dwight, P. D.  
 Dwight, Mrs. Winthrop  
 Dwight, Winthrop E.  
 Dworsky, Mrs. Clementina  
 Dyer, George J.  
 Dyer, Horace T.  
 Dyer, Miss Lyman Tiffany  
 Dyer, Miss Mary Elizabeth  
 Eadie, James P.  
 Eager, Ernest W.  
 Earle, Ellis P.  
 Early, Joseph N.  
 Easton, Charles D.  
 Easton, E. R., Jr.  
 Eaton, Cyrus S.

- Eaton, Mrs. Frederick H.  
 Eaton, Henry W.  
 Ebeling, Albert H., M.D.  
 Eberstadt, Ferdinand  
 Eckart, Edmund  
 Ecker, F. H.  
 Eckstein, Alfred  
 Eddy, Geo. Simpson  
 Eddy, Joseph D.  
 Eddy, Wm. H.  
 Eden, John H., Jr.  
 Edens, John H.  
 Eder, P. J.  
 Edey, Mrs. Frederick  
 Edgar, Herman L. R.  
 Edgar, Mrs. James A.  
 Edge, Mrs. C. N.  
 Edgell, George Harold  
 Edie, Richard, Jr.  
 Edmonds, Mrs. Walter D.  
 Edson, Mrs. Franklin  
 Egel, Josephine M.  
 Eggers, Otto R.  
 Ehrenclou, Alfred H.  
 Ehret, Mrs. Louis J.  
 Ehrich, Mrs. Adelaide Price  
 Ehrich, Mrs. Jules S.  
 Ehrmann, Mrs. E.  
 Eickhoff, Henry  
 Eilers, Karl  
 Eilshemius, Henry G.  
 Eilshemius, Louis M.  
 Eimer, August  
 Einson, Morris M.  
 Einstein, I. D.  
 Eising, Dr. Eugene H.  
 Eisman, Max  
 Eisner, William J.  
 Eitelbach, Walter  
 Eldredge, Stuart E.  
 Eldridge, Harry  
 Eliot, Mrs. Ellsworth  
 Elizabeth, Mother Mary  
 Elkan, Benno  
 Elkus, Abram I.  
 Elkus, Mrs. Abram I.  
 Elliman, Douglas L.  
 Elliman, Lawrence Bogert  
 Elliot, Augustus H.  
 Elliot, Mrs. Stewart  
 Elliott, John  
 Ellison, Bennett  
 Ellsworth, D. S.  
 Ellsworth, John S.  
 Elmendorf, Ten Eyck, M.D.  
 Elmer, C. W.  
 Elms, Franklin M.  
 Elsberg, H. A.  
 Elser, Mrs. Maximalian, Jr.  
 Ely, Alfred  
 Ely, Carl B.  
 Ely, Caroline Weir  
 Emanuel, John Henderson  
 Embury, Miss Emma C.  
 Emerick, F. A.  
 Emerson, John Haven  
 Emerson, Miss Julia T.  
 Emmet, C. Temple  
 Emmet, Miss Lydia F.  
 Emmet, Robert Temple  
 Emmons, Miss Elizabeth W.  
 Endicott,  
     William Crowninshield  
 Enelow, H. G.  
 Engel, Irving M.  
 Engelhard, George H.  
 English, Mrs. J. Radford  
 Engs, Samuel F.  
 Epro, Reuben  
 Epstein, Mrs. B.  
 Erb, William M.  
 Erdmann, Albert J.  
 Erdmann, John F., M.D.  
 Erdmann, Martin  
 Erdmann, William  
 Erdwurm, Frank, M.D.  
 Erganian, Dr. John K.  
 Ericson, Charles  
 Erisman, Mrs. Frank H.  
 Eristoff, Miss Irene  
 Erlanger, Milton S.  
 Erlanger, Sidney C.  
 Ernst, Irving L.  
 Erving, William V. R.  
 Eschenbach, Edward R. A.  
 Eskesen, Eckardt V.  
 Ettinger, R. P.  
 Eustis, Mrs. W. C.  
 Evans, Harry F.  
 Evans, Mrs. Henry  
 Evans, Mrs. S. O.  
 Evans, Wm. W.  
 Everit, Mrs. Wm. D.  
 Everitt, John W.  
 Ewell, Robert H.  
 Ewing, George R. M.  
 Ewing, Oscar R.  
 Exton, H. E.  
 Eyer, Mrs. George A.  
 Fabbri, Ernesto G.  
 Fabbri, Mrs. Ernesto G.  
 Fabbri, Mrs. Shepard  
 Fabyan, Mrs. Everett W.  
 Fahnestock, Harris  
 Fahnestock, William  
 Faile, Kenneth C.  
 Failla, G.  
 Fairbank, Wallace  
 Fairchild, Mrs. S. W.  
 Fairfax, Mary Cecilia  
 Falahee, John J.  
 Fales, Frederick S.  
 Falk, Dr. K. George  
 Falk, Myron S.  
 Falrey, Robert E.  
 Farnam, Thomas W.  
 Farnsworth, William  
 Farr, John, Jr.  
 Farrand, Mrs. Max  
 Farrel, Mrs. Franklin  
 Farwell, Earle  
 Faxon, Wm. Bailey  
 Fay, Charles J.  
 Fay, Miss S. B.  
 Federer, Chas. A., Jr.  
 Feingold, M. W.  
 Felbel, Jacob  
 Feldman, Herman  
 Feldscher, John H.  
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 Felsenthal, Ben.  
 Fenton, Marion E.  
 Ferguson, Alfred L.

- Ferguson, C. V.  
 Ferguson, Miss Eleanor  
 Ferguson, Harrison S.  
 Ferguson, Harry L.  
 Ferguson, Mrs. Roy K.  
 Férier, Albert Jean  
 Ferris, M. Douw, Jr.  
 Ferriss, J. M.  
 Ferry, Mansfield  
 Fetter, Earle  
 Fetzer, Frank  
 Fiedler, Geo. A., M.D.  
 Field, Mrs. A. B.  
 Field, Charles K.  
 Field, Wm. B. Osgood  
 Field, Mrs. Wm. B. Osgood  
 Figgatt, Mrs. T. C.  
 Filley, F. H.  
 Filley, Oliver D.  
 Finch, Mrs. Gertrude K.  
 Finck, Margaret M.  
 Fineman, Mrs. Agnes  
 Fink, E. C.  
 Finn, Mrs. James Wall  
 Fischer, L. J.  
 Fischer, T. Tasso  
 Fischer, William M.  
 Fish, Erland F.  
 Fisher, Howell  
 Fisher, Joel Ellis  
 Fisher, Maud  
 Fisher, Samuel H.  
 Fisher, Dr. William C.  
 Fitzhugh, John L.  
 Flanagan, Frances  
 Flanigan, Horace  
 Fleischman, Marco  
 Fleischmann, Udo M.  
 Fleitmann, Fred. T.  
 Fleming, Arthur H.  
 Fleming, Dr. H. C.  
 Fleming, Matthew C.  
 Flender, E. W.  
 Fletcher, E. Marguerite  
 Fletcher, Harry G.  
 Fletcher, Henry  
 Fletcher, Mrs. James, Jr.  
 Fletcher, Robert S.  
 Fletcher, Sydney E.  
 Flexner, Bernard  
 Flexner, Mrs. Simon  
 Flower, O. P.  
 Fobes, Mrs. J. Warner  
 Fogg, Edward C.  
 Fogg, Julius H. B.  
 Foley, H. S.  
 Foot, Sandford D.  
 Forbes, Miss Adéle  
 Ford, Mrs. Edward  
 Forman, Mrs. Kendall  
 Forsberg, Helen  
 Forsch, Mrs. F.  
 Fortington, Mrs. H. A.  
 Fosdick, Raymond B.  
 Foshay, P. Maxwell  
 Foster, Frank B.  
 Foster, H. V.  
 Foster, Howard Crosby  
 Foster, J. Hegeman  
 Foster, J. Taylor  
 Foster, John H.  
 Foster, Miss Julia R.  
 Foster, Macomb G.  
 Foster, Pell W.  
 Foster, W. Edward  
 Fowler, Carl H.  
 Fowler, Emily A.  
 Fowler, Northrup  
 Fowler, Dr. Robert H.  
 Fowler, Russell S., M.D.  
 Fowler, Mrs. Thomas Powell  
 Fox, Miss Alice Bleecker  
 Fox, Frederick P.  
 Fox, Mrs. Horace E.  
 Fox, Mrs. Irving J.  
 Fox, Jennie E.  
 Fox, Lyttleton  
 Fox, Mortimer J.  
 Fox, William  
 Francis, Arthur W.  
 Francis, Robert T.  
 Franck, Ernst T.  
 Francklyn, Mrs. Cyril  
 Frank, Edgar E.  
 Frank, Mrs. Harold  
 Frank, Miss Helen  
 Frank, Isaiah, M.D.  
 Frank, Jerome W.  
 Frank, Joseph S.  
 Frank, K. C.  
 Frank, Mrs. Leo E.  
 Frank, Walter  
 Franke, Julius  
 Franken,  
     Sigmund W.A., D.D.S.  
 Frankenberg, Henry E.  
 Frankenberg, Werner V.  
 Frankenstein, Edwin  
 Frankfort, Maurice  
 Franklin, George S.  
 Franklin, Lindley Murray  
 Franklin, P. A. S.  
 Franklin, Walter S., Jr.  
 Frantz,  
     Angus Macdonald, M.D.  
 Fraser, Mrs. A. V.  
 Fraser, Alex. V.  
 Fraser, George C., Jr.  
 Fraser, John  
 Fraser, Miss J. K.  
 Fraser, Sarah  
 Frederick, Karl T.  
 Freebird, Peter  
 Freedley, Vinton  
 Freeland, Frank, M.D.  
 Freeman, Mrs. Blanche W.  
 Freeman, Edward W.  
 Freeman, Halstead G.  
 Freeman, Herbert C.  
 Freemyer, Oscar A.  
 Frelinghuysen, G. G.  
 Frelinghuysen, P. H. B.  
 French, Amos Tusk  
 French, Mrs. Daniel C.  
 French, Fred F.  
 French, Leigh, Jr.  
 French, W. H.  
 Frenkel, Leo S.  
 Freudenvoll, Miss Mabel  
 Frew, Walter E.  
 Frew, Mrs. William N.  
 Fréy, Arthur G.  
 Friedenber, Chas.  
 Friedlander, Louis

- Friedlander, Victor  
 Friedman, Elisha M.  
 Friedman, H. G.  
 Friedman, Stanleigh P.  
 Friedrichs, Rose  
 Friend, Mrs. S.  
 Fires, Miss Emilie  
 Fries, Harold H.  
 Frink, Mrs. Angelika W.  
 Frissell, A. S.  
 Frissell, Miss Leila S.  
 Frissell, Mrs. Lewis F.  
 Fritschy, Minnie B. Phelps  
 Frobisher, Clinton L.  
 Froelicher, Otto  
 Frost, Mrs. Frank J.  
 Frothingham, Major John W.  
 Frothingham, Mrs. Randolph  
 Frothingham, Robert  
 Frothingham, William I.  
 Frueh, Mrs. Alfred J.  
 Frye, Arnold  
 Fuerst, W. F.  
 Fuessle, Kenneth  
 Fuldner, Mansfield Charles  
 Fulle, Chas. A.  
 Fullé, Richard Milton  
 Fuller, Mrs. Charles F.  
 Fuller, Earl Wm., M.D.  
 Fuller, Mrs. Eugene  
 Fuller, George A.  
 Fulton, Elizabeth  
 Fulton, Robert Edison  
 Furman, Robert T.  
 Gabriel, Arthur R.  
 Gadebusch, Paul H.  
 Gaillard, Mrs. Wm. D.  
 Gaither, Emily F.  
 Galban, Eugenio  
 Gale, Mrs. Thomas K.  
 Gallatin, Albert  
 Gallatin, Mrs. Albert  
 Gallatin, Miss Beatrice  
 Gallatin, Goelet  
 Gallowhur, W. G.  
 Gamble, Mrs. C. B.  
 Gambrill, Mrs. Richard  
 Gammell, R. H. Ives  
 Gans, Howard S.  
 Gardiner, Miss Ann Henshaw  
 Gardiner, Arthur Z.  
 Gardiner, Miss Sarah D.  
 Garfield, Gustave B.  
 Garlin, Louis F.  
 Garnjost, F. W.  
 Garrard, Miss Margaret H.  
 Garrett, Miss Laura B.  
 Garrett, Mrs. Thos., Jr.  
 Garrison, Mrs. E. E.  
 Gartland, George E.  
 Garvan, Mrs. F. P.  
 Garver, John A.  
 Gary, Mrs. Elbert H.  
 Gary, I. C.  
 Gaston, Wm. G.  
 Gatti-Casazza, Giulio  
 Gaul, Dr. Wm. H.  
 Gavit, John Palmer  
 Gawtry, Lewis B.  
 Gay, William O.  
 Gazan, Simone N.  
 Geenens, Leo  
 Geer, Mrs. Langdon  
 Geier, Mrs. Frederick A.  
 Geiger, J., M.D.  
 Geissler, Mrs. A. R.  
 Geissler, Walter C.  
 Gemmell, John, Jr.  
 Gerdau, Carl  
 Gere, Helen B.  
 Gerrish, Frank Scott  
 Gerster, John C. A.  
 Gibb, Mrs. H. E.  
 Gibb, Dr. W. Travis  
 Gibbons, Mrs. Geo. B.  
 Gibbons, Mrs. John H.  
 Gibbs, George  
 Gibson, Miss Florence Wier  
 Gibson, Mrs. Harvey Dow  
 Gibson, Jesse R.  
 Giesen, Oswald  
 Gifford, Walter S.  
 Gilbert, John  
 Gilbert, Mrs. M. B.  
 Gilbert, Mrs. Riley Miles  
 Gilchrist, George R. E.  
 Gill, Kermode F.  
 Gillette, Curtenius  
 Gilman, Samuel P.  
 Gilsey, Margaret  
 Gimbel, Mrs. Bernard F.  
 Gintzler, Morris  
 Gitterman, Joseph L.  
 Given, Wm. B., Jr.  
 Glave, Mrs. G. Y.  
 Glazier, Henry S.  
 Glenn, John M.  
 Glines, E. Stanley  
 Glyn, W. E.  
 Goddard, Conrad G.  
 Goddard, Frederic W.  
 Goddard, Mrs. Morrill  
 Goddard, Ralph  
 Goddard, Mrs. Thomas J.  
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 Godwin, Miss Frances B.  
 Goetchius, Mrs. J. M.  
 Goff, C. W., M.D.  
 Goggin, James C.  
 Goldan, S. Ormond, M.D.  
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 Goldman, Julius  
 Goldman, Lewis K.  
 Goldmann, Nathan  
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     Miss C. Elizabeth  
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 Goldsmith, James A.  
 Goldsmith, Kate A.  
 Goldsmith, Mrs. Maurice  
 Goldstone, Lafayette A.  
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 Goldwater, Henry  
 Gonzales, Thomas A., M.D.  
 Good, Dr. Robert  
 Goodfriend, Henry B.  
 Goodfriend, Simon  
 Goodhue, Mrs. Charles E.

- Goodman, Henry  
 Goodman, Maurice  
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 Goodnow, David F.  
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 Gordon, Walter R.  
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 Gottheil, Mrs. Paul  
 Gotthold, Arthur F.  
 Gottlieb, Mrs. George  
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 Gould, Harry  
 Gould, Lyttleton B. P.  
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 Graff, Abner  
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 Graham, James Varnum  
 Graham, Dr. John C.  
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 Grant, De Forest  
 Grant, E. R.  
 Grant, R. M.  
 Grant, William T.  
 Gratz, Anderson  
 Gratz, Frank W.  
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 Gray, Albert Z.  
 Gray, Henry G.  
 Gray, Miss Ida M.  
 Gray, Prentiss N.  
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 Green, Mrs. A. L.  
 Greenbaum, Mrs. Geo. E.  
 Greenbaum, Lawrence S.  
 Greenbaum, Lee A., Jr.  
 Greene, Carleton  
 Greene, Jerome D.  
 Greenebaum, Fred H.  
 Greenfield, Arthur D.  
 Greenhall, Arthur  
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 Greening, Alfred C.  
 Greenlaw, R. W.  
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 Greenough, William Bates  
 Greenwald, Isidor  
 Greenwood, Mary M.  
 Greer, Louis M.  
 Gregg, Will R.  
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 Gregory, Dr. Alice  
 Greist, Mrs. Alva O.  
 Grew, Edward W.  
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 Griffin, John W.  
 Griffin, W. V.  
 Griffiths, Albert F., M.D.  
 Grigg, Harry K.  
 Grinnell, E. Morgan  
 Grinnell, Dr. Robt. S.  
 Griscom, Lloyd C.  
 Griswold, Wm. E. S.  
 Gross, Moritz  
 Grossmann, Mrs. Edward A.  
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 Grueby, Mrs. W. H.  
 Grundner, Mrs. M.  
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 Grymes, Arthur J.  
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 Guedalia, Jules A.  
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 Guenzel, Dr. M. R.  
 Guertler, Rudolph  
 Guggenheim, B.  
 Guggenheim, Simon  
 Guggenheim, Mrs. Simon  
 Guggenheim, William  
 Guggenheimer, Jay C.  
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 Gushee, R. A.  
 Guthrie, Mrs. Charles Strong  
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     Rev. William Norman  
 Gutierrez, Valeriano  
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 Gutman, J. W.  
 Gwinn, Ralph W.  
 Gwynne, Arthur C.  
 Gygi, Marie E.  
 Haas, Miss Edith  
 Haas, George C.  
 Haas, Sidney V., M.D.  
 Haboush, Stephen A.  
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 Hadley, D. F.  
 Hadley, Mrs. Earl J.  
 Hadley, Miss Edith M.  
 Hadley, Morris  
 Hage, John D.  
 Haggerty, H.  
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 Haines, Charles D.  
 Haines, Mrs. F. M.  
 Haldt, Harry Peale  
 Hale, Dr. Henry E.  
 Hall, Esther Wadsworth  
 Hall, George Gilman  
 Hall, Geraldine C.  
 Hall, Henry B.  
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 Halsey, Florence  
 Halsey, Francis R.

- Halsey, Frederic M.  
 Halsey, Frederick A.  
 Halsey, Robert H.  
 Halsted, E. Bayard  
 Hamann, Wm. A.  
 Hamerschlag, Howard J.  
 Hamersley, Louis Gordon  
 Hamilton, Alexander  
 Hamilton, Edward P.  
 Hamilton, Miss E. S.  
 Hamilton, Mrs. George  
 Hamilton, John B.  
 Hamilton, Mrs. Morgan  
 Hamilton, Wallace, Jr.  
 Hamlin, Mrs. Harry L.  
 Hammar, F. V.  
 Hammesfahr, W. S.  
 Hammond, Mrs. John Henry  
 Hanaauer, Jerome J.  
 Hance, John A.  
 Hancock, Charles Lea  
 Hancock, F. Woodson, 3d  
 Hand, C. H., Jr.  
 Handy, H. H. S.  
 Handy, John L.  
 Hansen, Ferdinand  
 Harbison, Wm. Albert  
 Hard, DeCourcy L.  
 Hardart, Miss May  
 Hardenbergh, Mrs. L. R.  
 Hardenbergh, Thomas E.  
 Hardenbergh, Mrs. W. P.  
 Hardin, William B.  
 Hardinge, Mrs. H.  
 Hardon, Mrs. Henry W.  
 Hardy, Charles J.  
 Hardy, Rev. Edward Rochie,  
 Jr.  
 Hare, Mrs. Montgomery  
 Hare, William  
 Hargreaves, Ann  
 Harley, Milton Price  
 Harlow, Arthur H.  
 Harmon, Mrs. Benedict  
 Harper, Miss Lillie H.  
 Harrah, Ernest  
 Harrington, Earl W.  
 Harrington, James T.  
 Harris, Albert H.  
 Harris, Chas. C.  
 Harris, Charles F.  
 Harris, Frances H.  
 Harris,  
     Rear Admiral Frederic R.  
 Harris, Ida M.  
 Harris, Irving  
 Harris,  
     Mrs. Peyton Randolph  
 Harris, Mrs. Victor  
 Harris, Winifred S.  
 Harrison, Bernard J.  
 Harrison, John Randolph  
 Harrison, Philip  
 Harrower, Pascal R.  
 Hart, Alfred S.  
 Hart, Donald G. M.  
 Hart, Henry  
 Hart, Howard S.  
 Hart, Mrs. John I.  
 Hart, Lauribel  
 Hart, Wm. Howard  
 Harter, Isaac  
 Hartman, Joel S.  
 Hartmann, Waldemar  
 Hartogensis, Alwyn M.  
 Hartshorn, Dr. W. Morgan  
 Hartshorne, James M.  
 Hartshorne,  
     Mrs. James Mott  
 Harvey, Mrs. Elbert A.  
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 Hascall, Allis F., M.D.  
 Haskell, Amory L.  
 Hastings, Mrs. T. Mitchell  
 Hatch, Mrs. Harold Ames  
 Hauselt, Miss Emma L.  
 Hauser, Samuel M.  
 Havemeyer, Frederick C., 2d  
 Havemeyer, Henry O., Jr.  
 Havemeyer, John F.  
 Havemeyer, T. A.  
 Haven, J. Woodward  
 Hawkes, Forbes, M.D.  
 Hawkins, Mrs. Eugene D.  
 Hawley, Alan R.  
 Hawley, Samuel B.  
 Hay, Randall G.  
 Hayden, Warren S.  
 Haydon, Stansbury  
 Hayes, Alfred  
 Hayes, Henry R.  
 Hayes, Mrs. Max E.  
 Hayes, Dr. Wm. Van Valzah  
 Hayes, Mrs. Wm. Van Valzah  
 Hays, B. Frank  
 Hays, David S.  
 Hayward, Frederick A.  
 Hayward, J. B.  
 Hazard, Frederick Rowland  
 Hazard, Mrs. R. G.  
 Hazard, Rowland  
 Hazard, T. Pierrepoint  
 Hazen, Allen  
 Hazen, George H.  
 Heald, Glen D.  
 Hecht, Charles  
 Heck, Dr. Edson R.  
 Hegeman, Albert Clarence  
 Heide, Henry, Jr.  
 Heide, Herman L.  
 Heide, Julius A.  
 Heil, Joseph H.  
 Heilbronner, Mrs. L.  
 Heiman, Dr. Jacob  
 Heiman, Dr. Max  
 Heineman, Bernard  
 Heinz, Howard  
 Heller, Herbert C.  
 Heller, Samuel  
 Hellman, Edgar A.  
 Hellman, Milo, D.D.S.  
 Hellstrom, Rev. Ivar  
 Helme, Mrs. Geo. A.  
 Helprin, Theodore D.  
 Hemenway, Thomas  
 Heming, Mrs. Charles E.  
 Henderson, A. I.  
 Henderson,  
     Mrs. Alexander Iselin  
 Henderson, Mrs. E. C.  
 Hendrick, Josephine Pomeroy  
 Hendricks, Henry S.  
 Hengerer, Mrs. Charles A.  
 Henney, Keith

- Henry, F. A.  
 Henry, Miss H. Maud  
 Henry, Miss Margaret  
 Henshaw, Franklin  
 Herman, George  
 Herman, Dr. Harold  
 Herman, I. C.  
 Hermes, Frank J.  
 Hernstadt, William L.  
 Heron, William A.  
 Herr, Edwin M.  
 Herreshoff, Francis Lee  
 Herrick, Harold  
 Herrick, Newbold L.  
 Herrick, Mrs. W. W.  
 Herrick, Dr. William W.  
 Herschman, Mrs. Walter R.  
 Hershey, Andrew H.  
 Herty, Chas. H.  
 Herzog, Leo S.  
 Herzog, Miss Nina D.  
 Herzog, Samuel A.  
 Hess, Dr. Alfred F.  
 Hess, Arthur M.  
 Hess, Stephen G.  
 Hess, Victor R.  
 Hessberg, Lena  
 Hessel, Sidney P.  
 Hession, John W.  
 Hetrick, Llewellyn E., M.D.  
 Hetteix, Jacques  
 Hetzler, Theo.  
 Hewitt, Miss Caroline D.  
 Hewitt, Mrs. E. R.  
 Hewitt, Mrs. Henry M.  
 Hewitt, John Vance  
 Hewitt, Mrs. Lucy W.  
 Hewlett, Mrs. A. W.  
 Hewlett, Louis  
 Hewlett, Walter Jones  
 Heydt, Charles E.  
 Heydt, Herman A.  
 Heye, Carl T.  
 Heyman, David M.  
 Heymann, Albert  
 Heymann, Benjamin  
 Heymann, Everett B.  
 Heymann, Seymour E.
- Hibbs, Mrs. Russell A.  
 Hickox, Charles R.  
 Hicks, John M. W.  
 Hiddinga, Francois W.  
 Higgins, Daniel P.  
 Higgins, R. H.  
 Hilder, Moritz  
 Hill, Miss Gertrude  
 Hill, Robert Carmer  
 Hillegas, Milo B.  
 Hilles, Mrs. Charles D.  
 Hillhouse, C. B.  
 Hills, Mrs. James M.  
 Hilyard, George D.  
 Himmelsbach, Charles E.  
 Hinchman, Ralph P.  
 Hindley, Chas. T.  
 Hine, Thomas A.  
 Hines, Walker D.  
 Hird, Miss Mary E.  
 Hirsch, Angelo  
 Hirsch, Chas. S.  
 Hirsch, Mrs. Walter A.  
 Hirschhorn, Fred  
 Hirschland, F. H.  
 Hirsh, Harold M.  
 Hirshfeld, Irving B.  
 Hirshon, Mrs. Charles  
 Hjort, A.  
 Hoch, Herman  
 Hochschild, Harold K.  
 Hodenpyl, Annie P.  
 Hodgdon, Frederick C.  
 Hodges, Miss Eleanor  
 Hodges, Geo. W.  
 Hoe, Mrs. Robert  
 Hoe, Mrs. Robert, Jr.  
 Hoeber, Paul B.  
 Hoff, Frederick  
 Hoff, Mrs. Samuel  
 Hoffman, F. Burrall, Jr.  
 Hoffman, Harry L.  
 Hoffman, Robert D.  
 Hoffman, W. W.  
 Hoffmann, Richard H., M.D.  
 Hofheimer, Lester  
 Hogan, Mrs. Jefferson  
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- Hoguet, Mrs. Ramsay  
 Holden, Mrs. Edwin B.  
 Holden, Mrs. L. Dean  
 Holden, Milton  
 Holden, Richard C.  
 Holgate, Clement  
 Hollaman, Mrs. R. W.  
 Holland, Nelson C.  
 Hollerith, Geo. C.  
 Hollinshead, K. J.  
 Hollos, Edmund  
 Holm, Marjorie L.  
 Holmes, Burton  
 Holmes, Mrs. F. S.  
 Holmes, Frederick T.  
 Holmes, Jesse H.  
 Holstein, M. G.  
 Holt, Mrs. Calvert  
 Holt, Mrs. Henry  
 Holt, R. S.  
 Holter, Mrs. E. O.  
 Holton, Charles W.  
 Holz, Julius  
 Holzmaister, L. V.  
 Holzman, A.  
 Holzman, Elkan  
 Homan, B. H.  
 Homan, Mrs. B. H.  
 Homes, Mrs. Henry  
 Hooke, Robert G.  
 Hooker, Mrs. Elon H.  
 Hooker, Mrs. Ransom S.  
 Hoopes, Maurice  
 Hope, Norman S.  
 Hope, Walter E.  
 Hopkins, A. A.  
 Hopkins, Miss Augusta D.  
 Hopkins, John J.  
 Hopkins, Ernest  
 Hopkinson, John N.  
 Hoppin, G. Beekman  
 Hoppin, Mrs. W. W., Jr.  
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 Horne, Sir W. E., Bart.  
 Hornor, J. W.  
 Horowitz, Dr. Philip  
 Horr, L. Wm.  
 Horsman, Mrs. Ethel H.

- Hoskier, H. C.  
 Hotchkiss, Miss Esther S.  
 Hotchner, Bernard  
 Houghton, Seymour Phillips  
 House, Edward M.  
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 House, Victor  
 Hovet, Henry A.  
 Howard, John K.  
 Howe, George  
 Howells, Mrs. John  
 Howes, Mrs. Reuben  
 Howland, Silas W.  
 Howson, Mrs. Roger S.  
 Hoyt, Miss Anne Sherman  
 Hoyt, Mrs. Anson P. S.  
 Hoyt, C. Sherman  
 Hoyt, Geo. H.  
 Hoyt, Henry R.  
 Hoyt, Mrs. John Sherman  
 Hoyt, Mrs. K. Stone  
 Hoyt, Sherman Reese  
 Hoyt, Miss Virginia Scott  
 Hubbard, Mrs. Charles W.  
 Hubbard, Mrs. G. M.  
 Huber, Mrs. J. M.  
 Huber, Kathryn Louise  
 Huberth, Harry G.  
 Huddleston, Carrol H.  
 Hudson, Marjorie V. L.  
 Hudson, Paul H.  
 Hudson, Miss Sara K.  
 Huey, Howard  
 Huffman, Dr. Otto V.  
 Huger, Daniel E.  
 Hughes, Charles E., Jr.  
 Hughes, John C.  
 Hughes, Mrs. John Chambers  
 Hugo, Victor  
 Hulswit, Frank T.  
 Humphrey, Martha K.  
 Humphreys, Frederic E.  
 Humphrys, Mrs. Julian  
 Hunt, Henry T.  
 Hunt, Seth B.  
 Hunt, Mrs. Thomas  
 Hunt, William F.  
 Hunter, Jeremiah  
 Hunter, Malcolm Du Bois  
 Huntington, Mrs. Francis C.  
 Huntington, Henry Strong  
 Huntington, Mrs. R. P.  
 Huntington, Robert P.  
 Hüpfel, Adolph G.  
 Hüpfel, Chris. G.  
 Hüpfel, J. Chr. G.  
 Hurd, Edward A.  
 Hurd, Dr. Lee M.  
 Hurd, R. M.  
 Hurlbut, Miss Margaret C.  
 Hurst, Mrs. Albert Edward  
 Hurt, Mrs. R. Wray  
 Hutcheson, Ernest  
 Hutcheson, Wm. A.  
 Hutchins, A. S.  
 Hutchins, Harley D.  
 Hutchins, R. G.  
 Hutchison, Charles F.  
 Humphrey, Watts S.  
 Hutton, Mancius S.  
 Hutzler, George H.  
 Huyler, C. D.  
 Huyler, David  
 Hyacintha, Sister M.  
 Hyatt, A. M.  
 Hyde, A. Fillmore  
 Hyde, E. Francis  
 Hyde, Mrs. Francis de Lacy  
 Hyde, Mrs. Frederick E.  
 Hyde, Miss Hazel  
 Hyde, Henry St. John  
 Hyde, Seymour Worrall  
 Hyman, Abraham, M.D.  
 Hyman, Edwin C.  
 Hyman,  
     Harold Thomas, M.D.  
 Hynard, William C.  
 Ignazowski, Miss Josaphine  
 Ill, Edward J.  
 Imboden, Harry M.  
 Ingalls, Fay  
 Ingalls, Mrs. George H.  
 Ingalls, Roscoe C.  
 Ingersoll, Mrs. Marion Crary  
 Ingraham, Geo. L.  
 Ingraham, Mrs. Phoenix  
 Ingram, Ernest S.  
 Innes, O. G.  
 Inslee, Edwin W.  
 Irving, Mrs. Emmet W.  
 Irving, Mrs. L. du Pont  
 Irwin, William Fletcher  
 Isaacs, Stanley M.  
 Iselin, C. Oliver  
 Iselin, Mrs. C. Oliver  
 Iselin, Miss Georgine  
 Iselin, Wm. E.  
 Iselin, Mrs. William E.  
 Iselin, Wm. O'D.  
 Iseman, Percy R.  
 Isham, Mrs. Wm. B.  
 Ising, Charles Eugene  
 Israel, Milton J.  
 Jaches, Leopold  
 Jackson, Prof. A. V. Williams  
 Jackson, Mrs. C. D.  
 Jackson, Francis DeMilt  
 Jackson, Mrs. Frederic W.  
 Jackson, Frederick W.  
 Jackson, Percy  
 Jackson, Robert F.  
 Jackson, Samuel  
 Jacob, Emanuel  
 Jacobs, Harold H.  
 Jacobsen, Laura  
 Jacobus, John S.  
 Jacoby, Dr. Geo. W.  
 Jacoby, George W.  
 Jaeckel, Albert F.  
 Jaffray, Mrs. Robert  
 Jahn, Alfred P.  
 Jais, Jacob D.  
 James, Mrs. Ellerton  
 James, Ellery S.  
 James, Henry  
 James, Mrs. Henry  
 James, Oliver B.  
 James, Mrs. Walter B.  
 Jameson, Mrs. Edwin C.  
 Jansen, Ed.  
 Janvrin, Edmund R. P., M.D.  
 Jarecho, Dr. Julius



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 Jastram, Edward P.  
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 Jeffcott, R. C.  
 Jefferson, John Percival  
 Jenkins, A. C.  
 Jenkins, Alfred W.  
 Jenks, Randolph  
 Jenks, Mrs. Robert I.  
 Jennings, Miss A. B.  
 Jennings, Louis B.  
 Jennings, Percy H.  
 Jennings, Mrs. Percy Hall  
 Jennings, Mrs. Walter  
 Jephson, George S.  
 Jermain, Miss M. C.  
 Jervey, Huger W.  
 Jessup, Everett Colgate  
 Jewett, Frank B.  
 Jewett, George L.  
 (In Memoriam)  
 Jewett, Rutger Bleecker  
 Jobling, James W., M.D.  
 John, Arthur E.  
 John, Robert  
 Johnson, Mrs. Clara Sturges  
 Johnson, Prof. Douglas W.  
 Johnson, F. Elmer, M.D.  
 Johnson,  
 Mrs. Frederick Morgan  
 Johnson, Frederick R.  
 Johnson, George B.  
 Johnson, Gilbert H.  
 Johnson, H. Herbert  
 Johnson, Julius M.  
 Johnson, Leeds  
 Johnson, Mrs. Oliver T.  
 Johnson, Mrs. S. Pitney  
 Johnson, Ward L.  
 Johnson, Wm. C., M.D.  
 Johnston, Mrs. J. Herbert  
 Johnston, John  
 Johnston, Dr. Marius E.  
 Jonas, Coloman  
 Jonas, John  
 Jonas, Ralph  
 Jones, Mrs. Adam Leroy  
 Jones, Arthur J.  
 Jones, Bassett  
 Jones, Mrs. Cadwalader  
 Jones, Daniel W., Jr.  
 Jones, Mrs. E. Lester  
 Jones, Edwin Artimus  
 Jones, Emily L.  
 Jones, Ernest L.  
 Jones, Francis C.  
 Jones, Frank Morton  
 Jones, H. Kirkland, Jr.  
 Jones, J. Frederick  
 Jones, Marvin F., M.D.  
 Jones, Mrs. Paul T.  
 Jones, Samuel B.  
 Jones, T. Catesby  
 Jones, W. Strother  
 Jones, William B.  
 Joost, Sherman B.  
 Joseph, Brother James  
 Joseph, Mrs. John A., Jr.  
 Joseph, Theodore H.  
 Jowett, Mrs. James H.  
 Judson, Henry I.  
 Judson, William D.  
 Kahn, Arthur J.  
 Kahn, Chas. M.  
 Kahn, Gilbert W.  
 Kahn, L. Miller, M.D.  
 Kahn, Montifore G.  
 Kahn, Otto H.  
 Kahn, Walter N.  
 Kahrs, W. H., M.D.  
 Kalbfleisch, Augusta S.  
 Kallman, Max S.  
 Kalvin, Nathan  
 Kane, Mrs. De Lancey  
 Kane, Miss Sybil Kent  
 Kann, N.  
 Kanowitz, S. B.  
 Kappes, Herman  
 Karagheusian, Arshag  
 Karelsen, Frank E., Jr.  
 Karsch, Bernard  
 Kaskel, Max  
 Kasper, Joseph P.  
 Kassing, Edwin S.  
 Kastor, Adolph  
 Katea, Jerome S.  
 Katzman, J.  
 Kaufman, Abraham  
 Kaufman, Mrs. Benj. H.  
 Kaufman, Julius  
 Kaufmann, Mrs. Charles B.  
 Kaufmann, Donald  
 Kaufmann, Ernst B.  
 Kaufmann, H. M.  
 Kaufmann, Irma H.  
 Kaufmann, Mrs. M. J.  
 Kaufmann, Max  
 Kaufmann, Otto  
 Kaye, Mrs. E. D.  
 Kayser, Henry A.  
 Keagey, Esther  
 Kean, Mrs. Hamilton Fish  
 Kean, John  
 Kean, Mary Alice Barney  
 Kean, Robert Winthrop  
 Kebler, Leonard  
 Keech, Mrs. Frank Browne  
 Keeler, Mrs. Charles Bradley  
 Keen, Mrs. Frank H.  
 Keen, Mrs. Herbert Beers  
 Keeny, Amelia S.  
 Keep, C. H.  
 Kehoe, Robt. P.  
 Keiser, George Camp  
 Keith, Mrs. Minor C.  
 Keller, Morris  
 Kelley, Cornelius F.  
 Kelley, Nicholas  
 Kellogg, Charles W.  
 Kellogg, Mrs. Frederic R.  
 Kellogg, L. D.  
 Kellogg, Mrs. Morris W.  
 Kellogg, R. S.  
 Kellogg, Dr. Wm. A.  
 Kelly, Charles P.  
 Kelly, Howard A., M.D.  
 Kelsey, Fredk. W.  
 Kempf, E. J.  
 Kempner, Elias  
 Kempner, Sigmund Marshall  
 Kendall, W. Floyd  
 Kendrick, Allen B.

- Kennedy, Edward G.  
 Kennedy,  
     Mrs. H. Van Rensselaer  
 Kennedy, James J.  
 Kennelly, Major William  
 Kennerley, Mrs. M.  
 Kennerly, M. M.  
 Kent, Edward G.  
 Kent, Edwin C.  
 Kent, G. H.  
 Kent, Peter Lorillard  
 Kent, Warner W.  
 Keppel, David  
 Keppel, E. P.  
 Kernan, John D.  
 Kerr, Mrs. Allan H.  
 Kerr, E. Coe  
 Kerr, Errol  
 Kerr, John Clapperton  
 Kerrison, Dr. Philip D.  
 Kessel, Leo, M.D.  
 Keuffel, W. G.  
 Kidder, H. Maynard  
 Kilsheimer, James B., Jr.  
 Kimball, J. Ritchie  
 King, Mrs. Arklay  
 King, C. Daly  
 King, Charles S.  
 King, Mrs. Clarence  
 King, Mrs. Edward  
 King, H. Thorn, Jr.  
 King, Herbert T.  
 King, Miss Isabella C.  
 King, James Gore  
 Kingsford, Daniel P.  
 Kingsford,  
     Miss Margaret S.  
 Kingsley, Darwin P., Jr.  
 Kingsley, W. M.  
 Kinloch, Mrs. Alexander D.  
 Kinney, Constance  
 Kinney, Margaret C.  
 Kinney, Morris  
 Kinney, Warren  
 Kip, W. Ruloff  
 Kip, William F.  
 Kirby, Hayward S.  
 Kirby, Sarah L.
- Kirkham, William B.  
 Kiser, John W.  
 Kissel, Mrs. G. E.  
 Kissel, W. Thorn  
 Kissel, Mrs. W. Thorn  
 Kitchel, Allan F.  
 Kitchen, Mrs. V. C.  
 Kittredge, George W.  
 Kittredge, S. Dana  
 Klamann, Philip  
 Klare, H. William  
 Klee, Sigmund  
 Klein, Adolph  
 Klein, D. Emil  
 Klein, Dr. Eugene  
 Klein, Leo M.  
 Kleinberger, François  
 Klingenstein, Charles  
 Kloh, Alphonse  
 Klopstock, Geo. G.  
 Klugman, Julius  
 Knapp, Joseph P.  
 Knapp, William Jared  
 Knight, Alfred  
 Knight, Harry E.  
 Knight, Mrs. J. P., Jr.  
 Knight, Mrs. Richard  
 Knobloch, Henry F. J.  
 Knobloch, Mrs. Henry F. J.  
 Knoedler, Roland F.  
 Knowles, Howard N.  
 Knowlton, Eben R.  
 Knowlton, Peter  
 Knox, Samuel  
 Koch, Lucile Renée  
 Koch, William T.  
 Koegler, George H.  
 Koehn, Walter H.  
 Kohlberg, Alfred  
 Kohler, Miss M. E.  
 Kohn, Albert M.  
 Kohn, Emil W.  
 Kohn, Sol  
 Kohn, Mrs. Walter T.  
 Kohns, I. D.  
 Kohnstamm, Lothair S.  
 Koles, Henry M., M.D.  
 Kollstede, Charles A.
- Konta, Alexander  
 Koon, R. B.  
 Kopetzky, Samuel J., M.D.  
 Kops, Mrs. Max  
 Korn, Robert  
 Kosmak, Geo. W., M.D.  
 Kovacs, Dr. Richard  
 Kovaleff, Miss Augusta  
 Kovarik, Alois F.  
 Kraft, Frank  
 Krakeur, Arthur F.  
 Krakeur, Jacques  
 Kramer, Leo  
 Kraus, John J.  
 Krause, Holger E.  
 Krech, Mrs. Shepard  
 Kreischer, Miss Louise  
 Kreidler, Mrs. Edith K.  
 Kremer, Mrs. William N.  
 Kress, Claude W.  
 Kress, Mrs. Claude W.  
 Kress, R. H.  
 Kridel, Alexander H.  
 Kridel, Mrs. Samuel  
 Krippendorf, Mrs. Karl  
 Krippner, William  
 Krock, Arthur  
 Kroehle, Fred W.  
 Krolik, Day, Jr.  
 Kronthal, Leon H.  
 Kropff, W. F.  
 Kudlich, H. C.  
 Kudlich, Hans E., M.D.  
 Kufeld, Max  
 Kugelman, Julius G.  
 Kuhn, Arthur K.  
 Kuhn, August  
 Kuhn, Edward  
 Kuhn, Julius  
 Kumpf, George L.  
 Kunhardt, Mrs. Henry R.  
 Kunhardt, Kingsley  
 Kupfer, Miss Grace H.  
 Kurz, George A.  
 Kurzman, Charles C.  
 Kuser, Mrs. Anthony R.  
 Kuser, John Dryden  
 Kuttroff, Adolf

- Labrot, William H.  
 Lackey, James B.  
 Ladd, William Sargent, M.D.  
 La Dow, Stanley V.  
 Laevens, Achilles  
 Lagai, Dr. G.  
 Lagemann, Miss A.  
 Lagemann, Erie  
 Lagowitz, Miss H. L.  
 Laing, Mrs. George  
 Lamar, Mrs. Julian  
 Lamarche, Mrs. Henry J.  
 Lamb, Dr. Albert R.  
 Lamb, Gilbert D.  
 Lambelet, Mrs. H.  
 Lamberson, Mrs. T. M.  
 Lambert, Adrian V. S.  
 Lambert, Alexander  
 Lambert, Samuel W.  
 Lambert, Vitus C.  
 Lambie, W. S.  
 Lamont, Thomas S.  
 Lamphear, Annette E., M.D.  
 Lancashire, Mrs. J. H.  
 Landon, Francis G.  
 Landsman, Samuel M., M.D.  
 Lane, Charles J.  
 Lane, Mrs. Edward V. Z.  
 Lane, Frank L.  
 Lane, Melvin  
 Lane, Wolcott G.  
 Lang, Mrs. Carl  
 Lang, Edmund L.  
 Langben, H. Alfred  
 Lange, Gustav, Jr.  
 Langeloth, Mrs. Jacob  
 Langley, Mrs. William C.  
 Langmann, Mrs. G.  
 Lanier, Charles D.  
 Lanier, Reginald B.  
 Lanigan, William J., Jr.  
 Lanman, J. T., Jr.  
 Lanman, Jonathan T.  
 Lapham, Lewis H.  
 Larkin, Mrs. Adrian H.  
 Larkin, Alice  
 Larkin, Francis Yoakum  
 Larner, Wm. Angamar  
 la Rosa, Carlos, Jr.  
 Latham, Le Roy  
 Lathers, Miss Ida  
 Lathers, Miss Julia  
 Lathrop, Alanson P.  
 Latshaw, Stanley R.  
 Lattimore, Miss F. L.  
 Latting, Miss Helen L.  
 Laucks, S. Forry  
 Lauer, Edgar J.  
 Laurents, Alfred L.  
 Lauten, Henry G. F.  
 Lavelle, M. J.  
 Lawrence, Arthur B.  
 Lawrence, Townsend  
 Layman, Mrs. David T., Jr.  
 Leach, Mrs. Henry G.  
 Leale, Charles A., M.D.  
 Leavitt, Mrs. Charles W.  
 Leavitt, Miss Charlotte  
 Leavitt, Gordon  
 Leaycraft, Edgar C.  
 Ledyard, Mrs. Lewis Cass  
 Lee, Albert M.  
 Lee, Mrs. Arthur  
 Lee, Mrs. Burton J.  
 Lee, Mrs. Burton J., Jr.  
 Lee, Mrs. Cornelius S.  
 Lee, Frederic S.  
 Lee, Dr. Henry T.  
 Lee, Dr. Marguerite T.  
 Lee, R. E.  
 Lee, Ralph Everett  
 Lee, Samuel  
 Leewitz, Adolph  
 Lefferts, Mrs. Barent  
 Legg, Mrs. George  
 Legget, Mrs. D. G.  
 Lehmaier, James M.  
 Lehmaier, Mrs. Louis A.  
 Lehman, Arthur  
 Lehman, Harold M.  
 Lehman, I. Howard  
 Lehman, Irving  
 Lehman, Mrs. Sigmund M.  
 Leichter, Abraham  
 Leigh, Mrs. William R.  
 Leighton, Geo. Eliot  
 Leipziger, Miss Pauline  
 Leitner, Emil  
 Leland, Mrs. Amory  
 Lemaire, Florence O.  
 Lenz, Carl Philip  
 Lenz, Maurice, M.D.  
 Leon, Henry  
 Léon, Maurice  
 Leonard, Clifford M.  
 Leonhardt, F. H.  
 Lerner, Michael  
 Lerner, Samuel A.  
 LeRoy, Mrs. Frederick G.  
 Le Roy, Mrs. K. M.  
 LeRoy, Dr. Louis C.  
 Leserman, Philip, Jr.  
 Lesser, Mrs. S. D.  
 Lester, A. Edward  
 Lester, William C.  
 Levene, Alexander  
 Levenson, Edward, D.D.S.  
 Levy,  
     Miss Margaret Bispham  
 Levi, Mrs. Albert A.  
 Levi, Mrs. Carl  
 Levi, George  
 Levi, Philip J.  
 Levine, Nathan J.  
 Levison, J. J.  
 Levy, B. E.  
 Levy, Edgar A.  
 Levy, Ephraim B.  
 Levy, Jacob  
 Levy, John  
 Levy, Louis S.  
 Levy, Louis Spencer  
 Levy, Max J.  
 Levy, Moe  
 Levy, Royal  
 Lewis, A. Nelson  
 Lewis, Mrs. Arthur M.  
 Lewis, Mrs. August  
 Lewis, Mrs. Bird  
 Lewis, C.  
 Lewis, Edward J.  
 Lewis, Mrs. Eugene  
 Lewis, Fred E.  
 Lewis, Mrs. Frederic Elliott

- Lewis, Liston L.  
 Lewis, Miss Margaret E.  
 Lewis, Mrs. R. J.  
 Lewis, Read  
 Lewis, Mrs. Roger  
 Lewisohn, Miss Irene  
 Lewisohn, Sam A.  
 Lewisohn, Mrs. Samuel A.  
 Lexow, Mrs. Allen  
 Leyden, James A.  
 Lichtenhein, Louis  
 Lichtenstein, Louise Boyd  
 Lieb, Charles C., M.D.  
 Lieber, Dr. Hugo  
 Liebert, Chas. H.  
 Liebmann, Alfred  
 Liebmann, Samuel  
 Lilienthal, Dr. Howard  
 Lillibridge, Harrison  
 Limburg, Herbert R.  
 Linck, Victor  
 Lincoln, Edmond E.  
 Lincoln, Mrs. Frederic W.  
 Lincoln, Jackson Steward  
 Lincoln, Mrs. Lowell  
 Lindeman, Dr. Howard E.  
 Lindenmeyr, Fritz  
 Lindley, Allen L.  
 Lindsey, Edward  
 Lipman, Walter L.  
 Lippincott, Miss M. T.  
 Lippman, Richard W.  
 Lips, Hermann J.  
 Lisman, Frederick J.  
 Lissberger, Milton L.  
 Littauer, Lucius N.  
 Littell, Miss Elizabeth D.  
 Little, Mrs. Arthur W.  
 Little, Bascom  
 Little, Clarence D.  
 Little, Duncan MacD.  
 Little, Mrs. Elliotte  
 Little, John W.  
 Livingston, Miss A. P.  
 Livingston, Henry S.  
 Livingston, Louis  
 Livingston, Philip  
 Livingston, Sol  
 Lloyd, Mrs. Francis G.  
 Lobenstine, Mrs. Wm. C.  
 Lobo, C.  
 Lobsenz, Jacob Munter, M.D  
 Lobsitz, Maurice  
 Locherer, Agnes L.  
 Locke, Mrs. Robinson  
 Lockwood, Mrs. Mary Isabel  
 Loeb, Benj. W.  
 Loeb, C. M.  
 Loeb, J.  
 Loeb, Mrs. Morris  
 Loeb, Mrs. William  
 Loebel, Andrew W.  
 Loew, Mrs. David L.  
 Loew, Miss Florence  
 Logan, Lorens  
 Logan, Mrs. Victor W.  
 Logan, Mrs. W. J.  
 Long, Miss Emilie O.  
 Long, Mary Fraser  
 Longfellow, Frederick W.  
 Look, Edward Townsend  
 Loomis, Mrs. Alfred F.  
 Loomis, Homer L.  
 Lopez, J. E.  
 Lord, Chester S.  
 Lord, Miss Dorothy C.  
 Lord, Wm. G.  
 Lorenz, Mrs. Leo  
 Lorsch, Arthur  
 Lorsch, Henry  
 Loud, Lingard  
 Lough, James E.  
 Lough, W. H.  
 Loughran, Robert L., M.D.  
 Lounsbury, Richard  
 Lovell, Charles J.  
 Loving, J. S.  
 Lovett, R. S.  
 Lovett, Robert A.  
 Low, Mrs. Clarence  
 Low, E. Herrick  
 Low, Miss L. H.  
 Low, Mrs. Paul H.  
 Low, Mrs. W. Gilman, 3d.  
 Lowell, J. B.  
 Lowenstein, Oscar  
 Lowenstein, Solomon  
 Lowenthal, Alfred  
 Lowndes, M. E.  
 Lowrey, Mrs. G. C. W.  
 Lowther, Christopher M.  
 Lucas, Kenneth B.  
 Luckey, Charles P.  
 Ludington, Dr. Robert B.  
 Ludlow, Mrs. Banyer  
 Ludlum, C. A.  
 Ludvig, Elek John  
 Lueder, C. G.  
 Lueder, E. L.  
 Lufkin, E. C.  
 Luthile, C. F.  
 Luke, Adam K.  
 Luke, David L.  
 Lumb, Henry A.  
 Lummis, Benjamin Rush  
 Lundquist, Miss G.  
 Lunning, Frederik  
 Luquer, Lea Shippen  
 Lurie, John, Jr.  
 Lurie, Mark, M.D.  
 Lusk, Miss Anna H.  
 Lusk, Graham  
 Lyeth, J. M. R.  
 Lyman, Grace Greenleaf  
 Lyman, Robert H.  
 Lynch, Mrs. John H.  
 Lynch, M. H.  
 Lynn, Francis  
 Lyon, Elinor L. P.  
 Lyon, Theo. E.  
 Lyon, Tracy  
 Maas, Milton A.  
 Mabon, J. B.  
 Mabbott, Thomas Ollive,  
 Ph.D.  
 MacColl, L. A.  
 MacCracken,  
 Mrs. George Gere  
 MacCurdy, George Grant  
 Macdonald, Ranald H.  
 MacDowell, F. M.  
 Macdowell, W. G.  
 MacFaden, C. Kendrick

- Mack, Arthur C.  
 Mack, Arthur J.  
 Mack, Fred A.  
 Mack, Gertrude G., M.D.  
 Mack, Harry  
 Mack, Julian W.  
 MacKee, Geo. M.  
 Mackenzie, Kenneth K.  
 MacKnight, Mrs. Lydia E.  
 Maclay, Mrs. Alfred Barmore  
 Maclean, Joseph B.  
 Macleod, William P.  
 MacMurray, C. F.  
 MacVeagh, Ewen Cameron  
 Maddaus, Ingo, Jr.  
 Maddaus, Paul  
 Madden, William Jay  
 Madeira, Percy C.  
 Mager, F. Robert  
 Magnin, E. John  
 Mainzer, Mrs. Herbert R.  
 Mainzer, Robert H.  
 Mairs, Mrs. Edwin H.  
 Mairs, Mrs. Olney B.  
 Mallet-Prevost S.  
 Maloney, Robert W.  
 Mallory, C. D.  
 Manchester, Percival  
 Mandell, K.  
 Manley, Mrs. H. D.  
 Mandelstam, Abraham  
 Mann, S. Vernon  
 Mansfield, Howard  
 Manship, Paul  
 Mantle, J. G. C.  
 Manville, H. Estelle  
 Manville, H. E., Jr.  
 Manz, Gustav  
 Mapes, Eugene E.  
 Marbury, Miss Elisabeth  
 Marckwald, A. H.  
 Marcus, B. K.  
 Marcuse, Alexander J.  
 Marion, Pierce  
 Markel, Lester  
 Markle, John  
 Markoe, Mrs. James W.  
 Marks, Chapman D.  
 Marsh, Charles Capron  
 Marsh, John B.  
 Marsh, Spencer S.  
 Marshall, Mrs. Caroline Clark  
 Marshall, Charles A.  
 Marshall, Charles C.  
 Marshall, Mrs. G. C.  
 Marshall, Robert P.  
 Marshall, Mrs. Wm. W.  
 Marston, Edgar L.  
 Martin, Alexander T., M.D.  
 Martin, Bradley  
 Martin, Mme Cecil Camille  
 Martin, Edward J.  
 Martin, Mrs. George W.  
 Martin, Mrs. Grinnell  
 Martin, Henry C.  
 Martin, Mrs. Howard T.  
 Martin, Robert W.  
 Martin, Thomas W., M.D.  
 Martin, Walton, M.D.  
 Marty, Jemuel G.  
 Marvin, David M.  
 Marvin, Langdon Parker  
 Marvin, Mrs. Walter R.  
 Marwig, Carl H.  
 Marx, Charles  
 Masback, Robert J.  
 Masland, M. Elizabeth  
 Mason, Charles N.  
 Mason, Miss Fanny P.  
 Mason, James  
 Mason, M. D.  
 Massey, Mrs. George  
 Massey, Miss Harriet F.  
 Masters, Sarah W.  
 Mastin, Miss Edith  
 Mathews, H. A.  
 Mathewson, Charles E.  
 Maxwell, Henry L.  
 Maxwell, Howard W.  
 May, George O.  
 May, Lewis H.  
 May, Richard B.  
 Mayer, Albert  
 Mayer, Charles  
 Mayer, Mrs. John Adams  
 Mayer, Joseph L. B.  
 Mayer, Dr. Leo  
 Mayer, M. R.  
 Mayers, Lawrence S.  
 Mayhoff, Monroe  
 Maynard, Mrs. Richard F.  
 Maynard, Robert W.  
 Maxey, Mrs. Thomas S.  
 Mazur, Mrs. Paul M.  
 McAfee, William R.  
 McAlpin, Dr. D. H.  
 McAlpin, Mrs. Geo. L.  
 McAlpin, Kenneth R., M.D.  
 McBride, Geo. C., D.D.S.  
 McBride, John S.  
 McBride, Malcolm L.  
 McBride, Wm. M.  
 McCabe, Mrs. Gertrude B.  
 McCagg, Mrs. Louis B.  
 McCagg, Loius B., Jr.  
 McCall, Leo H.  
 McCanliss, Lee  
 McCaughey, Henry G.  
 McCloy, John J.  
 McClure, Samuel G.  
 McCook, Philip J.  
 McCormick-Goodhart, L.  
 McCormick, Mrs. Medill  
 McCourt, James  
 McCourt, W. Frank  
 McCrea, Nelson G.  
 McCready, Robert L., M.D.  
 McCreery, Henry Forbes  
 McCulloch, J. P.  
 McCulloch, Charles S.  
 McCulloch, James S.  
 McCullough, W. G.  
 McCurdy, Robert H.  
 McCutchen, Mrs. Charles W.  
 McDonald, C. Eric W.  
 McDonnell, Hubert  
 McDuffie, Marshall William  
 McElheny, Victor K., Jr.  
 McFadden, Mrs. W. A.  
 McFarland, Warren C., M.D.  
 McGaffin, Chas. G., M.D.  
 McGee, Walter M.  
 McGovern, Mrs. Coleman B.  
 McGraw, Dr. Arthur B.

- McGraw, Mrs. Donald  
 McGraw, Stanley D.  
 McGregor, Robert  
 McIlhenny, E. A.  
 McIlroy, George A.  
 McIntosh, Marjorie  
 McIntyre, Kenneth A.  
 McKay, R. G.  
 McKee, Mrs. Henry Sellers  
 McKee, Mrs. Wm. L.  
 McKelvey, Mrs. Susan Delano  
 McKelvy, Robert  
 McKenney, Henry P.  
 McKeown, Matilda J.  
 McKernon, Dr. Jas. F.  
 McKim, Le Roy  
 McKinley, Lindsay P.  
 McLane,  
     Miss Sophie Hoffman  
 McLane, Thomas S.  
 McMahan, Rev. Joseph H.  
 McManus, Mrs. E. S.  
 McManus, Edward F.  
 McMaster, Mrs. Philip  
 McNair, William  
 McNaugher, David W.  
 McNeir, George  
 McNeir, Thomas S.  
 McParlan, Dr. John P.  
 McRoberts, Samuel  
 McVickar, Mrs. W. Bard  
 McUmbler, Nava E.  
 Meacham, Alfred B.  
 Mead, Carl A.  
 Mead, Charles N.  
 Mead, G. W.  
 Meeder, Frederick H.  
 Meeks, Howard V.  
 Megargel, Roy C.  
 Megeath, S. A.  
 Meigs, Mrs. Ferris J.  
 Meirowitz, Dr. Philip  
 Melander, A. L.  
 Melcher, John S.  
 Mellen, Chase  
 Mellon, E. P.  
 Mellon, Miss Eleanor M.  
 Meloy, Andrew D.  
 Melville, Ward  
 Mencke, John H.  
 Mendelsohn, Sigmund  
 Mendelson, Herbert  
 Mendenhall, Rev. H. G.  
 Mendes, George A.  
 Menendez, James  
 Menke, William  
 Menken, Arthur v. B.  
 Menken, Mrs. S. Stanwood  
 Menut, Leroy E.  
 Mercadante, Joseph  
 Mergentime, Mrs. Charles  
 Merle-Smith, Van S.  
 Merle-Smith, Mrs. Wilton  
 Merowit, Clement B.  
 Merriam, Edith W.  
 Merriam, Henry F.  
 Merriam, Lyman L.  
 Merrihew, George W.  
 Merrill, Edwin G.  
 Merrill, John Lenord  
 Merriman, H. Morton  
 Merritt, Dr. Arthur Hastings  
 Merritt, Walter Gordon  
 Merseles, H. E.  
 Merzbach, George  
 Messer, Don V.  
 Messier, G. Albert  
 Messner, Henry Lee  
 Metcalf, Mrs. M. B.  
 Metcalf, Rowe B.  
 Metcalf, Stephen O.  
 Metcalf, Mrs. Walter Willson  
 Metcalfe, William C.  
 Metzger, David  
 Meunier, Maurice A.  
 Meyer, Arthur G.  
 Meyer, Arthur S.  
 Meyer, Mrs. Cord, Jr.  
 Meyer, Mrs. Eugene, Jr.  
 Meyer, J. Edward  
 Meyer, Francis T.  
 Meyer, Dr. Julian J.  
 Meyer, Julius Paul  
 Meyer, Max  
 Meyer, Robert B.  
 Meyer, Walter E.  
 Meyer, Walter S.  
 Michalis, C. G.  
 Milbank, Albert G.  
 Milburn, Mrs. D.  
 Millard, Hudson  
 Miller, Andrew J.  
 Miller, Mrs. Charles E.  
 Miller, Clifford L.  
 Miller, Mrs. H. R.  
 Miller, Miss Helen Clarkson  
 Miller, Mrs. Henry Wise  
 Miller, Hoyt  
 Miller, J. E.  
 Miller, Dr. James Alexander  
 Miller, John H.  
 Miller, Mrs. Kenneth C.  
 Miller, Leverett S.  
 Miller, Mrs. Roswell  
 Miller, Mrs. Roswell, Jr.  
 Miller, Simon  
 Miller, Spencer, Jr.  
 Miller, William W.  
 Millett, Gardner W.  
 Millett, Stephen C.  
 Millhiser, Mrs. Clarence  
 Milliken, Hugh K.  
 Milliken, Seth M.  
 Mills, Dr. Adelaide  
 Mills, Dudley H.  
 Mills, Frederic C.  
 Milmine, Mrs. Charles E.  
 Milne, Clyde  
 Mincer, Arthur  
 Miner, Edward G.  
 Miner, L. Owen  
 Miner, Mrs. Woodin  
 Minford, Levis W.  
 Minor, Mrs. John C.  
 Minot, G. W.  
 Minott, Frederick S.  
 Missir, Martin G.  
 Mitchell, C. E.  
 Mitchell, Mrs. Charles E.  
 Mitchell, Cornelius von E.  
 Mitchell, Henry B., 2d.  
 Mitchell, Mrs. John Ames  
 Mitchell, Walter J.  
 Mitchell, Walter L.

- Mitchell, Wesley C.  
 Mittenthal, Arnold B.  
 Moffat, Mrs. Douglas M.  
 Moffat, G. B.  
 Moffatt, Mrs. R. Burnham  
 Mohlman, Mrs. John H.  
 Moir, Henry  
 Molleson, George A.  
 Monaelesser, Dr. Adolph  
 Monae-Lesser, Mozart  
 Monks, Mrs. George H.  
 Montague, Mrs. Gilbert  
 Montgomery, A. Moore  
 Montgomery,  
     Mrs. Henry Eglinton, 2d.  
 Montgomery, James M.  
 Montgomery, Mrs. Lettie D.  
 Montgomery, Robert H.  
 Montgomery, Wallace  
 Montross, N. E.  
 Moodey, Gertrude  
 Moody, Prof. Herbert R.  
 Moody, William F.  
 Moore, Maj. Barrington  
 Moore, Benjamin  
 Moore, Mrs. Casimir de R.  
 Moore, E. A.  
 Moore, Mrs. Edward S.  
 Moore, Mrs. Eugene M.  
 Moore, Frederic P.  
 Moore, Samuel W.  
 Moore, Thomas J.  
 Moore, Wm. S.  
 Moorhead, Dr. J. J.  
 Moos, Elizabeth  
 Morawetz, Mrs. Victor  
 Moray, Jere C.  
 Morgan, Miss Anne  
 Morgan, David Percy, Jr.  
 Morgan, E. D.  
 Morgan, Henry  
 Morgan, Hubert S.  
 Morgan, John E. P.  
 Morgan, Shepard A.  
 Morgan, Mrs. Wm. Fellowes  
 Morgan, William O. P.  
 Morgenthau, Henry  
 Morgenthau, Mrs. Henry  
 Morgenthau, Mrs. John L.  
 Morley, A. B.  
 Morman, Mrs. Samuel A.  
 Morrell, Henry  
 Morris, Mrs. Dave H.  
 Morris, Du Bois S.  
 Morris, Joseph L.  
 Morris, Mrs. L. R.  
 Morris, Lawrence  
 Morris, Lewis Spencer  
 Morris, Miss Lydia T.  
 Morris, Morton  
 Morris, Ray  
 Morrison, A. Cressy  
 Morrison, Mrs. Charles King  
 Morrison, Edward  
 Morrison, I. D.  
 Morrison, W. W., M.D.  
 Morrissey, John P.  
 Morse, Perley  
 Morse, Mrs. R. F.  
 Morse, Robert E.  
 Morss, Mrs. Charles A.  
 Morss, Noel  
 Morton, Lindley C.  
 Morton, Quincy L.  
 Moschcowitz, Dr. A. V.  
 Moschcowitz, Eli  
 Mosle, A. Henry  
 Mosle, Max A.  
 Moss, Mrs. Frederick W.  
 Motley, Jas. M.  
 Mott, Mrs. John B.  
 Mott, Jordan L.  
 Mott, Miss Marian  
 Mowry, Eugene C.  
 Moyer, Albert  
 Muendel, Christina  
 Muhlfield, Frank J.  
 Mulford, Edwin H.  
 Muller, Carl L.  
 Muller, Erhart  
 Mumford, Philip Gordon  
 Mundy, Floyd W.  
 Munn, Gurnee  
 Munn, John  
 Munroe, Vernon  
 Munson, C. W.  
 Murnane, George  
 Murphy, Charles F., Jr.  
 Murphy, Deas, M.D.  
 Murphy, Franklin  
 Murphy, G. M.-P.  
 Murphy, Henry Killam  
 Murphy, James B.  
 Murphy, Miss Sarah Andrew  
 Murphy, Wm. C.  
 Murray, J. Archibald  
 Murray, R. D.  
 Murtaugh, Mrs. E. M.  
 Muschenheim, Fred. A.  
 Mutterperl, Sol.  
 Myers, L.  
 Myers, Winter W.  
 Myles, Robert C., Jr.  
 Myrick, Julian S.  
 Nadelman, Elie  
 Nash, John Burnet  
 Naah, Leo  
 Nathan, Mrs. Frederick  
 Nathan, Harold  
 Nathan, Dr. Philip W.  
 Naugle, Mrs. J. J.  
 Naumburg, Walter W.  
 Necarsulmer, Henry  
 Necarsulmer, Mrs. Henry  
 Neely, Robert T.  
 Neergaard, Dr. A. E.  
 Neeser, John G.  
 Neil, Howard W., M.D.  
 Neish, Miss Edythe K.  
 Neitzel, August  
 Nelson, Theodora  
 Nelson, Walter H.  
 Nesmith, James  
 Nesmith, James, 2d.  
 Neuhoof, Dr. Harold  
 Neumann, Julie W.  
 Neumoegen, M. L.  
 Neuscheller, J. L.  
 Neustadt, Mrs. S.  
 Neustadter, L. W.  
 New, Mrs. Sidney  
 Newberry, Truman H.  
 Newborg, M.

- Newborg, Sidney  
 Newburger, Alfred H.  
 Newburger, Mrs. Lester M.  
 Newbury, F. A.  
 Newcomb, H. T.  
 Newcomb, Mrs. James E.  
 Newcomb, James F.  
 Newcomb, James G.  
 Newcomb, Miss Virginia  
 Newcombe, Mrs. Charles M.  
 Newhouse, Leo  
 Newlon, Jesse H.  
 Newman, A. L.  
 Newman, Harry S.  
 Newsom, William Monypeny  
 Newton, F. Maurice  
 Newton, Mrs. Francis  
 Neylan, John Francis  
 Nichols, C. W.  
 Nichols, Chas. K.  
 Nichols, Mrs. Charles Walter  
 Nichols, Edward T.  
 Nichols, Edward T., 4th.  
 Nichols, Francis T.  
 Nichols, L. Nelson  
 Nichols, William B.  
 Nicholson, John E.  
 Nicholson, Samuel L.  
 Nicolson, Alexander McLean  
 Nickerson, Hoffman  
 Nicklas, C. Aubrey  
 Nicoll, Charles D.  
 Nicoll, Mrs. Fancher  
 Nicoll, Jean B.  
 Nightingale, Miss Frances N.  
 Niven, John Ballantine  
 Noble, Francis L.  
 Noble, Raymond G.  
 Nobles, Charles C.  
 Nodine, Miss Marguerite L.  
 Noell, Carl  
 Nolan, L. J.  
 Nones, Walter M.  
 Noonan, W. T.  
 Norcross, Grenville H.  
 Norman, Mrs. Bradford  
 Norman, Bradford, Jr.  
 Norman, Edward A.  
 Nornabell, Mrs. Catherine  
 Norrie, Lanfear B.  
 Norrie, Van Horne  
 Norris, Beverly A.  
 Norris, Charles  
 Norris, Miss Fanny  
 North, George B.  
 Northrop, Chas. P.  
 Norton, Mrs. Charles D.  
 Norton, Mrs. Charles M.  
 Norton, Mrs. N. R.  
 Norton, P. J.  
 Norton, Mrs. Sheridan  
 Norwood, Robert  
 Noyes, Mrs. D. Chester  
 Noyes, D. Raymond  
 Nuckols, Henry Wade  
 Nute, Mrs. John W.  
 Oastler, Dr. F. R.  
 Obermeyer, Jos.  
 Oberrender, Dr. Girard F.  
 O'Brien, Morgan J.  
 Ochs, Adolph S.  
 Oehsen, George A.  
 O'Connor, John Christopher  
 Odell, William R., Jr.  
 O'Donohue, Joseph J., Jr.  
 Oesterreicher, S. I.  
 Offerman, John  
 Ogden, Charles W.  
 Ogden, Mrs. David B.  
 Ogden, J. Edward  
 Ogden, James  
 Ohmes, Arthur K.  
 Oldroyd, Ida S.  
 Olds, George S.  
 Olds, Margaret A.  
 Ollesheimer, Henry  
 Olney, Elam Ward  
 Oltmann, Clara  
 Olwell, Lee E.  
 Oman, Rear-Admiral J. W.  
 O'Neil, Mrs. James  
 Opdycke, Mrs. Leonard E.  
 Openchowski,  
     Mrs. Mieczyslaw  
 Openyhm, George J.  
 Oppenheim, Laurent  
 Oppenheim, Robert  
 Oppenheimer, Dr. B. S.  
 Oppenheimer, David E.  
 Oppenheimer, Harry C.  
 Oppenheimer, Julius  
 Opper, Edwin M.  
 Orcutt, Chas. C.  
 O'Reilly, John B.  
 Ormond, Miss Helen C.  
 Orne, Henry M.  
 Orr, William C.  
 Orteig, Raymond  
 Orton, Dr. S. T.  
 Orvis, Edwin W.  
 Osborn, Earl Dodge  
 Osborn, Mrs. Frederick H.  
 Osborn, Wm. H.  
 Osborn, Mrs. William H.  
 Oshima, Dr. M.  
 Ostholt, Ehler  
 Otheman, Mrs. Francis W.  
 Otis, Charles  
 Otis, Mrs. George L.  
 Otis, Harold  
 Ott, Alexander J.  
 Ottenberg, Dr. Reuben  
 Outhwaite, Leonard  
 Owen, Evan  
 Owens, Wm. E.  
 Pace, Homer S.  
 Pack, Mrs. Charles Lathrop  
 Packard, C. S. W.  
 Packard, Elizabeth H.  
 Packer, Franklin  
 Paddock, Mrs. Eugene H.  
 Paddock, Mrs. Robert L.  
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 Page, F. Palmer  
 Page, Miss Mary C.  
 Paine, A. G., Jr.  
 Paine, Edward S.  
 Paine, Mrs. George Eustis  
 Painter, Dr. H. McM.  
 Palmer, D. Joseph  
 Palmer, Edgar  
 Palmer, Franklin Wheeler



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 Palmer, Howard  
 Palmer, Hugh Archer  
 Palmer, Laura A.  
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 Palmer, S.  
 Pantaleoni, Mrs. Guido, Jr.  
 Paone, Anthony  
 Pappenheimer,  
   Alvin M., M.D.  
 Paquette, Percy C.  
 Pardee, Ario  
 Pardee, Mrs. Harold E. B.  
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 Parish, Mrs. Henry  
 Parish, Wainwright  
 Parish, William F.  
 Park, Charles F., Jr.  
 Park, F. A.  
 Parker, A. W.  
 Parker, Frank S.  
 Parker, Junius  
 Parker, Winthrop  
 Parker, Wm.  
 Parkhurst, Miss Helen  
 Parks, Elton  
 Parmentier, Mrs. Elsbeth  
   Pabst  
 Parodi, Dr. Teofilo  
 Parrish, Amos  
 Parsons, Bertha R.  
 Parsons, H. de B.  
 Parsons, Henry  
 Parsons, Mrs. J. Graham  
 Parsons, Katharine de B.  
 Parsons, Miss M.  
 Parsons, Schuyler L.  
 Parsons, Wm. Barclay  
 Parsons, Wm. Barclay, Jr.  
 Paskus, Benj. G.  
 Pasquarelli, Dr. B.  
 Paton, Dr. Stewart  
 Patterson, Edward C.  
 Patterson, Mrs. George W.,  
   Jr.  
 Patterson, Henry S., M.D.  
 Patterson, Joseph Read  
 Patterson, Mrs. Rufus L.  
 Paucek, Viola  
 Paulding, Charles C.  
 Pavenstedt, Adolf J.  
 Payne, Robert G.  
 Payson, Charles S.  
 Payson, Horace E.  
 Peabody, Elizabeth Barrett  
 Peabody, Lincoln R.  
 Peabody, Stephen  
 Peabody, T. K.  
 Peacock, Charles A.  
 Pearsall, Leigh M.  
 Peaslee, Mrs. Edmund W.  
 Peck, Miss Clara S.  
 Peck, E. Stuart  
 Peck, Mrs. Laurence F.  
 Peck, Morton R., M.D.  
 Peckham, Mrs. Wheeler H.  
 Pedersen, Dr. James  
 Peet, Charles L.  
 Peierls, Siegfried  
 Pelican, C.  
 Pell, Mrs. Alfred Duane  
 Pell, James D.  
 Pell, Mrs. Stephen  
 Peloubet, Mrs. Emma M.  
 Peloubet, Mrs. S. W.  
 Pelzer, B. Henry  
 Pendelton, Arvid M.  
 Penn, Mrs. Jefferson  
 Pennoyer, Paul G.  
 Pennoyer, Miss Virginia M.  
 Perera, Lionello  
 Perine, William D. N.  
 Perkins, F. Curtis, Jr.  
 Perkins, G. Lawrence  
 Perkins, George W.  
 Perkins, James H.  
 Perkins, Jeanette E.  
 Perrin, Lee J.  
 Perrine, Mrs. F. A. C.  
 Perrow, Jesse  
 Perry, Henry P.  
 Perry, Mrs. Louise M.  
 Perry, Mrs. Harold G.  
 Perry, Margaret  
 Perry, O. B.  
 Peskind, Dr. Arnold  
 Peter, Mrs. Armistead, 3d.  
 Peterman, William C.  
 Peters,  
   Madame Edward McClure  
 Peters, Mrs. Edward Heath  
 Peters, Miss Elizabeth  
 Peters, Miss Isabel M.  
 Peters, Mrs. Samuel T.  
 Peters, William Y.  
 Peterson, Andrew  
 Peterson, Fred B.  
 Peterson, Frederick, M.D.  
 Peterson, J. Dudley  
 Pettengill, Jason Seabury  
 Pewtress, E. L.  
 Pfeiffer, Timothy Newell  
 Pfender, W. S.  
 Pforzheimer, Carl H., Jr.  
 Pforzheimer, Walter  
 Phelps, Dr. G. M.  
 Phelps, Miss Rose  
 Phelps, Mrs. Sheffield  
 Philipp, Philip B.  
 Phillips, Mrs. Alfred Noroton  
 Phillips, Edna K.  
 Phillips, Frank  
 Phillips, Geo. W., Jr.  
 Phillips, Lawrence  
 Phillips, T. W. S.  
 Phillips, W. Stanwood  
 Phipps, Michael  
 Pickhardt, Carl  
 Pickhardt, William Paul  
 Pier, Roy  
 Pierce, Alice R.  
 Pierrepoint, R. Stuyvesant, Jr.  
 Pierrepoint, Robert Low  
 Pierrepoint, Seth Low  
 Pierson, Mrs. C. W.  
 Pierson, D. H.  
 Pierson, J. Fred  
 Piez, Ernestine  
 Pilliod, James J.  
 Piquet, Lydia S.  
 Pirie, Lockwood M.  
 Pitkin, William Taft  
 Pitman, Gen. John  
 Pitney, Mrs. J. O. H.

- Place, Mrs. Hermann G.  
 Place, Ransom Y.  
 Plant, Henry B.  
 Platt, Mrs. Charles H.  
 Platt, Miss E. L.  
 Platt, Edmund  
 Platt, Mrs. Frank H.  
 Platt, Frederick Putnam  
 Platt, Henry B.  
 Platt, Livingston  
 Platzek, M. Warley  
 Plaut, Edward  
 Plaut, Robert  
 Pless, Martin  
 Plummer,  
   Rt. Rev. George Winslow  
 Plunkett, Mrs. Charles T., Jr.  
 Poel, Frank  
 Poillon, Mrs. Arthur  
 Poillon, Clara L.  
 Poillon, Howard A.  
 Polachek, John  
 Polk, Frank L.  
 Polk, Mrs. William M.  
 Pollak, Bernard E.  
 Pollak, Marion H.  
 Pollitzer, Dr. S.  
 Poltchaninoff, Nicholas J.,  
   M.D.  
 Pomroy, H. A.  
 Pond, Miss Florence L.  
 Poole, Mrs. Ernest  
 Poor, Hustace H.  
 Poor, Ruel W.  
 Pope, Mrs. James E.  
 Popham, Henry Meigs  
 Popper, A. W.  
 Popper, Harry J.  
 Popper, Mrs. Wm. C.  
 Porter, Mrs. Rachel Lenox  
 Porter, Willard Hall, Jr.  
 Posner, David  
 Posner, L. S.  
 Post, Abram S.  
 Post, Andrew J.  
 Post, Mrs. Carroll J., Jr.  
 Post, Charles K.  
 Post, Miss Isabel A.
- Post, Robert C.  
 Post, Sylvester  
 Post, Wm. S.  
 Potter, Miss Blanche  
 Potter, Frank H.  
 Potter, Frederick A.  
 Potter, Dr. Mary Goddard  
 Potter, Mrs. Orlando B.  
 Potter, R. Burnside  
 Pottier, Auguste Ruffin  
 Potts, William B.  
 Powell, Miss Rachel Hopper  
 Powell, S. C.  
 Powers, Dr. Lillian Delger  
 Powers, Thomas J., Jr.  
 Poynton, John A.  
 Pratt, Miss Caroline  
 Pratt, Fletcher  
 Pratt, Mrs. Richardson  
 Prentice, Robert Kelly  
 Prentis, Edmund A., Jr.  
 Prentiss, Marshall  
 Presbrey, Frank  
 Prescott, Dr. Henry D.  
 Prescott, John O.  
 Prescott, Sherburne  
 Preston, Stuart D.  
 Preston, Veryl  
 Pretzfeld, Edgar S.  
 Price, Allan M.  
 Price, Mrs. Edgar F.  
 Price, Joseph M.  
 Price, Walter W.  
 Priddy, Lawrence  
 Pridham, Charles F.  
 Prime, Mrs. Edward  
 Prince, Benjamin  
 Prince, Leon M.  
 Prince, Theodore  
 Procter, Rodney  
 Procter, Mrs. Sanford  
 Procter, William  
 Proctor, A. Phimister  
 Proskauer, Joseph M.  
 Prosser, Robert W.  
 Prout, Henry B.  
 Pruyn, Erving  
 Pruyn, Francis L.
- Pryor, Mrs. Samuel F., Jr.  
 Pugsley, Cornelius A.  
 Pulsifer, Harold T.  
 Pupke, Helene C.  
 Purcell, Elizabeth  
 Purves, Robert Ogden  
 Putnam, Mrs. Edward H.  
 Putnam, Helen C., M.D.  
 Putnam, Mrs. Henry Rice  
 Putnam, Lyonel H.  
 Putney, Miss Eva C.  
 Pyle, D. H. McAlpin  
 Pyle, Mrs. Wm. Scott  
 Pyne, Mrs. M. Taylor
- Quackenbush, Timothy A.  
 Quick, Douglas  
 Quinn, Martin J.  
 Quintard, Dr. Edward
- Rabinowitz, Mrs. Aaron  
 Rachlin, Abraham  
 Rader, Mrs. Louis B.  
 Rafferty, Mrs. Ewing L.  
 Railey, Mrs. H. H.  
 Raiman, Robert Insall  
 Raisler, Samuel  
 Ramage, Samuel Young  
 Ramsay, H. H.  
 Ramsperger, H. G.  
 Randolph, Evan  
 Randolph, Wm. F.  
 Ranger, Stanley G.  
 Ransom, Miss Maud  
 Rangom, William L.  
 Raschbaum, Edwin B.  
 Rasmus, William T.  
 Rau, Eugene A.  
 Rawlins, Herbert N.  
 Rayher, Edward R.  
 Raymond, Frank T.  
 Raymond, H. H.  
 Raymond, Irving E.  
 Raymond, Mrs. R. M.  
 Raymond, Mrs. William  
 Raynes, George W.  
 Read, Norman  
 Read, Wm. A., Jr.

- Read, Mrs. Williams  
 Ream, Mrs. Norman Putnam  
 Reckford, John King  
 Redmond, Miss Emily  
 Redmond, Mrs. Henry S.  
 Redmond, Roland L.  
 Redwood, W. D.  
 Reed, Mrs. Chester T.  
 Reed, Floyd Orten, M.D.  
 Reed, Henry H.  
 Reed, Robert R.  
 Reed, Wm. E.  
 Reese, Miss M. M.  
 Reese, Mrs. Robert Grigg  
 Reese, W. Willis  
 Reichard, Gladys A.  
 Reid, Mrs. Ogden Mills  
 Reid, Wallace  
 Reilly, Frances S.  
 Reimann, Vilhelm  
 Reinhardt, E. Allan  
 Reischmann, Henry R.  
 Reisinger, Curt H.  
 Remick, Mary Moore  
 Remington, Franklin  
 Remsen, Miss Margaret S.  
 Remsen, William  
 Renner, Henry  
 Rennie, Robt.  
 Requardt, John  
 Retz, Louis D., M.D.  
 Reulbach, Edward J.  
 Reyburn, Saml. W.  
 Reynolds, Miss Emma C.  
 Reynolds, Geo. W.  
 Reynolds, Herbert B.  
 Reynolds, Shaw H.  
 Reynolds, Silas S.  
 Reynolds, Thos. A.  
 Reynolds, Mrs. Walter S.  
 Rheinauer, Daniel  
 Rheinstein, Alfred  
 Rhoades, John Harsen  
 Rhoades, Mrs. Lyman  
 Rice, Mrs. Elmer L.  
 Rice, Elwood E.  
 Rice, Dr. Frederick W.  
 Rice, Grantland  
 Rice, Louis W.  
 Rich, Charles A.  
 Rich, Mrs. Eva  
 Rich, Johanna E.  
 Richard, Harold C.  
 Richard, Oscar L.  
 Richards, Archie M.  
 Richards, Dr. Dickinson W., Jr.  
 Richards, Mrs. George H.  
 Richardson, Mrs. C. Tiffany  
 Richardson, Sinclair  
 Richardson, Thomas de Quartel, Jr.  
 Richtberg, Dorothea  
 Richter, Max  
 Ricker, Mrs. Eleanor A.  
 Ricketts, Miss H.  
 Ridder, J. E.  
 Ridder, Victor F.  
 Riddle, Mrs. Theodate Pope  
 Rider, Philip C.  
 Ridgway, Robert  
 Riegelman, Mrs. Charles  
 Riem, Simon R.  
 Ries, Hugo  
 Riggs, Austen Fox  
 Riesenbergs, Adolph  
 Riglander, Mrs. M. M.  
 Riley, Cathryn V.  
 Riley, Henry Alsop, M.D.  
 Riley, Mrs. J. W.  
 Rinehart, Alan G.  
 Rinelli, Peter  
 Rinschede, Charles A. W.  
 Rippenbeim, Morris  
 Risch, Otto Carl, M.D.  
 Rival, Peter  
 Rives, George Barclay  
 Robert, Samuel  
 Roberts, Erastus T.  
 Roberts, George  
 Roberts, Mrs. Henry Steele  
 Roberts, Owen F.  
 Roberts, William  
 Robertson, F. Y.  
 Robins, Thomas  
 Robinson, A. G.  
 Robinson, Beverley R.  
 Robinson, Mrs. C. L. F.  
 Robinson, Charles B., Jr.  
 Robinson, Charles L.  
 Robinson, Mrs. Edward  
 Robinson, Mrs. F. I. W.  
 Robinson, Frederick B.  
 Robinson, James H.  
 Robinson, Dr. John A.  
 Robinson, Joseph  
 Robinson, Karl H.  
 Robinson, Mark H.  
 Robinson, Miss Pauline  
 Robinson, Mrs. T. Douglas  
 Robson, Herman  
 Rockefeller, Percy A.  
 Rockefeller, Mrs. Wm. G.  
 Rockwood, Miss K. C.  
 Rodie, Mrs. W. S.  
 Rodrigue, Joseph A.  
 Roe, James P.  
 Roelker, Alfred  
 Roelker, Miss Anna E.  
 Roesler, Edward  
 Roethlisberger, Otto  
 Rogers, Edmund P.  
 Rogers, Francis  
 Rogers, Mrs. Francis  
 Rogers, H. Pendleton  
 Rogers, Henry W.  
 Rogers, Hubert E.  
 Rogers, Mrs. Jas. Gamble  
 Rogers, John S.  
 Rogers, Dr. Oscar H.  
 Rogers, Saul E.  
 Rohdenburg, G. L.  
 Rohe, Charles  
 Rokenbaugh, H. S.  
 Rolle, Augustus J.  
 Roller, Emil  
 Rollinson, Mrs. Helen M.  
 Ronalds, Miss Thora  
 Roos, Mrs. William  
 Roosevelt, A. B.  
 Roosevelt, Mrs. Archibald B.  
 Roosevelt, Mrs. J. West  
 Roosevelt, Philip J.  
 Roosevelt, Mrs. Philip J.

- Root, Elihu  
 Rose, C. C.  
 Rose, Mrs. George  
 Rosen, Joseph A.  
 Rosenbaum, Sol. G.  
 Rosenberg, Mrs. J. N.  
 Rosenberger, Heinz  
 Rosenberger, Dr. Randle C.  
 Rosenfeld, Ernst  
 Rosenfeld, F. M.  
 Rosenfeld, J.  
 Rosenheim, Mrs. Bertha  
 Rosensohn, Mrs. S. J.  
 Rosenstiel, Mrs. Lewis S.  
 Rosenthal, Leon W.  
 Rosenthal, Sylvan E.  
 Ross, F. J.  
 Ross, Mrs. Henry C.  
 Ross, Miss Marguerite E.  
 Ross, Reuben J.  
 Rossano, Augusto T., M.D.  
 Rossbach, Mrs. L.  
 Rossin, Alfred S.  
 Rossiter, Edward L.  
 Rossmoore, Sara  
 Rothbart, A.  
 Rothman, Arnold  
 Rothman, Richard J.  
 Rothschild, Clarence G.  
 Rothschild, James  
 Rothschild, Simon F.  
 Rothschild, Mrs. V. Sydney  
 Rothschild, Walter N.  
 Rounds, R. S.  
 Rounds, Ralph Stowell, Jr.  
 Rousmaniere, John E.  
 Rowe, Dr. Arthur T.  
 Rowell, George P.  
 Rowland, Mrs. Chas. B.  
 Rowland, Thos.  
 Roy, James Bryant  
 Rubel, C. Adrian  
 Rublee, Juliet Barrett  
 Rubsam, C. William  
 Rudderow, E. Douglas, M.D.  
 Rudolf, Mrs. John J.  
 Rudolph, Henry  
 Ruhlender, Henry  
 Rumbough, J. Wright  
 Rumbough, Stanley M.  
 Rumely, Mrs. Edward A.  
 Rumsey, Mrs. C. C.  
 Rungius, Carl  
 Runsheim, Joseph  
 Runyon, Edward Wheelock  
 Rupert, Justus  
 Ruppell, Edward A.  
 Rupperecht, Frederick K.  
 Rusch, Adolphe, Jr.  
 Rusch, Henry A.  
 Russek, Isidor H.  
 Russell,  
     Mrs. Charles Howland  
 Russell, Helen G.  
 Russell, Mrs. Henry P.  
 Russell, Dr. John F.  
 Russell, Marshall  
 Russell, Thos. F., Jr.  
 Russell, Whitman  
 Russell, William Francis  
 Rust, Edgar C.  
 Rutherford, John  
 Rutherford, Livingston  
 Rutter, J. Wood  
 Ryle, Miss Julia  
 Sabin, Charles H.  
 Sabin, Florence R.  
 Sachs, Bernard, M.D.  
 Sachs, Harry  
 Sachs, Howard J.  
 Sachs, Julius  
 Sachs, Miss Miriam  
 Sachs, Walter E.  
 Sackett, Arthur J.  
 Sackett, Charles A.  
 Sage, Miss Elsie E.  
 Sage, Mrs. Henry W.  
 Sage, Mrs. William H.  
 St. Damase, Sister  
 St. John, Mrs. G. C.  
 Sakolski, A. M.  
 Salant, Aaron B.  
 Salisbury, Lucius A., M.D.  
 Salm, Countess Maud  
 Salmon, Mrs. Walter J.  
 Saltus, R. Sanford, Jr.  
 Salvage, Mrs. S. A.  
 Sampson, Charles E.  
 Sanborn, Bernice  
 Sanborn, Jas. F.  
 Sand, Alice Low  
 Sandford, Mrs. Lisa W.  
 Sands, Mrs. B. Aymar  
 Sanford, Edwards S.  
 Sanford, Francis B.  
 Sarafian, S. A.  
 Sard, Mrs. Ingalls E.  
 Sarg, F. A.  
 Saril, August  
 Satterlee, Mrs. Herbert L.  
 Satterlee, Hugh  
 Satterlee,  
     Miss Madeleine L. R.  
 Sauer, Rudolph  
 Saul, Charles R.  
 Saunders, Helen E.  
 Saunders, William Lapham  
 Sauter, Fred  
 Savage, Theodore F.  
 Sawyer, Mrs. L. P.  
 Saxl, Josef, M.D.  
 Sayles, Robert W.  
 Sayles, Mrs. Robert W.  
 Schachet, Saul  
 Schaefer, Mrs. Edward C.  
 Schaefer, Mrs. J. Louis  
 Schafer, Mrs. Edward  
 Schaff, Norman  
 Schall, Fred P.  
 Schall, Frederick M.  
 Schanck, George E.  
 Scharmann, Herman F.  
 Schauffler, Bennet F.  
 Schechter, Jacob  
 Scheel, Henry Van Riper  
 Scheel, William H.  
 Schefer, A. H.  
 Schelling, Ernest H.  
 Schelling, Lucie How  
 Schepp, Miss Florence  
 Scherman, Harry  
 Schermerhorn, Alfred E.  
 Scheuer, Mrs. S. H.

- Scheuer, Mrs. Sidney H.  
 Schieffelin, Miss Dorothy  
 Schieffelin, W. J., Jr.  
 Schieffelin, Wm. Jay  
 Schiffer, Jack W.  
 Schimmel, Clarence C.  
 Schmeidler, Robert  
 Schirmer, Emma L.  
 Schlesinger, Armin A.  
 Schley, Evander B.  
 Schley, K. B.  
 Schling, Max  
 Schmelz, Herman  
 Schmelzel, James H.  
 Schmich, John E.  
 Schmidt,  
     Mrs. Charles Frederick  
 Schmidt, Mrs. Wm. H.  
 Schmitt, George  
 Schmuck, Thomas K.  
 Schnakenberg, H. Ernest  
 Schneider, Charles D.  
 Schnepel, Charles A.  
 Schnepel, Dr. George A.  
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 Weltzien, Henry C.  
 Welwood, John Caldwell  
 Wemple, William Y.  
 Wentz, Theodore  
 Werner, Theodore  
 Wertheim, Maurice  
 Wertheim, Mrs. Maurice  
 Wertz, Edith B.  
 Wesendonck, M. A.  
 Wessell, Arthur L.  
 West, Charles C.  
 West, Davenport  
 West, Davenport, Jr.  
 Westad, Rolf G.  
 Westheimer, Henry F.  
 Weston, Cornelia  
 Weston, Dr. Edward  
 Weston, Mrs. Theodore  
 Westover, Myron F.  
 Wetstein, Jacob  
 Wetzel, C. F.  
 Whalen, Grover A.  
 Wheeler, Miss L.  
 Wheelwright,  
     Mrs. A. Robinson  
 Wheelwright, Joseph S., M.D.  
 Whipple, Allen O., Jr.  
 Whitaker, Spier  
 White, Mrs. Alfred L.  
 White, Miss Alma  
 White, Miss Caroline  
 White, E. Cantelo  
 White, Miss Edith Hamilton  
 White, James W., M.D.  
 White, Lawrence Grant  
 White, Lazarus  
 White, Leonard D.  
 White, Mrs. M. Ely  
 White, Martha R.  
 White, Mrs. Stanford  
 White, Walter  
 Whitehouse, Mrs. F. M.  
 Whiteside, A. D.  
 Whitestone, Samuel L.  
 Whitfield, Mrs. W. L.  
 Whiting, Miss Gertrude  
 Whiting, Mrs. Giles  
 Whiting, Ralph D.  
 Whitman, Mrs. F. C.  
 Whitman, Mrs. Royal  
 Whitman, Wm., Jr.  
 Whitmarsh, Theo. F.  
 Whitney, Mrs. George  
 Whitney, Mrs. Howard F.  
 Whitney, H. Le Roy  
 Whitney, Richard  
 Whitney, Travis H.  
 Whitridge, A.  
 Whitridge, Mrs. Arnold  
 Wickes, Miss May Forsyth  
 Wickware, Francis G.  
 Wiemann, Albert B.  
 Wiener, Joseph  
 Wiener, Solomon, M.D.  
 Wiesenberg, Charles  
 Wiesenfeld, Miss Bernice  
 Wightman, Henry Nicoll  
 Wilcox, Arthur R.  
 Wilcox, Dr. Herbert B.  
 Wilcox, T. Ferdinand  
 Wilder, Mrs. Throop M.  
 Wilds, Percival  
 Wilds, Dr. Robert H.  
 Wile, Edwin  
 Wile, Ernest J.  
 Wile, Ira S.  
 Wiley, J. S.  
 Wiley, Louis  
 Wilkie, John L.  
 Wilkinson, Alfred  
     (In Memoriam)  
 Wilkinson, Miss Julia P.  
 Willcox, Orlando B.  
 Willets, Miss Maria  
 Willettes, Mrs. W. P.  
 Williams, Arthur  
 Williams, Charles B.  
 Williams, Mrs. Clark  
 Williams, David W.  
 Williams, Douglas McLean  
 Williams, Earle C.  
 Williams, Ernest  
 Williams, Henry D.  
 Williams, James D.  
 Williams, Lewis Blair  
 Williams, Mrs. Percy H.  
 Williams, Ralph J.  
 Williams, Roger B.  
 Williams, Roger B., Jr.  
 Williams, Roger H.  
 Williams, Mrs. T. R.  
 Williamson, Mrs. G. DeWitt  
 Williamson, Hervey C., M.D.  
 Willis, W. P.  
 Willson, Allan B.  
 Willstatter, A.  
 Wilmerding, Lucius  
 Wilner, Max  
 Wilsey, John Derrick, 3d.  
 Wilson, Alex. R.  
 Wilson, Alice R.  
 Wilson,  
     Rev. Andrew Chalmers  
 Wilson, Miss Antoinette  
 Wilson, Edmund B.

- Wilson, Emily B.  
 Wilson, Orme, Jr.  
 Wilson, R. Thornton  
 Wilson, Ralph W.  
 Wilson, Thomas H.  
 Wilson, W. J.  
 Wimmelbacher, Sigmund  
 Wimpfheimer, Chas. A.  
 Winchester, W. E.  
 Winslow  
     Rear Admiral C. McR.  
 Winslow,  
     Thomas Scudder, M.D.  
 Winterrowd, Wm. H.  
 Winters, Miss Mary Ray  
 Winthrop, Bronson  
 Wise, Benedict S.  
 Wise, Edmond E.  
 Wise, S. J.  
 Wise, Rev. Dr. Stephen S.  
 Wisner, Percy  
 Witbeck, Robt.  
 Witherbee, Mrs. Frank S.  
 Witte, Arthur F. A.  
 Wittmann, Joseph  
 Woerishoffer, Mrs. Anna  
 Woerz, F. W.  
 Woglom, Wm. H., M.D.  
 Wolf, Ralph  
 Wolf, Robert B.  
 Wolf, W. Irving  
 Wolf, Mrs. Walter  
 Wolfe, Lee J.  
 Wolfe, Mrs. Wm. E.  
 Wolff, Henry F.  
 Wolff, Hermann H.  
 Wolff, Mrs. Lewis S.  
 Wolff, M.  
 Wolfson, T.  
 Woltege, Mrs. Mary W.  
 Wood, Arthur E.  
 Wood, Frederick H.  
 Wood, Gilbert Congdon, Jr.  
 Wood, J. Walter  
 Wood, Otis F.  
 Wood, Mrs. Turnbull  
 Wood, Willis D.  
 Wood, Mrs. Willis D.  
 Wood, Wm. C.  
 Wood, Dr. Wilson G.  
 Woodin, Mrs. C. R.  
 Woodin, Mrs. William H., Jr  
 Woodruff, James P.  
 Woods, Carleton W.  
 Woodward, Mrs. George L.  
 Woolf, Florence K.  
 Woolley, Mrs. Park M.  
 Worcester, Wilfred J.  
 Work, Mrs. J. C.  
 Worms, Leon  
 Wormser, I. Maurice, LL.D.  
 Wormser, Richard S.  
 Wortman, Mrs. A.  
 Wortmann, Martin  
 Wracie, John  
 Wrenn, George L.  
 Wright, Alice I.  
 Wright, Mrs. Arthur  
 Wright,  
     Mrs. Willard Huntington  
 Wunderlich, Hermann  
 Wuppermann, Mrs. George  
 Wyatt, H. J.  
 Wyckoff, W. W.  
 Wyeth, Dr. Geo. A.  
 Wylie, James A.  
 Yaphé, J. C.  
 Yates, Blinn F.  
 Yates, Roy T.  
 Yawkey, Mrs. W. H.  
 Yeiser, H. C., Jr.  
 Yergason, R. M., M.D.  
 Yerkes, Leonard A.  
 Yorke, George M.  
 Young, Mrs. A. Murray  
 Young, Miss Annette  
 Young, Mrs. Clarence H.  
 Young, Horace G.  
 Young, Mrs. Mahonri M.  
 Young, Mrs. Owen D.  
 Young, Roland  
 Young, Mrs. Thomas Sears  
 Young, Mrs. William Hopkins  
 Younger, Mrs. Cole  
 Young-Hunter, John  
 Youngs, R. M.  
 Yuille, T. B.  
 Yussin, Morris  
 Zabriskie, Mrs. C. F.  
 Zabriskie, Charles L.  
 Zabriskie, Christian A.  
 Zabriskie, Miss Ethel  
 Zeh, Emil  
 Zeman,  
     Frederic David, M.D.  
 Zeno, Norman L.  
 Ziegler, Frederick J.  
 Ziegler, Miss Jessie  
 Zimmerman, Dr. G. H.  
 Zimmermann, Charles  
 Zimmermann, John  
 Zimmermann, John E.  
 Zimmermann, Marie  
 Zinaman, Jacob M.  
 Zinsser, August  
 Zinsser, Rudolph  
 Zinsser, William H.  
 Zipser, Dr. Jacques E.  
 Ziska, Aloysius L.  
 Zucker, Max  
 Zulauf, J. C.

#### ASSOCIATE MEMBERS

##### *By payment of \$3 Annually*

There are 5,100 Associate Members, whose generous support and interest are of great value in carrying forward the development of the Museum. These Members reside in every State of the Union, as well in many foreign countries. We regret that, in order to reduce the size of this report, and keep within the expenditure allowed by our restricted budget, it has been necessary to omit the printing of the list of Associate Members.

## VI. GIFTS AND ACCESSIONS, 1931

### ASTRONOMY

#### BY GIFT

- BALCH, SAMUEL W., New York City.  
5 Stereopticon slides on astronomical subjects.
- FASSBERGER, ALBERT, New York City.  
1 Small planetarium.

### MINERALOGY

#### BY GIFT

- ANONYMOUS, through Dr. George F. Kunz.  
1 Diamond (pear shape), 7.32 carats (metric).  
1 Diamond (Marquis shape), 11.34 carats (metric) Vaal River Diggings, Griqualand, S. Africa.
- BEHRMAN, IRVIN E., New York City.  
3 Samarskite, Minas Geraes, Brazil.
- BENITZ, PROFESSOR R. LEROY, Dorry, N. M.  
25 Fluorites, Dorry, N. M.
- BLANK, HORACE R., Tuckahoe, N. Y.  
1 Garnet in gneiss, Brooklyn Water Supply Tunnel No. 2, Pacific Street, Brooklyn, N. Y.
- BLATT, M., New York City.  
1 Medallion of Halite, Wieliezka, Poland.  
1 String of Halite beads, Wieliezka, Poland.
- BROWN, BARNUM, New York City.  
1 Sapphire in matrix, Yogo Creek Mine, Mont.
- GOVERNMENT OF BRITISH GUIANA.  
1 Potarite, Potaro, British Guiana.
- COOPER, MORRIS, New York City.  
1 Vesuvianite, Haslan near Eger, Czechoslovakia.  
1 Halite, Death Valley, Cal.
- CUNTZ, H. F., New York City.  
350 Miscellaneous duplicate minerals.
- DINGELDEIN, KARL, New York City.  
4 Jaspers, Germany.
- DRUMMOND, DR. I. WYMAN, New York City.  
Set of 4 inscribed jade tablets (1851-1861).  
Two of a set of inscribed tablets.  
Jade (nephrite) plate, 9½ inches in diameter.  
Series of 10 jade axes and celts from Swiss Lakes.  
Ancient jade tube (image of earth).  
String of 23 jade beads, Zapotec (Mexican), culture.  
String of 27 cylindrical jade beads.  
15 small jade cylinders  
2 Jade finger rings  
1 Double cylinder  
4 Cylindrical jade cups.  
4 Carved jade bowls.  
4 Small jade panel pieces carved in elaborate detail.  
1 Jade scepter carved with images of the eight immortals.  
2 Small jade carved figures.  
3 Small jade pendant pieces.  
2 Elaborately carved jade pendant ornaments.  
2 Elaborately carved jade Manchu hairpins.  
4 Elaborately carved jade hairpins.  
1 Jade spoon.  
1 Old jade vase (Han period).  
1 Old jade buckle (Ming period).  
1 Old jade seal.  
1 Jade pomander.  
1 Jade fan holder.  
1 Jade brush handle.  
1 Jade tablet (Han period).  
1 Jade dagger handle (Hindoo inlay work).  
1 Jade dagger handle.  
6 Jade bracelet rings.  
1 Old jade buckle (Ming period).  
2 Jade carved tortoises.  
3 Carved jade cups (Ming period).

- 1 Small inscribed tablet.  
 1 Old jade tube (Han period).  
 3 Jade covered vases.  
 2 Jade tubes.  
 1 Jade carved disk.  
 1 Jade inscribed disk.  
 1 Large jade carved ornamental piece.  
 1 Jade brush and water holder.  
 1 Jade bell, handsomely carved.  
 1 Old jade wine jar.  
 1 Jade wine jar (Hindoo motive).  
 1 Mythological jade animal form of a goat (Ming period).  
 1 Jade vase (Ming period).  
 1 Jade dish elaborately carved (Ming period)  
 1 Cup-shaped bowl of white jade with animal handles (Ming period).  
 1 Carved jade horse (Ming period).  
 1 Flat dish, white jade carved with bats (K'ien Lung period).  
 1 Jade mandarin belt buckle (K'ien Lung period).  
 1 Moss-agate cup decorated with poem (Early K'ien Lung period).  
 1 Serpentine mythological animal (Ming period).  
 1 Old serpentine ring (Han period).  
 1 Carved rutilated quartz horse.  
 1 Cup carved from rhinoceros horn.  
 1 Pair of steatite seals, surmounted by toads.  
 1 Set of three steatite seals, inscribed.  
 1 Amber ball, 3 inches in diameter, carved from Burmese amber.  
 1 Soapstone piece carved as mythological animal.  
 1 Enameled sceptor.  
 1 Large serpentine bell.  
 1 Large serpentine carved figure of a pig.  
 1 Large serpentine vase (Han period).  
 1 Large serpentine disk (image of heaven).
- 1 Carved steatite piece, 2 figures.  
 2 Large carved wall ornaments of slate.  
 1 Native copper, Lake Superior, Mich.  
 5 Limonites, Red Bank, N. J.  
 1 Tourmaline, Pala, Cal.  
 18 Chalcedony geodes, some containing water, southern Brazil.  
 EASTMAN, G. C., Grass Valley, Cal.  
 6 Quartz crystals, Cal.  
 EHRMANN, MARTIN L., Hoboken, N.J.  
 1 Carved Amber, Burma.  
 ELLER, A. B., New York City.  
 1 Aurichalcite, Sullivan County, N. Y.  
 FIENBERG, PHILIP, New York City.  
 1 Chabazite from subway excavation, Eighth Avenue and 155th Street, N. Y. C.  
 GOULD, CHARLES, Oklahoma Geological Survey, Okla.  
 2 Chalcedony, Amarillo, Tex.  
 HARSTAD, A. J., Wolf Creek, Mont.  
 4 Pyrites, Dighton, Kan.  
 HAWKINS, ALFRED C., New Brunswick, N. J.  
 4 Almandite in muscovite, Spruce Pine, N. C.  
 HODLEY, CHARLES W., Brooklyn, N. Y.  
 1 Torbernite, 4 miles west of Little Switzerland, N. C.  
 HOLMES, LINDSAY D., New York City  
 2 Beryl, Mt. Apatite, Me.  
 2 Muscovite, Franklin, N. J.  
 1 Quartz, Buckfield, Me.  
 1 Tourmaline, Portland, Conn.  
 JONES, WALDO, CHULA, Va.  
 1 Epidote, Madison County, Va.  
 1 Williamsite, Conownigo, Md.  
 McCROSSIN, E. F., New York City.  
 8 Calcites and aragonites, Col.  
 McQUIRE, H. F., Ontario, Canada.  
 1 Microcline, McKeller Township, Ontario, Canada.  
 1 Samarskite, Conger Township, Ontario, Canada.

- MORTON, JAMES F., Paterson, N. J.  
 1 Gypsum, Cape Sharp, N. S.  
 1 Magnetite, Cape Blomidon, N. S.  
 1 Torbernite, Spruce Pine, N. C.
- SIMPSON, WILLIS H., New York City.  
 3 Metallic Arsenic, Chile.
- VARNI, STEPHEN, New York City.  
 1 Amethyst star-shaped pendant.  
 1 Citrine star-shaped pendant.
- VLISMAS, JOHN, New York City.  
 1 Carved aragonite dish, Northern Italy.  
 1 Polished aragonite, Northern Italy.  
 1 Carved dish of Roumanian aragonite.  
 1 Flint, Surrey, Eng.  
 4 Quartzite, Butte, Mont.
- WHITLOCK, HERBERT P., New York City.  
 1 Amber dress ornament in old Chinese carving, Burma.  
 1 Fluorite necklace, 100 beads, modern Chinese, carved.  
 1 Carved tourmaline pendant, China.
- WILDE, GEORGE O., New York City.  
 1 Amethyst quartz, Uruguay.  
 1 Quartz, Madagascar.  
 1 Tourmaline in quartz, Madagascar.
- WILLIAMS, H. S., New York City.  
 2 Magnetite, Haddam, Conn.
- WILSON, CHARLES E., New York City.  
 100 Miscellaneous duplicate minerals, Andes Mts.
- HODLEY, CHARLES W., Brooklyn N. Y.  
 1 Datolite, Westfield, Mass.  
 1 Pyrrhotite, Kisbanya, Roumania.
- MORTON, JAMES F., Paterson, N. J.  
 2 Serpentine, Prospect Park, N. J.
- BY PURCHASE
- BRUCE, MATILDA W., FUND  
 1 Agate, Palmeiras, Brazil.  
 1 Moss-agate, Morristown, N. J.  
 2 Moss-agate cups, China.  
 2 Amethyst, Brazil.  
 1 Analcite on prehnite, Paterson, N. J.  
 1 Beryl, Newry, Me.  
 1 Datolite on prehnite, Paterson, N. J.  
 1 Dolomite and thomsonite, Paterson, N. J.  
 1 Calcio-tantalite, Pribara, West Australia.  
 1 Cannazzarite, Lipari Islands, Italy.  
 1 Celestite and calcite, Cienciana, Italy.  
 1 Columbite, Newry, Me.  
 1 Fluorite, New South Wales, Aus.  
 2 Fluorite, Cave-in-Rock, Ill.  
 1 Gmelinite on analcite, Paterson, N. J.  
 1 Gmelinite and datolite, Paterson, N. J.  
 1 Ilmenite, Arendal, Norway.  
 3 Jasper trays, Bear Lake Co., Idaho.  
 1 Korteite, Wathlingen, Hanover, Germany.  
 2 Laumontite on prehnite, Paterson, N. J.  
 1 Lessingite, Kysthym, Urals.  
 1 Marcasite, Ottawa, Canada.  
 1 Margarosanite, Langban, Sweden  
 1 Molybdophyllite, Langban, Sweden.  
 1 Moonstone (engraved), Ceylon.  
 1 Morganite (carved), Madagascar.
- BY EXCHANGE
- ANINOFF, DR. GREGORI, Stockholm, Sweden.  
 1 Toernebohmite in cerite, Rid-darhyttan, Sweden.
- COOPER, MORRIS, New York City.  
 1 Smoky quartz, Minas Geraes, Brazil.

- 1 Muscovite (rose mica), Taos, N. M.  
 1 Natrolite, West Paterson, N. J.  
 2 Opals, Queretaro, Mex.  
 2 Pectolites, Paterson, N. J.  
 3 Peristerite, Majunza, Madagascar.  
 1 Phosgenite, Monte Poni, Sardinia.  
 1 Prehnite and calcite, Paterson, N. J.  
 8 Prehnites, Paterson, N. J.  
 1 Pseudo cast, Paterson, N. J.  
 1 Rose quartz, Brazil.  
 1 Carved rock crystal sphere and elephant, Japan.  
 1 Steinerite, Ruashi, Katanga, Belgian Congo.  
 2 Scapolite, Minas Geraes, Brazil.  
 1 Spodumene, Goshen, Mass.  
 1 Tourmaline, Sahantana, Madagascar.  
 1 Tuscholite, Ontario, Canada.  
 1 Wathlingerite, Wathlingen, Hanover, Germany.
- WALLACE MEMORIAL FUND  
 1 Moss-agate tray, China.  
 2 Carved bloodstone deer, China.  
 2 Chalcedony elephants, China.  
 1 Coral pendant, China.  
 1 Carved fluorite vase, China.  
 1 Jade carving, China.  
 1 Rose quartz pendant, China.  
 1 Smoky quartz carved figure of Prosperity and Good Fortune, China.  
 15 Cut rhodolites, 37.80 carats, Ceylon.  
 1 Cut green tourmaline, 8.50 carats, Africa.  
 1 Carved turquoise lion, China.  
 1 Tourmaline pendant, China.  
 1 Cut zircon, 93.4 carats, Kandy, Ceylon.
- BY TRANSFER  
 ANTHROPOLOGY, DEPARTMENT OF, MUSEUM.  
 Study collection of jade, 163 specimens.
- GEOLOGY  
 BY GIFT  
 BAKKEN, OLAF H., Vining, Minn.  
 11 Specimens: 1 fossil bison tooth, chert, agate and chalcedony, from Minn.  
 BECHTOLD, DR. E., Belleville, Illinois.  
 6 Specimens of blastoid, *Pentremites conoideus*, Mississippian age, from St. Clair County, Belleville, Ill.  
 BERNHEIMER, CHARLES L., New York City.  
 700 Specimens: Rocks, fossils, minerals, shells, arrowheads, stone hammers, agatized wood, Canyon Diablo meteorite.  
 BRENNAN, DR. THOMAS, Southern Pines, N. C.  
 Native copper in amygdaloidal rock, Keweenaw Peninsula, Mich.  
 BROWN, DR. A. SELWYN, New York City.  
 13 Specimens: Tin ore from Gundle Mine, Port Macquari, New South Wales, Australia; weathered calcareous sandstone from San Antoine, Nev.  
 BROWN, BARNUM, New York City.  
 2 Specimens: *Unios*, Delaware River, Culbertson County, Tex.  
 CANFIELD, R. W., Middletown, N. Y.  
 Iron pyrites (concretionary form).  
 CAVENAR, G. C., Nettleton, Ark.  
 1 Piece of granite from Jonesboro, Ark.  
 CHESBROUGH, WALTER B., New York City.  
 1 Weathered iron pyrites from White Plains, N. Y.



- COOPER, MORRIS, New York City.  
5 Specimens magmatic granite and weathered concretion from Rockport, Mass.
- DE JORIO, ROBERT H., New York City.  
Fossil plant showing leaf scars, from Kingston, New York.
- DRENER, DAN, New York City.  
Fossil cephalopod from Hooker Island, Franz Josef Land.
- DRUMMOND, DR. J. W., New York City.  
4 Recent and fossil crinoids from Havana, Cuba; Misaki, Japan, and Crawfordsville, Ind.
- DUCKWORTH, A. S., Cape Girardeau, Mo.  
Fossil crab, *Avitelmessus grapsoideus*, Rathbun Upper Cretaceous, from Wilmington, N. C.
- ELLSWORTH, LINCOLN, New York City.  
1 Metal model of Dornier-Wal Arctic plane, "Amundsen-Wal, N 25"; 1 photograph of "Wal in the Ice" with the caption "130 miles from the North Pole."  
12 Specimens: Fossil algæ, arkosic limestone, sandstone, limestone pebble, granite from Golden Canyon, 2½ miles southeast of Furnace Creek Ranch, Death Valley, California; 12 specimens Fossil algæ, Pre-Cambrian, from mouth of Bright Angel Canyon, Grand Canyon, Ariz.  
1 Water-color painting of Grand Canyon at mouth of Bright Angel Canyon, looking northwest, Painting by Wildforss.  
1 Photograph of Phantom Ranch, Grand Canyon, Arizona; 4 photographs of Tertiary Lake, Golden Canyon; 2 photographs of Golden Canyon, Death Valley, Cal.
- 3 Specimens of Fossil algæ, Pre-Cambrian, from Golden Canyon, 2½ miles southeast of Furnace Creek Ranch, Death Valley, Cal.
- 1 Map of Death Valley; 2 photographs, Black Mountains and Death Valley, Cal.
- EYERDAM, WALTER J., Seattle, Wash.  
25 Specimens: Rocks and minerals from Kamchatka volcanoes and hot springs; whale oil from Baranof Island, Port Armstrong, Alaska; fossil pelecypod, *Leaia Bæntschians* near Saarbrücken, Germany.
- GEISSHARDT, F. A., New York City.  
Clay ironstone concretion from Scranton, Penn.
- GEOLOGY, DEPARTMENT OF, MUSEUM.  
40 Specimens of red and pink granite used in Roosevelt Memorial and the Whitney Wing of the American Museum, from Marble Falls, Texas, and Milford, Mass.  
36 Specimens of granite used in curbing at 77th Street and Columbus Avenue, New York City, from Clark Island, Knox County, Me.
- GLENNY, FRED H., Hamilton, N. Y.  
Head of a trilobite, Hamilton formation, from Hamilton, N. Y.
- GOODWIN, G. G., New York City.  
4 Samples of rocks, selenite crystal and ironstone concretions, from Tug Bulah, Kagabitan, N. Paroosk, Siberia.
- HAPP, STAFFORD C., New York City.  
Quartzite specimen from exposure along U. S. Highway, Route 6, Smith's Corners, Orange County, N. Y.
- HATCH, VERNON D., Circleville, N. Y.  
Volcanic bomb found on the island of Hawaii.

- HAVILAND, SAMUEL, Harrison, N. Y.  
2 Specimens: weathered metamorphosed rock (mica schist) from Harrison, N. Y.
- HUBBARD, LYLE S., Brooklyn, N. Y.  
Piece of wood showing incipient fossilization from Ottawa Hills, Toledo, Ohio.
- HYNDMAN, J. P. B., New York City.  
Samples of sand and pebbles, Reykjavik harbor, Iceland; specimens of Icelandic lava and Icelandic basalt from Thingvellir, Iceland.
- JAHN, WILLIAM H. E., New York City.  
3 Specimens of gypsum from Belgian Congo, Africa.
- LARIMER, JOHN S., Glendive, Mont.  
40 Pelecypods, cephalopods and plants from Cedar Creek anticline, near Glendive, Mont.
- LEE, WYLIE K., Grand Rapids, Mich.  
Chert nodule from France.
- LUDLOW, L. M., Parkersburg, W. Va.  
Sample of glacial clay from Mineral Wells, Wood County, W. Va.  
Fossil ammonite from Denton County, Tex.
- MACROSEY, MISS HELEN, New York City.  
Specimen of shaly limestone from Deal Beach, N. J.
- MANLEY, EDWARD, New York City.  
25 Rock specimens from Walrus Is'and, Shannon Islands, Fyne Fjord, Clavering Island, east coast of Greenland.
- MARTIN, S. D., Grand Junction, Colo.  
7 Shells, Jurassic Morrison formation, from 12 miles south of Grand Junction, Colo.
- MCCARTHY, KENNETH, Port Maria, Jamaica, British West Indies.  
4 Fossil pelecypods from Port Maria, Jamaica, B. W. I.
- MCCLAREN, J. D., Pawhuska, Okla.  
8 Pelecypods and gastropods from Osage County, Okla.
- MINERALOGY, DEPARTMENT OF, MUSEUM.  
Banded quartzite from Butte, Mont.
- PETERS, DR. JOHN L., New York City.  
Clay-ironstone concretion from Woodland, Ulster County, N. Y.
- PIKE, MRS. DRUCILLA SCHERMERHORN, New York City.  
Painting: Copper Mine at Bingham, Utah, approximate size 4×8 feet; painted in 1918 by Walter J. Cox.
- RANEZEEL, WALTER ANTHONY, Los Angeles, Cal.  
2 Photographs showing erosions from Death Valley, Cal.
- REEDS, DR. CHESTER A., New York City.  
30 Specimens invertebrate fossils of Ordovician age, from Endless Caverns, New Market, Va.
- RUELLAN, CAPT. S., Carlsbad N. M.  
Potash ore, Sylvite, K<sub>2</sub>O, deposit in U. S. Potash Mine, near Carlsbad, N. M.
- SANDERS, J. W. SCOTT, Englewood, Fla.  
25 Fossil invertebrates from Tarpon Springs, Fla.; Englewood, Lee County, Collier County and Tamiami Canal, Fla.
- SMITH, E. R., Greencastle, Ind.  
Clay sample from Greencastle, Ind.
- STONE, JULIUS F., Columbus, Ohio.  
Album containing photographs of canyons of the Green and Colorado rivers; accompanied by list of captions.
- THEARLE, R., Leeds, N. Y.  
Volcanic bomb.
- TOOTH, EDWARD, Madison, N. Y.  
4 Fossils in limestone from Porto Rico.
- TRAIN, PERCY, Lower Rochester, Nev.  
Fossil willow leaf from Trout Creek, Harney County, Ore.
- U. S. NATIONAL MUSEUM (A. WETMORE), Washington, D. C.

Cast of the Owens Valley meteorite,  
from Owens Valley, Cal.

VERTEBRATE PALÆONTOLOGY, DE-  
PARTMENT OF, MUSEUM.

142 Specimens pelecypods and  
gastropods, Cretaceous, from  
Judith River, 4 miles southeast of  
Shawmut, Mont.

WALTER, HAROLD J., New York City.

91 Fossils in limestone from shaft  
of water tunnel, 181st Street and  
Bryant Avenue, New York City.  
2 Shark teeth from phosphate rock  
in Fla.

WELLS, P. J., Jersey City, N. J.

Pebble found in pothole at Middle-  
town, Conn.

WILLIAMS, MACD., Flushing, L. I.,  
N. Y.

Stalactitic iron formation from  
Grove Spring, Mo.

WINSER, MISS BEATRICE, Newark,  
N. J.

11 Specimens clay dogs found on  
Lincoln Highway on Route 25, 2  
miles east of Newark, N. J.

BY PURCHASE

2 Specimens of sawed wood replaced  
by limonite from serpentine quarry,  
3 miles northwest from center of  
Easton, Penn.

1. Tlacotepec iron meteorite, 3,130  
grams, from Puebla, Mex.

1 Specimen fossil *Ceratites* found near  
Wurzberg, Germany.

352 Specimens Upper Triassic fossils,  
from Brock Mountain, Shasta  
County, Cal.

62 Specimens of fossil leaves from  
Trout Creek, Harney County, Ore.

3 Specimens: Adams County, Colo-  
rado, aërolite, 413 gr.; Puente del  
Zacate, Mex., siderite, 420 gr.;  
Newport, Ark., siderolite, 560 gr.

Iron meteorite, 3,885 grams, Nativi-  
tas, Tlaxcala, Mex.

BY EXCHANGE

DUCKWORTH, A. S., Cape Girardeau,  
Mo.

76 Invertebrate fossils (mostly mol-  
lusks) from the Ripley formation,  
Coon Creek, western Tenn.

ELLSWORTH, LINCOLN, New York  
City.

1 Owens Valley, Cal., meteorite  
weighing 50 lbs.

BY EXPEDITION

CENTRAL ASIATIC EXPEDITION

2 Samples of sand, field No. 277,  
obtained on June 21, 1922, at the  
salt pan north of Uskuk Moun-  
tains, Mongolia.

REEDS, DR. CHESTER A.

Fossils in limestone, from shaft of  
water-tunnel at 181st St. and  
Bryant Ave., collected at street  
filling, East 177th Street and Ft.  
Eley Avenue, Bronx, 2 trays.

BY TRANSFER

ANTHROPOLOGY, DEPARTMENT OF,  
MUSEUM.

1 Bottle sand from center of winter  
hut at Camp Clay, Cape Sabine  
(Pim Island) off Ellesmere Land,  
Greenland.

92 Specimens Invertebrate fossils  
from Illinois; shark teeth from  
Point Sal, Santa Barbara, Cal.;  
fossil ammonite from Willow  
Creek, Wyo.

43 Specimens fossils, corals and  
concretions; (M 2083) fossil  
corals from Indian graves, Cen-  
tral N. Y.; (M 2054) ammonite  
from Central N. Y.; (K 698)  
brachiopods (*Spirifer*), W. Va.;  
(D 1788) ½ cast of gastropod,  
Forrestville, Md.; (56) clay con-  
cretion from United States; (F  
110) trilobite from Indiana;  
chert concretion, Boone County,  
Mo.

- 19 Specimens; samples of rock taken along the Yangtze River in Hupeh and Szechuan provinces, China.
- COMPARATIVE ANATOMY, DEPARTMENT OF, MUSEUM.
- 14 Corals, pelecypod and gastropod casts, from Havana, Cuba.
- MAMMALOLOGY, DEPARTMENT OF, MUSEUM.
- 2 Limonite specimens from River Amaronor, Brazil.
- MINERALOLOGY, DEPARTMENT OF, MUSEUM.
- 1 Vial of meteoric dust; fell at Nome, Alaska, November, 1907.
- ORNITHOLOGY, DEPARTMENT OF, MUSEUM.
- 230 Specimens of basaltic rock, found in stomach of an emperor penguin, Byrd Antarctic Expedition, Ross Barrier, Antarctica.
- VERTEBRATE PALÆONTOLOGY, DEPARTMENT OF, MUSEUM.
- Cast of the interior of a fossil ammonite from the southwestern part of the United States.
- VERTEBRATE  
PALÆONTOLOGY**
- BY GIFT
- ASHLEY-MONTAGU, DR. F. M., New York City.
- Fossil bird metatarsal, from Harrington Sound Quarry, Bermuda.
- BROWN, F. MARTIN, Colorado Springs, Col.
- 18 Specimens: teeth recovered from gravel bed back of Gan's Store on the Plaza, Santa Fé, N. M., from a depth of 12 feet below the present surface.
- DOUGHTY, GEORGE B., Post, Tex.
- Fragments of Triassic reptiles from near Post, Tex.
- DREVERMANN, DR. FRITZ, Frankfurt a. M., Germany.
- Cast of *Placodus* skull.
- DUCKWORTH, A. S., Cape Girardeau, Mo.
- 50 Specimens invertebrate and vertebrate fossils (the latter, consisting of Mosasaur and Crocodile specimens, a gift to the Department of Vertebrate Palaeontology), from Tennessee and Mississippi.
- FIGGINS, J. D., Denver, Col.
- 1 Cast of arrowpoint from Angus, Neb.
- 2 Casts of right and left lower molars of *Archidiskodon meridionalis nebrascensis*, from Angus, near Hastings, Neb.
- 2 Casts of Folsom artifacts.
- HARBICHT, DARWIN, Ingomar, Mont.
- Plesiosaur toe bones, and several shark teeth from near Ingomar, Mont.
- HECKLINGER, ROGER S., Baltimore, Md.
- Cast of Mastodon tooth from Calvert formation, Miocene, Governor Run, Md.
- LEFOW, MORRIS, Sonyea, N. Y.
- 3 Elk teeth (Recent?) from Craig Colony, Sonyea, N. Y.
- MAGRAW, R. M., Sego, Utah.
- Dinosaur footprint, 4' long by 3' wide, from Sego, Utah.
- MARTIN, S. D., Grand Junction, Col.
- 7 Fossil shells (transferred to the Department of Geology), found 12 miles south of Grand Junction, Col.; 1 Jurassic dinosaur limb bone, associated with *Unios* from the same locality.
- MCGRAW, BOYD, St. Louis, Mo.
- 2 Casts of crown of *Equus major* (?) upper right molars 2 and 3 from Shannon County, Mo.

- McLHENNY, E. A.**, Avery Island, La.  
Miscellaneous fossil teeth and bones from Avery Island, La.
- MILLER, C. FRANCIS**, Caldwell, Idaho.  
Articular end of scapula (horse?) from gravel deposit north of Vale, Ore.
- PACKARD, FRED M.**, Passaic, N. J.  
1 Suid tooth from Rutherford, bank of Passaic River, N. J.
- RUELLAN, CAPTAIN S.**, Carlsbad, N. M.  
1 Sample specimen from the U. S. Potash Company's Mine, near Carlsbad, N. M.
- SILBERLING, ALBERT C.**, Harlowton, Mont.  
*Unios* and gastropods from Judith River, Mont.
- SOUTH AFRICAN MUSEUM**, Cape Town, S. Africa.  
Cast of type molar of *Loxodonta prima* Dart from Africa.  
Cast of type molar of *Loxodonta africana* var. *obliqua*, S. Africa.
- BY EXCHANGE
- CASE, DR. E. C.**, Ann Arbor, Mich.  
Cast of skull of *Rhytidon* (marine reptile), cast of skull of *Brachysuchus* (Phytosaur).  
4 Casts of molar teeth of *Elephas* found in a marl bed on the side of the Lagrange moraine near Union, Porter Township, Cass County, Mich.
- COOPER, C. FORSTER**, Cambridge, Eng.  
Left lower jaw and right molar of *Elephas antiquus* from Barrington, near Cambridge, Eng.
- DUCKWORTH, A. S.**, Cape Girardeau, Mo.  
73 Specimens of a collection of invertebrates from Coon Creek, Tenn.
- MEMPHIS PARK COMMISSION**, Memphis, Tenn.  
2 Slabs of fossil tracks from No. 11 Mine, Carbon Hill, Ala.
- THORPE, DR. MALCOLM R.**, New Haven, Conn.  
2 Casts of left upper teeth and horn of *Tetrameryx*.
- WIMAN, C.**, Upsala, Sweden.  
2 Skulls, 1 pair of jaws, 2 half lower jaws, and 7 casts of *Chilotherium*.
- BY EXPEDITION
- MISSION ZOOLOGIQUE FRANCO-ANGLO-AMERICAINE.**  
3 Cases of fossil bird and mammal specimens from deposits of Madagascar.  
3 Boxes containing second shipment of the Madagascar Collection, Pigmy Hippopotamus and Crocodiles. All Pleistocene fossils from Deposits of Madagascar.
- WESTERN TRIASSIC AND CRETACEOUS EXPEDITION:**  
**BROWN, BARNUM**  
Miscellaneous fossil invertebrates, 1 jar of amphibians, and 1 pasted section of fossils from near Folsom, N. M.  
6 Boxes of dinosaur specimens (camptosaurs?) from near Billings, Mont.  
12 boxes of dinosaurs from north of Billings, Mont.  
4 Labyrinthodonts (?) from Middle Triassic, 13 miles north-east of Cameron, Ariz.; 1 complete skeleton and 4 fragmentary specimens.
- KAISEN, PETER C.**  
Fossil collection from Judith, Mont.

SCARRITT PATAGONIAN EXPEDITION.  
About 1500 fossil specimens from the  
pre-Santa Cruz beds of Patagonia.

### LOWER INVERTEBRATES

BY GIFT

AGUAYO, PROF. C. G., Cambridge,  
Mass.

540 Specimens identified land shells  
(approximate number of species  
90) from Cuba.

ANONYMOUS, Parris Island, S. C.

2 Sand dollars found on beach at  
Bay Point, near Beaufort, S. C.

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

38 Specimens land shells from  
Porto Rico.

367 Specimens land shells (approximate  
number species 40) from  
Porto Rico.

BRODY, L., New York City.

4 Crustaceans and 151 land shells  
(10 species) from West Indies.

BROWN, F. A., New York City.

10 Specimens barnacles (2 species),  
from humpback whale, from  
Lat. 55.35.S., Long. 23 11 W.

CLARK, MRS. JAMES L., New York  
City.

2 Specimens coral, *Fungia* sp. from  
Red Sea.

CUNTZ, H. F., New York City.

Collection of approximately 2410  
shells and corals.

CURRAN, DR. C. H., New York City.

141 Specimens invertebrates:  
sponges, crustaceans, isopods,  
amphipods, myriapods, ascidians,  
celenterates, from Babylon, L.  
I., and Cold Spring Harbor, L. I.

DE PEYSTER, F. A., New York City.

1 Lobster claw, *Homarus ameri-*  
*canus* Milne Edwards, 1837, from  
Martha's Vineyard, Mass.

FALKENBACH, OTTO, New York City.

1 Crustacean, *Emerita talpoida* (Say),  
1817, from Jones Beach, L. I.

FERGUSON, WILLIAM S., Brooklyn,  
N. Y.

1 Sand dollar, *Echinarachnius* (*Den-*  
*draster*) *excentricus* Escholtz, 1829,  
from Ocean Beach, Cal.

FIRTH, FRANK, Washington, D. C.

3 Isopods, *Idothea metallica* Bosc,  
1802, from off Ambrose Channel,  
N. Y.

GLENNY, F. H., Hamilton, N. Y.

13 Land shells (3 species) found on  
Limestone Rock, Hamilton, N. Y.

6 Specimens fresh-water shells from  
pond, Colgate University campus,  
Hamilton, N. Y.

HATT, MR. R. T., New York, N. Y.

9 Specimens parasitic worms from  
mouth of a Chimpanzee (*Pan*  
*satyrus*).

KORSCHNER, H. F., New York City.

2 Specimens *Siliqua patula* (Dixon)  
var. *alta* B. and S., marine shells,  
from Kukak Bay, Ala.

LESTER, THEODORE R., Amagansett,  
L. I., N. Y.

1 Specimen *Emerita talpoida* (crus-  
tacean) from Amagansett, L. I.,  
N. Y.

LIMEKILLER, FRED, New York City.

2 Specimens *Fulgur canaliculata*  
(mollusks), from Freeport, L. I.

1 Specimen *Ptericola pholadiformis*  
Lamarck (mollusk), from Free-  
port, L. I.

1 Squid *Loligo pealii* (Lesueur),  
1821, from Freeport, L. I., N. Y.

2 Specimens *Fulgur canaliculata*  
(mollusks) from Freeport, L. I.

LUTZ, DR. FRANK E., New York  
City.

Parasitic copepod on goldfish,  
from aquarium in Ramsey, N. J.

MEADOWCROFT, KIRK.

235 Specimens land shells from  
Vinales, Cuba.

MINER, DR. ROY W., New York City.

Colony of *Bugula turrita* (bryozoan)  
from Watch Hill, Rhode Island.

- NAGELES BROTHERS, New York City.  
1 Specimen *Ostrea virginica* (oyster), with 38 pearls, from Hempstead Bay, L. I.
- NEW YORK AQUARIUM, New York City.  
1 Specimen *Homarus americanus* Milne Edwards, 1837 (lobster), 16¼ lbs. caught off Sandy Hook, N. J.
- PEARSE, PROF. A. S., Durham, N. C.  
Approximately 500 specimens—8 vials, identified annulates (5 species) from Dry Tortugas, Fla.
- PETRI, W. M., Clinton Dock, Conn.  
Abnormal lobster claw from off Clinton, Conn.
- PRATT, RICHARD, Brooklyn, N. Y.  
Fiddler crab, *Uca minax* (Le Conte), 1855, from Clinton, Conn.
- ROSENKRANZ, CLARENCE C., New York City.  
30 Marine shells, 2 echinoderms, from Mozambique, Africa.
- SANFORD, DR. L. C., New Haven, Conn.  
Fragments of burrowing crustacean, *Emerita talpoida* Say, 1817, from Tuckanuck Island, Mass.
- SHELLBACH, LOUIS, New York City.  
3 Specimens *Lampsilis gracilis* (mussel) Barnes, from Big Lake, Town of Red Springs, Wis.
- SCOTT, MRS. ROBERT, Uplands, Mt. Kisco, N. Y.  
Parasitic worm, *Paragordius varius* (Leidy). 1851. Host: Cricket from Mt. Kisco, N. Y.
- TREADWELL, PROF. A. L., Poughkeepsie, N. Y.  
175 Specimens identified annulates, including 3 paratypes and 3 types, 41 species; 2 specimens unidentified Gephyrea and 11 leeches. Various localities.  
192 Specimens identified annulates, including 3 paratypes (40 species), from various localities.
- VAN NAME, DR. W. G., New York City.  
3 Specimens marine shells, *Siliqua patula* (Dixon) and *Paphia staminea* (Conrad), from Crescent City, Cal., and Nainaimo, Vancouver Island, B. C.
- WAKELEY, J. B. C., AND BRODY, L., New York City.  
12 Land shells from Cuba, 4 species.
- WANGLER, KENNETH, Bayonne, N. J.  
Crab with abnormal claw, *Callinectes sapidus* Rathbun, 1895, from foot of 27th Street, Newark Bay, Bayonne, N. J.
- WEBBER, J. A., Leonia, N. J.  
Section of pile showing borings by *Teredo*, from West Crow Island, near Freeport, L. I.
- WILLIAMSON, J. E.,  
2 Leeches, found in shark's mouth, from Nassau, Bahamas.
- ZETEK, DR. JAMES, Balboa, Canal Zone.  
15 Specimens isopods—3 species, from St. Andrews Islands, Colombia, S. A.

## BY EXCHANGE

- MUSEUM OF COMPARATIVE ZOOLOGY, Cambridge, Mass.  
198 Specimens identified echinoderms (19 species) from various localities.

## BY EXPEDITION

- AFRICAN ANATOMICAL EXPEDITION OF COLUMBIA UNIVERSITY AND AMERICAN MUSEUM OF NATURAL HISTORY.  
5 Specimens parasitic worms (from subcutaneous tissue of a Gaboon viper) French Cameroon, Africa.
- ARCHBOLD, RICHARD.  
14 Myriapods and 1 crustacean from Madagascar.

- BOEKELMAN, H. J. EXPEDITION.  
24 Specimens land shells from Cozumel Islands, Yucatan.
- BYRD ANTARCTIC EXPEDITION  
(Through Department of Ornithology)  
4 Beaks of *Psychroteuthis glacialis* Thiele (squid) from Antarctica.
- CHAPIN CONGO EXPEDITION.  
19 Specimens crustaceans; 2 mollusks; 6 myriapods 3 annulates; 123 Parasitic worms. From Belgian Congo  
3 Specimens myriapods from Lukolela, Belgian Congo.
- LUTZ, DR. FRANK E.  
172 Specimens amphipods, copepods, parasitic worms and freshwater shells (6 species), from Yellowstone National Park, Wyo.
- BY TRANSFER
- ENTOMOLOGY, DEPARTMENT OF, MUSEUM.  
3 Myriapods from Cordoba, Mex., and Rokko, Hyogoken, Japan.  
1 Crab, 1 land shell, from Cordoba, Mex.
- HERPETOLOGY, DEPARTMENT OF, MUSEUM.  
10 Specimens of nematodes from intestines of a lizard, from Monte Cristi, Dominican Republic.
- ENTOMOLOGY
- BY GIFT
- ANGELL, JOHN W., New York City.  
Beetles: 9 *Platycerus keeni* Casey, from Masset, B. C.  
5 Specimens of beetles from various parts of the United States.
- ANTHROPOLOGY, DEPARTMENT OF, MUSEUM.  
195 Insects (different orders) from British Honduras.
- ATWATER, MRS. L. R. B., Monte Cristi, Santo Domingo, W. I.
- 9 Butterflies and moths from Santo Domingo.
- BARTLETT, CAPTAIN R. A., New York City.  
75 Insects.
- BEEBE, DR. WILLIAM, New York City.  
170 Specimens—types of 126 species of flies, from British Guiana.
- BELL, E. L., Flushing, L. I., N. Y.  
478 Lepidoptera (Butterflies).  
767 Insects, various orders, from Jamaica, B. W. I.  
92 Coleoptera, from Baron Hill, Trelawney Parish, Jamaica, B. W. I.  
100 Lepidoptera from Panama.
- BELL, WILLIAM B., New York City.  
11 Stingless bees, from British Honduras.
- BRODY, LOUIS, AND WAKELEY, J. B. C., New York City.  
2 Centipedes (alive).
- CHURCH, F. E., New York City.  
11 Butterflies and moths, 2 pupal cases; 1 caterpillar; 3 larval workings from Fla.
- COCKERELL, DR. T. D. A., Boulder, Col.  
90 African insects.  
8 Beetles and grasshopper.  
About 150 specimens bees and a few other insects from China, Morocco, Siam and other parts of the Old World.  
About 50 specimens (mostly bees and including the type of *Anthophora patruelis* Cockerell), mostly from China.
- COOPER, KENNETH, Flushing, L. I., N. Y.  
Beetle from Flushing, L. I., N. Y.
- CRAMPTON, DR. G. C., Amherst, Mass.  
About 200 Diptera (flies) from Bolivia.
- DAVIS, WILLIAM T., Staten Island N. Y.



- Cicada, *Dicerobrotica cleavesi*, from Grand Cayman, B. W. I.
- DOZIER, HERBERT L., Washington, D. C.  
 11 Specimens: type and paratype material of scale insects or true bugs, *Ceroplastes giganteus*, from Haiti.  
 3 Bees from Haiti.
- ENDERS, DR. R. K., Baltimore, Md.  
 11 Vials parasites of mammals, from Barro Colorado, Canal Zone.
- ENGELHARDT, GEORGE, Hartsdale, N. Y.  
 100 or more unidentified Hymenoptera from Frio County, Tex.
- ENTOMOLOGICAL BRANCH, DEPT. OF AGRICULTURE, Ottawa, Ontario, Canada.  
 4 Specimens of flies.  
 40 Adult corn-borers and about 100 representatives of immature stages, eggs, larvæ, pupæ, from Chatham, Ont.
- ERB, HERMAN, Bear Mountain Inn, Iona Island, N. Y.  
 176 Lepidoptera and 112 cocoons from North America.
- GRANGER, WALTER, New York City.  
 2 Bumblebees, from eastern Gobi, Mongolia.
- GREEN, EDWIN, Bronx, New York City.  
 1 *Pelecinus* (parasitic Hymenoptera) from Rockaway Beach, L. I., N. Y.
- HALLINAN, THOMAS, Paterson, N. J.  
 65 Butterflies and moths from Japan.
- HATT, R. T., New York City.  
 25 Fleas from Michigan.
- HENDRICKSON, G. O., Ames, Ia.  
 24 Flies from Iowa.
- HUNTINGTON, E. I., New York City.  
 325 Lepidoptera (butterflies and moths), from Canal Zone, Panama.
- JOHNSON, FRANK, Glen Ridge, N. J.  
 386 Butterflies and moths.  
 1 Beetle attacked by fungus, from Peru.  
 8 Butterflies from South America.  
 41 Lepidoptera (butterflies and moths).  
 500 Lepidoptera from Brit. Guiana.  
 112 Lepidoptera.
- KELLOGG, R. T., Silver City, N. M.  
 2 Specimens *Scaphinotus kelloggi* Drury (Coleoptera, Carabidæ), from Grant County, N. M.
- KINSEY, DR. A. C., Bloomington, Ind.  
 6 Lots of insect galls.
- KLOTS, A. B., Rochester, N. Y.  
 24 Lepidoptera.  
 9 Beetles from Canada and Conn.
- LACEY, L., Pelham, N. Y.  
 About 40 specimens Hymenoptera (mostly bees).  
 About 200 local Hymenoptera (wasps), from Pelham, N. Y.  
 About 150 unnamed bees and wasps, from Pelham mostly, also other localities in New York State, some western.  
 107 Butterflies from Europe.
- LEONARD, DR. M. D., Rio Piedras, P. R.  
 200 Coleoptera (beetles), from Porto Rico and Antigua.
- LEVEQUE, NORMA, University of Colorado, Boulder, Col.  
 38 Slides of mites (*Dinogamasus*) from Africa and elsewhere.
- MALLORY, MRS., New York City.  
 10 *Thysanura* from New York State.
- MASON, MRS. E. Nagasaki, Japan.  
 About 200 insects of various orders, chiefly butterflies, from Nagasaki, Japan.
- MAVROMOUSTAKIS, G. A., Limassol, Cyprus, Mediterranean Sea.  
 About 50 specimens of insects (Hymenoptera) from Limassol.

- MILLS, PROF. H. B., College Station, Tex.  
7 Types of *Thysanura* from Tex.
- NICHOLS, DR. G. E., New Haven, Conn.  
About 50 Butterflies from Liberia.
- NORIEGA, SR. TEODORO, Lima, Peru.  
50 Butterflies from near Lima, Peru.
- OTTOLENGUI, DR. R., New York City.  
Collection of moths, family Noctuidæ, subfamily Phytometrinæ, including 37 types and paratypes, 37 homotypes and 21 slides, an album containing 171 colored sketches of types and other rare specimens and several books, moths 3557.
- PARKS, H. B., San Antonio, Tex.  
6 Identified Megachilidæ, 2 unidentified flies from Tex.
- PATERSON, MRS. ALICE McD., Guayaquil, Ecuador.  
3 Cerambycid beetles from Ecuador.
- PERKINS, MISS LILY G., Jamaica, B. W. I.  
24 Lepidoptera (butterflies and moths) from Jamaica, B. W. I.
- PINNEY, ROY, New York City.  
14 Insects from British Guiana.
- POLLARD, C. L., St. George, S. I., N. Y.  
57 Butterflies from Trinidad, B. W. I., and Venezuela, S. A.  
48 Beetles and ants from various parts of South America.  
22 Butterflies chiefly from Bulgaria.
- RAWSON, DR. G. W., Detroit, Mich.  
6 Lepidoptera from Mich.
- REINHARD, H. J., College Station, Tex.  
26 Flies (identified) from Tex.  
10 Paratypes of flies, from College Station, Tex.
- ROWE, J. A., Salt Lake City, Utah.  
15 Tachinidæ from Utah.
- RUMMEL, CHARLES, Newark, N. J.  
48 Blown larvæ and pupæ from the region of New York City.
- SANFORD, DR. L. C., New Haven, Conn.  
Collection of butterflies and moths, about 425 specimens.  
297 Butterflies and moths from New Guinea.
- SCHWARZ, HERBERT F., New York City.  
Several hundred butterflies and beetles made up to represent a picture.
- SCULLEN, PROF. H. A., Corvallis, Ore.  
63 unidentified Anthidiine bees; 19, including 4 paratypes, of *Anthidium polingi* Schwarz.
- SEIN, FRANCISCO, Jr., Rio Piedras, P. R.  
About 50 specimens of *Anastrepha* from P. R.
- SIM, ROBERT J., Riverton, N. J.  
31 Beetles, *Scarabæidæ*, from Syria.
- SOUTH ASIATIC EXPEDITION (Through Department of Herpetology), MUSEUM.  
171 Insects of different orders from Chujszu, China.
- STILLMAN, A. L., AND Co., New York City.  
143 Lepidoptera from Santo Domingo, W. I.
- STOLLMAYER, C. R., Toronto, Can.  
44 Butterflies from Trinidad, B. W. I.
- THAXTER, DR. ROLAND, Cambridge, Mass.  
312 Diopsidæ to be shared with Museum of Comparative Zoology, from Africa and Java.
- THIENEMANN, PROF. DR. A., Holstein, Germany.  
75 Flies from Java.
- WAINWRIGHT, COLBRAN J., Birmingham, Eng.  
3 Specimens of flies from Germany.  
350 English flies.

WAKELEY, J. B. C., New York City.

Live specimens: 1 tarantula from Honduras, 1 centipede from Jamaica, 2 centipedes from Cuba.

WOOD, WILLIAM C., Mahopac, New York.

132 Butterflies and moths from Fla.

409 Butterflies and moths, various localities.

WUSTER, C. A., New York City.

19 Lepidoptera.

1 Moth, 1 cocoon, and 12 live caterpillars; also 2 live chrysalids.

#### BY EXCHANGE

NICHOLAY, A. S., Montclair, N. J.

15 Specimens of beetles.

VON EMDEN, DR. FRITZ, Dresden, Germany.

248 Specimens—collection of South American flies, including types of 15 species.

ZERNY, DR. H., Wien, Austria.

31 Specimens of flies, mostly from Africa.

12 Diptera, representing 5 species, from Africa and Europe.

#### BY PURCHASE

About 10,000 specimens of Diptera.

#### BY EXPEDITION

CHAPIN-CONGO EXPEDITION.

4,000 Specimens of insects from the Congo.

CURRAN, C. H.

Field collections, 1931—Diptera—4,000 specimens, from N. Y. and N. J.

HERPETOLOGY, DEPARTMENT OF, MUSEUM.

33 Insects from Staircase Camp, Mason County, Wash.

About 12 ticks in alcohol from Nicaragua.

WHITNEY SOUTH SEA EXPEDITION.

Walking-stick (Phasmidæ) from Malaita Island.

480 Insects and spiders, Solomon Is.

## ICHTHYOLOGY

### BY GIFT

BICKERTON, SPENCER, New York City.

2 Shark teeth (fossil).

CRUMP, BRUCE, Scott, Arkansas.

Skins of sand sturgeon and skin of white sturgeon from Arkansas River below Little Rock.

DE LARA, RODRIGO MANRIQUE, Habana, Cuba.

10 Cuban fishes.

DREIFUS, GILBERT, New York City.

4 Mounted fishes.

FIRTH, MR. F. E., Cambridge, Mass.

3 Rare North Carolina fishes, from 75 to 90 miles southeast of Cape Henry, Va.

FOLEY, MR. P. W., New York City.

1 Lot of fossil sharks' teeth from Ramapo Mountains, 15 miles northwest of Harriman station, N. Y.

GORTON-PEW FISHERIES COMPANY, Gloucester, Mass.

2 Reels full-size moving picture film of Gloucester fishing fleet.

GRANT, GORDON, Los Angeles, California.

Small bottle of California killifish, from Los Angeles River, Los Angeles, Cal.

JANSSON, ARTHUR, JR., Spuyten Duyvil, New York City.

1 Baby eel, from Spuyten Duyvil.

JOSEPH, ELLIS S., New York City.

1 Lungfish, from Brazil.

3 Electric eels, Brazil.

JOYCE, A. S., Ashburton, South Devon, Eng.

1 Malformed fish head from Eng.

KLEE, EMILE, New York City.

Ambicolorate flounder from Jamaica Bay, Goose Creek.

KNIGHT, C. R.

1 Ambicolorate flounder from fish-market, 75th Street and Broadway, New York City.

- LIMEKILLER, F., New York City.  
2 Small marine fishes, from Freeport, L. I., N. Y.
- NAGELE, MR. F., New York City.  
Egg capsule presumably of reticulated dogfish, from N. J.?
- PARSONS, DUDLEY, New York City.  
130 fishes from Trinidad, B. W. I.
- REITZAMMER, L., Arkansas City, Ark.  
1 Head *Lepidosteus spatula* from Arkansas City, Ark.  
2 Bottles of eggs of alligator gar from Arkansas City.
- ROMANOFF CAVIAR COMPANY, New York City.  
2 Mounted sturgeon from the Caspian Sea.
- SPECHT, MR. F., Bar Harbor, Me.  
1 Dogfish, with rubber band around body in front of pectorals, from Maine.
- THIBAULT, DR. HENRY, Scott, Ark.  
2 Bones (jaw and parasphenoid) of alligator gar from bayou of Arkansas River, near Scott.
- TITCOMB, MR. J. W., Hartford, Conn.  
1 European tench from Lake Winnemau, Watertown, Conn.
- U. S. BUREAU OF FISHERIES, Washington, D. C.  
1 Malformed mackerel with rubber band, found 20 miles south of Block Island.  
1 Pug-headed pollack head from Brown's Bank.
- WHITE, DR. E. GRACE, Chambersburg, Pa.  
17 Sharks and 2 sharks' heads from Japan. (Deposit.)
- YOUNG, CAPTAIN W. E.  
Part of left lower jaw of nurse shark *Ginglymostoma cirratum*, from Inegada, B. W. I.
- BY EXCHANGE
- AUSTRALIAN MUSEUM, Sydney, Aus.  
7 Specimens *Adenapogon roseigaster* from Jackson Harbor.
- GIANFERRARI, DR. LUISA, Milano, Italy.  
1 Fish from Nogal, Italian Somaliland, Africa.
- PALÆONTOLOGISK MUSEUM (through Dr. A. Heintz), Oslo, Norway.  
14 Stereoscopic slides of Spitsbergen.  
1 Cast of A. M. N. H. type number 314 G. *Asterosteus stenocephalus* N. W. B.  
1 Cast of *Phyllolepis orvini* Heintz (rostral plate).  
1 Cast of *Phyllolepis orvini* Heintz (median dorsal plate).  
1 Cast of *Phyllolepis orvini* Heintz (coronal plate).  
1 Cast *Bothriolepis grönlandica* Heintz (antero-dorso-medial plate).  
1 Cast of *Bothriolepis* sp. (Ruderorgan), all the above from Upper Devonian of East Greenland.
- BY PURCHASE
- 1 Mounted fish skeleton, *Osteoglossum*.
- BY EXPEDITION
- AFRICA ANATOMICAL EXPEDITION (1929-1931), COLUMBIA UNIVERSITY AND AMERICAN MUSEUM.  
44 Fishes from Lake Tanganyika and Cameroon, Africa.
- ARCHBOLD, RICHARD, MADAGASCAR EXPEDITION.  
About 50 specimens fishes (chiefly fresh-water) from Madagascar.
- TANGANYIKA EXPEDITION.  
About 50 fishes from Lake Tanganyika and the Cameroon, Africa, and 1 flying-fish from the Atlantic.
- HERPETOLOGY
- BY GIFT
- ARCHBOLD, RICHARD, New York City.  
1 Box Turtle from Thomasville, Ga.  
1 Toad, 1 garter snake and 1 red-backed salamander from N. Y.

- BOSLOW, HAROLD, New York City.  
1 2-headed copperhead from Arno,  
near Appalachia, Va.
- BRODY, L., New York City.  
1 Lizard from Samá, Cuba.  
5 Lizards from Honduras.
- BYRD, JUNIUS, New York City.  
1 Snake from Bay Islands, Hon-  
duras.
- CUMMIN, MELVILLE P., New York  
City.  
5 Salamanders, from one-half mile  
west of main road, Fort Mont-  
gomery, N. Y.
- EVANS, GERTRUDE, Erie, Penn.  
51 Salamanders from Erie, Penn.
- FRICK, ADELAIDE, Lusk, Wyo.  
1 Hog-nosed snake from Lusk, Wyo.
- GRAVES, DR. LEONHARD K., Elm-  
hurst, N. Y.  
1 Rough-scaled viper; 1 garter  
snake; from India and Vermont.
- GRISCOM, MRS., New York City.  
2 Milk snakes.
- HAWLY, FRANK, New York City.  
1 Egg and 1 young of snake, from  
Tuxedo, N. Y.
- JOSEPH, E. S., New York City.  
2 Turtles, 10 lizards, 2 snakes, 1  
frog, 5 crocodilians.
- KAUFFELD, C. F., New York City.  
13 Snakes, 5 lizards, 1 turtle.
- KLINE, DR. EDMUND K., Olean, N. Y.  
110 Salamanders from Olean, N. Y.
- MARSHALL, BYRON C., Imboden,  
Ark.  
12 Vials of 12 stages of *Siren* (sala-  
mander), 1 jar of adult *Siren* and  
eggs, 1 vial of mollusks which  
*Siren* feeds upon; from Arkansas.
- METCALF, JESSE, Georgetown, S. C.  
1 Salamander from Georgetown,  
S. C.
- MILLER, MRS. CHARLES F., Brooklyn,  
N. Y.  
1 Case of turtle shells and skulls.
- NEW YORK AQUARIUM, New York  
City.  
1 Alligator snapping-turtle, 1 South  
American river-turtle.
- NEW YORK ZOOLOGICAL SOCIETY.  
54 Snakes, 5 lizards, 12 turtles, 2  
Gila monsters.
- NICHOLS, J. T., New York City.  
1 Turtle from Mastic, L. I., N. Y.
- SCHOLL, CLIFFORD, Brooklyn, N. Y.  
2 Black snakes from Indian Fields,  
Albany, N. Y.
- SHAW, T. H., Peiping, China.  
4 Frogs from Chefoo, Shantung  
Province, China.
- SMITH, ROBERT, New York City.  
1 Baby alligator.
- SUN, DR. S. S., Canton, China.  
1 Chinese lizard from Yaoshan,  
Kwangsi Province, China.
- TOWNSEND, CHARLES H., New York  
City.  
1 Turtle from Galapagos Islands.
- WAKELEY, J. B. C., AND BRODY, L.,  
New York City.  
3 Lizards, 3 snakes.  
6 Frogs from Baracoa, Mata and  
Yumein, Cuba.
- WEIL, EDMOND, INC., New York City.  
21 Snake and lizard skins.

## BY EXCHANGE

- GEYER, HANS, Regensburg, Germany.  
6 Salamanders from Lanusei, Sar-  
dinia.
- MUSEUM OF COMPARATIVE ZOOLOGY,  
Cambridge, Mass.  
22 Amphibians from South Ameri-  
ca, Philippine Islands and Africa.
- SMITH, H. M., Manhattan, Kan.  
10 Lizards and 2 snakes from  
Kansas and Texas.

## BY PURCHASE

- 107 Frogs from Gainesville, Fla.  
275 Salamanders from Gainesville,  
Fla.  
33 Lizards from Los Angeles, Cal.  
57 Specimens of frogs and sala-  
manders from Ashburn, Ga.

- 93 Lizards, 23 spadefoot toads, 1 salamander, from Biloxi, Miss.
- 13 Lizards from Harrison County, Miss.
- 11 Salamanders from Thibodaux, La.
- 233 Salamanders from Pine Mountain, Ky.
- 644 Salamanders, and 1 water-snake, from Winton, N. C.
- 182 Lizards from Havana, Cuba.
- 361 Lizards and 11 snakes from Spain.
- 24 Lizards from Balearic Islands.
- 752 Frogs from Alburg, Vt.
- 89 Lizards from Samaná, Dom. Rep.
- 5 Cœcilians from Colombia, S. A.
- 17 Series of tadpoles, 31 frogs, 12 lizards, 4 snakes, 1 cœcilian; from India.
- 2 Lizards from Brazil, south bank of Amazon River.
- 100 Eggs of salamander from Imboden, Ark.
- 30 Salamanders from Notch, Mo.
- 140 Lizards from Monte Cristi, Dom. Rep.
- 2 Frogs from Africa.
- 13 Salamanders and 5 frogs from Berlin, Germany.
- 2 Turtles from Zara, Dalamatia, Yugoslavia.
- 6 Salamanders from Carmel, Cal.
- 52 Salamanders from Youngsville, Pa.
- 13 Frogs, 2 snakes, 2 lizards, 2 turtles, 3 egg masses, from Honduras.
- 12 *Necturus* larvæ, from Meadville, Pa.
- BY EXPEDITION
- BROWN, BARNUM.  
3 Toads, 1 lizard, 1 snake; from New Mexico.
- CHAPIN CONGO EXPEDITION.  
50 Snakes; eggs of *Typhlops*, 13 turtles; 2 crocodiles; 27 lizards; 5 bottles of frogs' eggs; 1 package of small lizards; 2 bottles and 2 packages of tadpoles; 11 small packages of small frogs; 63 frogs; 1 jar of eggs and life-history specimens of frogs; all from Africa.
- COLUMBIA UNIVERSITY AND AMERICAN MUSEUM OF NATURAL HISTORY AFRICAN ANATOMICAL EXPEDITION.  
2 Gaboon vipers, 1 rhinoceros viper, 11 chamæleons, 2 geckos, 2 frogs, 1 cœcilian, from Africa.
- HASSLER, W. G.  
360 Salamanders and 134 snakes, from Olean, N. Y.  
8 Snakes and 12 larvæ of spotted salamander from Treasure Hill, Kent, Conn.
- HASSLER, W. G., AND WILMOTT, G. B.  
57 Salamander larvæ and 12 salamanders, from Reed's Hollow, S. I.
- HASSLER, W. G., AND YEATON, S. G.  
24 Larvæ of salamander, 106 salamanders, 1 painted turtle, eggs of salamander, 1 frog, 2 turtles; from Long Island.
- KAUFFELD, CARL.  
1 Rattlesnake from Mount Misery, N. J.  
2 Lizards (*Lacerta muralis*) from West Philadelphia, Pa.
- KLINGEL, Gilbert C.  
1480 Lizards and 14 snakes from Great Inagua, B. W. I., and the Dominican Republic.
- KLINGEL, G. C., AND COLEMAN, W.  
488 Lizards, 3 lizard eggs, and 2 snakes from Great Inagua Island, B. W. I.
- MISSION ZOOLOGIQUE FRANCO-ANGLO-AMERICAINE, Paris, France.  
275 Frogs; 5 turtles; 65 snakes; 135 lizards (42 skinks, 46 chamæleons, 7 agamas, 40 geckos); from Madagascar.

- POPE, C. H., HASFLER, W. G., AND YEATON, S. C.  
2 Rattlesnakes from Ramapo Mountains, N. Y.
- SCARRITT PATAGONIAN EXPEDITION.  
5 Tadpoles and 5 lizards from Argentina.
- VERNAY-LANG KALAHARI EXPEDITION.  
5 Lizard skeletons from Africa.
- YEATON, S. C.  
1218 Salamanders, 417 salamander larvæ, 20 masses and 20 quarts of salamander eggs, 92 frogs, 1 toad, 210 tadpoles, 1 milk snake, 17 turtles; from Bear Mountain, Long Island and Wittenberg, N. Y.
- ORNITHOLOGY**
- BY GIFT
- ASTOR, VINCENT, New York City.  
2 Galapagos Hawks.  
1 Javan Tree Duck.  
1 Galapagos Booby.  
2 Galapagos Penguins.  
1 Galapagos Cormorant.
- BARBOUR, DR. THOMAS, Cambridge, Mass.  
338 Bird skins from the Penard collection, from Surinam.
- BEEBE, DR. WILLIAM, New York City.  
2 Skins of *Carduelis carduelis* from Nonsuch Island, Bermuda.
- BOWDISH, B. S., Demarest, N. J.  
1 Francolin (*Francolinus saphæna*) from Africa.
- BRANDRETH, COURTENAY, Ossining, N. Y.  
1 Black Duck (hybrid) from Ossining, N. Y.
- BROWNING, W. H., New York City.  
1 White-crested Laughing Thrush.
- DIONISIO, MANUEL, Flamengos, Fayal, Azores.  
10 Skins of *Serinus canarius*; 2 skins of *Larus fuscus atlantis*, from Fayal, Azores.
- DOWES, D. B., Marlboro, N. H.  
1 Ruby-throated Hummingbird from Marlboro, N. H.
- EARLE, F. W., Canton, N. Y.  
1 Chimney Swift.
- FRICK, CHILDS, New York City.  
1 Egyptian Flamingo.
- GATTI, COMMANDER A., New York City.  
1 Shoebill from Lualaba River, Belgian Congo.
- GOMEZ, JOSEPH, Jamaica, L. I., N. Y.  
2 Oropendola nests from Trinidad, B. W. I.
- GRANSTEDT, P. F.  
4 Mounted birds (*Tadorna tadorna*, *Crex crex*, *Coccothraustes coccothraustes*, *Emberiza citrinella*, from Engelholm, Sweden.
- GREENWAY, DR. J. C.  
23 Birdskins, including 14 types, from Indo-China (Delacour-Jabouille Expedition).
- GREER, GEORGE, Rye, N. Y.  
A collection of 25 mounted birds, chiefly ducks.
- HAGOOD, MAJOR LEE, New York City.  
Remains of a Scarlet Ibis found dead on Long Beach, L. I., N. Y.
- HELMUTH, DR. WILLIAM T., New York City.  
2 Wings of a Barn Owl from Mecox Beach, L. I.
- JANVRIN, MRS. E. R. P., New York City.  
1 Red-breasted Merganser from Long Beach, N. Y.
- JOSEPH, ELLIS S., New York City.  
3 Guans, 5 Trumpeters, 2 Sun-Bitterns, 3 Scarlet Ibises, 2 Screamers, 2 Tiger Herons, 1 Boat-billed Heron, 3 Cooi Herons,  
1 Snowy Egret, 2 Snakebirds, 1 Brown Pelican, 4 Tree Ducks, 1

- Harpy Eagle, 1 Hawk, 1 Hyacinthine Macaw, 2 Salvadori's Parrots, 1 White-bellied Caique, 4 Parrots, 1 Toco Toucan, 4 Toucans.
- LARKING, F. Y., New York City.  
1 Painted Bunting.  
2 Weaver-birds.
- MCDONOUGH, MISS MARGARET, New York City.  
1 Starling.
- NAUMBURG, MRS. ELSIE M. B., New York City.  
2108 Skins and 305 spirit specimens, collected in Brazil and Paraguay by Emil Kaempfer.
- NEW YORK AQUARIUM, New York City.  
1 Double-crested Cormorant.
- NEW YORK ZOOLOGICAL SOCIETY, New York City.  
1 Rhea, 1 young Emu, 1 Crested Tinamou, 1 Guan, 1 Sandgrouse (*Pterocles quadricinctus*), 1 Silver Pheasant, 1 Impeyan Pheasant, 1 Fruit Pigeon, 1 Pheasant Dove from Papua, 1 Friar Bird from Papua, 2 Maguari Storks, 1 Black-necked Stork, 1 Asiatic White Crane, 1 Louisiana Heron, 1 Whistling Swan, 1 Spot-billed Duck, 1 Pintail, 1 Tawny Eagle, 1 Wedge-tailed Eagle, 1 Saw-whet Owl, 1 Cuban Parrakeet, 1 Conure, 1 Leadbeater's Cockatoo, 1 Cockatoo, 1 White-breasted Touraco, 1 Albino Jackdaw, 1 Blue Wren, 1 Finch-billed Bulbul, 1 Tanager, 1 Weaverbird (*Anaplectes rubriceps*), 1 Weaverbird, 1 Waxbill, 1 Blue Bird of Paradise, 1 Bird of Paradise (*Parotia lawesi*), 1 Crow (*Corvus albus*), 2 eggs of Stanley Crane, 1 Guan's egg.
- NORCROSS-BARTLETT EXPEDITION, New York City.  
87 Birdskins from Greenland.
- PANCEK, MISS VIOLA, New York City.  
1 Red-breasted Merganser; 1 Bufflehead; 1 Greater Scaup from Long Island.
- REEVE, W. A., New York City.  
1 Toucan from Colombia.
- RUBINS, JAMES E., Tenafly, N. J.  
1 Blue-winged Warbler.
- SAGE, DEWITT L., Jericho, L. I., N. Y.  
1 Young robin with deformed bill.
- SANFORD, DR. L. C., New Haven, Conn.  
1 Duck Hawk.  
16 Birdskins from Rhodesia: *Coturnix delagorguei*, *Coracias n. mosambicus*, *Melittophagus p. meridionalis*, *Coracias g. garulius*, *Halcyon l. swainsoni*, *Colinus s. minor*, *Hyliota australis*, *Lampromorpha cupreus*, *Erythropygia leucophrys*, *Sylvieta rufescens transvalensis*, *Chloropeta n. natalensis*, *Emberiza cabanisi orientalis*, *Hyphantornis s. spilonotus*, *Cinnyricinclus l. verreauxi*, *Oriolus a. notatus*, *Dicrurus adsimilis dvaricatus*.
- 12 Birdskins from West Australia: *Charadrius cucullatus*; *Ninox ocellata*; *Aegotheles novæ-hollandiæ*; *Anthus australis* 4; *Sphenostoma cristata*; *Amytornis carteri*; *Stipiturus malachurus*.
- 6 Birdskins from Europe: *Megaloprepia assimilis*; 2 *Leucotreron occipitalis*; *Caccabis saxatilis*; *Trochalopteryx erythrolaema*; *Zosterops senegalensis*.
- 2 Specimens *Atlantisia rogersi* from Inaccessible Island.
- 5 Birdskins from Old World: *Tropidorhynchus timoriensis*; *Priniops ocellatus*; *Cossypha dichroa*; *Sitagra olivaceus*; *Mirafraga africanoides*.
- 4 Birdskins from Formosa: *Actinodura leucotis insularis*; *Actino-*



- dura morissonia*; *Machlolophus holsti*; *Dicæum minullum*.
- 36 Birdskins from New Guinea (E. Mayr collection).
- 1055 Birdskins from Cameroon Highland and Liberia (R. H. Drinkwater collection).
- 1 Paradise Parrakeet from New South Wales.
- SHEDD, ALFRED O., Yonkers, N. Y.  
1 Woodcock, from Yonkers, N. Y.
- SMITH, J. F., New York City.  
1 Saw-whet Owl.
- STRAUSS, MRS. SIMONY, New York City.  
1 Cassowary egg from Port Moresby, Papua.
- SUN, PROF. S. S., Canton, China.  
2 Skins of *Oriolus trailii melianus*.
- SUNDHEIMER, WILLIAM A., New York City.  
1 Blue Bird of Paradise.
- THURSTON, HENRY, Montrose, N. Y.  
8 Skins of birds from Westchester County, N. Y.
- TROST, JOHN B., Northport, L. I., N. Y.  
1 Great Blue Heron from Northport, L. I.
- VON LENGERKE, ERNST, New York City.  
94 Mounted birds, chiefly hawks and owls.
- BY EXCHANGE
- ASHBY, EDWIN, Blackwood, S. Aus.  
1 Skin of *Acanthornis magna*.
- BERLIN ZOOLOGICAL MUSEUM, Berlin, Germany.  
3 Birdskins: 1 *Halycon chloris anachoreta*; 1 *Myzomela nigriceps ernstmayri*; 1 *Aplonis cantoroides heureka* from Admiralty Islands, South Seas.
- HAVEMEYER, HENRY O., New York City.  
3 Birdskins: 2 *Monasa grandior*: 1 *Prædo audax*.
- LANGELIER, GUS, Cap Rouge, Quebec, Canada.  
1 Greater Snow Goose.
- NEWARK MUSEUM ASSOCIATION.  
1 Groove-billed Barbet from West Africa.
- BY PURCHASE
- 1 Skin of *Stenopsis cayennensis* from Veraguas, W. Panama.  
2 Skeletons of *Apteryx* (uncleaned) from New Zealand.  
811 Birdskins from Philippine Islands.  
401 Birdskins from New Guinea.
- BY EXPEDITION
- CENTRAL ASIATIC EXPEDITION.  
2 Sandgrouse, 1 pigeon, 3 bustards, 6 eggs, from Inner Mongolia.
- CHAPIN-CONGO EXPEDITION.  
623 Birdskins and group accessories from Lukolela, Congo River.
- MISSION ZOOLOGIQUE FRANCO-ANGLO-AMERICAINE, Madagascar.  
3520 Birdskins: 1 skeleton, 122 birds in alcohol from Madagascar, collected by Archbold, Delacour, Rand, and associates.
- O'DONNELL-CLARK AFRICAN EXPEDITION.  
6 Guinea fowl, 1 tree duck; 2 Francolins; 1 Nightjar, from White Nile, Egypt.
- OLALLA, ALFONSO M.  
7559 Birdskins collected in Brazil.
- VERNAY-LANG KALAHARI EXPEDITION.  
Ostrich skeletons from Kalahari Desert.
- WHITNEY SOUTH SEA EXPEDITION.  
1262 Birdskins from Kusaie, Ponape, Caroline Islands, and Gower Island, Ontong, Java.

## MAMMALOGY

BY GIFT

- ARCHBOLD, RICHARD, New York City.  
64 Small mammals from Adirondack Mountains; 8 from Thomasville, Ga.
- BAILEY, VERNON, Washington, D. C.  
1 White-footed mouse from California.
- BYRD, JUNIUS, New York City.  
1 Opossum from British Honduras.
- CARR, WILLIAM, New York City.  
1 Black bear from Maine, 2 Raccoons and 1 Beaver from New York.
- CARTER, T. D., New York City.  
5 Woodchucks from Cohocton, Steuben County, N. Y., and 6 from Boonton, N. J.
- CLARK, EDWARD T., Goshen, N. Y.  
Irish wolfhound.
- CLOSS, WILLIAM, JR., Far Rockaway, N. Y.  
Whale vertebra from Jamaica Bay, New York.
- COWLES, R. B., Los Angeles, Cal.  
27 Small mammals from So. Africa.
- CURTIS, W. W., Stony Brook, L. I., N. Y.  
1 Grey squirrel from Long Island.
- DAVENPORT, DR. CHARLES B., Cold Spring Harbor, N. Y.  
1 Grey squirrel from Cold Spring Harbor, N. Y.
- DEVENBER, WILLIAM C., Champaign, Illinois.  
1 Bat from Columbia, Mo.
- DREIFUS, GILBERT, New York City.  
10 Mounted American mammals.
- ELLIOT, ROBERT JAMES, East Orange, N. J.  
1 Virginia opossum (skull) from New Jersey.
- ENGLE, DR. EARL T., New York City.  
1 Baboon.
- FITZSIMMONS, JOHN, New York City.  
2 Pedigree Irish terriers, "Fitz's Ginger" and "Peggy."
- GARRETT, MISS IDA H., New York City.  
4 Chihuahua dogs.
- HATT, ROBERT T., New York City.  
1 Chipmunk from Sweden Valley, Porter County, Pa.
- HAZARIAN, ARTIN, New York City.  
1 Albino mink (skin) from Indiana.
- HELMUTH, DR. W. T., East Hampton, L. I., N. Y.  
1 Pocket mouse from San Diego County, Tiajuana River, Cal.
- INGERSOLL, ERNEST, New York City.  
1 Richardson's ground squirrel from Sifton, Manitoba.
- JOHNSON, MARTIN, New York City.  
4 Gorilla skulls and 1 lower jaw, from Alumbongo Mts., west of south end of Lake Edward.
- JOSEPH, ELLIS S., New York City.  
1 Viscachia; 5 giant anteaters; 2 tapirs; 2 monkeys; 2 ocelots; 1 prehensile-tailed porcupine; 1 two-toed sloth; 1 leopard, 1 badger, 1 kinkajou.
- KRUMM, DR., Rockefeller Foundation, New York City.  
2 Bats from Bananeiro, Stak y Bohia, Brazil.
- LOCKE, S. B., Ogden, Utah.  
1 White-tailed jack-rabbit from Humbrille, Utah.
- MAC BAIN, WILLIAM, Closter, N. J.  
1 Scottish Terrier, "Champion Merlwood Aristocrat."
- MILLBANK, DR. SAMUEL, Mamaroneck, N. Y.  
1 Wire-haired fox-terrier.
- MORDEN, WILLIAM J., New York City.  
4 Chamois from Roseg Valley, Engadine, Switzerland; 1 Hippopotamus skull.
- MURPHY, ROBERT CUSHMAN, Bronxville, N. Y.  
1 Porpoise from Montauk, L. I.

- McLEOD, N. R., Montclair, N. J.  
8 Abyssinian mammals.
- McMAHON, DR. JOHN J., New York City.  
1 Esquimax dog, Byrd Expedition.
- NICHOLAS, DR. FRANCIS, Gambrills, Md.  
1 Grey squirrel from Gambrills, Md.
- NEW YORK CITY PARK COMMISSION, New York City.  
2 Polar bears; 1 Tahr.
- NEW YORK ZOOLOGICAL SOCIETY, New York City.  
1 Armadillo; 2 American bison; 1 African elephant ("Khartoum"); 1 white squirrel; 1 Cape fur seal; 1 zebra; 2 squirrels; 1 white-throated sapajon; 1 red-bellied squirrel; 1 Chapman's zebra; 1 Grévy zebra; 1 Lioness; 1 prehensile-tailed porcupine; 1 Guenon monkey; 1 snow leopard; 1 jaguar; 1 wallaby; 1 Mongolian wild horse; 1 albino woodchuck; 2 black apes; 1 alpaca; 4 monkeys; 1 fennec fox; 1 marmoset; 2 South American dogs; 1 round-eared dog; 1 badger; 1 prehensile tailed porcupine; 1 ring-tailed cat; 1 jaguarondi; 1 zebra; 1 serval; 1 banting; 1 tiger; 1 genet; 1 wallaby; 3 rats; 1 giant anteater.
- NORCROSS-BARTLETT ARCTIC EXPEDITION.  
1 Skeleton of hooded seal from Greenland Seas.
- OSBORN, MRS. WILLIAM CHURCH, Garrison, N. Y.  
1 Irish wolf-hound.
- PHIPPS, JOHN H., Port Washington, N. Y.  
Water mongoose (skin) from Gura River, Kikuyu Reserve, Kenya Colony.
- PRATT, GEORGE D.  
Giant bushbuck horns from south-eastern Sudan.
- ROCKEFELLER FOUNDATION, New York City.  
3 Freetailed bats from San Salvador, Brazil.
- SCHROTH, CHRIS J., New York City.  
1 Chow dog.
- SMITH, MRS. LEE ORRIN, New York City.  
1 Chihuahua.
- STAFFORD, HOWARD L., Blanvelt, N. Y.  
1 Flying squirrel from Blanvelt, Rockland County, N. Y.
- STOCKLEY, LT. COL. C. H., Merrut, India.  
15 Mammals, including voles, pikas, hares and 1 marmot from Lahoul, India.
- SUN, PROF. S. S., Canton, China.  
1 Rat from Loshiang, Yaoshan, Kwangsi, China.
- VARIAN, H. F., London, Eng.  
1 Oribi from Angola.
- WHITNEY, LEON F., Orange, Conn.  
1 Bloodhound.
- WILMERDING, W. J., Minneapolis, Minn.  
2 Mongoose from Tanganyika.

## BY EXCHANGE

- GREEN, M.  
3 Shrews from Western United States.
- LITTLE, LUTHER, South Pasadena, Cal.  
2 California mastiff bats.
- SCARRITT-PATAGONIAN EXPEDITION.  
11 Mammals from Chubut Territory, Patagonia.

## BY PURCHASE

- 66 Small mammals from San Diego County, Cal.
- 14 Small mammals from Brattleboro, Vt.
- 5 Mammals from Paraguay.

- 1239 Mammals from Rio Tapajoz, Amazon.
- 60 Mammals from Faro, Rio Amazon, Brazil.
- 395 Mammals from Villa Bella Imperatsiz, Rio Amazon, Brazil.
- 321 Mammals from Amazon River, Brazil.
- 2 Dogs from Villarrica, Paraguay.
- BY EXPEDITION
- CENTRAL ASIATIC EXPEDITION.  
2 Gazelle skins from China.
- CHAPIN-EDSON CONGO EXPEDITION.  
247 Large and small mammals from Lukolela, Belgian Congo.
- ELY, ALFRED.  
53 Small mammals from Canadian Rockies.
- HATT, ROBERT T.  
59 Small mammals from Leland, Mich.
- HERPETOLOGY, DEPARTMENT OF, MUSEUM.  
15 Fruit bats from Inagua Island, Bahamas, B. W. I.
- HEILPRIN-HATT EXPEDITION (Yucatan, 1929).  
16 Lots fossil mammals from Yucatan.
- MISSION ZOOLOGIQUE FRANCO-ANGLO-AMERICAINE.  
410 Madagascar mammals, including lemurs, bats, shrews, tenrecs, civets, rodents and pigs.
- VERNAY-LANG KALAHARI EXPEDITION 1929-1930.  
176 Mammals, including zebra, giraffe, eland, kudu, roan and sable antelope, gemsbok, gnu, hartebeeste, blesbok, impalla, reedbok, lechwe, duiker, springbok, steinbok, warthog, hyæna; baboon, waterbuck, ant eater, lion.
- WHITNEY SOUTH SEA EXPEDITION.  
1 Domestic cat skull and 1 mouse from Solomon Islands.

## COMPARATIVE ANATOMY

BY GIFT

- AMERICAN SOCIETY FOR PREVENTION OF CRUELTY TO ANIMALS, New York City.  
Cat.
- ARCHBOLD, RICHARD, New York City.  
Woodchuck from Saranac Lake, N. Y.
- BROWN, CAPTAIN F. A., New York City.  
Piece of aorta of humpback whale.
- CARNEGIE INSTITUTION OF WASHINGTON, Cold Spring Harbor, L. I., N. Y.  
Female opossum.
- FISHER, DR. CLYDE, New York City.  
Genital organs of female deer from Catskill, N. Y.
- GATTI, COMMANDER ATTILIO, New York City.  
2 Embryos of kudu from Mt. Tereiteina, North of Kitgum, Africa.
- JOSEPH, ELLIS S., New York City.  
3 Ring-tailed monkeys, coati-mundi, 2 chimpanzees, 4 great anteaters, South American tapir, 3 lung-fishes, 4 woolly monkeys, young silvery gibbon, titi monkey, badger.
- KESSLER, FRED, New York City.  
New-born kitten.
- KLEIN, A. J., Nairobi, Kenya Colony, East Africa.  
Casts of head, hand and foot of male chimpanzee from Toro District, Uganda.
- MEISTER, GEORGE, New York City.  
3 Uteri of sheep with embryos.
- NEW YORK ZOOLOGICAL SOCIETY, New York City.  
2 Pouched rats, raccoon, new-born nilghai, 2 woolly monkeys, African rhinoceros, uakari monkey, echidna, woodchuck, black ape, macaque, hutia from Cuba, 2 lemurs, Himalayan bear, Dar-

win rhea, fennec fox, 3 kangaroos, squirrel monkey, spectacled bear, marmoset, yaguarundi, boa constrictor, galago, potto, Brazilian bush-dog, Indian mongoose, Sambhar deer, Scæmmering pheasant, new-born armadillo, coati-mundi, sea-lion.

ROIGNEAU, MARCELLE, New York City.

1 Fish skull; 14 small mammals: 8 alcoholics, 5 skeletons, 1 skull. All from Leland, Leelanau County, Mich.

SPELLMAN, DR. F., Quito, Ecuador.

Part of intestine of "mastodon."

TOWNSEND, EDWARD T., White Plains, N. Y.

3 Unborn fawns from Westchester County.

WOOD, ALBERT, New York City.

4 White rats.

BY EXCHANGE

SCHULTZ, DR. ADOLPH H., Baltimore, Md.

1 Female *Galeopithecus volans* from Bohol Island, Philippines.

Cast of right foot of West African gorilla.

SOLLAS, PROF. L., Oxford, Eng.

1 Plaster cast of fossil reptile.

BY PURCHASE

Dissectible model of human body.

Skeleton of female gorilla.

Young female chimpanzee from Africa.

Cleared specimens as follows: petrous portion of temporal bone, skeleton of hand, kidney injected in 3 colors, heart with arteries and veins injected, vertebral column of new-born, all human.

BY EXPEDITION

CHAPIN, DR. JAMES P.

Fœtus of chimpanzee in utero from Lukolela, Belgian Congo.

AFRICAN ANATOMICAL EXPEDITION OF COLUMBIA UNIVERSITY AND THE AMERICAN MUSEUM OF NATURAL HISTORY.

Gorillas, including 1 adult and 1 baby embalmed; parts of 8 other specimens, mostly skeletons or parts of skeletons received from natives, and casts of heads, hand and foot; chimpanzees, including 2 adults and 1 baby embalmed and parts of others received from natives; 24 rats; 9 mole-rats; 1 striped rat; 1 mustelid; 8 genets; 2 antelope skulls; 3 red river hog skulls; 35 monkey skulls; 5 water-shrews; 2 pangolins; 2 bush-babies; 2 *Anomalurus*; 2 *Polypterus*.

ANTHROPOLOGY

BY GIFT

AGINSKY, BERNARD W., AND ETHEL A., New York City.

46 specimens: pottery, baskets, and miscellaneous material from the Hopi and Navajo, Arizona; archaeological collection from various sites in Arizona.

ANONYMOUS.

Human skull, said to be either Chinese or Japanese.

BALL, FRANK E., Tulsa, Okla.

1 Three-quarter grooved ax, found between Hominy and Ponca City, on Hominy Creek, Osage County, Okla.

BERNHEIMER, CHARLES L., New York City.

1 Modern Mexican pottery vessel; 1 elaborately carved cocoonut, Munich, Germany; 1 volume of colored prints of scenes in Japan. Blanket from burial in Copper Cañon, Utah; miscellaneous potsherds.

- Decorated gourd, St. Pierre, Martinique; 2 Navajo wedding baskets.
- BEQUAERT, MAURICE**, Leopoldville, Belgian Congo, Africa.  
10 chipped stone specimens, partly of palæolithic type.
- BRANDRETH, COURTENAY**, Ossining, New York.  
1 Stone tablet with two perforations from near Croton Point, north of Ossining, N. Y.
- BRENN, MAJOR CHARLES E.**, Fort Crockett, Tex.  
1 Piece of matting, found in Basket Maker Cave, near Castolon, Brewster County, Tex.
- BRIIGGS, C. F.**, San Francisco, Cal.  
23 Baskets from various tribes and localities in California, Oregon and Aleutian Islands.
- BRITTON, DR. N. L.**, New York City.  
Archæological series: potsherds, shells and broken stone implements, found on a terrace along the Descalabrados River, 10 kms. from the southern coast of Porto Rico.
- BROWN, BARNUM**, New York City.  
1 Steatite vessel, broken, from a very old campsite, 25 miles southeast of Bridges, near Pryor Mts., Mont.
- BROWN, MRS. FRANKLIN Q.**, Dobbs Ferry-on-Hudson, N. Y.  
27 Ethnological specimens from Philippine Islands.
- BROWN, W. R.**, Detroit, Mich.  
Archæological material (shell, pottery, and bone) excavated from a shell mound eight miles south of Daytona Beach, Fla.
- BUDKE, GEORGE H.**, New York City.  
152 Archæological specimens of ground stone (98), chipped stone (46), pottery spindle whorls (7) and bone (1) from United States, Switzerland and Ireland.
- 1 Copper nodule from a prehistoric Indian site in the Ramapo Valley, N. Y.; 1 concretion in the form of a monolithic ax found near the Musconetcong River near Washington, N. J., a clay image of a Koshare dancer said to be Pueblo Indian, N. M.; Part of human skeleton from Wawarsing, N. J.
- CARLISLE, MISS MARY IDA**, New York City.  
6 Specimens: model of beaded baby carrier, beaded buckskin bag containing stone (Plains), 2 small ivory carvings, models of totem poles (Juneau, Alaska); tortoise shell model of jinriksha and Chinese junk.
- CARNEGIE INSTITUTION OF WASHINGTON**, Washington, D. C.  
1 Plaster model of temple E-VII, from Uaxactun, Peten District, Guatemala.
- COOK, MRS. MARGUERITE**, Elgin, Ill.  
Skull and several jaws (fragmentary), from Point Penella, Fla.
- CUNTZ, H. F.**, New York City.  
14 Archæological specimens of ground and chipped stone, mainly from N. J.
- CURTIS, DEWEY**, St. Mary's, West Va.  
1 Spindle whorl or perforated stone disk (concretion) found in gravel 1 mile upstream from St. Mary's, West Va.
- DUNLAY, C. A.**, Houston, Tex.  
Archæological collection, comprising 9 potsherds, 9 animal bones, and 2 bivalve shells from supposed mound on Trinity River 50 miles west of Houston, Tex.
- EMERY, MRS. A. J.**, Yonkers, N. Y.  
1 Knife with leather-bound handle and leather sheath and carrying-strap, from Monrovia, Liberia.
- FALK, J.**, New Brunswick, N. J.  
4 Ground stone implements; 5 fragments of stone, shell and pot-

- tery objects from ruin near Casa Grande, Ariz.
- FISK, ABRAHAM**, New York City.  
Basket made of white oak splints, probably Cherokee, from Mountain City, Tenn.
- FLAUTT, H. D.**, Casper, Wyo.  
Archæological collection from Jersey and Calhoun County, Ill. (996 pieces); miscellaneous specimens: 6 ethnological from North American Indians.
- GROTH, B. H. A.**, La Ceiba, Honduras.  
1 Pottery seal, from La Ceiba, Hon.
- HAY, CLARENCE L.**, New York City.  
Archæological series of specimens from sites in the State of Quere-taro, about 200 miles north of Mexico City.
- HODSON, HELEN K.**, New Castle, Ind.  
Archæological remains (13) from three graves, locality Punta de Leiva terminal, 9 kms. east of Maracaibo, Venezuela.
- HOUGH, MRS. CHARLES M.**, New York City.  
1 Horn bowl; 3 barbed and perforated bone points; 1 birdskin bag; a buckskin bag, from Alaska.
- JACOBY, MRS. H. MURRAY**, New York City.  
2 Rhinoceros horn cups, native painting, a basketry table, a religious book written on parchment in Coptic characters, from Abyssinia.
- JONES, J. WALTER**, Nathalie, Va.  
1 Bannerstone from Nathalie, Halifax County, Va.
- KAHN, DR. MORTON C.**, New York City.  
Baskets (7) and basketry tubes (2) from Carib Indians, Dominica, West Indies.
- KAWAGUCHI, K., AND CO.**, New York City.  
8 Wooden blocks from which Japanese prints are made.
- KENNAN, MRS. GEORGE**, Medina, N. Y.  
Shield, basket work, probably from Equatorial District, Belgian Congo, Africa.
- KOUSEK, GUS A.**, New York City.  
1 Grooved stone ax found at Bedford, N. J., in 1928 between railroad and shore.
- LARM, EDWARD**, New York City.  
1 Indian paint cup found while digging house foundation in Bronx, New York City.
- LITTLE, MRS. ARTHUR**, New York City.  
1 Skull from site of Thomas Asylum for Destitute Indian children at Iroquois, N. Y.
- LLOYD, JOHN C.**, Belleville, N. J.  
1 Batak book, containing conjuring formulas, medicinal prescriptions, etc., in syllabic writing, from Mandheling, Sumatra.
- MCILHENNY, E. A.**, Avery Island, La.  
About 30 Archæological specimens, partly fragmentary, from Salt Spring at Avery Island, La.
- MCINERNEY, H. V.**, New York City.  
1 Small house model, showing human figures, furnishings, etc.  
1 Small model showing a cocoanut palm, with two persons picking nuts. Both models made of balata gum, from Colombia.
- MINISTRY OF PUBLIC EDUCATION OF MEXICO**, Mexico, D. F.  
1 Plaster model of Temple at Tajin, Vera Cruz, Mex.
- NELSON, N. C.**, New York City.  
60 Archæological specimens, comprising 50 potsherds, 9 stone objects, 1 animal bone—representative of the Yang Shao culture. From village site at Changtehofu, Honan Province, China.

NEW YORK ACADEMY OF SCIENCES  
LIBRARY, New York City.

- 2 Incomplete pottery bowls from Mo.

NOEL, CLAYTON, New York City.

- 3 Shell axes (2 fragmentary) from Barbadoes.

NORCROSS, ARTHUR D., New York City.

- 20 Specimens, including Eskimo kayak and equipment from Angmassalik, East Greenland.

OLWELL, LEE E., New York City.

- Skinning-knife of walrus ivory found at bottom of a forty-foot shaft, frozen in bedrock on a tributary of the Yukon River, Alaska.

PARKER, MRS. EDWIN C., New York City.

- 1 Native fish-net from Maui, Hawaiian Islands.

RICHARDSON, HUBERT, Cameron, Ariz.

- Corrugated bowl from vicinity of Little Colorado River, near Cameron, Ariz.

SAVAGE, M. F., New York City.

- 54 Specimens: figurines, mold and spindle whorl from the Archaic, Toltec, and Aztec periods in Mex.

SCHMIDT, G. R., Lima, Peru.

- 3 Wooden ceremonial sticks, two with both ends carved, one (in two pieces) with one end carved for a rattle, from Huacho, Peru.

SLOCUM, H. S., Bluefields, W. Va.

- Tobacco pipe of serpentine, incised ornamentation, from Clark's Ferry on New River, Wythe County, Va.

STEEL, HEATH, New York City.

- Figurine head, Teotihuacan type, probably from Azcapotzalco, Mexico.

UHLE, DR. MAX, Quito, Ecuador.

- Cast of stone tablet from Ecuador.

ULICH, H. P., New York City.

- A Lapp costume, a small loom, a miniature baby carrier (12 specimens), 1 ivory-handled and sheathed knife from Lapland.

VAN NEST, THE MISSES M. V. AND S. H., New York City.

- 1 Basketry plaque, Hopi; 1 leather fringe skirt, Africa.

- 4 twilled fans, Polynesia?

VERNAY-LANG KALAHARI EXPEDITION.

- 5 Carved wooden figures, four of giraffes, one snake, from Kalahari Desert, Africa.

VERTEBRATE PALÆONTOLOGY, DEPARTMENT OF, MUSEUM.

- 6 Bolas, and 64 stone artifacts from Central Patagonia, and the Meseta and coastal region of southern Chubut territory, Argentina.

WATKINS, MISS GLADYS MARY, New York City.

- 1 Pottery vessel from Arica, Chile.

WEBB, MRS. GEORGE H., Providence, R. I.

- 2 Specimens: Woman's belt and ceremonial sash from Hopi, Ariz.

WELLNER, CATHERINE JOSEPHINE, Scottsville, Va.

- Skull, human, from east coast of Florida.

BY EXCHANGE

MATHIASSEN, M. J., Mullerup, Slagelse, Denmark.

- Harpoon point of the Maglemose Period from Denmark.

BY PURCHASE

- 11 Casts, including modeled bison group, human footprints, etc., from Tuc d'Audoubert Cave, near St. Girons, Department Ariège, France.

- 1 Blanket from Chilkat Indians.

- Gorilla skulls (6 male, 2 females) from Kamerun and French Congo, Africa.



1 Aztec sculpture from Ixtapalapa, Mexico, D. F.

11 Slate palettes, in fish and bird form from the pre-Dynastic period, Egypt.

2925 Specimens, Mesolithic collection comprising flint and bone artifacts, potsherds, and animal bones, excavated from about 150 different sites in western Brandenburg, Germany.

#### BY EXPEDITION

##### BOEKELMAN SHELL-HEAP EXPEDITION.

Approximately 1000 archæological specimens from shell-heaps and other sites, from Cuba, Contoy, Mugeris and Cozumel Islands, Yucatan, Mexico, and various mainland and island sites in Honduras.

##### CENTRAL ASIATIC EXPEDITION (1930).

100 Archæological specimens comprising ground and chipped stone and animal bones from near Iren Dabasu, Inner Mongolia.

##### SNODGRASSE, RICHARD M.

Archæological collection from vicinity of Boise City, Oklahoma, from vicinity of Woodward, Oklahoma, and from vicinity of Amarillo, Tex.

##### VAILLANT, DR. GEORGE C.

Cast of temple of Quetzalcoatl from Teotihuacan, Mexico.

About 1200 archæological specimens from El Arbolillo, Mexico.

##### WELTFISH, DR. GENE.

127 Specimens, a series of materials and baskets in process illustrating basketry technique from the San Carlos Apache and Hopi Indians, Ariz.

#### BY TRANSFER

##### MAMMALOGY, DEPARTMENT OF, MUSEUM.

Skull from Angola, Africa.

Sample of bark used to make a hair-straightening infusion, So. Africa.

##### ORNITHOLOGY, DEPARTMENT OF, MUSEUM.

24 Arrows (decorated) from the Solomon Islands.

## PUBLIC EDUCATION

### BY GIFT

BURROUGHS, MRS. TERESA, New York City.

1 35 mm. film "Constantinople."

COOK, THOMAS, AND SON, New York City.

50 Colored and 5 plain slides.

CRAIG, MRS. MARY E., New York City.

1 Mandarin duck.

CURTIS, W. W., Stony Brook, L. I., N. Y.

1 Cotton-tail, 1 starling.

1 Junco.

1 Woodcock in flesh.

1 Robin, 1 golden-crowned kinglet.

DREIFUS, GILBERT, New York City.

19 Mounted birds.

FAILE, J. C., New York City.

1 Mounted wood-duck.

GERMANN, MRS. JOHN C., Valhalla, N. Y.

1 Hermit thrush in flesh.

GOODMAN, MRS., New York City.

3 Mounted birds.

GREELEY, Mrs. W. C., Flushing, N. Y.

1 Canary in flesh.

HEYE, Mrs. GEORGE GUSTAV, New York City.

10 Decorated hens' eggs from Czechoslovakia.

HUDSON, C. ALLEN, Fair Haven, N. J.

1 Black swan.

JAEGER COMPANY, INC., New York City.

15 Jaeger wool charts.

KEITH, SAMUEL M., Bayside, L. I., N. Y.

1 Long-eared owl.

- LEVY, MISS R., New York City.  
1 Mastodon tooth.
- MELONEY, N. J., New York City.  
1 Double hen's egg.
- MEYER, THEODORE, Bayside, L. I., N. Y.  
1 English sparrow; 1 starling.  
1 Flicker and 1 white-throated sparrow in flesh.
- MOORE, DENNIS, New York City.  
1 Wooden model of Covered Wagon drawn by Horses.
- MORDEN-CLARK EXPEDITION OF 1927.  
17,836 Feet of motion picture negative.
- PERSER CORPORATION, New York City.  
3 Depthograph plates as follows: crinoid fossil, skeleton of pigeon, sand flea (colored).
- PEPPE, VINCENT C., New York City.  
1 Mounted white swan.
- POSPISIL, DR. FRANCIS, New York City.  
Set of Easter eggs and design book from Czechoslovakia.
- PUBLIC SCHOOL No. 42, Queens, Arverne, N. Y.  
2 Robins, 1 golden-crowned kinglet, 1 towhee, 1 hermit thrush.
- RIVELA, FELICE, Brooklyn, N. Y.  
1 Whale vertebra.
- ROTSCHILD, DAVID, AND COMPANY, Columbus, Ga.  
1 Cotton exhibit.
- SHOR, MISS DOROTHY WILLISTON, Cold Spring, N. Y.  
1 Red-tailed hawk in flesh.
- SHOR, WILLISTON, Scarborough, N. Y.  
1 Golden-crowned kinglet.
- SPRAGUE-SMITH, MRS. CHARLES, Seal Harbor, Me.  
91 uncolored slides.
- UNION PACIFIC SYSTEM, New York City.  
38 Colored slides.
- WEYH, ROBERT G., New York City.  
488 Colored and 31 plain slides of western United States; 9,294 feet motion picture positive of western United States.
- WHITLOCK, HERBERT P., New York City.  
12 Colored and 12 plain slides on gems.

## BY PURCHASE

- 4 Wax models of mushroom groups; stinkhorn, red russula, purple-gilled clitocybe, parasol mushroom.
- 141 Colored slides and 23 plain slides; 1 slide carrying case.
- 1 Reel motion picture film on "Food."
- 1 Reel 16 mm. film "Safety at Sea."
- 1 Reel 16 mm. motion picture film on each of following subjects: Beaver, Cattle, New York Water Supply, Cod; 2 reels 16 mm. motion picture positive on Irrigation.
- 1 Reel motion picture film on each of the following: Beaver, Cattle, Hawaiian Islands, Bacteria and Blood.
- Short strip of film showing opening of subway, 1904.
- 6 Reels film: 2 reels each of "Swiss Wood Carver," "Forest People of Central Africa"; 1 Reel film each of "Wee Scotch Piper," "Wanderers of Arabian Desert."
- 1 Depthograph display case.
- 2 Reels 16 mm. films "Bedouins of the Sahara."

## BY EXPEDITION

- JAMES L. CLARK EXPEDITION TO AFRICA, 1909-10.  
357 Negatives
- CARLISLE-CLARK EXPEDITION TO AFRICA, 1928.  
748 Negatives.

**JAMES L. CLARK EXPEDITION TO THE  
GIANT CRATER OF NGORO NGORO,  
Tanganyika Territory, Africa.  
352 Negatives.**

**BY TRANSFER**

**MAMMALOGY, DEPARTMENT OF, MU-  
SEUM.**

1 Weasel, 1 muskrat, 1 woodchuck,  
1 skunk, 1 red squirrel, 1 porcu-  
pine (head mount), 2 gray squir-  
rels (1 black phase).

1 Head of white-tailed deer.

**ORNITHOLOGY, DEPARTMENT OF, MU-  
SEUM.**

1 Starling.

59 Mounted local birds.

1 Mounted great horned owl.

**PREPARATION, DEPARTMENT OF, MU-  
SEUM.**

4 Wax mushroom groups made by  
Miss Allen.

**ADMINISTRATION**

**BY GIFT**

**PRENTICE, BERNON S., New York City  
Bust of Roald Amundsen, by the  
Norwegian sculptor, Trygve  
Hammer.**



## VII. APPENDIX

### ADMINISTRATION OF THE YEAR 1932

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\*The President is *ex-officio* a member of all Committees.

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

1870 First home secured, the Arsenal, Central Park.

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

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

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