

1869

CITY OF NEW YORK

1924

THE AMERICAN MUSEUM
and EDUCATION

FIFTY-SIXTH ANNUAL REPORT OF THE TRUSTEES
FOR THE YEAR 1924 :: THE AMERICAN
MUSEUM OF NATURAL HISTORY

New York, May 1, 1925

SCIENTIFIC PUBLICATIONS

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

Volumes I-XXIV, 1900-1924. An illustrated magazine devoted to the advancement of natural history; a record of scientific research, exploration and discovery, of the development of museum exhibitions and of museum influence on education. Contributors are workers eminent in these fields, including the scientific staff, explorers and Members of the American Museum. Issued free to all classes of membership and on subscription.

BULLETIN of The American Museum of Natural History:

Volumes I-L, 1881-1924. Scientific records of explorations and collections of the Museum, in Geology, Palæontology, Mineralogy, Zoology, and, originally, Anthropology. Issued in exchange to 400 libraries and institutions of science and learning throughout the world.

MEMOIRS of The American Museum of Natural History:

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

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

New Series, Volumes I-III, 1912-1921, devoted to Zoology and Palæontology.

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AMERICAN MUSEUM NOVITATES:

Nos. 1-155, 1921-1924. Devoted to publication of preliminary announcements and descriptions of new forms in the fields of Zoology, Palæontology, Geology and Mineralogy.

A REVIEW OF THE PRIMATES.

By Daniel Giraud Elliot. A monographic treatise in three quarto volumes.

(Publications continued on third page of cover)



EDMUND OTIS HOVEY

CURATOR OF GEOLOGY, 1910-1924

A Member of the Scientific Staff of The American Museum for more than thirty years

THE AMERICAN MUSEUM *and* EDUCATION



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

**FIFTY-SIXTH ANNUAL REPORT OF THE TRUSTEES
FOR THE YEAR 1924 :: THE AMERICAN
MUSEUM OF NATURAL HISTORY**

The City of New York
Issued May 1, 1925



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THE AMERICAN MUSEUM OF NATURAL HISTORY

INCORPORATED BY THE
LEGISLATURE OF THE STATE OF NEW YORK IN 1869

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

FOUNDERS AND INCORPORATORS OF 1869

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

PRESIDENCY OF JOHN DAVID WOLFE, 1869-1872.

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

1870 First home secured, the Arsenal, Central Park.

PRESIDENCY OF ROBERT L. STUART, 1872-1881.

1874 Cornerstone of present building laid by President Ulysses S. Grant.

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

1880 Educational work with the schools inaugurated by Professor Albert S. Bickmore.

PRESIDENCY OF MORRIS K. JESUP, 1881-1908.

1893 Museum opened to the public on Sundays.

1887-1905 The City of New York appropriated \$4,218,820.95 for seven building sections.

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

PRESIDENCY OF HENRY FAIRFIELD OSBORN, 1908-

1908 Constitution amended making

The Mayor, the Comptroller, and the President of the Department of Public Parks, of the City of New York, *ex-officio* members of the Board of Trustees.

1921 Greater New York Charter amended, placing the Museum on the same basis as schools with respect to Corporate Stock Appropriations, by Chapter 618 of the Laws of 1921.

1921-1923 The City of New York appropriated \$2,233,800 for three new sections.

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

ENDOWMENT CLASS*

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

GEORGE F. BAKER	A. D. JUILLIARD†
JAMES DOUGLAS†	D. O. MILLS†
AMOS F. ENO†	J. PIERPONT MORGAN†
EDWARD S. HARKNESS	J. P. MORGAN
MRS. MORRIS K. JESUP†	JOHN D. ROCKEFELLER, JR.
MORRIS K. JESUP†	MRS. RUSSELL SAGE†

BENEFACTOR CLASS

By contribution of \$50,000 or upward to the Museum

GEORGE F. BAKER	OGDEN MILLS
JAMES M. CONSTABLE†	J. PIERPONT MORGAN†
CLEVELAND H. DODGE	J. P. MORGAN
JAMES DOUGLAS†	HENRY FAIRFIELD OSBORN
CHILDS FRICK	GEORGE D. PRATT
ARCHER M. HUNTINGTON	PERCY R. PYNE†
ARTHUR CURTISS JAMES	MRS. ROBERT L. STUART†
MORRIS K. JESUP†	CORNELIUS VANDERBILT†
MRS. MORRIS K. JESUP†	WILLIAM H. VANDERBILT†
MRS. A. D. JUILLIARD†	FELIX M. WARBURG
	HARRY PAYNE WHITNEY

ASSOCIATE FOUNDER CLASS

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

GEORGE S. BOWDOIN†	OSWALD OTTENDORFER†
WILLIAM E. DODGE, 2D†	PERCY R. PYNE
HENRY O. HAVEMEYER†	WILLIAM ROCKEFELLER†
A. D. JUILLIARD†	MISS PEEBE ANNA THORNE†
ADRIAN ISELIN	CHARLES E. TILFORD†
CHARLES LANIER	MRS. JOHN B. TREVOR†
	WILLIAM C. WHITNEY†

ASSOCIATE BENEFACTOR CLASS

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

HUGH AUCHINCLOSS†	MRS. HENRY C. FRICK
EMIL C. BONDY†	ANSON W. HARD†
FREDERICK F. BREWSTER	HENRY IDENT†
JOSEPH H. CHOATE†	ADRIAN ISELIN†
ROBERT COLGATE†	D. WILLIS JAMES†
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BENJAMIN P. DAVIS†	MRS. FRANK W. KITCHING
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MRS. JOSIAH M. FISKE†	JACOB H. SCHIFF†
JAMES B. FORD	ROBERT L. STUART†
HENRY C. FRICK†	JOHN B. TREVOR

*Being created by amendment to the Constitution, 1925.

†Deceased.

MEMBERSHIP

Members are entitled to the following privileges:

An Annual Pass admitting to the Members' Room.

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

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

Two course tickets to Spring Lectures and to Autumn Lectures.

Current numbers of all *Guide Leaflets* on request.

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

The Classes of Members are:

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

ENDOWMENT FUND

The Endowment Fund was established in 1884. It now amounts to \$11,022,065.93 (book value). The Trustees especially desire to insure the permanent growth and welfare of the Museum through an increase of the General Endowment Fund. The additional sum of \$3,900,000 is needed at present.

EXEMPTIONS FROM TAXATION

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

FORM OF BEQUEST

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

.....

.....

FOR FURTHER INFORMATION APPLY TO ONE OF THE FOLLOWING:

HENRY FAIRFIELD OSBORN, President,

GEORGE F. BAKER, JR., Treasurer,

PERCY R. PYNE, Secretary.

*Residing fifty miles or more from New York City.

HONORARY FELLOWS

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

ROALD AMUNDSEN	GEO. BIRD GRINNELL
HERBERT L. BRIDGMAN*	BARON LUDOVIC MONCHEUR
GEORGE K. CHERRIE	REAR-ADMIRAL ROBERT E. PEARY*
PROF. T. D. A. COCKERELL	THEODORE ROOSEVELT*
MADAME MARIE SKLODOWSKA CURIE	DR. LEONARD C. SANFORD
PROF. WILLIAM M. DAVIS	SIR ERNEST HENRY SHACKLETON*
DR. BASHFORD DEAN	VILHJÁLMUR STEFÁNSSON
LIEUT. GEORGE T. EMMONS, U. S. N.	PROF. WILLIAM M. WHEELER

HONORARY LIFE MEMBERS

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

CARL E. AKELEY	ROBERT HENDRE KELBY
ADMIRAL E. ALEXEIEFF	PROF. C. R. KELLOGG
ROY CHAPMAN ANDREWS	A. P. KINLOCH
C. BADMAJAPOFF	CHARLES R. KNIGHT
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CHARLES F. FORSYTH	HIS EXCELLENCY, THE EARL OF READING, G.C.B.
ELGIN W. FORSYTH	
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A. K. HAAGNER	A. R. WILCOX
DR. WILLIAM T. HORNADAY	GEN. S. HERBERT WOLFE
GENERAL HIS HIGHNESS MAHARAJA, SIR CHANDRA SHUMSHERE JUNG	MAJOR JOHN G. WORTH

*Deceased.

CORRESPONDING MEMBERS†

Through honorary election on recommendation of the Scientific Staff

- | | |
|---|---|
| DR. J. G. ANDERSSON,
Geological Adviser to the Chinese
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Appleslade, Ringwood, Hampshire,
England | DR. KARL WEINGAND,
Bad Mergentheim, Württemberg,
Germany |

†Elected February 5, 1923.

INSTITUTIONS WITH WHICH THE MUSEUM IS COOPERATING CITY OF NEW YORK

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

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

ENDOWED INSTITUTIONS

COLUMBIA UNIVERSITY.....	1754
NEW YORK HISTORICAL SOCIETY.....	1804
NEW YORK ACADEMY OF SCIENCES.....	1817
NEW YORK UNIVERSITY.....	1831
AMERICAN ETHNOLOGICAL SOCIETY.....	1842
AMERICAN GEOGRAPHICAL SOCIETY.....	1852
TORREY BOTANICAL CLUB.....	1867
NEW YORK MICROSCOPICAL SOCIETY.....	1877
LINNAEAN SOCIETY OF NEW YORK.....	1878
NEW YORK MINERALOGICAL CLUB.....	1886
NEW YORK ENTOMOLOGICAL SOCIETY.....	1892
AMERICAN SCENIC AND HISTORIC PRESERVATION SOCIETY.....	1895
CITY HISTORY CLUB OF NEW YORK.....	1896
HISPANIC SOCIETY OF AMERICA (ART AND ARCHAEOLOGICAL COLLECTIONS).....	1904
BOY SCOUTS OF AMERICA.....	1910
GIRL SCOUTS.....	1912
CAMP FIRE GIRLS.....	1912
THE NEW YORK BIRD AND TREE CLUB.....	1913
SCHOOL NATURE LEAGUE.....	1917
MUSEUM OF THE AMERICAN INDIAN.....	1920

AMERICAN AND FOREIGN MUSEUMS WITH WHICH
THE MUSEUM IS COOPERATING

ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA, Philadelphia, Pa.
AMERICAN ASSOCIATION OF MUSEUMS
AUSTRALIAN MUSEUM, Sydney, Australia
BERNICE P. BISHOP MUSEUM, Honolulu, Hawaii
BOY SCOUT MUSEUM, Palisades Interstate Park
BRITISH MUSEUM (Natural History), London, England
BUFFALO SOCIETY OF NATURAL SCIENCES, Buffalo, New York
CALIFORNIA ACADEMY OF SCIENCES, San Francisco, California
CANTERBURY MUSEUM, Christchurch, New Zealand
CARNEGIE MUSEUM, Pittsburgh, Pennsylvania
CHARLESTON MUSEUM, Charleston, South Carolina
CLEVELAND MUSEUM OF NATURAL HISTORY, Cleveland, Ohio
COLORADO MUSEUM OF NATURAL HISTORY, Denver, Colorado
DAVENPORT ACADEMY OF SCIENCES, Davenport, Iowa
DURBAN MUSEUM, Natal, South Africa
FIELD MUSEUM OF NATURAL HISTORY, Chicago, Illinois
FLORIDA GEOLOGICAL SURVEY MUSEUM, Tallahassee, Florida
FLORIDA STATE MUSEUM, Gainesville, Florida
GEOLOGICAL INSTITUTE, UNIVERSITY OF PADUA, Padua, Italy
GEOLOGICAL MUSEUM, UNIVERSITY OF NEBRASKA, Lincoln, Nebraska
GEOLOGICAL MUSEUM, UNIVERSITY OF TORONTO, Ontario, Canada
GEOLOGICAL PALAEONTOLOGICAL INSTITUTE, UNIVERSITY OF TÜBINGEN
GEOLOGICAL SOCIETY OF CHINA, Peking, China
GEOLOGICAL SURVEY OF CHINA, Peking, China
IMPERIAL UNIVERSITY OF TOKYO, Tokyo, Japan
INSTITUT DE PALÉONTOLOGIE HUMAINE, Paris, France
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SCIENTIFIC STAFF

for 1925

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A. L. TREADWELL, Ph.D., Research Associate in Annulata

*Research Associates are honorary appointments.

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FIFTY-SIXTH ANNUAL REPORT
OF THE
PRESIDENT
OF
THE AMERICAN MUSEUM OF
NATURAL HISTORY

FOR THE YEAR OF 1924

To the Members of The American Museum of Natural History:

The President has the honor to submit herewith the Fifty-sixth Annual Report of The American Museum of Natural History and to briefly call attention to the salient features of the work for 1924. For clearness and sequence of presentation, the report is divided into seven sections, as follows:

- I—THE AMERICAN MUSEUM AND EDUCATION, including summary of activities of the American Museum—By the President.
- II—EDUCATIONAL AND SCIENTIFIC REPORTS, including exploration, research, preparation and exhibition, publication, education and public school service—Prepared by the Curators.
- III—ADMINISTRATION, OPERATION AND BUILDING, including all the activities of the Museum which are in large part paid for by City funds—Prepared by the Acting Director.
- IV—FINANCIAL ADMINISTRATION, including the financial work of the President, of the Finance Committee, of the Treasurer and of the Bursar—Submitted by the Treasurer.
- V—MEMBERSHIP, showing how membership in all its grades is increasing and broadening the work of the Museum—Submitted by the Secretary.
- VI—MUNICIPAL AND STATE RELATIONSHIP, including Act of Incorporation, Charter, Acts of the Legislature and of the Board of Estimate and Apportionment—Submitted by the Secretary.
- VII—PENSION AND INSURANCE, including welfare of employees—Submitted by the Pension Board.

This subdivision will enable the Members of the Museum to immediately find the subjects in which they are particularly interested. The constantly increasing interest and support given to the Museum by our Members are the most encouraging features of the year's work.

THE AMERICAN MUSEUM AND EDUCATION

BY PRESIDENT HENRY FAIRFIELD OSBORN

The time is come when a system of universal education ought to be adopted in the United States. In a country governed by the sense of the community, the people must be enlightened.

The assembly to which I address myself, is too enlightened not to be fully sensible how much a flourishing state of the arts and sciences contributes to national prosperity and reputation.

—George Washington, 1790, 1796.

I look to the diffusion of light and education as the resources most to be relied on for ameliorating the conditions, promoting the virtue and advancing the happiness of man.

—Thomas Jefferson, 1822.

Upon the subject of Education, not presuming to dictate any plans or system respecting it, I can only say that I view it as the most important subject which we, as a people, can be engaged in.

—Abraham Lincoln, 1832.

Education should not confine itself to books. It must train executive power, and try to create that right public opinion which is the most potent factor in the proper solution of all political and social questions.

Theodore Roosevelt, 1907.

EDUCATION is a problem which arose 500,000 years ago and will endure as long as man endures. The first educator was one of our eolithic ancestors, sitting over the fire teaching his boys how to fashion flints, while his mate was teaching the girls how to prepare skins for clothing. Among the most up-to-date types of education are those of our sister institutions, Columbia University, with 1,778 teachers and 32,769 students, and the Greater New York School System, with 29,503 teachers and 1,093,270 pupils, in contrast with our own Museum, with its five teachers and 3,602,100 specimens and upwards of 6,000,000 pupils and students receiving occasional instruction. It is interesting to point out the strength and weakness of these four great types of education: The Stone Age, the University, the School, the Museum.

While dictating this report, we read from *The New York Times*, January 11, 1925, Section 8:

"Butler Offers Cure for Our 'Ignorance.' In his annual report on Columbia University, President Nicholas Murray Butler hurls a volley of bombshells at the intellectual complacency of the United States. Not for many years has a public man, holding a position in the educational world so responsible as his, indulged in a candor so ruthlessly uncompromising. Here is a country which has spent uncounted billions on universities, colleges and schools. Nowhere on this planet, so one would have thought, can you find an enthusiasm for teaching and a zeal for learning so eager as here. Yet, according to Dr. Butler, the results are so unsatisfactory that Abelard, a founder of universities, were he to come back, 'might well wonder whether, despite his amazing intellectual conquests, made so long ago, he had not lived and taught in vain,' while at our 'spoken English,' the Venerable Bede, were he to return, would be assuredly affrighted."

Similar laments on university, on college and on school education come, not only from all parts of our country, but from Great Britain. If these laments are even in part justifiable, we conclude that our progress in education is by no means commensurate with our progress in expenditure. While expenditure has increased a thousandfold, the average human output has remained the same or has retrogressed since the time of Abelard and may even have retrogressed since the time of the Cave Man. The cave boy certainly had advantages which our boys have ceased to enjoy; he was surrounded on all sides by vibrant nature, full of inspiring and wonderful phenomena, which filled him with reverence and awe if not with superstition. His father and mother, at least in the Cro-Magnon period, carefully instructed him, not only in flint making, but in the rudiments of art, while his sisters were taught how to sew and cook. Education was part of his daily struggle for existence,—the boy's survival depended on his aptness in working, in learning and in imitation. Even in the far more remote eolithic times, the stern master, which we now designate the "Struggle for Existence," was ever by the side of the boy and girl; compulsory education took this primeval form. Under these two teachers, the compelling "Struggle for Existence" and "Inspiring Nature," the eolithic boy and the cave boy attended school regularly. The only check to their progress was the lack of the arts of writing and printing, whereby what they learned and acquired intellectually could be passed on to future generations.

In our large cities, in the press, and in the minds of teachers who depend upon the press, civilization has reared a Frankenstein which shuts out the direct vision and inspiration of nature and banishes the struggle for existence. Thus the two masters of the eolithic boy and the cave boy have quietly vanished. Meanwhile the mind of the boy in the lower and higher races of mankind has not changed, but is the same as the mind of the eolithic boy and of the cave boy.

The great function of the American Museum is to bring back to life these two masters; to restore the vision and inspiration of Nature, as well as the compelling force of the struggle for existence in education. This is our antitoxin for most of the educational poisons of our day. On restoration of the privileges enjoyed by the cave boy and on coming for the first time into direct vision of the wonders and beauties of Nature, not only boys and girls, but men and women, young and old, feel a thrill which they may never have experienced before. This thrill inspires them to go further, to examine the objects more closely, to see all they can themselves and perhaps to go home and read what others have observed. Thus, they discover in themselves latent faculties of which they had not the least knowledge before, latent predispositions and tastes which gradually come to the surface of consciousness, new ambitions to enter the struggle for existence in science, in literature or in art. This is not guesswork on our part. It is a record of actual experiences, not only of boys and girls but of adults. Artists and designers tell us that all the wonders of classic art and design have not aroused them as have our well-arranged exhibits of the works of prehistoric man and of the primitive races.

In these few words we have set forth the whole theory and practice of American Museum education, namely, to restore to the human mind the direct vision and inspiration of Nature as it exists in all parts of the world and as it is becoming known through all the sciences, thus to discover and encourage predispositions and tastes, thus to arouse ambitions, to overcome all resistance, and to return to books and learning as the handmaids and not the masters of education.

THE WORLD MUSEUM*

The primary object of a great municipal museum is to bring to those who cannot explore or travel, who cannot go very far beyond their immediate environment, the whole world of nature. In each preceding report, it has been shown how far we have succeeded in this great undertaking, in our collections of meteorites, minerals and gems, of geologic specimens, of fossils, vertebrate and invertebrate, of marine and fresh-water invertebrates, of insects, of fishes, of amphibians and reptiles, of birds, of mammals and of the races of men. This taking stock of where we are does not mean that we are ceasing our great quest. It is a prelude to continued and intelligent search, so that previous efforts may not be duplicated and that new efforts shall be directed in hitherto unexplored lands and unnavigated seas. With the continued aid of old friends and the incoming aid of new friends, we are during the present year extending our explorations in central Asia, searching new islands in Polynesia, seeking new collections in eastern Africa, and joining hands with our sister institution, the New York Zoological Society, in exploring the equatorial belt of the ocean from the Sargasso Sea westward.

The housing and care of these rapidly increasing collections require the constant extension of storage space, for which the City of New York is generously making provision. The expansion of the exhibition space has also been provided for by the City through the erection of the Asiatic and Oceanic Wings, which constitute Sections 9 and 10 of the future building of sixteen sections.

The scientific cataloguing and arrangement of these collections require a staff of experts of the first rank in their various subjects, and such a staff we have brought together while we are training younger men to go into the responsible positions from which older men are retiring. This means that young and old are overtaxed, and we need junior as well as manual assistants. It is for this absolutely essential internal scientific work of the Museum that provision must be made by new Endowment, for it cannot be provided for by special gifts.

*See "The American Museum and the World," *Fifty-fifth Annual Report*, for the year 1923

SUPPORT BY MEMBERSHIP OF EIGHT THOUSAND

The most encouraging feature of the past year is the enthusiastic support and financial aid extended to the Museum by its Members in all parts of the United States and abroad. As this Report goes to press, there are 7,952 Members on our rolls.

Last spring, when a special fund was needed to hasten the preparation and exhibition of the wonderful collections received from Asia and Polynesia, all our Members were advised by
Emergency circular, and responses came promptly from 123
Preparation members, residing in seventeen States. The total
Fund amount contributed was \$35,125.00, \$20,347.50 of which was available for 1924 and \$14,777.50 for 1925.

For the new five years' exploration by the Third Asiatic Expedition, a similar call was made, both to Members and to non-Members.

Third Responses came from 234 persons, residing in twenty-
Asiatic five States of the Union, also in Switzerland, Hawaii
Expedition and Porto Rico. The total amount subscribed was \$245,000.00, including the generous amounts pledged by members of the Board of Trustees. Thus, many new friends of the Museum, not hitherto on our rolls, became Members, and their names will be found enrolled in the respective classes of membership in this Report. Others aided the Expedition by articles in the newspapers, journals and magazines. The Expedition also received constant and enthusiastic support from ASIA Magazine.

In the succeeding financial section of this Report, it is shown that, whereas the financial burdens of the Museum were formerly borne solely on the shoulders of the Trustees, they are now largely borne by Members, while the Trustees are still doing their full and generous share in promoting the scientific work of the Museum.

FRIENDLY COOPERATION IN OTHER COUNTRIES

Before starting out on their various expeditions, our leaders are advised that they must carry the good name of the American Museum with them and must everywhere establish our principles of open and fair dealing and friendly coöperation. They are also cautioned to obey the laws of the various countries and not to take

advantage of these countries through intrigue or through bribery of officials.

The men whom we have selected as leaders—Chapman, Brown, Andrews, Lang, Chapin, Beck, Akeley and many others—have soon won not only the confidence but the friendship and esteem of the officials and natives in the countries visited.

A signal example of this kind is the friendly feeling won in distant Mongolia by Mr. Roy C. Andrews and his staff. First regarded by the natives with fear and suspicion, they are now welcomed and aided in the most kindly manner. In Urga, the capital of Mongolia, we have won many friends, including especially Mr. C. Badmajapoff, Adviser to the Ministry of Justice of the Mongol Government, who is now on our rolls as a Life Member, as is also Mr. Franz A. Larsen, an influential resident and factor. In Peking, Mr. Andrews has enjoyed the uninterrupted confidence of the Chinese through several changes of government, and reports (December 14) that he is equipping the new expedition with Chinese approval and states that he has the official approval of the Urga Government for the continued exploration of Outer Mongolia.

Another recent instance is the friendly support we have received in Greece through our Members, Mrs. Mary Tsipouras and Mr. Demitrios Papadimitriou, Barnum Brown thereby securing permission from the Greek Government to despatch the Samos collection of fossils to the Museum as an expression of thanks from Greece to the American people for the many benefits given.

In the Whitney Expedition to Polynesia, we have enjoyed the cordial support not only of the Trustees and Director Herbert E. Gregory of the Bernice P. Bishop Museum of Honolulu, but the sanction of the British and Japanese Insular Governments. We trust that the support of France will soon be continued.

In India, Colonel Faunthorpe secured for us the more than friendly support of the Viceroy, Earl Reading, and of the Maharajahs of Nepal and Mysore, as well as the very active cooperation of all the British officials in India and Burma. The Viceroy was of great aid to Mr. Barnum Brown in the Expedition to the Siwaliks.

We desire to express our warm appreciation to the representatives of these various governments for their cordial assistance, which is tending to spread civilization and to establish a better understanding and a more friendly feeling between the various peoples of the world. The American Museum will reciprocate by sending out duplicates of its prepared materials and of its educational exhibits so far as it is practicable. The most recent and gratifying example of this kind is our despatch to Urga, the capital of Mongolia, of a series of splendid casts of fossils and restorations of extinct animals which formerly roamed over the roof of the world.

We also especially desire to express our appreciation of the most cordial interest of Secretary of State Charles E. Hughes and his staff, through whom we have enjoyed diplomatic and consular assistance throughout the world.

THIRD ASIATIC EXPEDITION TO CHINA AND MONGOLIA

This expedition has succeeded far beyond our fondest hopes and far beyond the promises made by Leader Andrews to the various contributors and backers of this great scientific enterprise. It is now known in all parts of the world and is recognized as one of the most important scientific undertakings of our times. The reason of this is threefold:

First, the leader, Mr. Andrews, and his staff, Messrs. Granger, Berkey, Morris, Colgate, Pope, Young, Kaisen and Olsen, were by experience and temperament eminently fitted for their great task; the team work was perfect; the equipment, planned by Andrews, rose to the severe demands put upon it.

Second, this staff entered upon an exploration in which every contingency had been carefully thought out and provided for, but even with all these promising elements, the expedition would have been unsuccessful had it not been for the astonishing series of discoveries which rapidly succeeded each other from the moment the Gobi Desert was reached to the last stages of the great tour of 3,000 miles. Here is where experience came in. The hard school of fossil-hunting, through which Granger, Kaisen and Olsen had been in the Rocky Mountain region, and the long geological and geographical experiences of Berkey and Morris facilitated both discovery and interpretation and led to new discoveries.

Third, the fortunate inclusion in these discoveries of certain elements of a romantic nature, such as the giant *Baluchitherium*, the giant flesh-eating *Andrewsarchus*, the buried colony of primitive horned dinosaurs, *Protoceratops*, in all stages of growth, and last but not greatest in the world of imagination, the nine nests of dinosaur eggs. The latter immediately became household words in every language reached by telegraph and the press. Thereby public interest was aroused, and the sinews of war were obtained not only for the solid and serious scientific research, which the continuation of the expedition demands, but for the publication of a series of twelve volumes of scientific results, to be known as "The Natural History of Asia."

With the extended or new funds, amounting to \$245,000, or about \$50,000 a year, to be distributed over five years, the Third Asiatic Expedition enters upon a new period of exploration and discovery, far more confident than we were three years ago when the expedition started out. Enjoying the coöperation of the Field Museum of Natural History, the expedition will make a thorough search for the large and small mammals included in the whole area, in order to round out the superb collections already obtained, among the desired new forms being especially the wild camel, the wild horse and the northern species of tiger, as well as additional desert and mountain forms.

The year 1925 will include a wide geological reconnaissance, extending to the west, northward and southward of the region already covered by Andrews, Berkey, Morris and Granger. A very able botanist, Professor Ralph W. Chaney of the University of California, is added to the staff and will cover both the botany and palæobotany of the region. Doctor James P. Chapin joins the staff in the field as soon as he has completed his researches and publications on the birds of the Congo region, while archaeological explorations will be carried on by Mr. N. C. Nelson.

After personal examination of the ancient geologic and zoölogic conditions in Mongolia, Professor Osborn is convinced that this is one of the most likely places in the world to find the ancestors of man,* and determined efforts will be made to discover and describe remains of this most rare and elusive member of the Order of

*See Professor Osborn's article in ASIA Magazine, Vol. 24, pages 427-431, 489, 499, for June, 1924, "Where Did Man Originate? The Fitness of the Central Asian Plateau for Such a Terrestrial Animal as Fossil Man."

Primates. The palæolithic man has recently been discovered in the northern borders of China by two French explorers, and, while we are by no means confident, we feel that the prospects of finding the Tertiary ancestors of man in this region are better than anywhere else.

PREPARATION AND EXHIBITION OF FAUNTHORPE-VERNAVY AND NORTH-ASIATIC COLLECTIONS

The most striking instance of scientific good-will between two countries is to be found in the organization and highly successful completion of the Faunthorpe-Vernay Indian Expedition, suggested in 1921 by Colonel J. C. Faunthorpe, then Commissioner of Lucknow, India, and followed by the extensive participation and generous financial support of Mr. Arthur S. Vernay. The final result of two seasons' work by these sportsmen in India and Burma is the splendid series of large game animals of India, perfectly prepared for the severe test of mounting for exhibition in the new Asiatic Hall. This series includes especially the wild Indian elephant, the very rare Indian rhinoceros, the northern variety of the Sumatra rhinoceros from Burma, fine group material for the tiger, the buffalo and the nilgai. The space of the entire Asiatic Hall will not be too large for this important series of south-Asiatic groups and single exhibits; consequently, the Trustees have set aside this hall for our south-Asiatic collections.

The superb series of north-Asiatic mammals, collected by Leader Andrews of the Third Asiatic Expedition, will almost fill the North Asiatic Hall of the Southeast Pavilion, according to our new plans. The arrangement provides for all the noble plains, mountain and alpine fauna of northern Asia, such as the larger wild quadrupeds, the ibex, the goral, the takin, the Altai sheep, collected in northern China in the Altai Mountains, to be exhibited in great habitat groups around the sides and in the center of this pavilion. The southern space of the South Pavilion will be appropriately reserved for the North Polar collections of mammals and birds, which will not suffer from actinic rays of the sun, while the northern Asiatic and the southern Asiatic collections of mammals and birds will occupy the darkened and artificially illuminated spaces

which will preserve the delicate colors of these animals for all time, without fading.

It was especially for the purpose of preparing and mounting these superb south and north Asiatic mammals in the most perfect and modern manner that the call was made for the Emergency Preparation and Exhibition Fund, to which our Trustees and Members have contributed the generous sum of \$35,125, as described above. The South and North Asiatic Hall work will be under the guidance and design of Assistant Director James L. Clark, who is increasing his preparation staff as rapidly as capable men can be found, whose requirements in salaries or wages do not exceed the resources of the Museum. The closest study is being given to the selection and arrangement of the great mammal groups in the two south and north Asiatic Halls, so that they will form a continuous natural sequence as in the case of the great mammals of the North American Hall. As recommended by our former Director, Doctor Lucas, and by assistant Director Clark, the entire series of North American mammals will be rearranged, so that on entering from the present eastern corridor of the Central Pavilion, the visitor will pass through North America, northern Asia, entering southern Asia, exactly as a traveler might have journeyed through these countries before the noblest specimens of animal life were destroyed. This educational sequence will be continued when the visitor passes through the Roosevelt Memorial Hall and enters the African Hall.

Thus, after twenty years of continuous effort and a very large expenditure, including a number of most generous gifts, the Museum is in a position to make a beautiful and permanent exhibition of all the great mammals of the northern hemisphere, in a setting of backgrounds which will display their natural habitat and conditions of life.

AFRICAN MAMMAL PREPARATION AND HALL

Since the year 1911, Mr. Carl E. Akeley has been continuously engaged in perfecting plans and methods for a complete exposition of the mammalian life of Africa in the African gallery and hall. His original designs of this hall, completed and published in the year 1914, presented a new conception of the darkened hall, with habitat groups surrounding it, artificially illuminated, thus avoiding alteration of color through the action of sunlight. This

plan has been carried out for North American Mammals with brilliant success by the California Academy of Sciences in the Museum at Golden Gate Park, San Francisco, showing that it is entirely practicable, as well as artistic. The result accords with the best modern theory of museum arrangement, namely, that the specimens should dominate the vision and not the exhibition cases. This same idea controls the rearrangement of our North American and Asiatic mammals just described.

During the early years of his service to the Museum, Mr. Akeley invented an entirely new method of mounting, which is nobly exemplified in his African Elephant Group, far more artistic and lifelike than his previous method. This was followed by the invention of the Akeley camera, which has superseded all others in the motion picture field work, on both land and sea. All our expeditions are now equipped with this camera, and through its perfect operation and quick action wonderful field records are being obtained in all parts of the world.

Advised by Mr. Akeley, Mr. Clark has mounted the series of white rhinoceroses presented by Mr. John H. Prentice and those secured by the Congo Expedition. Mr. Akeley has himself mounted the okapi. In 1921, Mr. Akeley made another expedition to Africa, in the Kivu region, to secure complete material for the gorilla group; this group is practically completed and affords the finest example of Mr. Akeley's new art in mounting and modeling, especially in the facial expression of these great primates. The lion group is now in preparation, part of the material having been secured by previous expeditions and part from Mr. Akeley's own collections. Now that the preparation of the mammal groups is fairly under way, three steps are necessary to carry out the great African Hall plan:

First, the collecting of fine specimens of rare African mammal skins and skeletons not included in the collections already made by Tjäder in 1906, by Rainsford in 1912, by Lang and Chapin in 1909-1915, by Akeley in 1909-1911, by Clark in 1922, supplemented by those purchased from time to time. A new step in this direction is the Vernay Angola Expedition to Portuguese East Africa, from which the Museum hopes to secure Varian's sable antelope, giraffe, brindled gnu, gemsbok, kudu, eland, buffalo, black rhinoceros, mountain zebra, etc. This expedition is the donation of Mr. Arthur S. Vernay and will be fully described in the next Annual Report.

Two fine skins of the female bongo (*Boocercus isaaci*) have recently been presented by Mr. Alfred J. Klein. The male bongo is still a desideratum. A complete list has been prepared of the African mammal collections of the Museum and of our desiderata. American and British sportsmen, now entering Africa, would render a very great service to the American Museum by collecting some of the gaps in our series and preserving the skins and skeletons instead of simply cutting off the heads for exhibition in their studios as perishable trophies of their sportsmanship.

Second, it is necessary to finance the collecting, preparation and mounting of the African Hall mammal groups and accessories. For this purpose a large amount of money is needed for the annual expenditure in the field and in the Museum. It is difficult to give an exact figure, but it is believed that \$30,000 a year during the next ten years will be needed, in addition to the amounts which the Museum may set aside from the income of its new Endowment Funds, if secured. This is a minimum figure. The maximum amount estimated by Mr. Akeley involves a ten-year total of \$1,000,000 for the African Hall and African Gallery.

Third, the African building section, opening to the west from the Roosevelt Memorial, will cost not less than the Asiatic Section just completed at a total cost of \$944,800. The economy in building the exterior walls of the African section with brick will be offset if Mr. Akeley's proposal to widen the walls of the first, second and third floors is approved. We may roughly estimate this building section, with complete case equipment, at not less than \$1,000,000. The basement, the first floor, the fourth floor and the attic, as at present planned, will be devoted to other natural history exhibitions.

In order to promote these three great purposes and to enlist the interest of a large number of American and British sportsmen in making this a permanent and correct record and Valhalla of African life, the Trustees have approved the formation of a *Committee of Fifty*, with Mr. Frederick Trubee Davison as Chairman, and to include all those members and friends of the Museum, at home and abroad, who have manifested an especial interest in the natural history of the Dark Continent. This Committee will include the field collectors, sportsmen, patrons, and a number of leading African officials who have aided our previous expeditions. Membership will be regarded as a privilege rather than as an obliga-

tion—the privilege of supporting this enduring exhibition of the wonders of African animal life and scenery.

WORLD PHOTOGRAPHIC LIFE RECORDS

From the birth of the Department of Education, under Professor Albert S. Bickmore, in 1880, there has been a steady growth in photographic world records. This began with the still pictures taken in home and foreign countries and extended under Professor Bickmore to the series of beautiful botanical lantern slides. With the introduction of the fast camera and the moving picture camera, the Museum entered a new era of recording still and moving life by equipping each of its field expeditions with modern apparatus. With the invention of the Akeley camera, the third period was entered and the imperfections of earlier moving films were eliminated. The Akeley camera is so perfect that the small film negative one inch square is capable of being enlarged to display the finest details of an animal in full motion—an animal moving at a speed of forty miles an hour, as in the case of the wild asses photographed in the Gobi Desert by Mr. Andrews.

Our collection of photographs has been greatly enriched by many generous donations, either of original negatives or of prints secured by other explorers who have sought to make their life work permanent by depositing their negatives in the Museum. The present sum of these collections in the care of the Educational Department is as follows:

Total number of negatives from principal regions of the world,	85,000
Number of colored and uncolored lantern slides ready for circulation,	70,000
Number of feet of motion picture films which the the Museum is at liberty to use,	95,618

The School Service Building, which is now in course of erection by the City at a cost of \$691,800, will relieve the present crowded quarters of our Educational Department and will facilitate the preservation and dissemination of these priceless negatives. Another purpose of our world photographic system is to secure, before it is too late, records of the fast-vanishing mammal and bird life of the world.

Chiefly to promote the visual educational system of the Museum, the Martin Johnson African Expedition was organized. At Martin his own suggestion, Mr. Daniel E. Pomeroy, aided by Johnson Mr. Davison of our Board and one or two others, African offered to form an independent corporation to finance Expedition at least five years of additional photographic work, to provide Mr. Johnson with the very best photographic equipment, in addition to the Akeley camera, and to establish him at a permanent base, from which expeditions could be made in various centers where the game still abounds. To the very large sum provided by these benefactors, the Museum from its own funds has voted \$5,000 annually, and before the close of the year 1924, Mr. Johnson's base camp was well established, and very encouraging reports have already been received.

The Martin Johnson African Expedition, now established in its permanent headquarters, northeast of Nairobi, is due first to the enthusiasm aroused by the still and motion photographic records brought back by Martin Johnson and exhibited in the year 1923, as the result of his and Mrs. Johnson's many years' work. These records were recognized on all sides as far superior even to the previous photographic work of Dugmore, of Rainsford, of Barnes and of many others, and, through donation by Mr. Johnson, are now preserved in the Museum's film archives. It is conceded that his photographs are of great value in preserving through faultless photographic technique the details of animal life, combined with the exquisite beauty of surrounding nature. The value of this rare combination was at once recognized, as was the possibility of extending and completing these priceless records.

WHITNEY POLYNESIAN EXPEDITION FOR BIRDS

Our total collections of birds, according to the Fifty-fifth Annual Report, page 23 and Map VII, comprise 250,000 specimens. They represent 2,500 of the 2,810 genera recognized in Sharpe's Hand-List. There are still 289 Old World genera and 23 New World genera not represented in our collections. Of the regions covered, we are very strong in North America; we are becoming so in South America; through early collections, Europe is fairly well represented; through the Congo collections, we are very strong in Central Africa, and through our Asiatic Expedition we are gaining



Trowbridge & Livingston, Architects

PROJECTED AFRICAN HALL
After Plans by Carl E. Akeley

in our collections from Asia. Since Doctor Leonard C. Sanford became a member of our Board of Trustees in 1921, he has devoted himself to filling many gaps in our collection of birds, especially many of the rare and nearly extinct birds of the world, and through his own generous gifts and efforts in interesting others, the balance in our favor, as compared with our sister institutions in America and in Great Britain, has risen rapidly, until now the Museum occupies in Ornithology the rank more nearly commensurate with that which it holds in other departments. The insular birds are very rare except in the older museums in Great Britain, which began their collections before the period of rapid extinction by civilization and the ravages of the feather trade: consequently, one of the greatest steps forward in the history of the American Museum was the organization of the Whitney Polynesian Expedition, brought about through the enthusiasm of Doctor Sanford, the munificent aid of Mr. Harry Payne Whitney, the enlisting of the priceless services of Mr. Rollo H. Beck, and finally the entrance on the Museum staff of Doctor Robert Cushman Murphy, who was placed in charge of this great enterprise. As fully summarized below by Doctor Murphy, the collections excel all others in extent, in beauty and in scientific interest, and collectively will form the subject of a splendid series of publications on the bird fauna of Polynesia.

We are especially indebted to our friend Director Herbert E. Gregory of the Bernice P. Bishop Museum of Honolulu for sending us a superb collection of the extinct and still living birds of the Hawaiian Islands, which otherwise could not have been prepared.

We trust that this great expedition will continue for from five to seven years, namely, from 1926 to 1932, the period which Doctor Sanford estimates will be required to make it complete, and that we shall receive the continued support or the renewed support of the British, French and Japanese governments, through insular officials. The greatest care has been taken by our collector, Mr. Rollo H. Beck, not in any way to abuse the privileges we have enjoyed under these permits, or in the case of rare birds to extend the number taken beyond the minimum requirements.

FINANCIAL POLICY AND \$3,900,000 OF NEW ENDOWMENT NEEDED

The financial policy of the Museum is twofold:

First, to conserve and increase with the utmost care and intelligence the \$11,022,065.93 Endowment Funds now in our keeping. This is accomplished through the interest and devotion of our Treasurer, Mr. George F. Baker, Jr., and of the Finance Committee consisting of Messrs. George F. Baker, Jr., George F. Baker, Sr., Walter Douglas, A. Perry Osborn and Felix M. Warburg. In matters of investments, this Committee is aided by the Advisory Committee on Investments, consisting of Mr. Arthur M. Anderson of J. P. Morgan and Company, Mr. Francis D. Bartow of the First National Bank, and of Mr. Charles E. Mitchell of the National City Bank, who have given us unerring advice, especially since the abrogation of the rule limiting our investments arbitrarily to those selected for state or charitable institutions.

Second, our financial policy has been directed to arouse widespread personal interest in the educational and scientific purposes of the Museum among city officials as well as among our members and friends in all parts of the United States, and thereby to increase our maintenance funds, as well as gifts for Special Funds and gifts to Endowment. A friendly rivalry in generosity has thus been aroused between the officials of the City of New York and the Trustees and friends of the Museum in supporting and advancing the educational and scientific work of the Museum.

During the seventeen-year period, 1908 to 1924, the gifts of Trustees and Members have been constantly increasing, both in amount and in variety, as the plans, purposes and projects of the Museum have broadened. This gratifying result is displayed in the following summary:

Contributions for all the Purposes of the Museum, 1908-1924:

By Trustees and Members of the Mu-	
Museum,	\$12,358,788.40
By the City of New York,	<u>7,107,531.22</u>
Grand total by Trustees, Members and	
Taxpayers,	\$19,466,319.62

A subdivision of these figures clearly displays the increasing interest aroused in the work of the Museum, both on the part of the City and of the Trustees and Members, as shown Table I:

I.—SUMMARY OF RECEIPTS FROM PUBLIC AND PRIVATE SOURCES (EXCEPT INCOME ON ENDOWMENT)
SEVENTEEN-YEAR PERIOD, 1908-1924

	City Maintenance Appropriations	City Building Appropriations	Gifts, etc. to Endowment Fund	Gifts for Exploration Research and Publications	Trustees' Contributions to Budget Deficiencies	Grand Total
1924.....	\$342,320.28	\$10,000.00	\$128,574.64	\$216,983.57	\$82,533.96	\$780,412.45
1923.....	342,313.36	348,750.00	377,522.50	137,998.11	38,000.00	1,244,583.97
1922.....	344,498.77	680,975.00	1,821,178.19	146,366.22	39,500.00	3,032,518.18
1921.....	351,547.46	1,500,000.00	47,469.15	227,910.65	35,349.48	2,162,276.74
1920.....	310,983.13	115,000.00	1,105,232.56	103,975.90	26,350.00	1,661,541.59
1919.....	200,000.00		119,500.00	59,115.83	23,350.00	401,965.83
1918.....	225,000.00		11,900.00	63,710.29	35,350.00	335,960.29
1917.....	212,700.00		517,043.00	58,368.09	59,000.00	847,111.09
1916.....	212,999.00		1,793,699.79	175,595.31	43,500.00	2,225,794.10
1915.....	200,000.00		2,753,050.00	71,422.87	38,500.00	3,062,972.87
1914.....	200,000.00		8,556.72	58,321.51	46,000.00	312,878.23
1913.....	200,000.00	25,000.00	15,300.00	68,734.53	64,000.00	373,034.53
1912.....	195,000.00		17,100.00	106,575.94	48,850.00	367,525.94
1911.....	189,757.00	275,000.00	26,070.37	80,343.03	29,600.00	600,770.40
1910.....	185,757.00		132,000.00	89,648.88	13,000.00	420,405.88
1909.....	179,999.60	100,000.00	12,000.00	94,091.39	2,000.00	388,090.99
1908.....	159,930.62		1,000,000.00	69,045.92	19,500.00	1,248,476.54
	<u>\$4,052,806.22</u>	<u>\$3,054,725.00</u>	<u>\$9,886,196.92</u>	<u>\$1,828,208.04</u>	<u>\$644,383.44</u>	<u>\$19,466,319.62</u>

The above figures show that, generous as have been the taxpayers of the City, they have not been able to keep pace with the Trustees and Members. The obvious explanation of this is that the taxpayers, through the Board of Estimate and Apportionment, are also maintaining many other educational institutions, the schools, the museums, the libraries, the New York Zoological Park, the New York Aquarium, and the New York Botanical Garden, all of which are entitled to their due share of the funds which the City can devote to educational purposes of this kind.

It is also obvious that the extension of our building and the constant enlargement of our collections, with the care thereof, as well as the increasing number of visitors, will call for steadily increasing maintenance allowances to the American Museum. The taxpayers of the City must be prepared to increase the maintenance fund of our own and other institutions as our population and wealth grow.

The subdivisions of gifts to Endowment and to Scientific Work may be seen from Table II:

II.—SUMMARY OF PRIVATE GIFTS TO ENDOWMENT AND TO SCIENTIFIC WORK

SEVENTEEN-YEAR PERIOD, 1908–1924

	By Our Trustees	By Members and Friends	Total	Total Income from Endowment
1924.....	\$123,783.96	\$304,308.21	\$428,092.17	\$547,205.32
1923.....	286,987.50	266,533.11	553,520.61	524,966.68
1922.....	342,550.00	1,664,494.41	2,007,044.41	496,643.09
1921.....	155,724.48	155,004.80	310,729.28	404,360.15
1920.....	148,650.00	1,086,908.46	1,235,558.46	426,477.97
1919.....	123,350.00	78,615.83	201,965.83	341,507.07
1918.....	58,350.00	52,610.29	110,960.29	339,289.44
1917.....	73,508.94	560,902.15	634,411.09	330,231.50
1916.....	165,627.50	1,847,167.60	2,012,795.10	241,192.23
1915.....	57,000.00	2,805,972.87	2,862,972.87	176,330.49
1914.....	63,993.75	48,884.48	112,878.23	109,604.99
1913.....	76,286.85	71,747.68	148,034.53	111,680.15
1912.....	92,975.00	79,550.94	172,525.94	109,983.92
1911.....	60,314.29	75,699.11	136,013.40	108,770.52
1910.....	156,725.00	77,923.88	234,648.88	95,318.63
1909.....	32,700.00	75,391.39	108,091.39	100,511.25
1908.....	1,034,152.63	54,393.29	1,088,545.92	50,565.00
	<u>\$3,052,679.90</u>	<u>\$9,306,108.50</u>	<u>\$12,358,788.40</u>	<u>\$4,514,638.40</u>

The practical question in the mind of every lover of education and of every economist is whether people are responding in attendance and in appreciation as rapidly as the costs are rising. An estimate of the parallel between increased expenditure and increased service may be formed by studying the accompanying three columns of figures, Table III:

III.—TOTAL EXPENDITURES AND TOTAL PUBLIC SERVICE
SEVENTEEN-YEAR PERIOD, 1908–1924

	Grand Total of Expendi- tures Trustees and City	Total Attendance	Grand Total Reached by School Service
1924.....	\$1,184,502.41	1,633,843	6,925,708
1923.....	1,063,514.25	1,431,722	5,572,873
1922.....	1,037,665.06	1,309,856	4,440,716
1921.....	1,060,612.98	1,174,397	1,329,378
1920.....	834,875.84	1,038,015	1,403,875
1919.....	639,477.19	868,462	1,016,234
1918.....	634,187.76	691,338	858,669
1917.....	686,919.53	901,953	1,200,444
1916.....	593,397.08	847,675	1,214,564
1915.....	448,083.22	920,088	1,332,818
1914.....	416,294.63	808,943	1,339,643
1913.....	481,680.25	866,663	1,435,498
1912.....	437,541.74	846,963	1,325,762
1911.....	406,161.27	724,141	1,292,814
1910.....	372,121.87	613,152	863,983
1909.....	367,488.55	839,141*	958,743
1908.....	291,596.64	1,043,582*	614,980
Grand Totals.....	\$10,956,120.27	16,559,934	33,126,702

The attendance figures in the above table for 1908 and 1909 are partly misleading, because they are swollen by the attendance at the exhibition installed by the Museum for the International Tuberculosis Congress. The normal annual increase in attendance begins in 1910, from which it appears that with slight fluctuations there is a steady rise to the present total attendance of approximately 1,600,000 in 1924. The ratio between the expenditures and service is also displayed, beginning in 1910 and ending in 1924. While the attendance has more than doubled, the costs have

*The year of the International Tuberculosis Congress.

nearly trebled. This is because the Museum is much larger, the exhibits are more varied and beautiful, and the maintenance and operating costs are 120% higher than in 1910.

From such figures as are presented in the three columns above, a rough estimate may be readily formed of the total expenditures when the *sixteen* building sections are completed, as compared with present costs when only *eight* building sections are completed and in operation. We are making every effort to enter and open for the public the three new sections: the Asiatic, the Oceanic and the School Service Building. The total costs when the sixteen sections are completed will also rise in the proportion of 16 to the present 8. It is on figures like these that we base our estimates that to operate the Museum in the near future the Endowment Funds of the Museum must be increased from the present figure of \$11,022,065.93 by the additional sum of \$3,900,000.

Details regarding our present Endowment will be found in the report of the Treasurer below.

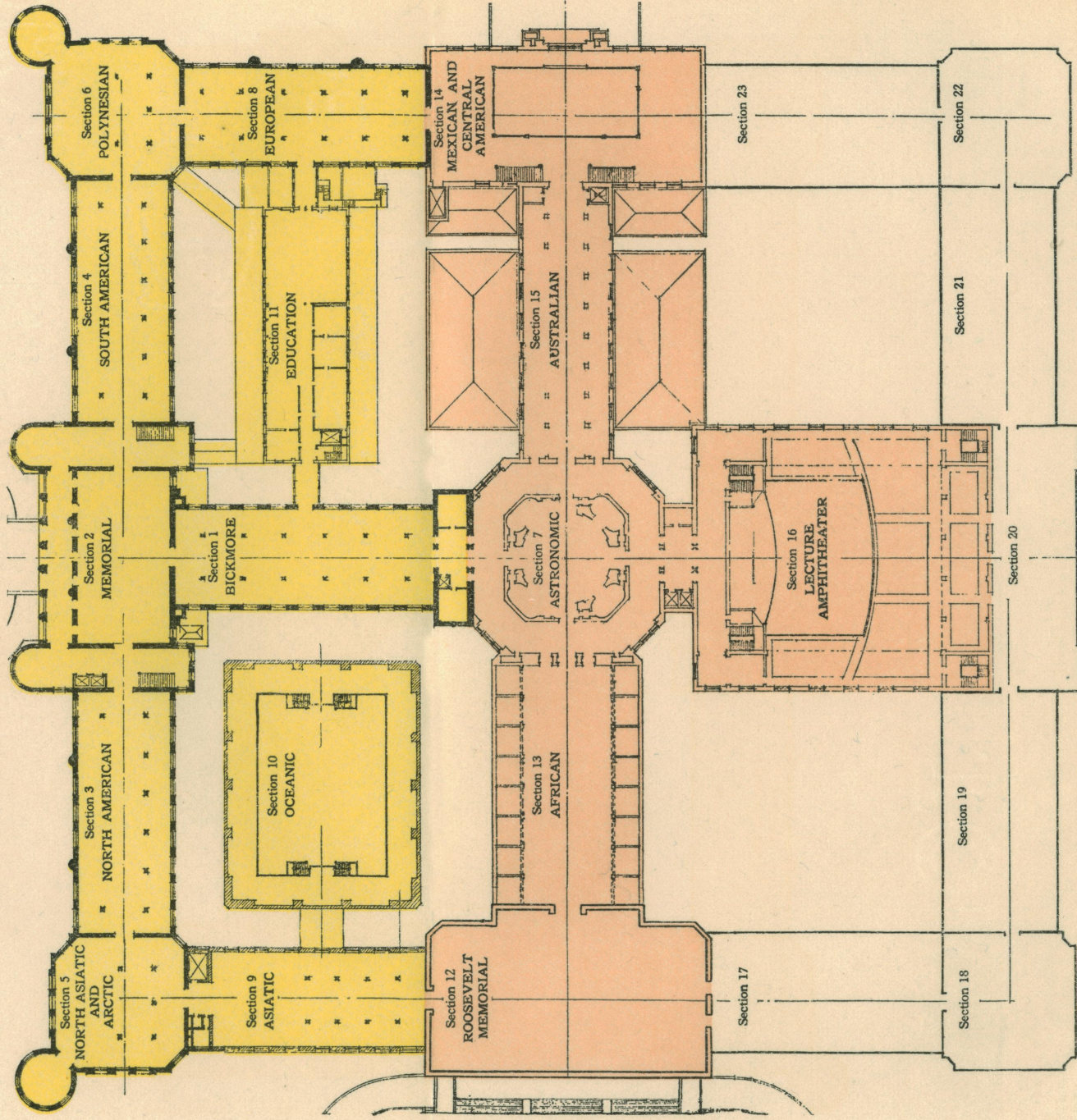
COMPLETION OF THE NATURAL HISTORY MUSEUM BUILDING

In the Fifty-fifth Annual Report, pages 28 and 29, are clearly displayed our present plans regarding the educational distribution of our world collections on the four exhibition floors of the completed Museum. As it is desirable to keep this arrangement constantly in the minds of Trustees and Members, as well as in the minds of other friends and benefactors, this key to the arrangement of the sixteen building sections is reprinted, with such modifications of plans as have been decided upon during the year 1924.

In previous Annual Reports, beginning with 1910 when the Trustees approved the President's *History, Plan and Scope* of the Museum, copies of which may be secured on application to the Librarian, successive estimates have been made of the cost of the sixteen building sections, for which plans have been prepared. These cost estimates have been rising steadily, and while they may remain for some time at the present level, there is little prospect that they will substantially decrease. We have requested our architects to give revised estimates for the year 1924 of the projected sections. These estimates will include provision for *building* and *equipment*, because a building is of no use until it is equipped

SIXTEEN BUILDING SECTIONS FOR WHICH PLANS HAVE BEEN PREPARED

1924



PROGRESS OF THE SIXTEEN BUILDING SECTIONS AND KEY TO ARRANGEMENT OF EXHIBITION HALLS*

<i>Names of Sections</i>	<i>First Floor</i>	<i>Second Floor</i>	<i>Third Floor</i>	<i>Fourth Floor</i>
1. Bickmore	Northwest Coast Indians	Birds of the World (Elliot Hall)	North American Bird Groups	History of the Earth I
2. Memorial	Jesup Memorial	World Bird Groups	Primates	Age of Man (History of the Earth V)
3. North American	Trees of North America	North American Mammals (Allen Hall)	Mammals of the World (Buffon Hall)	Age of Mammals (Osborn Hall)
4. South American	Indians of Eastern North America	African Life	Siberia	Minerals and Gems (Morgan Hall)
5. North Asiatic and Arctic	Darwin Hall of Evolution	North-Asiatic Polar Life	Insect Life	Closing Age of Dinosaurs (History of the Earth IV)
6. Polynesian	Indians of the Plains	Prehistory of South America	China and Japan	Races of Man
7. <i>Astronomic</i>	Meteorite Hall	Cosmic Geography	Gallery	The Firmament
8. European	Indians of the Southwest	Ancient Peru	Peoples of Malaysia	Evolution of Human Culture
9. Asiatic	Fishes of the World	Mammals of Southern Asia	Reptiles of the World	Early Age of Reptiles (History of the Earth III)
10. Oceanic	Sea Mammals of the World	Mollusks		
11. Education	Nature and Man			
12. Roosevelt	Association Headquarters	Roosevelt Memorial	Roosevelt Memorial	Gallery
13. <i>African</i>	Land Mammals of the World	Mammals of Africa	African Natural History	History of the Earth II
14. <i>Central American</i>	Mexican	Maya	Central American Culture	Pacific Island Peoples
15. <i>Australian</i>	California and Plateau Indians	South American Tribes	Life of Australia	Study Hall (Crafts and Textiles)
16. <i>Lecture Amphitheater</i>				

*Bold face type indicates Sections completed or appropriated for; italics indicate Sections planned for future construction.

with exhibition cases. The cost of the Museum building may be divided into two lots, namely, sections completed or appropriated for, and sections planned but not appropriated for.

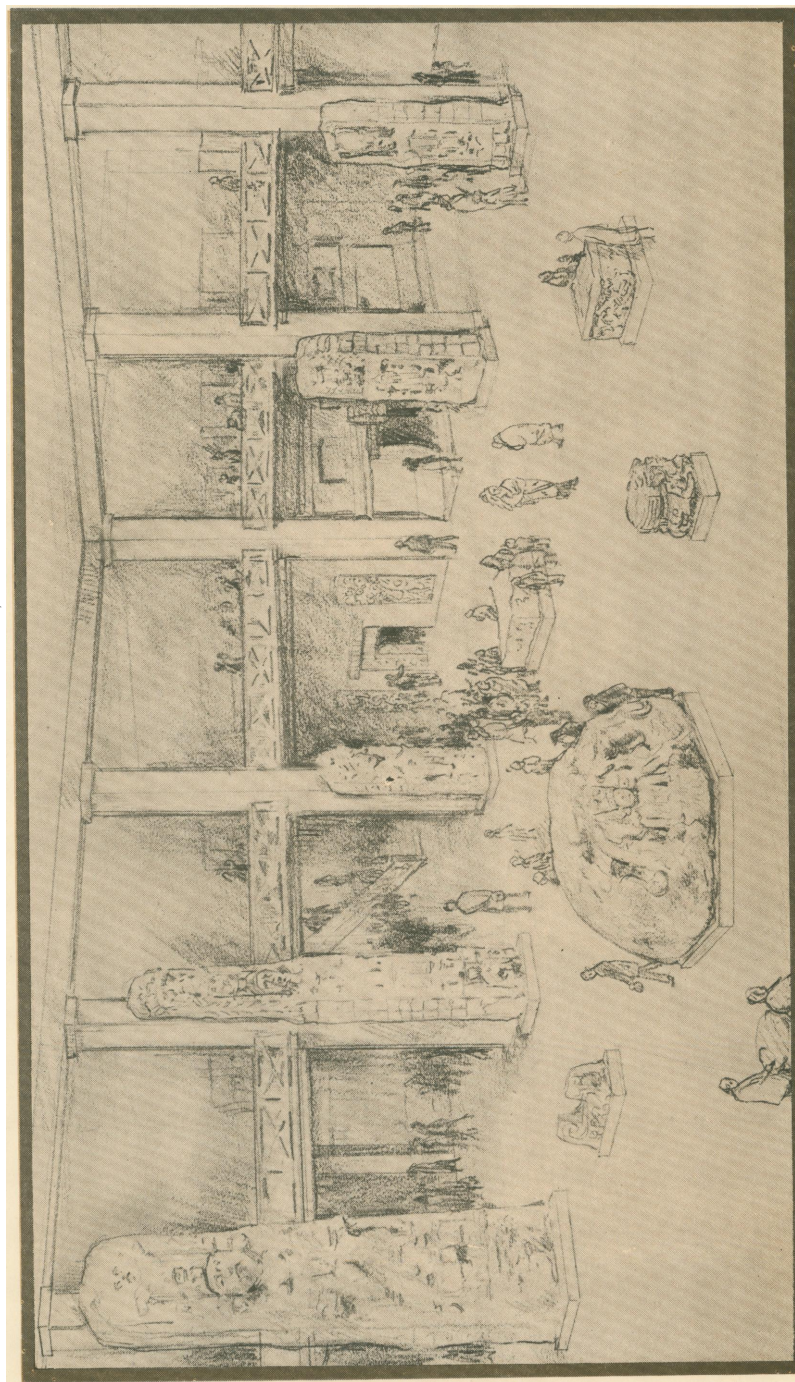
TWELVE SECTIONS COMPLETED OR LEGISLATED FOR TO
THE YEAR 1925

				Approximate Cost
1874-1877	Section 1—Bickmore	Erected by the City		\$700,000.00
1890-1891	Section 2—Memorial	" " " "		800,000.00
1894-1895	Section 3—North American	" " " "		600,000.00
1895-1897	Section 4—South American	" " " "		511,775.00
1897-1899	Section 5—North Asiatic and Arctic	" " " "		529,002.50
1897-1899	Section 6—Polynesian	" " " "		417,632.50
1899-1900	Section 7—Present Lecture Hall	" " " "		108,900.00
1906-1908	Section 8—European	" " " "		511,090.63
1922-1924	Section 9—Asiatic	" " " "		1,500,000.00
1922-1924	Section 10—Oceanic	" " " "		
1924-	Section 11—Education	" " " "		691,800.00
				<hr/>
				\$6,370,200.63
	Supplementary Equipment for Sections 1-11, 1900-1924			1,604,345.85
				<hr/>
	Total cost from City Appropriations.....			\$7,974,546.48
1924-	(Section 12)—Roosevelt Memorial State of New York.....			\$2,500,000.00
				<hr/>
	Total cost, by City Appropriation and State Legislation			\$10,474,546.48

SECTIONS PLANNED BUT NOT APPROPRIATED FOR

	Approximate Cost
Section 13—African.....	\$870,105.00
Section 7—Astronomical (submitted to Carnegie Corporation).....	1,246,000.00
Section 14—Mexican and Central American.....	2,400,000.00
Section 15—Australian.....	679,900.00
Section 16—Lecture Amphitheater, seating capacity 3,800.....	3,032,640.00
	<hr/>
	\$8,228,645.00

An application has been made to the existing Board of Estimate and Apportionment for an appropriation of \$147,900 of corporate stock to complete the case and storage equipment of the present



PROPOSED MEXICAN AND CENTRAL AMERICAN SECTION
Sketch of the Interior of the Maya-Aztec Hall

sections. This equipment is urgently needed, in addition to the \$257,142.99 set aside for case construction, equipment and furniture in the two new buildings, the Asiatic and Oceanic Halls. It will also be necessary to ask the Board of Estimate and Apportionment for \$200,000 to equip and furnish the School Service Building, now under construction. No further application will be made to the existing Board of Estimate and Apportionment for new buildings, because the Board will have well provided for these purposes, before the close of its term of office. Nor is it likely that the next incoming Board of Estimate, of 1926, will be in a position to make the large appropriations for the buildings required for the five new sections to be constructed, however friendly the new administration may be.

The Trustees and Members of the Museum, therefore, should make the most strenuous efforts to secure by gift to the City of New York the following building sections, upon renewal of the agreement of 1910 that the City would not regard these gifts as relieving it from its obligation to build, as expressed in our Charter and Contract.

The sections most urgently needed and the collections which they will house are as follows:

Section 13—AFRICAN HALL

Carl E. Akeley African Exhibits, floors II and III	
Geography of Africa, floor I	
History of the Earth and Economic Geology, floor IV	
Estimated cost.....	\$870,105.00

Section 7—ASTRONOMICAL HALL

Great Collection of Meteorites, floor I	
Solar and Planetary System, floors II and III	
Stellar System, floor IV	
Estimated cost.....	\$1,246,000.00

Section 14—MEXICAN AND CENTRAL AMERICAN

Mexican Collection, floor I	
Maya Collections, floor II	
Central American, floor III	
Pacific Island Peoples, floor IV	
Estimated cost.....	\$2,400,000.00

Section 15—AUSTRALIAN HALL

Life of Australia, floor III

California and Plateau Indians, floor I

South American Tribes, floor II

Study Hall (Crafts and Textiles), floor IV

Estimated cost..... \$679,900.00

Section 16—LECTURE AMPHITHEATER, after new plans with
seating capacity of 3,800, somewhat
similar to the Eastman Theater at
Rochester

Estimated cost..... \$3,032,640.00

There is no doubt that if one or more of these building sections could be secured by *gift*, the taxpayers of the City, through the Board of Estimate and Apportionment, would cheerfully appropriate the funds necessary to build Section 15—Australian, also the enlarged heating and lighting unit in the Northwest Court.

This program for the completion of the sixteen sections of The American Museum of Natural History, as at present planned, involves a total expenditure of \$8,228,645.00 for the five new sections, as compared with the total expenditure of \$10,474,546.48 for the erection and equipment of the twelve sections already completed, planned, appropriated or legislated for.

EXPLORATION, RESEARCH, PUBLICATION AND PUBLIC EDUCATION

As shown in previous Reports, these four great intellectual, moral and spiritual functions of the American Museum are all interrelated, as all phenomena of life are interrelated. The high intellectual and educational purpose is incomplete without the moral and spiritual purpose which it serves. Citations from the great sayings of Washington, Jefferson, Lincoln and Roosevelt, at the opening of this Report, all refer to the political, moral and spiritual estate of our people, as well as to their economic welfare. It is the incessant endeavor of the American Museum in education to inspire and uplift, as well as to instruct. It is our conviction that Astronomy is the most inspiring of all the branches of science, which makes us so urgent in pressing our claims for a series of buildings to occupy the great central Astronomic Section of the Museum, so that it may take its due share as the mother of all the natural sciences.

In the above summary by the President, the general principles and policy of the Museum's progress have been merely outlined. We necessarily omit many facts and details of the greatest interest in the five divisions or groups of subjects under which the work of the Museum is carried on in the seventeen departments embraced within these divisions, as shown on pages 29 et. seq. of this Report. The Museum is advanced with marked ability, devotion and personal sacrifice by the seventy members of our Scientific and Administrative Staffs.

The Acting Director, under whose immediate supervision all the scientific and administrative work of the Museum is carried on, will for the first time present the Director's report in a separate section. Mr. George H. Sherwood has not only filled this difficult office during the past year with signal ability but has advanced the cause of education in all departments of the Museum.

The head officers or curators will continue this Report in their own language for themselves and for their colleagues, giving stress in each department to progress and education during the year.



II. EDUCATIONAL AND SCIENTIFIC REPORTS

GEORGE H. SHERWOOD, Acting Director

The key-note of the President's Annual Report is *education*, and throughout the world the American Museum stands as a great exponent of visual education. Its exhibition halls; its groups, showing animals in their natural environment, and its carefully mounted individual specimens are great silent teachers that are daily revealing to the visitors the secrets of nature, while through its scientific and popular publications an even wider influence is given to its discoveries. The real basis of the Museum's contribution to education is the work of its several scientific departments. At the present time these number seventeen, namely: Astronomy, Geology, Minerals, Fossils, Lower Invertebrates, Insects, Fishes, Reptiles and Amphibians, Birds, Mammals, Comparative Anatomy, Anthropology, Comparative Physiology, Asiatic Exploration, Library and Publications, Public Health, and Public Education. They are devoting themselves to an equal number, at least, of the branches of natural science which come within the scope of the Museum. It is the results of the labors of the scientific staff in these departments which furnish the Museum with the material and scientific data which enable it to make its teaching effective.

The layman can scarcely conceive of the care that is taken by the members of our Scientific Staff to accurately interpret nature and faithfully represent it in the Museum. It matters not how seemingly trivial a detail may be, unless it tells the truth it has no place in the Museum of science. This is the ideal to which the Museum curator is devoting himself.

The unraveling of a truth and its presentation to the public are accomplished through four successive stages, namely: Exploration, Investigation, Publication, Exhibition. The average visitor to the Museum sees only the finished product and all too often it does not show the patience, the thought, the careful study that have gone into its creation. Our habitat groups of birds and other animals have attracted world-wide attention and have been universally admired for their beauty, accuracy and their instructive value. Each one of these groups has passed through these four stages.

Foundation
of Museum's
Educational
Work

The
Museum's
Method

The first stage, *exploration*, may lead the man of science into the remote corners of the earth and involve years of patient toil. Again, it may mean the closest application to a small area close at hand and be robbed of all the glamour of distant travel. The presentation of the great variety of minute life that is to be found in two square inches of the sea bottom calls forth, on the part of the scientist, the greatest amount of patience, care, microscopic study, ingenuity and skill. Similar qualifications and a like devotion are necessary if the story of the rocks is to be told; if the meaning of fossils is to be made clear; if man's early history is to be revealed, or if the true relationship of animals is to be shown.

Exploration brings together vast stores of specimens, but, unless these are searchingly studied and assigned to their appropriate place in the scheme of the universe, they are of little value. Such studies may require years to complete. This constitutes the second period—the *investigation* stage.

Having discovered new material and having learned its significance are not sufficient. To give the world the fullest benefit from it, it is necessary to make it as widely known as possible for other workers. This is accomplished through *publication*, either in technical journals or in more popular form.

The first three stages are really only preliminary to the final or *exhibition* stage. The finished group or specimen combines all the knowledge that has been accumulated in the preceding stages and aims to present in the exhibition hall a true and accurate reproduction of nature.

It is by these methods that the Museum is bringing together the vast store of material and data which make possible its significant contribution to education.

No real investigation is too insignificant in this search for truth. Just as the microscope was the forerunner of the great science of bacteriology, which has done so much to relieve human suffering, so oftentimes seemingly insignificant study may furnish the key to a better understanding of some large problem, apparently wholly unrelated to it. To give an illustration: Dr. A. E. Douglass of the University of Arizona has developed a technique for the study of the growth rings in different trees and has carried it to such a point that by comparing a cross-

Importance
of Research

section of various trees he has been able to identify particular years of growth and to determine the climatic conditions that previously existed in the particular region. At first glance it would seem that such an investigation could have little, if any, bearing upon determining the age of the cultures of prehistoric peoples of the Southwest. For the past sixteen years, as a part of the Archer M. Huntington Survey of the Southwest, the Museum has been excavating the prehistoric ruins at Aztec, New Mexico, and has unearthed a pueblo which consisted of more than four hundred rooms. The ceilings of these rooms were covered with spruce and cedar logs. Doctor Douglass was invited to make a study of these timbers, and his researches have proven that the timbers, of which this great building was constructed, were all cut within a period of nine years and that the builders worked in the forests in the colder part of the year and obtained enough logs to last two or three years before making a second cutting. The application of Doctor Douglass's method to timbers in other prehistoric ruins indicates that the ruins at Aztec were built some forty to fifty years later than the ruins at Pueblo Bonito. Thus, this apparently unrelated technical study may serve as the most accurate method yet devised for dating the prehistoric ruins of the Southwest. It is investigations such as these, in the various fields of science, that are being carried on year after year and which bit by bit are adding to our knowledge of the past history of the earth.

The Acting Director desires to pay tribute to the faithful and devoted service of all members of the Scientific Staff and deems it an honor to present herewith the reports of the scientific departments for 1924, which record in detail the accomplishments of the year.

ASTRONOMY

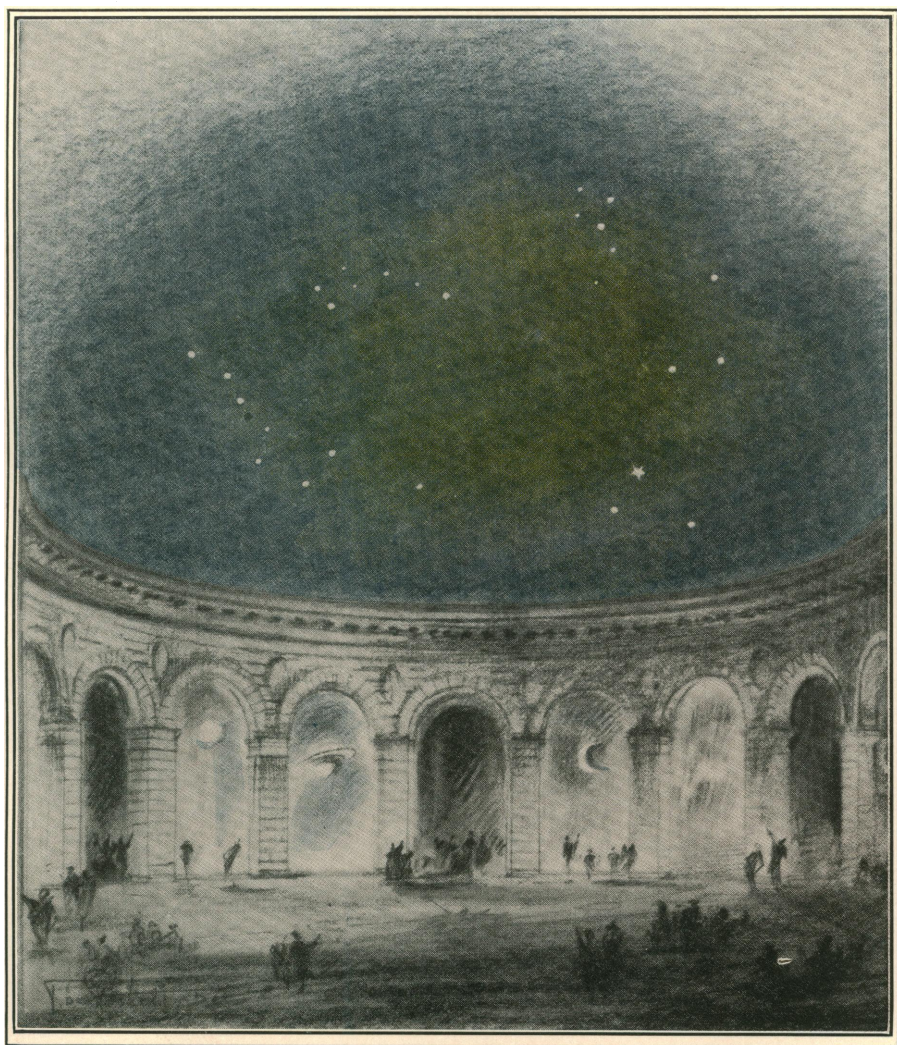
G. CLYDE FISHER, in Charge

Astronomy is the oldest of the physical sciences, and none holds more of thrilling interest. How the great family of worlds and the greater star systems stimulate the mind in its attempts to conceive the infinite! And yet how they baffle the human intellect! But man has not been discouraged in his attempts. He has delved into this great abyss, and has found out many things. Not every generation has produced a Copernicus, a Galileo, or a Kepler, because the setting is not always right for pioneer work. But present-day astronomers are constantly doing as high type research as these heroes of the past. Only a little while ago was the diameter of the enormous sun, Betelgeuze, measured.

And how the objects of the night sky and the phenomena associated with their movements appeal to our innate love of the beautiful! The immense nebulae, the shooting meteors, the mysterious comets, the ever-changing moon, the wandering planets, the great star-clusters, and the brilliant galaxy are sufficient to thrill the dullest eye.

How fitting and proper it is, therefore, that a great Museum of Natural History should have a department devoted to this fundamental science, which is at once the most ancient and the most inspiring of the natural sciences! The American Museum has an astronomical room which constitutes a good beginning, and one that has been attracting considerable attention. The chief exhibit in this room is the beautiful painting of the total solar eclipse of 1918, made in oil by Mr. Howard Russell Butler, N. A., and presented to the Museum by Mr. Edward D. Adams, patron of science and art, through whose conception, generosity and enthusiasm the painting of the corona became possible. The astronomers who saw the eclipse of 1918 and who have seen the picture consider it a marvel of perfection, true both as to form and color, a work of art which has the added advantage of being scientifically accurate.

As was to be expected, this painting has had a great revival of interest in anticipation of the total solar eclipse of January, 1925. There is also here, on loan, a beautiful painting, by Howard Russell



Trowbridge & Livingston, Architects

PROPOSED ASTRONOMICAL HALL

Butler, of an Aurora Borealis. In the astronomical room are also twenty-eight photographic transparencies of eclipses of the sun, showing various phenomena. These transparencies were made by several of the greatest observatories in America, and are exhibited in the American Museum through their courtesy. There are also two superb photographic enlargements of the moon, and two of the sun. These photographic records were lent by the following observatories: Lick, United States Naval, Mount Wilson, Sproul, Lowell, Yerkes, and by Washburn College and the United States National Museum.

The above enumeration does not include four transparencies and four photographs for which there is not room for exhibition, nor does it include a large orrery or planetarium, which was dismantled some twelve or fifteen years ago. The fact that this exhibit is still asked for by visitors should be considered in plans for future equipment.

• In the Department of Public Education there are several hundred lantern slides of astronomical subjects, which are used in lectures to school children and lent to the schools for classroom instruction.

The American Museum possesses one of the finest collections of meteorites in the world, numbering 3,230 specimens, representing 548 different falls. Some of the most noteworthy of these specimens have been placed in Memorial Hall, where they are among the first things to catch the eye of visitors entering the Museum. Among them are the three Cape York meteorites which were brought from Greenland by Admiral R. E. Peary, the largest of these, the Ahnighito, being the largest meteorite in any collection. The famous Willamette meteorite, with the deep, pot-like pits probably due to rusting, was found in Oregon. The Long Island meteorite from Kansas is the largest stone meteorite known, and is also remarkable for its "slickensides." Many fragments of the Cañon Diablo meteorite, one weighing more than 1,000 pounds, are in the collection. This meteorite is famous for two constituents, moissanite or carborundum—the first and only time this mineral has been found in nature—and diamonds, these gems having been found in only two meteorites. One of the diamonds which was taken from the Cañon Diablo is on exhibition in the Morgan Gem Hall.

In the future development of the Museum, it is planned that Astronomy shall take its proper place among the sciences, and in this conception the central portion of the greater Museum building will be devoted to it. Preliminary plans have been prepared for a building which will comprise five floors and will cost \$1,500,000. The first floor will be devoted to the large collection of meteorites. On the second floor will be a great hall, extending through the third floor, for astronomic models and exhibits, while the Astronomic Hall proper will extend from the fourth floor through the fifth and sixth floors and will be capped with a huge dome, which will represent the heavens with the constellations. Here also will be displayed photographic transparencies from the great observatories of the country, and other exhibits showing the great achievements of astronomy.

For the development of this hall and the great central dome, several distinguished American astronomers have consented to act in an advisory capacity, a fact of great significance in the developing of the project. Those on the advisory committee are: William Wallace Campbell (Lick Observatory), George Ellery Hale (Mount Wilson Observatory), S. A. Mitchell (Leander McCormick Observatory), Henry Norris Russell (Halsted Observatory).

The carrying out of these plans under the guidance of such an advisory committee means that Astronomy will have a place in the American Museum commensurate with its interest and importance.

GEOLOGY, GEOGRAPHY AND PAST HISTORY OF THE EARTH

CHESTER A. REEDS, Associate Curator, in Charge

The Museum and Education suffered a great loss in the death of Doctor Edmund Otis Hovey, Curator of the Department of Geology, who died on September 27, 1924. He was sixty-two years of age and had been a member of the Museum staff since January 1, 1894. His sudden death was a great shock not only to his immediate associates but also to those in distant lands, for he had an acquaintance that reached to many parts of the world.

Doctor Hovey was not only associated with the Museum and its many activities for over thirty years, but he was also an active member of many learned societies and other organizations. He served for seven years as Assistant Curator; ten years as Associate Curator and almost fourteen years as Curator of the department. For two brief intervals he was Acting Director of the Museum. He was secretary of the Geological Society of America for sixteen years (1907-1922), and recording secretary of the New York Academy of Sciences for ten years (1907-1916). He served as editor of the *American Museum Journal*, now *Natural History*, from 1900 to 1910, and of the *Annals of the New York Academy of Sciences* from 1908 to 1916. In April, 1924, he was appointed editor of the scientific publications of Division I of the Museum. Doctor Hovey traveled extensively and represented the Museum on many occasions in both domestic and foreign lands.

In addition to performing his curatorial, secretarial, and editorial duties, Doctor Hovey made many contributions to scientific literature. His most intensive studies deal with volcanoes and meteorites. In Cattell's "American Men of Science," Third Edition, his name appears amongst the one thousand leading men of science.

The chief contributions to education offered by the Department of Geology and Invertebrate Palæontology are to be found in its exhibition halls, its publications, and occasional lectures by members of the staff. The main exhibition hall contains extensive exhibits of invertebrate fossils and sedimentary rocks which are of great value in interpreting the past history of the earth.

Exhibits that attract a large number of visitors are the colored regional relief models, fifteen in all, which face the aisles. Each model, which is a unit in itself, exhibits not only the rocks of various ages occurring in the area, but also their relation, thickness and structure. The effects of prolonged erosion on rocks of different structure and unequal hardness produce varied types of relief. All these features are admirably displayed on these large scale models. Great care has been exercised in the selection and construction of these subjects so that the scientific as well as the educational value of these models may be readily appreciated.

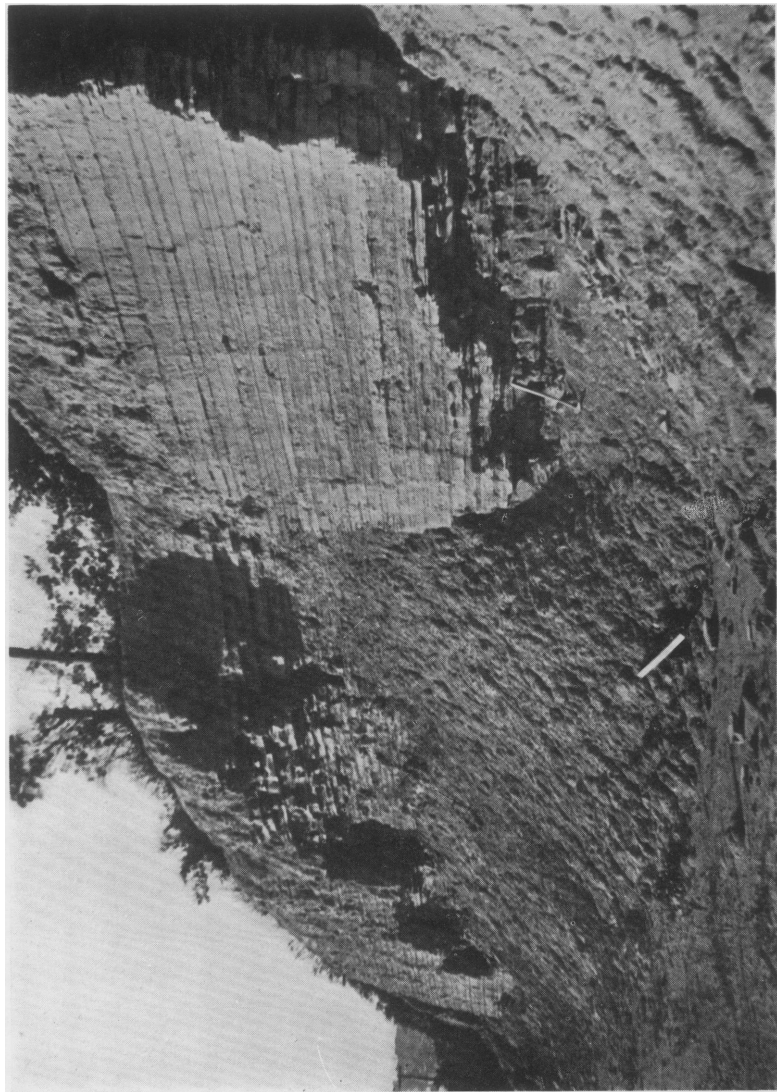
An instructive example of applied geology is the large Copper Queen Mine model in the southeast corner of the main hall. In addition to the geology, which consists of a complex relation of sedimentary, igneous and ore-bearing rocks, surface and underground mine workings are shown to a depth of twelve hundred feet. The adjacent exhibits of ore specimens give an added touch of beauty and reality to this model, the gift of the late Dr. James Douglas.

In the northwest corner of the hall, the Weyers and Copper Queen Cave exhibits illustrate in an instructive way what goes on within the cavernous portions of the earth.

An exhibit that attracts a large number of visitors, students and teachers is the seismograph or earthquake-recording machine, which may be seen in a small room on the first floor behind the Memorial Hall. Although New York City is an area not frequented by earthquakes, many distant ones are recorded on this apparatus.

In the course of the year, three geological relief models, the Pikes Peak, Yellowstone and Niagara were completed and added to the series of nine that already adorned the exhibition hall. The surfaces of three others, the Van Horn, Pawpaw and New York City, are nearing completion.

The entire series of fifteen models is unique in many respects. They exhibit not only the relation of the rocks of different geological ages as they occur in the selected areas, but they also show the numerous types of relief that have been slowly developed by atmospheric agencies on rocks of uneven hardness and structure. The models are especially helpful to teachers with classes and to



DEPARTMENT OF GEOLOGY
ANNUAL DEPOSITS OF CLAY

Clay bank showing annual layers or varves, at Dunning's Point on the Hudson River, near Beacon, N. Y.

lay visitors, for they present in attractive form one of the many stories that geology has to tell.

The series of rock specimens secured by Doctor Hovey in Australia and New Zealand in 1923 has been placed on exhibition.

The investigation by Doctor Reeds into the number of years involved in the deposition of the varve or banded clays of the Hackensack valley basin which was started in 1923 was continued in 1924 with remarkable results. These studies confirmed the working hypothesis that these banded clays were deposited over the lower levels of the entire Hackensack basin and that the post-glacial differential uplift noted in Lake Passaic had also affected the clays deposited in glacial lake Hackensack.

In order that samples might be secured in places where no open pits occur, two special tools were developed for this purpose. One, a boring tool, brings up a cylindrical core, while the other cuts a slice from the margin of the hole. With two series of samples from a single prospect, it will be possible to check one series against the other and also insure the securing of an undisturbed record of the numbers of varves present. The greater portion of the clay deposits in the Hackensack and adjacent lake basins needs to be prospected with these improvised tools at intervals along a north-south line before the total number of varves deposited in the region can be ascertained.

As many as five earthquakes were recorded on the seismograph during the year. These were interpreted by Doctor Reeds, as "Observer in Charge of the Seismograph," and the bulletins posted. The most notable earthquake was recorded on June 26, 1924, in the Pacific Ocean, 1,200 miles due south of Sydney, Australia. A small earthquake of local interest occurred in the Aroostook valley, Maine, on September 30, 1924. This is the second nearby earthquake recorded on the seismograph since its installation in 1912; the first one occurred on February 10, 1924, in the Mohawk valley, New York. Every blast set off in excavating for the foundation of the new School Service Building was recorded, and as every one more or less seriously affected the machine, the instrument required frequent adjusting.

In the early part of the year, some months were consumed by all members of the department staff in making a statistical inventory of the rocks, fossils and meteorites in the department as of December 31, 1923. The results of this examination were arranged on a world map, which was reproduced as Map I, opposite page 16, *Fifty-fifth Annual Report* for the year 1923, entitled "The American Museum and the World."

The cataloguing of the invertebrate fossil collections has been continued. In the course of the year, 1,328 typewritten entries of species were made in the catalogue, and 4,515 specimens were labeled with catalogue numbers. The seismograph records have been catalogued to August, 1924. Progress has been made in renumbering the meteorites according to the revised system started in 1921, and the entries brought up to No. 2,498. There are still about 840 specimens to be numbered. Some 474 rock and ore specimens have also been catalogued.

A number of invertebrate fossil collections, as well as the varve clay samples from New Jersey collected in 1923 and 1924, were arranged in storage cases in the fifth floor mezzanine storeroom.

Among the 52 accessions to the department during the year, mention may be made of the following: Four pieces of a meteoritic mass which was seen to fall near Johnstown, Colorado, at 4:20 P.M. on July 6, 1924, were purchased. The total weight of the four pieces secured was 52 pounds. Specimens of the "Garraf" and Ness County meteorites were also acquired. Early in the year, samples of a peat bed and an associated juniper tree were collected 45 feet below mean high tide in the excavation for the New York Telephone building, corner of Barclay and Washington Streets, New York City. They indicate subsidence of the area during postglacial time. An interesting series of manganese ore specimens, from the south side of Porto Rico near Jauana Diaz, was presented to the department by Mr. W. H. Staver. Another notable accession was a series of photographs of the Great Barrier Reef by Sir M. Nathan.

Associate Curator Reeds served as Secretary of the Museum Faculty and of Division I throughout the year. Mr. Foyles acted as Secretary of the Department Staff.

In April, Curator Hovey was appointed editor of the scientific papers of Division I, which embraces the Departments of Mineralogy, Geology and Palæontology. He was actively engaged upon this work until the time of his death.

Doctor Hovey prepared a paper, "Rotorua and the Geyser Region of New Zealand," which was published in *Natural History*, Vol. XXIV, No. 1, 1924.

On November 7, Mr. E. J. Foyles delivered an address before the graduate students in geology of Princeton University on the "Significance of the Fort Cassin Fauna."

In June, an abstract of a paper by Associate Curator Reeds, "The Varve Clays of Little Ferry, N. J.," was published in the *Bulletin*, Geological Society of America, Vol. XXXV, p. 66, 1924.

In October, Doctor Reeds prepared a 32-page paper with 14 illustrations on "The Annual Deposits at Little Ferry, New Jersey, and the Glacial Lakes of the Region."

In November, Doctor Reeds prepared an abstract of a paper, "Glacial Lake Hackensack and Adjacent Lakes," which he delivered in late December at the Ithaca meeting of the Geological Society of America.

At the annual meeting of the New York Academy of Sciences, December 15, Associate Curator Reeds was elected a Vice-President of the Academy and Chairman of the Section of Geology and Mineralogy for 1925.

GEOLOGY ACCESSIONS

BY GIFT

ABBOTT, RICHARD M., Bristol, Pa.

2 *Ostrea compressirostra*, 2 *Glycymeris idoneus*, 1 *Venericardia planicosta* var. *regia*. Eocene: Aquia formation. Collected at South River, on road from Annapolis, Md., to Washington, D. C.

ALSGOOD, ROY, New York City (through Department of Anthropology).

3 Fossils from Thebes, near tomb of King Tutankhamen.

ARGABRITE, G. P., Lewisburg, W. Va.

Crinoid stems, brachiopods, coral and 25 pentremites, from Greenbrier Co., W. Va.

ASBORN, CAPT., Spring Lake, N. J.

Chert geode from Spring Lake, N. J.

BRACHER, E. DE C., Calvados, France.

About 155 Cretaceous fossils and recent invertebrate shells from Benerville-sur Mer, Calvados.

BROADWAY, GEORGE B., N. Y. City.

1 Fossil from Miami, Fla.

- BULLOCK, CHARLES F., Freeport, Texas.
1 Bronze figurine on a marble base from Freeport.
- CALIFORNIA ACADEMY OF SCIENCES, San Francisco, Calif. (through Dr. Evermann).
28 Enlarged copies of aeroplane photographs of San Francisco region, made by M. S. H. Page.
- CARD, G. W., Sydney, Australia.
Cast of the Bengara Meteorite.
- CONLIN, JAMES, New York City.
Brachiopods, mostly of the genus *Spirifer*, embedded in the Hamilton shale of central New York State. Found in Green Co., N. Y.
- COOLEY, S. P., New York City.
1 Specimen of peat 18 inches thick (found about 45 feet below mean high water. Red sand 20 feet to bed rock and hard grain). Foundation of New York Telephone Building, New York City.
- CORAM, GEORGE M., Utica, N. Y.
19 Specimens pink crystalline limestone, boxlike replacements of quartz along joint planes in limestone matrix, from Lewis Co., N. Y.
- COX, MARTIN L., Newark, N. J.
Glaciated boulder of porphyritic basic rock and water-worn pebble from Lake Sunapee and Croyden, N. H.
- CUMMINGS, C. E., Buffalo, N. Y.
13 Photographs of New Zealand.
- DE LA TORRE, Dr. R., Havana, Cuba.
Granitic and gneissoid rocks from Mt. Agassiz, Bethlehem, Crawford Notch and Maplewood, in the White Mountains, N. H.
- DÉROGNAT, M., Marseilles, France (through Department of Vertebrate Palæontology).
2 Shells of *Terebratula vulgaris* from the Muschelkalk of Toulon, and 2 photographs representing these specimens from the same formation.
- DIAMANT, MRS. R., New York City.
Mammoth bone from Shark River inlet, Avon, N. J.
- DIEDEL, G. A., New York City.
Supposed meteorite — weathered limestone with calcite vein.
- EWING, W. H., St. John's, Newfoundland.
14 Trilobites from St. John's.
- FOYLES, E. J., New York City.
7 Boxes of fossils from Bridport, Vt.
5 Specimens: Octoraro schist, Chickies quartzite, Shenandoah limestone, silica brick and diabase dike, from Downingtown, Pa.
- GLEISSNER, DR. MAX J., Honolulu, Hawaii.
Fragment of basalt showing arborescent development, from Hawaii.
- GRANGER, WALTER, New York City (through Department of Vertebrate Palæontology).
Block bearing 2 fossil gastropods from the Eocene Bridger Basin, Wyoming.
- GWYER, K. V., Verona, N. J.
Devonian brachiopods from Verona, N. J.
- HAASE, CHARLES, New York City.
Rocks and fossils.
- HATCH, MISS HELEN J., New York City.
1 Geode from headwaters of Mississippi River.
- HOLLICK, DR. ARTHUR, New York City.
8 Hand specimens of fossiliferous rock.

HOVEY, DR. E. O., New York City.
6 Hand specimens of Fordham gneiss from Yonkers, N. Y.

JAGGER, J. E., Old Town, Md.
Weathered block of Schoharie sandstone containing molds of the fossil *Spirifer* from Old Town, Md.

JONES, MORGAN, Andalusia, Ala.
(through department of Vertebrate Paleontology).
1 Specimen nodular limestone from Alabama.

KIRK, PROF. H. B., Wellington, N. Z.
Photograph of Stephen Island Forest.

KRESS, MISS GRACE, Little Sioux, Iowa.
2 *Favosites javosus* (Goldfuss), Silurian, from Volga River, Fayette Co., Iowa.

KUMM, H. K. M., Summit, N. J.
Septaria, ammonites, fish scales and pebbles, from Benue River, Nigeria, West Africa.

KURTZ, MISS ELLA, East Stroudsburg, Pa.
Trilobites and brachiopods.

LITTLE, MALCOLM E., Hawthorne, N. Y.
Fossil oyster shell.

LOWER INVERTEBRATES, DEPARTMENT OF—Rollo H. Beck Collection.
12 Pelecypods (internal molds), Tertiary, Makatea, Tuamotu Archipelago, South Sea Islands.
100 Specimens of recent algæ and fossil invertebrates. Collected at Makatea, Tuamotu Archipelago, Society Islands and Tuamotu Archipelago, by E. H. Quayle.
6 Fossils in limestone from Makatea, Tuamotu Archipelago.

MARRIOTT, DR. H. F., London, England.

4 Photographs of a lioness ("Santa Claus"), from Rhodes Zoo, Cape Town, South Africa.

MINERALOGY, DEPARTMENT OF (transfer).

1 Specimen of huronite from Elk Lake Road, Gowganda, Ontario.

MITTAU, FELIX, Hartford, Conn.
Clay concretions from Hartford.

NATHAN, SIR MATHEW, Brisbane, Australia.

11 Photographs taken by C. E. S. Fryer at Great Barrier Reef;
9 photographs from Queensland.

NELSON, N. C., New York City.
Ironstone conglomerate with cavity.

PERKINS, HAYES, Bandon, Ore.
3 Lignite specimens from Beaver Hill, Coos Co., Ore.
2 Fossil shells (*Pecten*), 46 agates, from Bandon, Coos Co., Ore.

PROSER, WILLIAM, New York City.
Glacial pebble of highly garnetiferous character from Hunter's Island, N. Y.

RAY, SIDNEY, V. M., U.S.S. 'Pittsburgh.'
8 *Cidaris glandifera*—Goldfuss. Jurassic, Dog River, Syria.

SAVAGE, M. H., New York City
(through Department of Anthropology).

Boulder from glacial drift, New York City.

SHANAHAN, MICHAEL A., Jersey City, N. J.

1 Specimen of limestone shaped like an Osage orange.

SPEIGHT, ROBERT, Christchurch, N. Z.
9 Enlarged Photographs of Otira Gorge, Mt. Cook, Head of Lake Wakatipu with Mt. Earnslaw, Lion Rock, Mitre Peak, Stirling Falls, Rakaia Gorge.

- 15 Lantern slides of Rangitata Valley, Canterbury, Christchurch, Dunedin.
- STAVER, W. H., New York City.
- 1 Graptolite (weathered) from Santo Domingo gold mine, Province of Carabaya, Peru; 14 specimens of Manganese ore from Juana Diaz, Porto Rico.
- STEWART, JASPER, Jersey City, N. J.
- 3 Specimens of Trap Rock, showing peculiar weathering in zones parallel to shrinkage cracks.
- SUTTER, WALTER F., Elizabeth, N. J.
- Sample of Oriskany sandstone, with *Spirifer sp.*, Devonian from Greenwood Lake, N. J.
- TURNER, SYD. K., Luton near Chatham, Kent, England (through Department of Anthropology).
- About 39 fossils from Gault in Luton.
- UNION DAUGHTERS OF THE CONFEDERACY (through Mr. A. J. Long), Passaic, N. J.
- Granite from Stone Mountain, Ga.

BY EXCHANGE

COLORADO MUSEUM OF NATURAL HISTORY, Denver, Colo.
 1 Meteorite from Four Corners, N. M.
 1 Cast.

BY PURCHASE

Meteorite: 1 mass, 52 pounds (in 4 pieces). Collected by J. D. Figgins in Colorado.

"Ness County" meteorite from Kansas.

"Garraf" aërolite.

THROUGH MUSEUM EXPEDITION

1 Sample of red sand; 3 pebbles; 1 section of juniper tree; 2 samples of peat; 1 section of sand; 2 sections of peat. Collected by Dr. Reeds and Mr. Hill from the foundation of New York Telephone Bldg., New York City.

MINERALS AND GEMS

HERBERT P. WHITLOCK, Curator

The introductory series occupying the four cases to the right of the entrance to the Morgan Memorial Hall has been practically completed. This installation, augmented by the Aspect of descriptive labels distributed throughout the collection, constitutes essentially the text of a visual presentation of elementary mineralogy. It is the aim in thus introducing the visitor to the science of the constituents of the earth to lead him by successive steps to a knowledge of the more intricate distinctions of the larger collection, without imposing on him the burden of a text-book other than that contained in the cases themselves.

The group of special exhibits that are designed to introduce and explain the mineral collections has been increased by the addition of a series of models under the title "How Atoms Build." These have been constructed of colored wooden beads, mounted on glass rods in such a manner as to minimize the effect of the mounting, and to emphasize the three-dimensional patterns which express the arrangements of atoms in the different crystals illustrated. The educational value of such an assemblage of models of the atomic structure of crystals can hardly be exaggerated, since they express visually the first real progress which the science of to-day is making toward answering the question of *why* substances crystallize. A key exhibit has been installed showing the principal ore minerals under the various metals, and the location of each in the main collection. This series is designed to furnish a ready means of reference to the visitor seeking information regarding minerals containing a particular metal, and includes under each heading, in addition to the reference key, a small map showing the distribution of the metal indicated in the United States, and a percentage chart giving the amount produced in the United States relative to the world's production.

During July, a temporary special exhibit was installed, consisting of a characteristic mineral from every State. This was made to show the geographic scope and resources of the department's collections, at the time of the Democratic National Convention, the delegates to which were invited to visit the Museum.

The series of group labels for the cases of the Gem Collection has been put in place and constitutes a brief but comprehensive case guide to this important installation.

**Labeling and
Cataloguing**

Preparatory to a relabeling of the specimens of the main collection, work has been begun upon the verification and correction of the locality designations upon the catalogue cards. This has been rendered primarily necessary by the considerable change of boundaries among the countries of southeastern Europe, which renders the country designation upon many of the labels no longer accurate. Opportunity is also thus afforded to scrutinize and correct the spelling of place names, and to generally revise the locality data upon which the subsequent relabeling will be based.

The Curator has contributed to *American Museum Novitates* a paper embodying his "Crystallographic Studies of Pyrite." He also contributed a popular article to the *Jewelers' Circular (Weekly)* on "Some Examples of the Lapidary Work of Russia in the Tiffany-Morgan Collection." Research crystallographic study has been completed on a series of apatite crystals from Branchville, Conn.

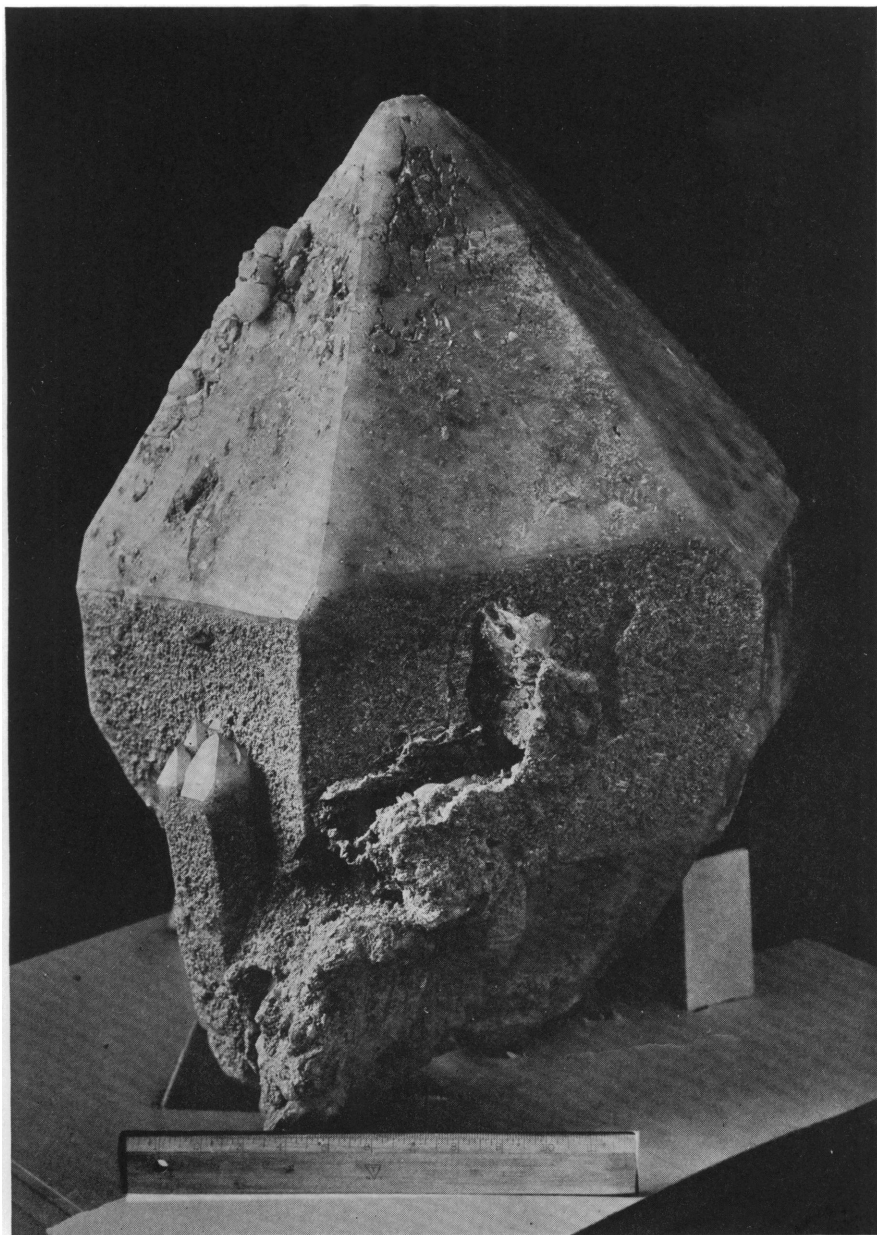
During the months of February and March, the Curator gave a series of free popular lectures on Gems and Gem Minerals at New York University. It was the purpose of these informal talks on gems to interest not only the general public, but especially those who handle and deal in precious stones, in some of the little-known facts concerning them.

**Educational
Work**

A considerable number of small collections has been identified and labeled during the year, both for schools and for individual amateur collectors. Many of the latter were boys and girls who possess a keen interest in the collecting of minerals. The Curator has found that the practice of holding informal consultation hours in the Morgan Memorial Hall on Saturday mornings has tended to foster this activity.

A considerable number of specimens has been added to both the General Mineral Collection and the Gem Collection during the past year, through the Matilda W. Bruce Fund and through the generosity of friends. A complete list of these gifts is contained in the accession record following.

Accessions



DEPARTMENT OF MINERALOGY

QUARTZ CRYSTAL FROM AUBURN, MAINE

A single crystal of quartz measuring $26 \times 19 \times 13$ inches and weighing 253 pounds

MINERALOGY ACCESSIONS

BY GIFT

BOLT, J. J., Peoria, Ill.

- 1 Sphalerite in cavity in shale from Peoria.

DE LA TORRE, DR. RICARDO, Havana, Cuba.

- 2 Magnesite, Regla, Habana; 1 copper, Matahambra del Rio, Cuba; 1 copper, El Cobre, Orien, Cuba.

EGOROFF, C. TH., New York City.

- 31 Specimens of Russian minerals: 1 allanite (uralorthite), 1 amphibole (baikalite), 1 apatite (moroxite), enclosing calcite nodule, 1 apatite (moroxite), 1 mendeleeffite, 2 mendeleeffite, study material; collected at Shudianka River, Lake Baikal, Siberia; 1 aurichalcite and calamine from Te-tu-he, 300 kilometers north of Vladivostok, Siberia; 8 garnet (grossularite), 13 vesuvianite (viluite), collected at Vilui River, Lake Baikal, Siberia; 2 helvite (achtaragditite), collected at Achtaragda and Vilui Rivers, Lake Baikal, Siberia.

GABAY, ARTHUR D., New York City.

- 1 Gold nugget, Essequibo River, British Guiana; 2 gold in quartz, California.

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

- 2 Siderite from Salisbury, Conn.; 1 albite, 1 albite and muscovite, from Branchville, Conn.; 1 quartz from Meriden, Conn.; 1 albite and muscovite from Bedford, N. Y.; 1 glockerite from Philadelphia, Pa.; 1 galena from Bucks Co., Pa.

HUTCHINSON, W. SPENCER, Boston, Mass.

- 1 Melanovanadinite from Minasragra, Peru; 7 sincosite enclosed in carbonaceous nodules, 1 sincosite, from Sincos, Peru.

LACK, A. LLOYD, New York City.

- 1 Black pearl from Long Island oyster.
- 2 Aragonite specimens from Bisbee, Ariz.

MOOK, DR. CHARLES C., New York City.

- 1 Chromite from North Arm, Bay Island, Newfoundland.

O'CONNOR, MICHAEL, Hazleton, Pa.

- 1 Specimen of pyrite from Cranberry, Pa.

OSBORN, MRS. HENRY FAIRFIELD, New York City.

- 23 Cultured pearls attached to pearl shell from Japan.

ROBERTSON, R. S., North Tarrytown, N. Y.

- 1 Box of miscellaneous minerals.

SHERIDAN, CAPT. JOHN F., New York City.

- 1 Columbite, 1 gypsum, 1 serpentine, from Penagan, Panama.

SPENCER, DR. L. J., London, England.

- 2 Hydrocerussite from Priddy, Mendips, Somerset, England.

STAVES, W. H., New York City.

- 16 Specimens of manganese ore from Juana Diaz, Porto Rico.

SWENSON, MRS. S. A., New York City.

- 6 Polished agates from Uruguay.

VAN NAME, DR. W. G., New York City.

- 1 Muscovite in feldspar, from Branchville, Conn.

WARD, F. W., Ridgefield, Conn.

- 7 Apatite crystals, 1 allanite, 2 columbite, 1 cyrtolite, from Branchville, Conn.

BY EXCHANGE

ALLEN, FREDERICK I., New York City.

1 Crytolite from Bedford, N. Y.

HASSTED, A. J., Wolf Creek, Montana.
1 Quartz from Montana.

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

1 Shallerite and 1 apophyllite from Franklin, N. J., 1 lennilite from Lenhi, Pa., 1 quartz from Henderson Station, Pa., 1 torbernite from Portland, Conn.

OLDACH, FRED M., Philadelphia, Pa.

7 Calcites from Morris Station, Mercer Co., N. J.

PARSONS, DR. ARTHUR L., Toronto, Canada.

20 Specimens of minerals: 1 alexoite, Dundonald Tp.; 1 argentite, Cobalt; 1 breithauptite, Cobalt; 1 chapmanite; 1 coselite; 4 diopside; 1 euxenite; 1 hastingsite in nepheline; 1 polydymite in chalcopyrite, Sudbury; 1 rammelsbergite, Cobalt; collected in Ontario, Canada; 2 bababudanite, Bababudan Hills, Mysore, India; 1 bixbyite on topaz, Millard Co., Utah; 1 blanfordite and juddite, Kacharwahi, Nagpur Dist., India; 1 camsellite, Douglas Lake, B. C.; 1 hollandite, Chindivara Dist., Central Prov., India; 1 Pectolite, Quebec, Canada.

BY PURCHASE

(Matilda W. Bruce Fund)

1 Cut peridot from Burma, India;
8 cut beryls from Rajputana Mine, India.

2 Blue zircons from Australia.

1 Bauxite from Para Creek, Dutch Guiana.

1 Beryl (aquamarine), 1 beryl (brown crystal), from Madagascar; 1 chalcopyrite from Arakawa, Japan; 1 margurite from Machäros, Naxos, Greece; 1 gypsum from Eisleben, Thuringia, Germany; 1 okenite and vesuvianite from Crestmore, California; 1 phenacite from Krageroe, Norway; 1 tourmaline in quartz from Romona, California.

1 Apatite from Greenwood, Me., 1 herderite from Buckfield, Me., 1 quartz, 1 tourmaline in quartz, 2 green tourmaline crystals from Mt. Mica, Me., 1 rose quartz from Paris, Me., 1 capillary orpiment from Manhattan, Nev., 1 large quartz crystal from An-

dover, Me., 1 cut amethyst dish from Brazil.

2 Fluorite from Hardin Co., Ill.

1 Analcite, 1 calcite and datolite, 7 prehnite, 2 stevensonite alterations, 2 datolite and calcite, 1 calcite on prehnite, 1 datolite and calcite on prehnite, 1 prehnite, calcite and datolite, 1 prehnite with calcite, 7 thomsonite, 2 thomsonite on prehnite, 2 apophyllite, 1 apophyllite and stilbite, 1 thomsonite and prehnite, 7 gmelinite, 1 stilpnomelane, 3 heulandite. Collected in New Jersey.

1 Tourmaline in quartz and albite from vicinity of Roxbury, N. Y.

1 Copper, 1 nasonite with axinite and rhodonite, 1 zincite from Franklin, N. J.; 1 brocanthite from Dry Cañon, Utah; 1 Tetrahedrite from Bingham, Utah; 28 specimens of cinnabar from Choco, Colombia.

- 1 Agate carved Easter egg, 2 banded jasper carved Easter eggs, from Zlaboust, Oufa, Russia; 1 nephrite carved Easter egg from Siberia; 2 rhodonite carved Easter eggs from Ekaterinburg, Russia; 1 jasper carved Easter egg from Oufa, Russia.
- 1 Cristobalite and fayalite from Inyo County, Calif. •
- 1 Quartz var. jasper from Prieska District, South Africa.
- 1 Ulexite from Clear County, Nevada.
- 17 Specimens of minerals as follows:
 - 1 artinite, Valtellina, Italy; 1 barthite, Otavi District, Southwest Africa; 1 bementite, Franklin, N. J.; 1 beryl, Sahanivotry, Madagascar; 1 catoptrite, Nordmarken, Sweden; 1 colerainite, Chester County, Penn.; 1 joaquinite, San Benito County, Calif.; 1 koenenite, Hanover, Germany; 1 ktypeite (pisolite), Carlsbad, Czechoslovakia; 1 microsommitite, Vesuvius, Italy; 1 minasragrite, Minasragra, Peru; 1 phosphoferrite, Hagendorf, Bavaria; 1 samiresite, Samiresy Hill, Madagascar, 1 topaz pseud. after orthoclase, Saxony, Germany; 1 uvanite, Emery County, Utah; 1 vanthoffite, Stassfurt, Germany; 1 weinschenkite, Auerbach, Germany.
 - 1 Anglesite in sulphur from Chihuahua, Mexico.
 - 1 Chalcostibite from Rar el Maz., Morocco.
 - 1 Dumortierite from Ontario, Canada.
 - 1 Ellsworthite from Ontario, Canada.
 - 1 Germanite from Tsumeb, South Africa; 1 priorite from Ahi Tromby, Madagascar; 10 pyrite crystals from Tucson, Ariz.

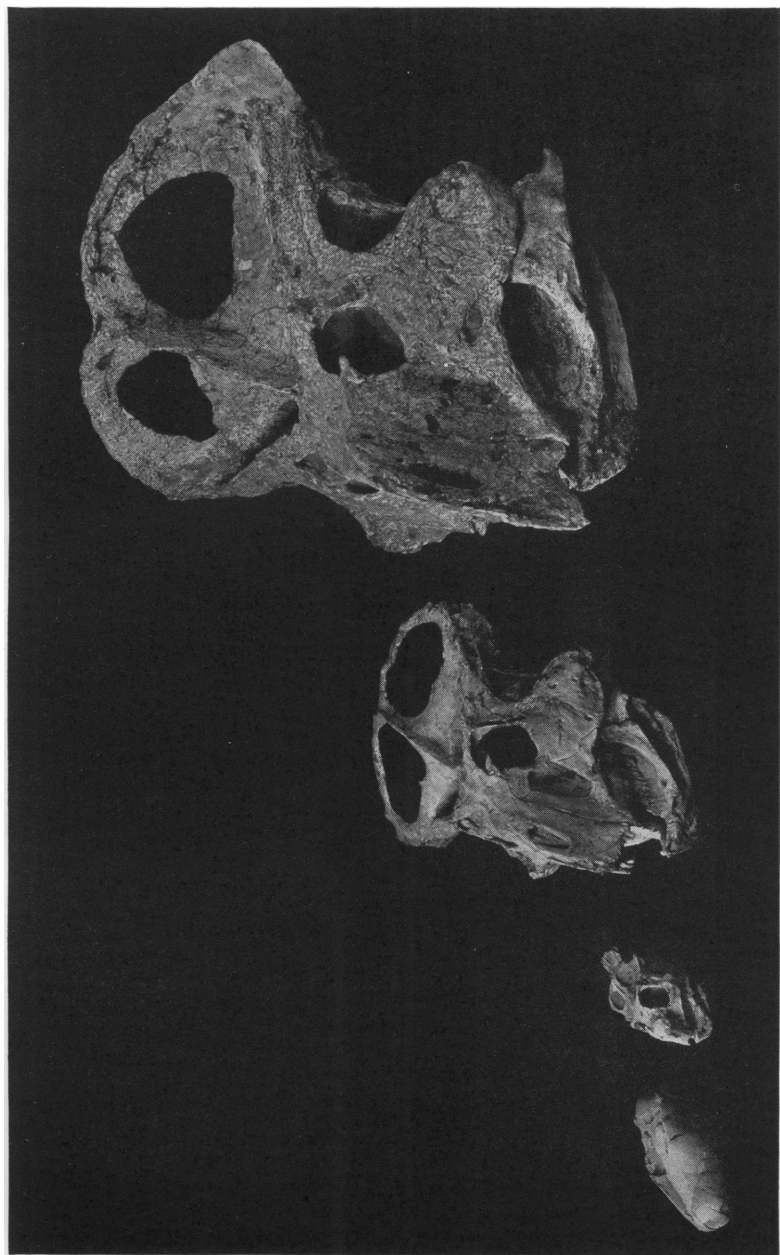
EXTINCT VERTEBRATES

W. D. MATTHEW, Curator-in-Chief

The Department of Fossil Vertebrates has systematically devoted a large proportion of its energies to public education. Its task is to convince the public of the real existence, not of one, but of many prehistoric worlds; of the long vista of geologic epochs, periods and æons, each with its characteristic and distinctive fauna; of the series of gradual, progressive stages through which each race of animals has evolved into its present form; to lay before the public the fossil documents upon which the proof rests; and to show so far as we can how they are interpreted by scientists, and why. For this purpose many skeletons are shown exactly as they were found lying buried in the rocks. Others are articulated and mounted in the relations that the bones had when the animal was alive, and in poses characteristic of its probable activities. Series of specimens are shown illustrating the successive stages in the evolution of various races. To these are added restorations showing the outward form of the animal as reconstructed through profound studies of learned anatomists. And finally, the environment and associations of these extinct animals and faunas are depicted in murals and smaller paintings through the coördinated skill of artist and naturalist.

Exact records of the discovery, the geological formation and age of every specimen are associated with it, and descriptive labels and larger group labels aimed to answer in concise untechnical language the questions that intelligent visitors usually ask. Additional and more detailed information of general interest is provided in the guides and handbooks. The preparation and phrasing of these labels and guides are most severely scrutinized by the curatorial staff, to ensure exact accuracy and clearness.

The aim of the department is primarily to show the nature, quality and scope of the evidence in this field, and the interpretations that are generally accepted by those who have studied it. A proper and judicious skepticism on the part of our visitors is welcomed, and will enable them to sift out that which is surely and overwhelmingly proven from the more doubtful and disputable



DEPARTMENT OF VERTEBRATE PALEONTOLOGY

FROM EGG TO ADULT

Egg and skulls of Dinosaurs collected in Mongolia by the Third Asiatic Expedition

conclusions. We have tried in all cases to distinguish in our labels and guides between facts, well proven theories, and more or less doubtful hypotheses, but fair-minded criticism is always welcome and often helpful.

Field work in Mongolia and China was suspended during this year in order to concentrate upon preparation and study of the collections secured during the two preceding years.

Field
Work

Associate Curator Barnum Brown continued work in the great fossil quarries of Samos commenced last year, and secured a very large and valuable collection, which will be reported upon later. Through a special arrangement with the Greek Government, he was enabled to ship the entire collection, fifty-six boxes, directly to New York, without any part of it being retained for the collections in Athens. In recognition of this courtesy, the American Museum will present to the Ministry of Education at Athens a valuable series of American fossils illustrating especially the Evolution of the Horse. For the making and approval of this agreement, advantageous to both parties, the Museum is much indebted to the interest and influence of a number of friends in Athens as well as to the able presentation of its advantages by Mr. Brown.

Doctor Matthew made a short reconnaissance trip in Florida in March, studying the principal localities for fossil mammals and the collections in the State Museum at Tallahassee, with a view to distinguishing the successive extinct faunas more clearly than had previously been possible.

From May to July, Doctor Matthew, with Messrs. G. G. Simpson and C. Falkenbach, spent about two months collecting fossil mammals in the Blanco and associated formations of northern Texas. The most important find was a nearly complete skeleton of an extinct horse, representing a new stage in the Evolution of the Horse, intermediate between *Pliohippus* of the Lower Pliocene and *Equus* of the Pleistocene. This has been called *Plesippus*. Other interesting specimens secured were a skeleton, probably nearly complete, of a tall slender-limbed camel and the principal parts of the skeleton of a small and very slenderly-proportioned three-toed horse, jaws of mastodons, etc. These specimens add much to our knowledge of mid-Pliocene mammals. Studies of the

stratigraphic geology of the formations led to some new views as to their origin and deposition.

In August and September, Messrs. Simpson and Falkenbach commenced work in the Santa Fé basin of New Mexico and were joined later by Mr. Joseph Rak. They were fortunate in securing a fine skeleton of an interesting type of extinct carnivore, *Hemicyon*, distantly related to the bears but in the opinion of Mr. Childs Frick representing a distinct family. Fragmentary remains of this animal had been found in France many years ago, and Mr. Frick had recently recognized it in California.

The great collections secured by expeditions in Mongolia, China and India, as well as in the western United States, have made it very necessary to increase the preparation staff to take care of them. Three additional preparators and Installation have been temporarily or permanently added to the staff, besides two Chinese, who spent from February first to October twentieth in the laboratory. Substantial progress has been made in consequence toward the clearing up for exhibition and study of the new collections. All the proboscidean specimens from the Siwalik beds of India have been prepared for exhibition and study, also a few small skulls from the Siwalik and Samos collections. The greater part of the specimens from the Tertiary of Mongolia have been prepared for study or exhibition, including ten skulls of titanotheres, skulls of the giant carnivore and of a smaller kind, three skulls and one skeleton of rhinoceroses, and a number of partial skeletons, jaws and other specimens. A series of nine skulls and six skeletons of Cretaceous dinosaurs has been prepared, but the greater part of the dinosaur collection is still untouched. The entire series of dinosaur eggs has been prepared.

The collection of fossil mammals from Sze-Chuan, secured by Mr. Granger in 1921-1922, has all been prepared for study and in some part for exhibition. A large part of his collection of 1922-1923 from Sze-Chuan has also been prepared, including some thirty skulls of various animals exclusive of the bamboo-rat, of which forty or fifty skulls and a much larger number of jaws were prepared. A series of nine skulls of titanotheres from the Irdin Manha and one from the Ardyn Obo have been prepared and placed on exhibit, also two creodont skulls.

The skeleton of *Plesippus* from the Blanco has been prepared and will shortly be mounted for exhibition, also a skeleton of a small new deer and a series of skulls, jaws, etc., from the Miocene of Nebraska. The skeleton of the rare carnivore *Hemicyon* from the Miocene of New Mexico has been prepared under Mr. Frick's direction, also a large series of skulls and partial skeletons secured by his collectors in the Barstow Miocene of California.

A number of successive plans for the rearrangement of the collections and occupation of the new hall have been worked out in detail and all arrangements made for the transfer of the collections and the opening of the new hall about the first of the year. All changes, however, have been postponed by instructions from President Osborn, pending the working out of new plans.

Research work during the year has been exceptionally active, especially upon the Asiatic collections. Sixteen shorter preliminary papers upon the fossil faunas and stratigraphy of Mongolia have been published in *Novitates*, and five dealing with fossils from America and India. Four more extended papers have been published in the *Bulletin* during the year by Doctor Matthew, Professor Matsumoto, Dr. Robert Broom and Mr. Horace Wood.

In addition to these papers actually published, great progress has been made in various researches not yet completed. The final reports on the stratigraphy and geology of Mongolia by Professor Berkey and Mr. Morris are already far advanced towards completion. The revision of the Proboscidea by Professor Osborn is rapidly advancing toward completion. A series of preliminary papers on the Mongolian fossil faunas will be submitted for *Novitates* during the coming year. Doctor Matthew has a revision of the Blanco and associated faunas of Texas nearly ready for publication, and a number of other papers completed but waiting until certain necessary illustrations can be made.

VERTEBRATE PALÆONTOLOGY

BY GIFT

DE BÉGOUEN, COMTE, Giron, France.
1 Heel impression (Cro-Magnon)
from Tuc d'Audoubert, France.

Small lot of dinosaur egg-shell
fragments from Cretaceous of
Rognac.

GEOLOGISCH-PALÄONTOLOGISCHES INSTITUT UND MUSEUM DER UNIVERSITÄT, Berlin, Germany.

Casts of teeth of *Stegodon*.

HALTER, C. R., New York City.

1 Skull of crocodile, from pebble phosphate workings, Brewster, Fla.

HOLMES, W. W., St. Petersburg, Florida.

Miscellaneous fossils (many specimens), fossil bones (fragmentary), several fossil teeth and bones.

Collected near St. Petersburg, Fla.

PEABODY MUSEUM, New Haven, Conn.

1 Plaster cast of tooth of *Pseudaelurus*.

SHERIDAN, CAPT. JOHN, New York City.

2 Vertebrae of fossil whale from Panama.

UNITED STATES NATIONAL MUSEUM, Washington, D. C.

Cast of Proboscidean tooth.

BY EXCHANGE

ABSOLON, DR. KARL, Brunn, Czechoslovakia.

2 Skulls, with jaws, of *Homo predmostensis*—casts; 4 brain casts of same genus from Predmost.

BOULE, PROF. MARCELLIN, Paris, France.

Cast of skull and jaw of *Les Eyzies I*; cast of brain case of same; cast of type tooth of *Mastodon angustidens*.

COLORADO MUSEUM OF NATURAL HISTORY, Denver, Colo. (through J. D. Figgins, Director).

Prepared skeleton of *Entelodon* from the Oligocene of Colorado; prepared skeleton of a titano-

there; prepared skeleton of Oligocene rhinoceros, *Trigonias*.

GEOLOGICAL INSTITUTE, University of Padua, Italy.

2 Casts of fossil skulls, 1 fossil elephant's jaws, 1 fossil turtle.

NATURHISTORISCHES MUSEUM, Steiermark, Austria.

2 Molars (cast) of *Mastodon (Bunolophodon) angustidens* from Steiermark.

QUEENSLAND MUSEUM, Brisbane, Australia.

Cast of the fossil kangaroo *Propleopus*—lower jaw.

STATE UNIVERSITY OF IOWA, Iowa City, Iowa.

2 Plaster casts of mastodon teeth.

BY PURCHASE

Skeleton of *Pareiasaurus* and collection of Bushman skulls and skeletons.

Casts of portions of skeletons of 5 fossil apes; casts of portions of skulls or skeletons of 5 fossil men (2 Neanderthal, 1 Mousterian, 1 Galley Hill, 1 Tasmanian).

4 Casts of *Ofnet* skulls from Germany.

Restoration of head of *Triceratops*. Skull of a ceratopsian and portion of frill of ceratopsian skull from San Juan Co., N. M.

SUSHKIN, PROF. P., Leningrad, Ussr.

Skull and jaw with portion of skeleton of *Pareiasaurus*; casts of limb and foot bones and teeth of *Baluchitherium* from Russian Turkestan.

THROUGH MUSEUM EXPEDITIONS

54 Boxes containing fossil vertebrates, skulls and other choice specimens from the Samos beds; collection made in 1924 by Barnum Brown at the Island of Samos, Greece.

7 Boxes of Pliocene fossils and 1 box containing fossils collected by J. W. Gidley in San Pedro Valley, Arizona; skull of Pliocene horse collected by J. W. Gidley at Benson, Arizona; metacarpal of a fossil horse.

Fossil bones (*Megatherium*), collected by C. R. Halter at Williston, Florida. Many specimens

of fossils from Florida.

3 Boxes of fossils, 4 boxes of Tertiary fossil mammals, from Santa Fé marls.

Collection of Late Tertiary fossils from the Panhandle of Texas, collected by W. D. Matthew and party. Fossil specimens collected by Dr. W. D. Matthew and W. W. Holmes, in Florida.

THIRD ASIATIC EXPEDITION:

49 Cases of fossil and zoological specimens from Mongolia and China; 86 boxes of fossils, rocks and skins.

LOWER INVERTEBRATES

ROY W. MINER, Curator

In accordance with the desire of the President that the energies of the various departments should for the present be directed toward developing the educational and exhibition possibilities of the magnificent new halls recently added to the Museum, the most significant work of this department during the past year has been in connection with the new Hall of Ocean Life, of which the gallery and entire western end are to be devoted to marine invertebrates. While decided emphasis was laid on this feature of the work, nevertheless progress was also made on the exhibits for the Darwin Hall and in the public utilization of its facilities, while research on scientific collections and the publication of the results continued vigorously. These matters are reported upon herewith under appropriate headings.

The extensive shell collections of the Museum are being transferred to their permanent location in the gallery of this hall. Forty cases will contain the gastropod mollusks, of which the Museum possesses one of the finest exhibition collections in the world. The land mollusks will be exhibited as formerly in four large table cases, while the bivalve mollusks will be displayed in a series of wall cases in the arches surrounding the gallery. In the lunettes above these cases, it is planned to install large mural paintings depicting subjects appropriate to the natural history of the ocean. The mollusk study collections will be housed in cabinets contained within the pedestals of these cases and in the lower part of the table cases. The exhibition collections will be especially adapted for their utilization by students and the public generally, as in their former location.

As mentioned in the report for 1923, it is planned to devote the central portion of the western end of the hall to a magnificent reproduction of a Bahaman coral reef, thirty feet in length and thirty-five feet in height. This exhibit will be so arranged that an above-water view of the coral lagoon and its surroundings may be seen from the gallery floor of the hall, while in the foreground the reef itself will be visible through a glass representing the water surface. A submarine view of the



DEPARTMENT OF LOWER INVERTEBRATES
COLLECTING IN THE BAHAMA ISLANDS
Preparing for the Coral Reef Group

same reef may be gained by descending a staircase and viewing the exhibit from beneath the gallery, as if the spectator stood upon the sea bottom. A preliminary model of this installation has been constructed on a scale of three quarters of an inch to a foot and its details are now undergoing revision.

To obtain the information and material necessary for this group, an expedition to Andros Island in the Bahamas was undertaken during the past summer. This expedition was **Bahama** taken during the past summer. This expedition was **Expedition** made possible through the utilization of the Angelo Heilprin Exploring Fund and the general funds of the Museum, as well as through the coöperation of the Submarine Film Corporation and the officials of the Bahaman Government. The personnel of the expedition included Curator Miner as leader, Messrs. Mueller, Olsen and Childs of the Preparation Staff, and Mr. J. E. Williamson, General Manager of the Submarine Film Corporation, who contributed his services and the use of the remarkable undersea tube invented by his father, through the courtesy of the above-mentioned corporation. The party left New York on June 6 and returned on July 30, having spent about eight weeks in the field. The results of the expedition include 31 cases of corals estimated to weigh in excess of 40 tons, over 1,000 photographs and 2,000 feet of motion picture film, including both undersea pictures of the Andros barrier reef and views illustrating the surrounding region, 60 water-color sketches of living corals in their natural colors, and many observations of the outside of the barrier reef, which were made for the first time from the ocean floor through the aid of the Williamson undersea tube. The trip was not without its difficulties, as the work was hampered by the almost continually blowing trade winds, while it was necessary to pack the corals with native help only, on an isolated cay, situated on the reefs themselves.

It is a great pleasure to acknowledge the invaluable services of Mr. Williamson and the Submarine Film Corporation, without whose aid such satisfactory results could not have been obtained; those of His Excellency the Honorable A. C. Burns, Acting Governor of the Bahamas, who facilitated in every way the work of our expedition; of Mr. Elgin W. Forsyth, Commissioner of Southern Andros, whose energetic coöperation and knowledge of the coral reefs were invaluable to the expedition; of the Honorable

George H. Gamblin of Nassau, a member of the Council, who extended many courtesies to us; and of Mr. E. C. Moseley, also of Nassau, who acted without compensation as the headquarters agent of the expedition. Grateful acknowledgment is also due to Mrs. William Belknap and to A. Schrader's Son, Inc., who donated a complete diving equipment of the latest model, which aided greatly in securing the specimens collected on the sea bottom.

Work on the new Rotifer Group and the Tree of the Evolution of Life, both intended for the Darwin Hall, was interrupted by the absence of three members of the preparation staff who took part in the Bahaman Expedition. The preparation of these exhibits has now been resumed and will be carried along simultaneously with the work on the Coral Reef Group. Both these striking exhibits will be completed shortly. The Curator here wishes to acknowledge the remarkable efficiency and skill with which these members of the preparation staff have accomplished their work, both in the laboratory and in the field, and to express his appreciation of the masterly work of Mr. W. H. Southwick, who has solved many intricate problems connected with the delicate coloring of the glass and wax models constructed in the laboratory of the department.

Both the Darwin Hall and the Shell Hall were used extensively by the public and the students of the city schools and colleges during the past year. In the Darwin Hall, 19,107 students in 489 classes studied the various exhibits during 1924. Over 15,129 of these were from public institutions, 1,469 from colleges, and the remainder from private and parochial schools. About 230 different institutions were represented by the visiting classes, 138 of which were situated within the limits of Greater New York, 39 were from New York State outside of the city, 46 in New Jersey, 5 in Pennsylvania and 2 in Connecticut. Grammar schools, high schools, normal schools and colleges were included in the record, as well as institutions devoted to art, hospital training, recreation and the instruction of the deaf and blind. All these schools habitually use the Darwin Hall as a three-dimensional text-book in connection with the regular courses.

The care and utilization of the scientific collections have been most effectively administered by Doctor Van Name during the past year, with the assistance of Mr. Joseph Connolly in the laboratory of general invertebrates and of Mr. Edward H. Gügelman in the Hall of Shells. The revision and labeling of the collection of Macrura, undertaken for the Peabody Museum of Yale University, have been brought to completion by Doctor Van Name. The duplicates received by the American Museum as a result of this work total more than 900 specimens, many of them from deep water, collected by Professor Verrill, Professor S. I. Smith and others during many years, and form a very desirable addition to our collections. Doctor Van Name has nearly completed the study of the fine collection of isopods from Kartabo, British Guiana, collected by Mr. William Beebe, and has continued his study of tropical and West Indian isopods in general, including a collection made by him while on a trip to the Canal Zone. The invertebrates catalogued during the past year include over 310 lots comprising over 3,000 specimens and 190 species, 89 of which are new to the Museum collections, and include 14 types and 7 co-types. In the Section of Mollusks, 1,620 lots of shells were catalogued during 1924. The cataloguing in this section of the department, however, was temporarily suspended during the latter part of the year, pending the transferring of our collections from the old Shell Hall to the gallery of the new Hall of Ocean Life. Research Associate Frank J. Myers has continued his excellent work on our collection of Rotifers, and has contributed many additions to the noteworthy collection built up by him for the Museum. Research Associate Stunkard has spent a part of the past year studying the Congo parasites of this Museum, at the Molteno Institute for Research in Parasitology at Cambridge University, England, and is planning to continue this work during the winter at the Laboratoire de Parasitologie of the Université de Paris. He has already completed his work on the trematodes of this collection, while the cestodes and nematodes will occupy his attention during the remainder of his stay. Research Associate Treadwell has continued his coöperation with the department in connection with our collection of annulates, on which researches are now in progress. Curator Miner has devoted most of his attention during the past year to the study of corals and coral reefs, in preparation for the new group in the Hall of Ocean Life.

During the past year the following publications have been issued under the auspices of this department: "*Dasychonopsis arenosa*, a New Species of Polychætous Annelid from Porto Rico," by A. L. Treadwell, and "Trematodes from the Rat," by H. W. Stunkard and C. B. Haviland.

The following are now in press or in the hands of the committee in charge: "Macrura of the Congo," by W. L. Schmitt; "Aquatic Mollusks of the Congo," by H. A. Pilsbry and J. Bequaert; "Albatross Amphipods," by C. R. Shoemaker; "The Pectoral Limb of *Eryops* and Other Primitive Tetrapods," by R. W. Miner, and "Myriapods of the Congo," by R. V. Chamberlin. Papers in preparation are: "Macrura of the Albatross Expedition," by W. L. Schmitt; "Tropical and South American Land Isopods," by W. G. Van Name; a paper on the Genus *Parajulus*, by G. H. Childs; two short papers for *Novitates*, by R. W. Miner, and "Parasitic Worms of the Congo," by H. W. Stunkard.

The most noteworthy accessions received during 1924, in addition to the splendid collection of Macrura from the Peabody Museum, are a number of Burmese land and fresh-water shells collected by Mr. Barnum Brown of this Museum, numerous invertebrates collected by the R. O. Marsh Expedition to Panama, a collection of land shells from Florida, donated by Dr. W. D. Matthew, and a collection of land shells from the Faunthorpe-Vernay Indian Expedition, a large series of shells received in exchange from Mrs. Ida S. Oldroyd of Stanford University, isopods from the Galapagos Islands from Mr. William Beebe, and a large and varied collection of invertebrates from Bering Strait donated by Captain R. A. Bartlett, as well as the large collection of corals made by our Coral Reef Expedition to the Bahamas.

LOWER INVERTEBRATE ACCESSIONS

BY GIFT

ALLGOOD, ROY, New York City.

3 Centipedes from Assiut, Egypt.

ANTHROPOLOGY, DEPARTMENT OF
(transfer).

1 Land shell from Tidy Island,
Florida.

ASTON, ALBERT, Brooklyn, N. Y.

Collection of marine shells.

BARTLETT, CAPT. R. A., New York
City.

Collection of invertebrates from
Bering Strait.

- BEEBE, WM., New York City.
53 Isopods from the Galapagos Islands.
- BORODIN, DR. N., Hartford, Conn.
1 Vial of shrimps (*Michtheimysis stenolepis*).
- CHAPIN, JAMES P., New York City.
3 Parasitic worms from Gatun Lake, Panama.
- DELAFIELD, MRS. J. R., New York City.
26 Fresh-water shells from Sawkill River, Annandale, N. Y.
- FLORES, MRS. E. J., New York City.
1 Squid.
- GEOLOGY, DEPARTMENT OF (transfer).
12 Land and marine shells from Coronation Gulf. Collected by R. M. Anderson.
- GREGORY, MISS E. F., New York City.
Collection of invertebrates from the Philippine Islands and Florida.
- HAINES, MISS MARGARET S., Burlington, N. J.
5 Specimens of coral.
- HASSLER, W. G., New York City.
2 Myriapods from Arden, N. Y., and New York City.
- HERPETOLOGY, DEPARTMENT OF (transfer).
1 Land shell from Ecuador. Collected by G. H. H. Tate.
- HOLMES, C. M., Seguin, Texas.
1 Myriapod (*Scolopendra sp.*).
- ICHTHYOLOGY, DEPARTMENT OF (transfer).
8 Land shells from Bloomfield, N. J., and Alexandria, Va.
- KELLS, ROSS, Ridley Park, Pa.
2 Shells from Trinidad, B. W. I.
- KIMMEL, AVERY H., Weehawken, N. J.
1 Glass sponge.
- LENG, C. W., St. George, Staten Island.
5 Specimens of tunicates (*Molgula manhattensis*) from Tompkinsville, S. I.
- MATTHEW, DR. W. D., New York City.
147 Land shells from Florida.
- MCLEAN, MRS. NORTH, Shrub Oak, N. J.
38 Land shells from Jamaica, B. W. I.
- MEYER, DR. G. W., New York City.
185 Land shells from Algiers and other localities.
- MILLER, CAPT. THOMAS I., Newark, New Jersey.
3 Slides of hydroids from Hunter's Island, N. Y.
- MYERS, FRANK J., Ventnor, N. J.
18 Slides of mounted and named rotifers, including 9 types, from Mt. Desert Island, Me., and New Jersey.
- MYERS, G. S., New York City.
3 Parasitic worms from Wilmington, N. C.
- NATIONAL RESEARCH COUNCIL, New York City. (Marine Piling Investigations.)
Pilings showing damage done by *Teredo* and *Limnoria*.
9 Vials of isopods (*Sphaeroma destructor*).
- ORNITHOLOGY, DEPARTMENT OF (transfer).
14 Mollusks: *Columbella limata*, *Cardium (Lavicardium) murtoni* and *Tomatina canaliculata*. Collected at Pea Island, N. C.
- RICH, SIDNEY, New York City.
1 Centipede from Java.
- ROBERTSON, R. S., North Tarrytown, N. Y.
50 Shells and other invertebrates.

SCHUBERT, WILLIAM, New York City.
Clam shell showing part of cable
attached to it.

SEIBERT, ROBERT, New York City.
2 Pieces of mahogany showing
damage done by *Teredo* from
Cape Gracias, Central America.

SHERIDAN, CAPT. JOHN, New York
City.
1 Shell from District Pirogana,
Panama.

SMITH, FRANKLIN S., Montclair, N. J.
Fresh-water shells from Edge-
mont Pond, Montclair, N. J.

STUNKARD, PROF. H. W., New York
City.
4 Slides and 2 vials of trematodes.

SWENSON, MRS. S. A., New York
City.
10 Marine shells.

TABLEMAN, FRED, Newark, N. J.
100 Labeled land shells and 1 slide

showing radula and jaw of *Pyra-
midula alternata* from Pelham
Bay, N. Y.

11 Fresh-water mussel shells from
Morris Canal, Bloomfield, N. J.

VAN NAME, DR. W. G., New York
City.

Collection of invertebrates from
Barro Colorado Island, C. Z.,
Panama; 64 fresh-water shells.

VARRELMAN, F. A., New York City.
Collection of ascidians, shipworms,
barnacles, and other inverte-
brates, from bottom of bark
'Guadalhorce' from Cavada,
Spain, and from New London,
Conn., and Cape May, N. J.

VERRILL, A. HYATT, Colon, Panama.
1 Crustacean from Porvenu Island,
Panama.

YATES, MRS. W. J., New York City.
2 Echinoderms from Puget Sound,
Washington.

BY EXCHANGE

BARRETT, CHARLES, Victoria, Aus-
tralia.

Myriapods, isopods, chitons, Ma-
crura, coral, scorpion, shells and
other invertebrates from Aus-
tralia.

CARNEGIE MUSEUM, Pittsburgh, Pa.
5 Vials of sponges from Beaver Co.,
Pa. Collected by A. E. Ort-
mann.

GRAVE, PROF. CASWELL, Woods Hole,
Mass.

4 Vials of ascidians and 1 specimen
of copepod from Tortugas,
Florida.

OLDROYD, MRS. IDA S., Stanford
University, California.

1496 Land and marine shells from
California.

PEABODY MUSEUM, Yale University,
New Haven, Conn.

915 Labeled Macrura.

UNITED STATES NATIONAL MUSEUM,
Washington, D. C.

5 Vials of ascidians from Florida.

WARD, MELBOURNE, Sydney, Aus-
tralia.

18 Labeled crustaceans from Port
Phillip, Victoria, and Port Jack-
son, Australia.

BY PURCHASE

35 Myriapods from Nossi Lava
Island, Madagascar. Collected
by C. Lamberton.

32 Labeled crustaceans, 1 *Teredo
navalis*, 2 *Amphioxus lanceolatus*

and 2 young dogfish from
Adriatic Sea. Collected by R.
Martich.

1 Painted and mounted blue crab.
Collected by Francis West.

THROUGH MUSEUM EXPEDITIONS

- | | |
|---|---|
| <p>170 Land and fresh-water shells from Burma, India. Collected by Barnum Brown.</p> <p>31 Cases of corals, sea fans and other coral reef material for new Coral Reef Group from Andros Island, Bahamas. Collected by Roy W. Miner and J. E. Williamson.</p> <p>3 <i>Peripatus</i>. Collected by G. H. H. Tate at Mirador, Eastern Ecuador.</p> <p>FAUNTHORPE-VERNAY INDIAN EXPEDITION.</p> | <p>41 Land shells. Collected at North Kheri Forest, Satiana, British India.</p> <p>MARSH-DARIEN EXPEDITION.</p> <p>71 Invertebrates from Panama. Collected by C. M. Breder.</p> <p>26 Invertebrates from Panama.</p> <p>28 Crustaceans, land shells and myriapods, from Panama.</p> <p>WHITNEY SOUTH SEA EXPEDITION.</p> <p>6 Crustaceans, 2 echinoderms, 1 myriapod, and 2 pieces of wood showing damage by <i>Teredo</i>.</p> |
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INSECTS AND SPIDERS

FRANK E. LUTZ, Curator

As in former years, the Department of Entomology has been much interested in the problem of teaching about insects. In such work we must depend largely upon exhibits that are instructive as well as interesting—also interesting as well as instructive,—but it is increasingly evident that there should be a personal contact between those who know and those who would like to learn. The room set aside for the New York society of amateur entomologists and the corner of the exhibition hall set aside for Boy Scouts who wish to study insects are efforts that have been successful in this direction.

The New York Entomological Society is made up largely of amateur entomologists. They meet twice a month in their quarters at the Museum for discussions and the reading of papers; they have immediate charge of a very good collection of local insects, and they publish a Journal of about 300 pages per year. The Museum entomologists are regular attendants at these meetings and help with the other activities of the society. Incidentally, the collection of local insects is very useful to others who wish to identify their captures.

The Boy Scout corner is under the general supervision of Mr. B. T. B. Hyde, who is not officially connected with the department but who is much interested in its work. In addition, Mr. Mutchler, one of our staff, gives instruction there at regular intervals, and the boys are encouraged to come to us in our offices whenever they have questions to ask about insects.

However, we want to do even more, and we hope to make arrangements so that those interested may conveniently see, under skilled direction, living insects in their natural environments. Our experiment, made this year, of having living insects on exhibition in the Museum, has convinced us that such a plan can be a success.

Except for that in connection with exhibits, the only field work concerned insect sounds. In this we had the kind coöperation of the Research Department of the Westinghouse Electric and Manufacturing Company, who loaned considerable apparatus, including the microphone invented by Doctor Thomas of that Company. Our object was to study the possibility

that insects make sounds too shrill for man to hear. A report on this work has been published.

Notable progress has been made in the exhibition hall. Five new habitat groups are nearly or quite completed and lack only the permanent fronts. These are the Cabbage Exhibition Butterfly, the Monarch Butterfly, a Swallow-tail, the Japanese Beetle and Lady-beetles on a mountain-top. The last two are particularly interesting. Each shows a large number of individual beetles, but one horde is bent on destruction of vegetation, while the other is an army that will defend man against the attacks of plant lice.

The improvement of the general exhibition has made good progress through the efforts of Messrs. Mutchler and Wunder. It is planned to install a better lighting system so that even the smallest insect may be easily seen.

The study collections have grown somewhat, but there have been no notably large additions. In the arrangement of these collections, we have had the volunteer assistance of Mrs. L. Heineman.

Publications on insects included "A New Species of *Cicindelidæ* from Cuba" by A. J. Mutchler; "New Species of *Collembola* from New York State" by J. W. Folsom; "New Anthophorid Bees from Arizona and Wyoming" by T. D. A. Cockerell; "West Indian *Gyrinidæ* and a New Species of *Gyrestes* from Northern Brazil" by George Ochs; "The *Dermaptera* of the American Museum Congo Expedition, with a Catalogue of the Belgian Congo Species" by J. A. G. Rehn; and "Insect Sounds" by Frank E. Lutz.

ENTOMOLOGY ACCESSIONS

BY GIFT

BELL, E. L., Flushing, L. I. 184 Lepidoptera.	10 Beetles from Cuba. Collected by J. Acuna.
BROWNE, DR. GORDON D. 100 Insects, Amazon between Para and Manos.	BUREAU OF ENTOMOLOGY, United States Department of Agriculture, Melrose Highlands, Mass.
BRUNER, STEPHEN C., Santiago de las Vegas, Cuba. 125 Insects from British Honduras.	87 Specimens of brown-tail moth and biological material from Massachusetts.

- 108 Specimens of gypsy moth and biological material.
- EUROPEAN CORN BORER LABORATORY, Arlington, Mass.
151 Specimens of European Corn Borer, its work and parasites from Massachusetts.
- JAPANESE BEETLE LABORATORY, Riverton, N. J.
30 Beetles and parasites.
- CARTER, T. DONALD, New York City.
1 Diptera from Cohocton, N. Y.
- CHAPIN, DR. JAMES P., New York City.
2 Beetles from Congo, Africa.
- CLARK, B. PRESTON, Boston, Mass.
1 Hawk Moth from South America.
- COCKERELL, T. D. A., Boulder, Colorado.
279 Bees from the Philippine Islands.
- CRAMPTON, PROF. HENRY E., New York City.
65 Insects from Moorea, Society Islands.
- DAVIS, WM. T., New Brighton, S. I.
1 Lepidopteron, type, from Lakehurst, N. J.
1 Specimen of *Metachroma robusta* and 1 of *Disonychia albida* from Florida.
1 Cotype of *Cyrtolobus nitidus* from Staten Island.
- DE LA TORRE, DR. RICARDO, Havana, Cuba.
43 Insects from Bethlehem. New Hampshire.
- FOLSOM, J. W., Homer, Ill.
9 Vials of types of *Collembola*.
- FRISON, THEODORE H., Urbana, Ill.
2 Paratypes of bumble-bees.
- GEHRING, DR. J. G., Bethel, Maine.
2 Beetles from Santa Barbara, California.
- GLICK, P. A., New York City.
4 Moths from Phoenix, Arizona.
- GRIMKE, MRS. L. F. G., New York City.
45 Insects.
- HALL, G. C., New York City.
7 Butterfly types.
- HATCH, MELVILLE H., Ann Arbor, Mich.
2 Beetles from Africa and India.
- HERMANCE, CARL H., Sangos, Calif.
1 Nest of trap-door spider from California.
- HERPETOLOGY, DEPARTMENT OF (transfer).
2 Ants from British Guiana collected by Mr. Richardson.
- HOARD, MRS., New York City.
5 Butterflies.
- HOFFMAN, W. A., Baltimore, Md.
2 Beetles from Sparrow Pt., Baltimore, Md.
- HOLMES, WM., New York City.
1 Butterfly from New York City.
1 Butterfly from France. Collected by Mr. Volck.
- HUGGINS, H. A., Newport, Monmouthshire, England.
159 Lepidoptera from the Gold Coast, West Africa.
- JOHNSON, FRANK, Glen Ridge, N. J.
4 Lepidoptera from New Guinea.
- KELLER, G. J., Newark, N. J.
2 Moths from Lakehurst, N. J.
- KINSEY, PROF. ALFRED C., Bloomington, Ind.
156 Gall flies; numerous specimens of insect galls.
- KLOTS, ALEXANDER B., New York City.
32 Insects collected in Wyoming.
- KUMM, H. K. W., Summit, N. J.
11 Lepidoptera from Africa.
- NEANDROSS, SIGURD, Ridgefield, N. J.
1 Beetle from Ridgefield.



DEPARTMENT OF ENTOMOLOGY

JAPANESE BEETLE GROUP

This is the beetle that caused havoc in the apple and peach orchards
of New Jersey in 1924

- NEW YORK ZOOLOGICAL SOCIETY
(through Wm. Beebe).
642 Lepidoptera from British
Guiana.
- NICOLAY, A. S., Upper Montclair, N. J.
3 Paratypes—*Brachys ovatus* var.
bellporti and *Brachys aerosus*
var. *refescens*.
- NOTMAN, HOWARD, Brooklyn, N. Y.
1 Paratype of *Gyrohypnus davisi*. 1
Beetle from Sylvan Beach, N. Y.
- OTTOLENGUI, DR. R., New York City.
6 Moths.
- POPE, R. A., Forest Hills, L. I.
43 Lepidoptera from Alaska.
- REINHARD, E. G., New York City.
3 Wasps.
- RICH, SIDNEY, New York City.
4 Scorpions from Java.
- ROGERS, C. H., Princeton, N. J.
15 Specimens of insects and arach-
nids from Panama.
- RUMMEL, CHARLES, Newark, N. J.
3 Biological specimens from New
Jersey.
- SHERIDAN, CAPT. JOHN, New York
City.
1 Grasshopper from Darien Region,
Panama.
- SIM, R. J., Riverton, N. J.
8 Beetles from Surf City, N. J.
- STAVELAND, W. H., New York City.
222 Lepidoptera from Peru.
- STEFKO, PAUL, Tarrytown, N. Y.
4 Insects from Tarrytown.
- STEVENSON, CAPT. R. H. R., Bula-
wayo, South Rhodesia.
33 Specimens, chiefly hymenoptera.
- STURTEVANT, DR. A. H., New York
City.
2 Diptera from Staten Island, N. Y.,
and Woods Hole, Mass.
- TAYLOR, H. L., Newark, N. J.
2 Lepidoptera from South America.
- UNITED STATES NATIONAL MUSEUM,
Washington, D. C.
58 Lepidoptera, 2 *Oedemagena*
torandi. Collected in Alaska by
L. J. Reimer; 23 Coleoptera.
- VERNAY, ARTHUR S., New York
City.
About 130 specimens of insects,
probably from India.
- WARD, MISS AGNES S., Welfare
Island, New York.
28 Specimens of insects, spiders and
myriapods from the north bank
of Lower Congo, Africa.
- WATSON, E. R., Miami, Fla.
25 Lepidoptera from Miami.
- WEISS, HARRY B., New Brunswick,
N. J.
2910 Insects from New Jersey.
- WELLS, CARVETH, London, England.
46 Insects from Lapland.
- WHITMAN, FRED S., Brooklyn, N. Y.
87 Insects from Honan, China, and
Puget Sound, N. A.
- WOLCOTT, GEO. N., Porto Rico.
23 Beetles from Porto Rico.
- WOOD, WM. C., New York City.
426 Lepidoptera; 3 beetles from
New York City.
- WOODRUFF, LEWIS B., New York
City.
20 Specimens: paratypes of 9
species of *Homoptera* and 1 topo-
type of *Gyrinus*.
- WUNDER, CHAS., New York City.
657 Insects from Africa.
- ZAPPE, M. P., New Haven, Conn.
7 Weevils from Connecticut.
- ZERDA, PEDRO M., Bogota, Colombia.
200 Insects from South America.

BY EXCHANGE

BARRETT, WM. C., Victoria, Australia.	OCHS, GEORG, Frankfurt-am-Main,
80 Beetles from Australia.	Germany.
HORN, DR. WALTHER, Berlin,	67 Beetles.
Germany.	THERY, A., Morocco.
1 Cotype of <i>Cicindela viridi-flavescens</i> from Santo Domingo.	36 Coleoptera from Morocco.

BY PURCHASE

270 Coleoptera.	About 350 specimens of bees.
105 Spiders and 45 scorpions from Madagascar.	225 Bees from Guatemala, C. Z.

THROUGH MUSEUM EXPEDITIONS

FIRST AUSTRALIAN EXPEDITION.	MARSH-DARIEN EXPEDITION.
13 Vials of scorpions, ants and parasitic insects.	36 Insects from Rio Sucupti, Darien, Panama (through the Department of Herpetology).
BROWN, BARNUM (Vertebrate Palaeontological Expedition to India).	42 Insects from Panama.
About 150 Insects from Burma.	

RECENT AND EXTINCT FISHES

BASHFORD DEAN, Honorary Curator

JOHN T. NICHOLS, Associate Curator of Recent Fishes

The educational work of the department during 1924 has consisted in various publications of a popular nature in regard to fishes, in *Natural History* and other journals. Considerable time has been given to answering queries over the telephone, by letter, and in person. A good deal of attention has been given to reporters of the daily press seeking data about various fishes, particularly the whale shark and the subterranean fishes from the Algerian Sahara received from Professor Roule of the Museum d'Histoire Naturelle, Paris, through the kind offices of Dr. George F. Kunz. These have elicited much interest and have been repeatedly photographed and much exploited in the daily papers. The Department of Public Education of the Museum has called on us at various times for data and service. Considerable trouble was taken to circularize college and university libraries the world over with regard to the Bibliography of Fishes. And finally, not infrequently students of fishes from other institutions sought conferences with members of the staff in the matter of ichthyological problems in which they were interested.

Our greatest service under this latter head was to the International Health Board of the Rockefeller Foundation, which is getting out an extensive report for the use of its workers in the field on the use of fishes in exterminating the larvæ of those mosquitoes which transmit malaria and yellow fever. The compilers of this report have called on our catalogue both printed and card for the literature of this subject and have asked our help in the identification of the fishes. Finally, on our advice it was decided to insert in this report figures of the various fishes used, and our help was sought for locating such figures.

In view of the enlarged space for exhibition due to the assignment of the first floor of the new wing to the Department of Ichthyology, preparation of models for our large shark-ray group has gone forward during the year. The following models have been completed: Tiger shark, black tipped shark, sand shark, and spotted sting ray. A large electric eel, brought from Venezuela to the New York Zoological Park by

Mr. William Beebe, died shortly after arrival and was sent to us. A cast was at once made, and from this a model has been completed and colored from a life sketch made by Miss Isabel Cooper.

Collections already secured by the Third Asiatic Expedition doubtless comprise the best representation of Chinese fresh-water fishes ever brought together. Some of this material has already been examined by Mr. Henry W. Fowler of the Academy of Natural Sciences of Philadelphia, but early in the year it was deemed advisable to make a thorough and prompt study of the whole at the Museum, with a view to preparing a comprehensive treatise on China's fresh-water fish life. To accomplish this aim, Mr. Nichols was relieved, so far as possible, of administrative and other duties so that he might devote his time to such a study—these administrative duties being taken over by Doctor Gudger.

Examination of the material shows that it comprises somewhat over 200 species. A half are readily identifiable, possibly a third undescribed. To the north of the Gobi Desert and in Manchuria, the fishes of eastern Asia are rather well known and have recently been pretty adequately described in Russian. This Russian literature has been made available by the services of Dr. N. Borodin as translator for a month's time. There is a considerable scattered fragmentary and difficult literature relating to the fishes of middle latitudes; those of the south, towards Indo-China, present a comparatively little-worked field.

One of the stations where Mr. Clifford H. Pope made an exhaustive collection, the Island of Hainan, falls within the southern province of fish life. Two thirds of the species from there appear to be new, and a paper on the Fishes of Hainan by Nichols and Pope is already in manuscript. A paper by Mr. Fowler, summarizing the preliminary work done by him, is in proof. During 1925 it is planned to prepare reviews of several groups of fishes, based on material from the Yang-tze valley and elsewhere, which will complete the study of material in hand.

Through Dr. George F. Kunz, a small collection of subterranean fishes, from near Tuggurt in the Algerian Sahara, has been received. These came as a present from Prof. Louis Roule of the Museum d'Histoire Naturelle, Paris. They have been objects of much interest to the public, and several newspapers and

Gifts

press agencies have obtained photographs for publication. Capt. R. A. Bartlett presented a small collection of fishes taken in Bering Sea. Mr. C. M. Breder, Jr., a representative of the Museum on the Marsh-Darien Expedition, brought to the Museum a considerable number of Central American fishes from territory never before visited by a naturalist. Mrs. Rufus T. French of this city has presented to the Museum two very finely mounted fishes from Florida waters, a sailfish and a kingfish.

During the summer the collection of Congo fishes was looked over, and a collection numbering 306 specimens, comprising 148 species, was set aside for the Congo Museum at Tervueren, Belgium. About the same time, Prof. E. C. Starks of Stanford University, the leading student in America of the osteology of fishes, paid a visit to the department. He was particularly interested in our collection of fish skeletons and in our Congo fishes. As a result of these interests, he carried back to Stanford 27 Congo fishes from our duplicate series whose skeletons he proposes to study.

As noted in last year's report, the Bibliography came from the bindery in November, 1923. Complimentary copies were sent out by the editors to various ichthyologists, and others were sent by the Museum particularly to libraries on its "Deposit List." In response, letters began at once to come in from the four quarters of the globe, speaking in the highest terms of its great value to "fish men." Probably no work has ever been put out by the Museum which has elicited more favorable notice. Doctor Gudger has published in *Natural History*, 1924, Vol. XXIV, a historical sketch giving an account of the inception of the idea of the Bibliography and recounting the 30 years' struggle which ensued before Doctor Dean's handwritten card catalogue became the completed, printed and indexed "Bibliography of Fishes."

In recognition not merely of the great value of the Bibliography to ichthyologists in general but also to all students interested to get at any particular subject wherein fishes are related to the life of man, the Daniel Giraud Elliot Medal and Award for 1921 were given to Doctor Dean for the successful completion of the Bibliography.

In order to call the attention of libraries the world over to the completion of the Bibliography and to the wide range of data in its subject index, a prospectus was prepared and sent to the libraries of all colleges, universities, and scientific societies where research work is being done, and to every large city library in the world. Copies may be obtained by addressing the Library of the Museum.

In accordance with the provisional plan noted in last year's report, steady work has gone forward during the year on the classified continuation card catalogue of ichthyological literature. A call will shortly be issued to ichthyologists everywhere to send in separates, that their titles may at once be entered in our Index Catalogue. In this way we hope to keep the Bibliography up to date.

"Deep-sea Fishes of the Albatross Lower California Expedition," by C. H. Townsend and J. T. Nichols, is in the press. A second edition of a table of record weights of game fishes by Heilner and Nichols has been published in *Field and Stream*, the plates from which it was printed coming here so that the Museum might have such separates as it wished for distribution. "A Contribution to the Ichthyology of the Galapagos," based on the material collected by the Harrison Williams Expedition and referred to in the previous report, was published by Mr. Nichols in *Zoologica*, Vol. V. A joint paper by Messrs. Nichols and Breder, "New Gulf Races of a Pacific *Scorpena* and *Prionotus* with Notes of other Gulf of Mexico Fishes," based on United States Bureau of Fisheries material, was published in *Proceedings of the Biological Society of Washington*.

Prior to going to Indiana University to study under Dr. C. H. Eigenmann, Mr. G. S. Myers, who is interested in such fishes as are kept in aquaria and the family of tooth carps in particular, was given access to the Museum's fish collections, and he has published several short systematic notes based to a greater or less extent on Museum material. Mr. C. M. Breder, Jr., of the Marsh-Darien Expedition, has examined a considerable collection of the Central American fishes brought to the Museum by him, but any report on the same has been postponed in view of the possibility of obtaining supplementary material, and until he shall have more leisure for research work.

Doctor Gudger has finished an article dealing with certain ascertained facts as to the morphology, coloration and behavior of 70 teleostean fishes of Tortugas, Florida. In connection with the Department of Anthropology, he is preparing an extensive monograph on the wooden shark hooks and the peculiar wooden hook used for taking *Ruvettus pretiosus*, the oilfish, of the South Seas. Study of the distribution of this hook has enabled him to trace the distribution of the fish throughout a vast extent of the central Pacific, where as yet it is unknown to ichthyologists.

Publications by Doctor Gudger during the year were: "Notes on the Behavior of the Gray Snapper" (*Neomænis griseus*), in *Natural History*; "On the Proper Wording of Scientific Titles," in *Science*; "Dean's 'Bibliography of Fishes'—A Historical Sketch," in *Natural History*; "The Sources of Material for Hamilton-Buchanan's Fishes of the Ganges, the Fate of his Collections, Drawings and Notes, and the Use made of his Data," *Journal and Proceedings Asiatic Society of Bengal*, Calcutta; "Pliny's *Historia Naturalis*: the Most Popular Natural History ever Published," in *Isis*, Brussels; "More About Spider Webs and Spider Web Fish Nets," in *Bulletin of the New York Zoological Society*.

Mr. Nichols attended the meeting of the American Society of Ichthyologists and Herpetologists at Northampton, Massachusetts, in October, and presented a paper. He was made Vice-President of the Society for 1924-25. Doctor Gudger attended the meetings of the American Society of Zoologists at Washington during the holidays and read two papers.

ICHTHYOLOGY ACCESSIONS

By Gift

- | | |
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| ANTHONY, A. W., San Diego, Calif. | CORFITZEN, EDWARD, Cold Spring Harbor, L. I. |
| 9 <i>Chromis punctipinnis</i> from Guadalupe Island. | Abnormal flounder from Northport, L. I. |
| BARTLETT, CAPT. ROBERT A., Washington, D. C. | DORN, RICHARD, U. Montclair, N. J. |
| Phial of cod fry from Nome, Alaska; 45 arctic fishes from Bering Sea and vicinity. | Jar of 250 miscellaneous aquarium fishes. |
| BORODIN, DR. N., Hartford, Conn. | ENGE, WM. A., Sanchez, Republica Dominica, W. I. |
| Series of young Alewives, etc., from Connecticut River. | 2 Batfish (<i>Ogcocephalus</i>) from Samanar Bay. |

- FRENCH, MRS. RUFUS T., New York City.
 1 Kingfish and 1 sailfish from New York City.
- GRISCOM, LUDLOW, New York City.
 1 Synodontid fish from Panama.
- HALTER, PROF. C. R., Lakeland, Florida.
 3 Small fishes from Florida.
- HEILNER, VAN CAMPEN, Spring Lake, N. J.
 2 Specimens of spearfish sucker from Bimini, Bahamas.
- JOHNSON, CHESTER, Bar Harbor, Me. (through Wm. Proctor).
 1 Large sand lance from Mt. Desert Island, Me.
- LUCAS, DR. F. A., New York City.
 1 Darter from King's Pond, Plymouth, Mass. Collected by Arthur Merrill.
- MESERVE, FREDERICK H., New York City.
 1 Fossil fish from Debeque, Colorado.
- MOWBRAY, L. L., New York City.
 2 Bass and 1 grunt from Ponce, Porto Rico.
- NEW YORK AQUARIUM, N. Y. City
 1 Crab eater from Sandy Hook Bay.
- NEW YORK ZOOLOGICAL SOCIETY, New York City.
 1 *Gymnotus electricus* from Guanoco, Venezuela.
- PUTNAM, MRS. NINA WILCOX, New York City.
 1 Unicorn fish, mounted by West, from Boca Raton, Fla.
- ROSS, LT. COL. T. A., New York City.
 Fossil shark's tooth from Waikohu River near Motu village, New Zealand.
- ROULE, PROF. LOUIS, Paris, France.
 4 Lots of subterranean fishes from the Algerian Sahara, northern Africa.
- SMITH, MISS KATHERINE W., Point O'Woods, Long Island.
 1 Six-inch sea-horse from Point O'Woods.
- SMITH, MRS. HERBERT W., Point O'Woods.
 1 Young butterfly fish from Point O'Woods.
- STRAUSS MARKET, INC., New York City.
 1 Lump Fish.

BY PURCHASE

6 Fossil fishes from Germany.

REPTILES AND AMPHIBIANS

G. KINGSLEY NOBLE, Curator

The contacts with Nature are few in a great city. But nearly everyone sooner or later breaks away long enough to make a tramp through the woods. It is perhaps then for the first time that the city boy sees a frog splash, a snake crossing the road or a toad hopping through the bushes.

Contribution
to Education

These are interesting creatures but often shrouded in mystery. How many of us have not been told that a toad gives warts, or that a garter snake can sting with its forked tongue? Hardly a week passes that the department is not called upon to show that these or some other such stories are mere superstition. This, however, is only the beginning of the educational work of the department. Teachers of biology—the science of life—realize how admirable are reptiles and amphibians in demonstrating the intimate correlation between the animal and its environment. Such terms as protective coloration, hibernation, adaptation, parallelism and many others which the high school student meets in his reading are demonstrated in our exhibitions. The development of the frog, the life cycle of the turtle, the habits of our common snakes are shown in our unrivaled habitat groups. That these groups are appreciated may be realized from the long list of questions dealing with reptiles and amphibians which the high school student is expected each year to answer. In our exhibitions, lectures and correspondence, the department serves as a source for exact information in regard to the cold-blooded animals which are frequently seen and yet so little understood. The first vertebrate creatures that ever walked on earth were Amphibia; the great groups of birds and mammals (including man) sprang from different stocks of reptiles. It is no wonder, therefore, that amphibians and reptiles afford us unusual opportunities for determining the beginnings of many instincts, habits and structures found in man.

Our attention during 1924 has been concentrated on the exhibitions for the new Hall of Reptiles and Amphibians which will occupy the entire third floor of the recently completed wing. Work in other directions was not entirely suspended. Field investigations in Panama and North Carolina were carried on with notable success. The year has been one of marked progress.

The
Year

Through the kindness of Mr. Richard O. Marsh, the department was able to send Mr. C. M. Breder, Jr., on the First Marsh-Darien Expedition. The interest of the expedition was primarily centered on the much discussed "White Indians," but Mr. Breder was given ample opportunity to study the reptiles and amphibians of the regions visited. Through great perserverance and good luck he was able to make the most complete life-history studies ever carried out on any Central American Amphibia. Especial mention may be made of his studies on a large tree frog, *Hyla rosenbergi*, which builds its nest of mud on the edge of a stream bed. Mr. Breder investigated in great detail the breeding habits of a diminutive "cooing frog," *Eupemphix pustulosus*, that beats its spawn into a foamy mass many times larger than the bodies of both parents. A nearly complete developmental series of the eggs and embryos of several other Panamanian frogs was secured. Many fishes, as well as some birds and mammals, were collected by Mr. Breder during his sojourn in this unexplored part of the Isthmus of Panama.

During the summer months, Mr. Clifford H. Pope, zoölogical assistant to the Third Asiatic Expedition, spent his vacation collecting data on the life histories and habits of the salamanders of western North Carolina. Although the American Museum has had one previous expedition in this region and both the University of Michigan and the New York State Museum have in recent years sent expeditions to the same localities, Mr. Pope was so fortunate as to discover for the first time the eggs of several rare salamanders and to send to the American Museum large collections of living eggs, embryos and adults. In less than two months Mr. Pope brought together one of the largest and most important life-history collections in the Museum.

The major exhibitions of the department, namely, the habitat and floor groups mentioned in last year's report, were greatly advanced during the year. The Gopher Turtle Group was brought to completion; the Gila Monster and Sea Lizard Groups were finished, except for the background. The Giant Tree Frog Group is approximately two-thirds done. The Sphenodon Group has been delayed because additional information and acces-

sories from Dr. Speight and Mr. Sladden of New Zealand have decided us to alter the original setting. Now we shall be able to show the *Sphenodon* at home in the burrow of a petrel with the rightful owners of the retreat passively submitting to their unwelcome guest. Each of the groups which we now have in hand attempts to portray some incident in the life history of the creatures and at the same time to demonstrate certain biological principles. Appropriate labels have been prepared which will emphasize these features and increase considerably the teaching value of the habitat groups.

Our exhibits are intended to appeal to a great variety of visitors. Many are interested in identifying particular reptiles or amphibians which they have met in their tramps. The species known within fifty miles of New York City are not all represented in our hall. Especial effort was made this year to fill in some of the gaps. Among the species collected and mounted this year were a mountain black snake, a common black snake, a ring-neck snake, a red-backed salamander brooding her eggs, a mud turtle and two fence lizards.

A large series of rare and important species was added to our synoptic series. Perhaps the most noteworthy were a Galapagos giant tortoise, presented by Mr. William Beebe, and two large land tortoises from Africa (*Testudo pardalis* and *T. calcarata*) received from the New York Zoological Park. An enormous African viper and two red rattlesnakes were mounted by Mr. Escherich. Other snakes included the Oregon rattlesnake, young and adult, a western diamond-back rattler, two western burrowing snakes (*Sonora semiannulata*), an albino bull snake, and an American ground boa (*Charina*). Some splendid wax casts of salamanders were made, including two western newts, a European Alpine newt, and a long-toed salamander. Other Amphibia placed on exhibition include Couch's spade-foot toad and the brilliant striped salamander, *Eurycea gutto-lineata*.

Several casts were prepared for shipment abroad. A cast of the giant African frog, *Rana goliath*, and one of the gila monster were sent to the Senckenberg Museum.

The reptiles and amphibians added to the collection this year were received chiefly from the major expeditions. The adult specimens number 3,667, while the eggs and larvæ, which are catalogued by lots, will bring the total number of specimens well over five thousand. The adult specimens acquired by gift number 955; those secured through purchase, 628; through exchange, 496; through local field work, 145, and through Museum expeditions, 1,443. Especial mention may be made of the 232 lizards received from the Museum of Comparative Zoology in exchange for the services of the department in identifying a collection of Peruvian reptiles. The long series of gifts this year is listed below. The gifts of Mr. Griscom, Mr. Myers, Doctor Smith and Doctor Uhlenhuth have been of great value to the research work in progress. The purchases made this year, although few because of the limited funds available, have been well chosen. Several of the specimens secured in this way were described in some of the papers of the year.

The department staff underwent an extensive reorganization this year. At the close of last year, Assistant Curator Ortenburger resigned to accept the position of Assistant Professor of Zoology at the University of Oklahoma. The department was so fortunate as to secure, later in the year, the services of Miss Miriam E. Jaeckle, a graduate of Mt. Holyoke and especially trained in technical and bibliographic work. Additional assistance was obtained through the services of Mr. William Hassler who joined the department staff in the capacity of assistant early this year. Few realize the enormous amount of routine work carried on by the department. From five to twelve thousand specimens are accessioned and catalogued each year. The filing, arrangement and labeling of the specimens absorb the greater part of the time of two assistants. At the beginning of the year, the Associate Curator was appointed Curator of the department.

The work of the Department of Reptiles and Amphibians, like that of any other department in the Museum, is extremely varied.

We must be prepared to answer authoritatively the various inquiries from universities or medical schools which come to us each year, as well as the much more numerous questions raised by grammar school teachers or children. The diversity of our con-

tact with the educational institutions of the country is reflected to a certain extent in technical and popular lectures given each year. The Curator attended the annual meeting of the American Association of Anatomists at Buffalo and read a paper (published jointly with Dr. W. K. Gregory) on "The Origin of the Mammalian Alisphenoid Bone." Late in the year he attended the annual meeting of the American Society of Zoologists and presented two papers entitled respectively: "The Integumentary, Pulmonary and Cardiac Modifications Correlated with Increased Cutaneous Respiration in the Amphibia" and "The 'Retrograde Metamorphosis' of the Sirenidae; Experiments on the Functional Activity of the Thyroid of the Perennibranchs." The Curator gave several popular addresses during the year before the Boy Scouts and other organizations. Late last year he gave a popular account of his work in Santo Domingo before the Royal Canadian Institute. This lecture was repeated before several popular audiences in New York and elsewhere.

The Curator published in the *Bulletin* during the year a paper on "Contributions to the Herpetology of the Belgian Congo, III. Amphibia." He published in *Novitates* a paper on Research and Publication "A New Spadefoot Toad from the Oligocene of Mongolia with a Summary of the Evolution of the Pelobatidae." Another paper in *Novitates*, published jointly with Mr. E. H. Taylor, is entitled "A New Genus of Discoglossid Frogs from the Philippine Islands." The summary of a paper on the Mammalian Alisphenoid by Dr. W. K. Gregory and the Curator appeared in the *Anatomical Record*. A report on "Some Neotropical Batrachians Preserved in the United States National Museum, with a Note on the Secondary Sexual Characters of these and other Amphibians" was published in the *Proceedings of the Biological Society of Washington*. The Curator published in *Occasional Papers of the Boston Society of Natural History* a paper on "New Lizards from Northwestern Peru." These last two papers deal with collections loaned to the American Museum for study. The Curator has in press a paper on "The Evolution and Dispersal of the Frogs" (*American Naturalist*) and another (with Dr. Gregory) on the alisphenoid bone of vertebrates. A paper on the structural modifications of the amphibian integument, lungs and heart which accompany an increase in the cutaneous respiration has been

accepted for publication. A report on some experiments on the endocrine system of various "permanent larvæ" of different Amphibia has been completed, while an extensive paper on "The Relation of Ontogeny to Phylogeny within the Amphibia" is nearly ready for publication. The latter will form the second part of the Curator's "Phylogeny of the Salientia."

A paper by Mr. Clifford H. Pope on the results of his field work in North Carolina is in press and will soon appear in *Novitates*. A paper by Mr. Pope and the Curator is nearly completed. It deals with the Amphibia which the former collected in Hainan while a member of the Third Asiatic Expedition. Mr. K. P. Schmidt has been studying the reptiles collected by this expedition. He has already presented for publication one paper on new species of reptiles from the island of Hainan. Several other papers on the systematics of reptiles and amphibians are well under way. One of these by Dr. E. R. Dunn is practically finished. It considers the Mexican snakes in the collections of the American Museum.

HERPETOLOGY ACCESSIONS

BY GIFT

- | | |
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| ALLGOOD, ROY, New York City
(transferred from Department of
Anthropology). | CARTER, T. DONALD, New York City. |
| 3 Lizards from Assiut and Ramleh,
Egypt. | 1 Snake from Boonton, N. J. |
| ANONYMOUS. | 1 Pilot black snake from Wyanokie,
near Passaic, N. J. |
| 1 Brown snake. | CRIMMINS, COL. M. L., Fort Bliss,
Texas. |
| BAUDON, A., Fort Soufflay, Moyen
Congo, Africa. | 3 Snakes, 6 horned toads, 1 lizard
from Texas. |
| 2 Chamæleons from Moyen Congo. | FRIEDMAN, HENRY, Brooklyn, N. Y. |
| BOY SCOUTS OF AMERICA, TROOP 222,
New York City. | 2 Crocodile skins from Buenos
Aires, Argentina. |
| 5 Green frogs, 5 wood frogs, 1 spring
peeper, 4 red salamanders, 8
dusky salamanders, 1 larval red
salamander, from Bridal Veil
Falls, south of Alpine on Pali-
sades, N. J. | GORDON, MALCOLM D., New York
City. |
| BOY SCOUTS OF AMERICA, New York
City. | 25 Salamanders from Willow,
Catskill Mts., N. Y. |
| 1 Painted turtle from Yonkers,
N. Y. | GRANT, C., San Diego, Calif. (through
Department of Mammalogy). |
| | 1 Turtle skull from San Diego,
California. |
| | HALLINAN, THOMAS, Tokio, Japan. |
| | 1 Coral snake from Eustis, Florida. |

HASSLER, MRS. W. D., New York City.

- 1 Small wood turtle from Willow, Catskill Mts., N. Y.

HASSLER, W. G., New York City.

- 4 Toads, 7 Cricket frogs, from Tuxedo, N. Y.

HOOVER, A. F., Gouverneur, N. Y.

- 1 Shed snake-skin from Little Island, Mascalongue Lake, New York.

JOHNSON, R. D. O., Hurley, N. M.

- 1 Living horned toad from New Mexico.

LEWIS, WILLIAM H., Glen Cove, L. I.

- 1 Snake from Path Hill, Glen Cove, L. I.

LOVERIDGE, MR. ARTHUR, Cambridge, Mass.

- 1 Lizard from Kilosa, Tanganyika Territory, Africa.

MAMMALOGY, DEPARTMENT OF (transfer).

- 19 Frogs, 2 snakes, 1 turtle, and 1 lizard from Ecuador. Collected by G. H. H. Tate.

MILLER, W. DEW., New York City.

- 2 Snakes from Bearfoot Mt., N. J.
- 1 Living ring-neck snake from Cooksbury, Pa.

MOLDENKE, RICHARD, JR., Watchung, N. J.

- 1 Snake from Watchung.

MOWBRAY, L. L., New York City.

- 32 Specimens of lizards from Bermuda.

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

- 1 Preserved snake from Mt. Sinai Harbor, L. I.

MUSEUM OF COMPARATIVE ZOOLOGY, Cambridge, Mass.

- 232 Specimens of lizards from Peru.

MYERS, G. S., Jersey City, N. J.

- 9 Reptiles, 24 amphibians and 3 vials of salamander larvæ. Col-

lected in and about Wilmington, N. C.

NEW YORK ZOOLOGICAL SOCIETY, New York City.

- 7 Australian monitors, 3 glass snakes, 9 lizards, 1 cobra, 1 anaconda, 14 snakes, 1 fer de lance, 1 frog, 2 turtles, 8 rattlers, 1 blue-tongued lizard, 1 "rock python," 3 Galapagos iguana, 1 leopard tortoise, 1 "yellow-bellied terrapin," 1 albino California bull snake, 1 gila monster, 3 Caiman, 2 snake-necked turtles, 2 pythons, 1 crocodile, 1 California king snake, 1 water dragon, 1 Conolophus, 2 Cunningham skinks, 3 puff adders, 1 South American tortoise.

NICHOLS, J. T., New York City.

- 1 Lot of 22 snapping turtle eggs from vicinity of Mastic, L. I.

ORNITHOLOGY, DEPARTMENT OF (transfer).

- 21 Lizards. Collected by R. H. Beck in Samoa.

- 10 Snakes, 5 lizards and 8 frogs. Collected by Ludlow Griscom in Panama.

- 1 Snake and 1 lizard from Puente del Inca, Argentina, and Puerto Montt, Chile. Collected by Dr. Frank M. Chapman.

PATCH, CLYDE, Ottawa, Canada.

- 1 Living salamander from Bella Coola, British Columbia.

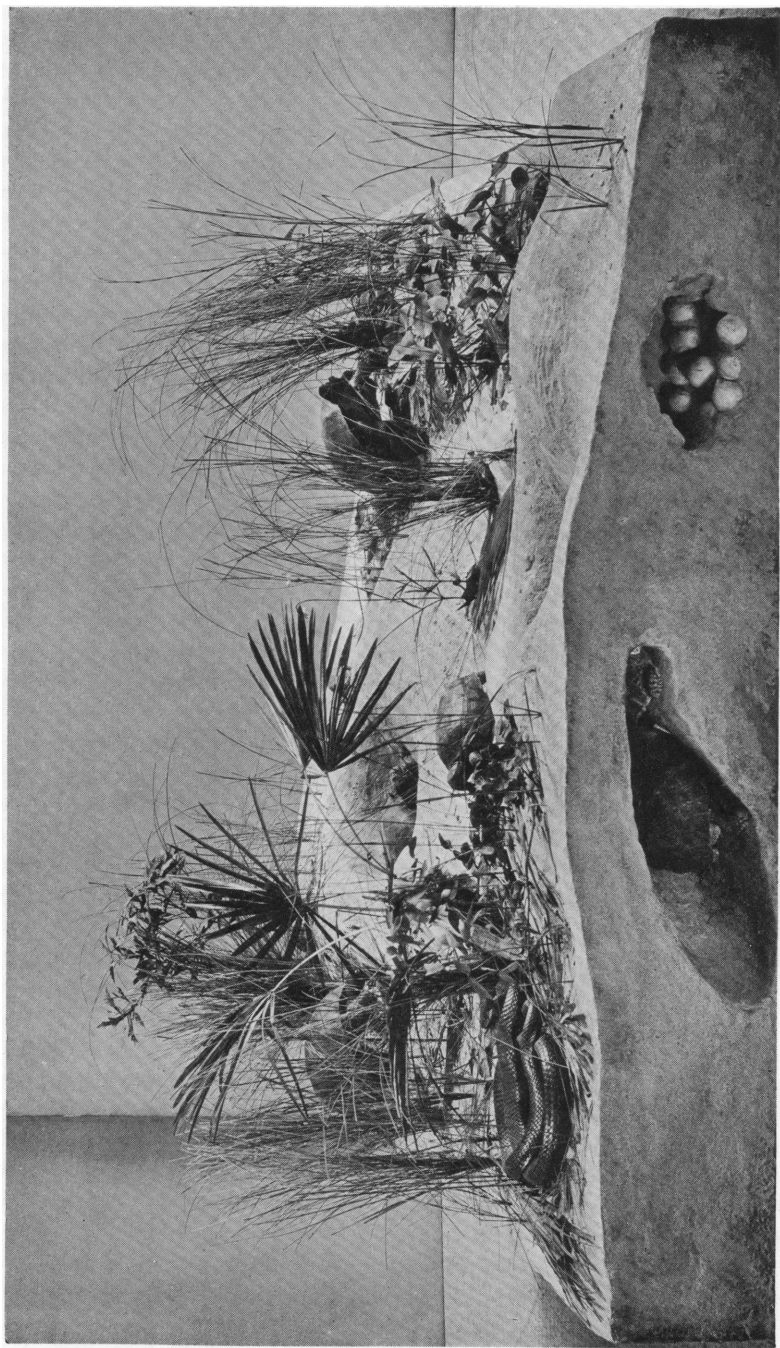
POPE, C. H., Flat Rock, N. C.

- 4 Vials of preserved salamander larvæ and eggs, 132 vials of salamanders and eggs, 163 salamanders, 3 vials of salamander larvæ, 22 bunches of salamander eggs, 29 salamander eggs, 2 wood frogs. Collected in North Carolina.

- PRENTICE, CHAS. F., Nelson, Canada.
1 Preserved specimen of lizard from Nelson, British Columbia.
- PULLEN, JACK I., Sanatorium, Texas.
2 Coachwhip snakes.
- RAFF, ARCHIBALD, Cuba, Mo.
1 Salamander from Missouri.
- RICH, SYDNEY, New York City.
1 Lizard from Java.
- SCHRINER, VERY REVEREND CHRYSOSTOM, Nassau, Bahama Island.
1 Fossil egg-shell encased in limestone from Coral Limestone Quarry, Nassau, Bahamas.
- SHOEMAKER, ERNEST, Brooklyn, N. Y.
1 Marbled salamander from vicinity of New York City.
- SMITH, DR. B. G., New York City.
12 Living salamanders.
- TAYLOR, EDWARD H., Kansas City, Mo.
1 Frog from the Philippine Islands.
- THOMSON, H. V., New York City.
1 Living box turtle from Englewood Cliff, N. J.
1 Painted turtle from Pearl River, N. Y.
1 *Bufo americanus* and 14 red salamanders from South Orange, N. J.
- TODD, MAJ. H. S., Huntington, L. I.
1 Snake from Huntington, L. I.
- UHLENHUTH, DR. EDUARD, Baltimore, Md.
42 Specimens of amphibians.
- VAN NAME, DR. W. G., N. Y. City.
1 Vial of tadpoles, 4 vials of frogs, 1 adult frog, from Panama Canal Zone.
- WEBER, J. A., Leonia, N. J.
2 Frogs from Lakehurst, N. J., and 3 salamanders and 2 frogs from Johnsonburg, N. J.
- WELTY, WALTER, Meadville, Pa.
1 Living giant salamander and eggs from vicinity of Meadville, Pa.
- WORMSER, MRS. DAVID, N. Y. City.
1 Rattlesnake skin from California.

BY EXCHANGE

- BARBOUR, DR. THOMAS, Cambridge, Mass.
1 Salamander from Hakonehake, Hondo, Japan, 3 frogs from Lolodorf, Cameroon, 2 frogs from Sakbayene, Southern Cameroon, Africa.
- BERNICE P. BISHOP MUSEUM, Honolulu, Hawaii.
2 Lizards from Guam and 3 lizards from Shortland and Solomon Islands. Collected by A. Seale.
- BRITISH MUSEUM (NATURAL HISTORY), London, England.
1 Lizard from Punjab, India, 2 lizards from Texas.
- DAVIS, W. T., Public Museum of Staten Island, N. Y.
1 Living gecko.
- ERWIN, RICHARD P., Boise, Idaho.
17 Salamanders and 13 living rattlers from vicinity of Boise.
- KING, JOHN, Samaná, Dominican Republic.
1 Lizard egg from Samaná.
- KLAUBER, L. M., San Diego, Calif.
13 Rattlesnakes from San Diego.
6 Salamanders, *Batrachoseps attenuatus*, from California.
- LUTZ, DR. ADOLPHO, Rio de Janeiro, Brazil.
91 Amphibians and 5 snakes from Rio de Janeiro.



DEPARTMENT OF HERPETOLOGY

GOPHER TURTLE GROUP

A portion of a Florida dune showing Gopher Turtles, Gopher Snakes and Gopher Frogs living peacefully together

MARIA, BROTHER NICEFORO, Bogotá, Colombia.

81 Frogs and toads, 160 lizards, 11 snakes, 89 amphibians, 1 *Amphisbæna*, 5 *Glaucônia*. Collected in Colombia.

MIRANDA-RIBEIRO, DR. ALÍPIO, Rio de Janeiro, Brazil.

1 Tadpole from vicinity of Rio de Janeiro.

6 Amphibians and 1 vial containing larvæ.

1 Reptile. Collected in Brazil.

WEINGAND, DR. KARL, Bad Mergentheim, Germany.

6 Living specimens of salamanders, 1 living frog, from Germany.

WOLTERSTORFF, DR. W., Magdeburg, Germany.

10 Living salamanders, 23 frogs, 4 juvenile frogs, from Germany, 4 living salamanders from Florence, Italy.

BY PURCHASE

1 Vial containing salamander larvæ, 42 living salamanders, 1 frog, 12 living snakes, 11 specimens of young salamanders. Collected by J. S. Alexander at Gainesville, Fla.

70 Snakes, 1 cæcilian, 5 lizards, 9 frogs, 2 amphisbænians. Collected by Enrique Feyer in Ecuador.

79 Lizards and 3 snakes. Collected by Dwight Franklin in Arizona.

1 Giant frog, 6 lizards, 1 cæcilian, and 1 frog, from Efulen, Cameroonian, Africa.

5 Snakes, about 30 lizards, 88 preserved frogs, 6 living lizards, 1

bunch of lizard eggs. Collected by John King near Samaná, D. R.

1 Living loggerhead turtle from New York Harbor.

203 Amphibians and 39 reptiles from Ecuador.

2 Adult amphiumas from Louisiana.

2 Vials containing *Pelodytes punctatus* eggs and larva from Ospitaletto, Italy.

4 Living adult *Salamandra maculosa* from Germany.

1 Developmental series of *Triton palmatus* and 1 developmental series of *Triton vulgaris* from Germany.

THROUGH MUSEUM EXPEDITIONS

2 Snakes, 10 lizards and 1 frog. Collected in India by Barnum Brown.

ARTHUR S. VERNAY INDIAN EXPEDITION.

2 Crocodile heads, 1 monitor skin, 1 turtle shell. Collected in Siam.

LOCAL FIELD WORK.

55 Salamanders, 10 frogs, 1 bunch of salamander eggs, 4 toads, 10 fence lizards, 1 batch of tadpoles. Collected by Dr. G. K. Noble in New Jersey.

5 Leopard frogs, 1 bullfrog, 20 spring peepers, from Leonia, N. J.; 23 salamanders, 2 snakes, 4

turtles, 1 bunch of tadpoles, 8 frogs, from vicinity of Bear Mountain, N. Y. Collected by Dr. G. K. Noble and W. Hassler.

MARSH-DARIEN EXPEDITION.

10 living geckos, 918 amphibians, 152 vials of amphibian larvæ and eggs, 205 reptiles, 12 vials of young lizards and turtles, 50 lizard and turtle eggs, 11 vials of reptile eggs. Collected by C. M. Breder, Jr., in Panama.

WHITNEY SOUTH SEA EXPEDITION.

47 Lizards from the Samoan Islands. Collected by R. H. Beck.

BIRDS

FRANK M. CHAPMAN, Curator-in-Chief

The work of the Department of Birds for 1924 has progressed most satisfactorily. Increased space has not only permitted the rearrangement of collections in a more accessible form, but has very greatly improved our facilities for research work, each member of the department having now a place in which he may work to advantage.

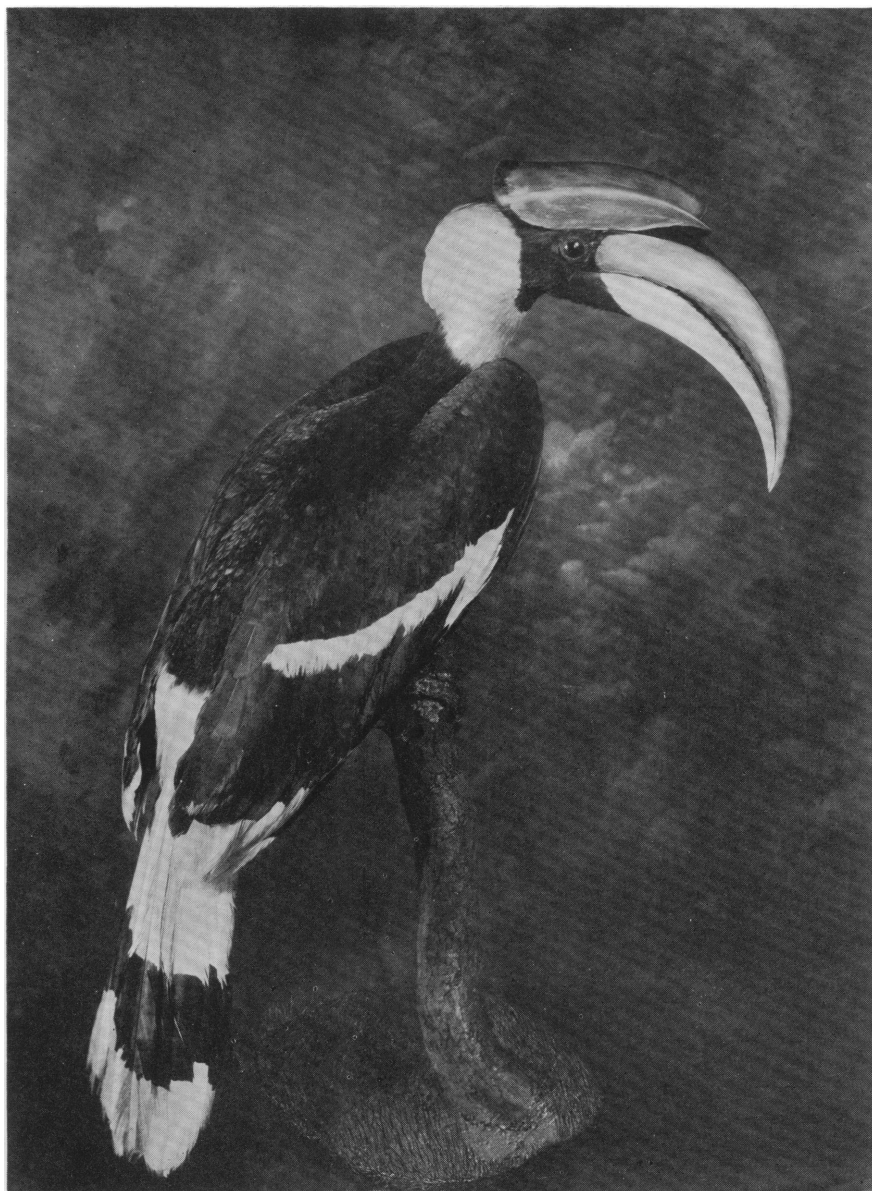
One of the results of the close contact which this Museum has with the public is the number of calls which are made upon us for information in regard to all matters pertaining to ornithology. In short, this department has become a bureau of information for the press and public concerning every phase of bird life, including not only the identification of species, but advice as to where they may be found, data concerning the bird laws and their enforcement, and various other questions affecting the relation of birds to man. For several months lists were kept of our callers, the nature of the information desired, and the time required to give it. A careful examination of these lists shows that in very few instances have we been called upon unnecessarily.

Field Work Field work has been prosecuted in various parts of the world. The Arthur S. Vernay Expedition in Burma and Siam secured for us, in addition to its large mammal collections, many birds not before represented in this department.

The Whitney South Sea Expedition, in charge of Rollo H. Beck, with the cordial consent of the government, has made thorough collections in the Fiji Islands.

The Curator of the department, with Mr. F. C. Walcott, visited Argentina and southern Chile, securing numbers of specimens, much information in connection with our biological survey of the Andes, and material for Habitat Groups illustrating the bird-life of the high Andes at the base of Aconcagua and the Pampas region of Argentina, south of Buenos Aires.

Mr. Ludlow Griscom conducted a most fruitful reconnaissance in western Panama, in continuation of our biological survey of that Republic.



DEPARTMENT OF ORNITHOLOGY

THE GREAT INDIAN HORNBILL

A male bird presented by Mr. Arthur S. Vernay, who collected it in Tenasserim

Mr. Harry Watkins has completed our ornithological survey of the region lying between the Pacific and humid Amazonia and northern Peru, establishing between these points a series of collecting stations which give us definite and hitherto unrecorded information in regard to the origin of the Pacific coast birds.

From eastern Ecuador, our native collectors, the Olalla brothers, have sent us probably the most valuable collections which have hitherto been made in this region.

The total number of specimens added to the collections during the year slightly exceeds 12,200; these have come chiefly from our own expeditions, but a number of small collections, including 83 specimens from New Zealand and 103 from Madagascar, have been purchased.

By gift, we have received from Dr. Thomas Barbour, a specimen of the extinct Cuban macaw, of which only ten are known to exist, and also a specimen of the nearly extinct New Zealand duck. Through the Arthur S. Vernay Indian Expedition we have received 601 birds from Tenasserim and Siam, and 72 from Burma. The 258 pheasants collected by Mr. William Beebe, through the New York Zoological Society, constitute an exceedingly important accession to our collections. The Third Asiatic Expedition has also added 537 specimens from China and Mongolia.

With the exception of those most recently received, all the collections acquired during the year have been catalogued. Owing to the increased storage facilities, previously mentioned, the collection as a whole is in better condition than it has been heretofore. This statement applies not only to the skins of birds but to our collection of bird skeletons.

The time of the Curators available for research has been occupied chiefly in continued prosecution of extended monographic reports. The head of the department has been occupied with his Bulletin on the Distribution of Bird Life in Ecuador, to form the second volume on Andean bird life.

Doctor Dwight has completed his extensive monograph of the Gulls of the World. Doctor Murphy has continued work on the Polynesian and South American marine birds; Dr. Chapin, upon his Birds of the Congo Region; Messrs. Miller and Griscom, on

the Birds of Nicaragua, and Mrs. Naumburg on the Birds of the Matto Grosso Region.

Meanwhile, as by-products of these various investigations, shorter papers have been prepared describing new species or presenting the more important results of the investigations under way, as follows: Five papers by Dr. Frank M. Chapman, three by Dr. Robert Cushman Murphy, three by Waldron DeW. Miller, two by Dr. James P. Chapin, eleven by Ludlow Griscom (one with Dr. Dwight), one by Jonathan Dwight, one by Mrs. E. M. B. Naumburg.

The spirit of coöperation which exists between this department and the corresponding departments of sister museums, enables us to draw on them for such specimens as we need in our studies that are not contained in our own collections, and in return for the privilege of examining such material we freely meet the demands of our colleagues for such specimens as they may require for their investigations.

With the prospect of the additional space in our exhibition halls, we have resumed work upon plans long in contemplation for the rearrangement of existing exhibitions, and additions to those already in our halls.

Work has been started upon the proposed exhibition of flying birds, which it is hoped will be completed during the coming year.

ORNITHOLOGY ACCESSIONS

BY GIFT

ANONYMOUS.

- 1 Screech owl, 1 Leconte's sparrow.
- 1 Black-throated green warbler from Plainfield, N. J.
- 3 Hermit thrushes from New York City.
- 1 Blue honey creeper.
- 1 Screech owl.
- 1 Hawk from South America.
- 1 Gray-cheeked thrush from Far Rockaway, L. I.
- 1 Bluebird in the flesh.

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

- 1 Sooty shearwater from Sanobel Island, Fla.

BAILEY, IRA, New York City.

- 3 Ruddy ducks, 1 black-billed cuckoo.

BARBOUR, DR. T., Cambridge, Mass.

- 1 *Ara tricolor*, 1 *Hymenolæmus malacorhynchus*.

BARRY, THOMAS, New York City.

- 1 Starling from New York City.

BARTELS, H., BIRD STORE, N. Y. City.

- 1 Parakeet from South America.

BAUDON, A., Ouessou, French Congo.

- 28 Bird skins from French Congo.

BAYER, DR. L., S.S. 'Zeeland.'

- 1 Leach's petrel, 1 white-rumped sandpiper.

BLESSING, F., New York City.

7 Mounted birds: *Asio otus*, *Alcedo atthis*, *Picus viridis*, *Pyrrhula pyrrhula*, *Oriolus oriolus*, *Pica pica*, *Garrulus glandarius*. Collected at Heilbronn, Württemberg, Germany.

BOULTON, RUDYERD, New York City.

1 Common tern, 1 black skimmer, 1 least tern, 1 seaside sparrow, from Virginia.

BOWDISH, B. S., Demarest, N. J.

1 Weaver bird in the flesh.

BOWEN, W. W., Khartoum, Sudan.

2 *Textor* in alcohol.

BRANDRETH, COURTENAY, Ossining, N. Y.

Skin of red-shouldered hawk from West Point.

BURKE, DR. EDGAR, New York City.

31 Eastern Hemisphere bird skins, mostly Charadriidæ; 2 skins of *Stercorarius pomarinus* from Skagen, Denmark.

CALDER, MRS. A. S., New York City.

1 Parakeet in the flesh.

CALDWELL, CAPT. KEITH, Kenya Colony, Africa.

Skins of 2 pipits (*Tmetothylacus*) from Kenya Colony.

CHAPMAN, DR. FRANK M., N. Y. City.

1 Seed snipe.

CONGDON, HERBERT W., N. Y. City.

Skin of Acadian owl. Collected on Staten Island, N. Y.

COWLES, R. B., Ithaca, N. Y.

58 Bird skins from Natal, South Africa.

CROSBY, M. S.

1 Alder flycatcher from Pine Plains, Dutchess Co., N. Y.

DAVENPORT, C. P. J., Cold Spring Harbor, N. Y.

1 Cooper's hawk in the flesh from Cold Spring Harbor.

DAVISON, J. L., Lockport, N. Y.

Collection of furcula of native birds from vicinity of Lockport.

DONALD, C. H., Punjab, India.

13 Skins of birds of prey from India, 1 *Circus*, 3 *Milvus*, 1 *Haliastur*, 1 *Spilornis*, 1 *Accipiter*, 4 *Aquila*, 2 *Falco*, from Punjab.

EARL, MISS MAUDE, New York City.

7 Mounted Anatidæ from North America, 1 Canada goose in the flesh from Gardiners Island, N. Y.

FRIEDLE, WM. A., New York City.

1 Grackle in the flesh from Englewood, N. J.

FROST, ALLEN, Poughkeepsie, N. Y.

1 Downy woodpecker in the flesh.

GEISLER, MAX, BIRD CO., N. Y. City.

2 Cuban parrots.

HAMBROCK, H. J., Toms River, N. J.

1 Great horned owl in the flesh from Toms River, N. J.

HARRIS, SAMUEL, New York City.

1 Grackle.

HOWELLS, N., Ameniam, N. Y.

1 Red-eyed vireo from Ameniam.

HOWLAND, R. H., Upper Montclair, N. J.

1 Red-tailed hawk from Troy Meadows, N. J.

HUNTINGTON, D. W., Yaphank, L. I.

1 Dovekie.

KERR, MISS HENRIETTA, New York City.

1 Canada warbler.

KINCAID, H. GORDON, Boonton, N. J. (through T. D. Carter).

1 Bittern from New Jersey.

LEE, MRS. RUTH HOWARD, Jersey City, N. J.

1 Auk's egg from Labrador.

LOBENSTINE, MRS. W. C., New York City.

2 Nests of Indian weaver-bird.

- MARIA, BROTHER NICEFORO, Bogota, Colombia.
 10 Bird skins from Bogota.
- MILLER, W. DEW., New York City.
 1 Common crow from Princeton, N. J.
- MORGAN, A. C., New York City.
 1 Great white heron from Tampa, Florida.
- NEW YORK ZOOLOGICAL SOCIETY, New York City.
 258 Pheasants. Collected by William Beebe.
 2 Pigeons, 1 Burmeister's caribbea, 1 maguari stork, 2 gallinules, 1 weaver, 2 glossy starlings, 1 boat-bill heron, 1 wood ibis, 1 parrot, 2 saltators, 1 green heron, 1 guan, 1 fruit pigeon, 1 black swan, 1 toucan, 3 parakeets, 1 rail, 1 jay-thrush, 1 trumpeter swan, 1 brush turkey, 1 Victoria crowned pigeon, 2 cranes, 1 quail, 1 European flamingo, 1 flightless cormorant, 1 hornbill, 1 bird of paradise, 1 starling, 1 tanager, 1 owl, 1 pheasant, 1 vulture, 1 booby, 1 eagle owl, 1 tinamou, 1 wood hoopoe, 1 pelican, 1 Kaka parrot, 1 gannet, 1 bald eagle, 1 blue-faced booby, 2 curassows, 1 least bittern.
- POTTER, R. B., New York City.
 1 Cooper's hawk from West Nyack, N. Y.
- ROGERS, CHAS. H., Princeton, N. J.
 3 Bird skins: 2 turnstones, 1 sanderling. Collected at Long Beach, N. Y.
- RUHE, LOUIS, New York City.
 1 Starling, 1 weaver, 1 ruff, 1 queen wydah, 1 honey creeper, 1 oriole, 1 glossy starling, 1 house finch, 5 Leclancher's bunting, 1 yellow cardinal.
- SANFORD, DR. L. C., New Haven, Conn.
 1 Shoveller from Manteo, N. C.
- 1 Xantus's murrelet from Guadalupe Is., Mexico.
 4 Ducks and 1 owl from Pea Island, Manteo, N. C.
- SHIPTON, STEWART, Concepcion de Tucuman, Argentina.
 3 Bird skins from Aconguija, Argentina.
- SMITH, MRS. H. W., New York City.
 1 Gull.
- SPINGARN, E., Ameniam, N. Y.
 1 Mourning dove from Ameniam.
- SPINGARN, E. AND W., Ameniam, N. Y.
 1 Red-tailed hawk from Ameniam.
- STICKNEY, MRS. A., New York City.
 2 Mounted specimens of prairie hen from St. Louis, Mo.
- THOMSON, VICTOR, New York City.
 1 Goldfinch, 3 downy woodpeckers, 1 creeper, 1 junco, 1 fox sparrow, 1 chickadee, 1 black-billed cuckoo, 2 blue jays, 1 red-winged blackbird, 1 bittern, 1 wood pewee, 1 scarlet tanager, 1 red-eyed vireo, 1 redstart, 1 tanager, 1 wood thrush, 1 veery, 1 Baltimore oriole, 1 ovenbird, 1 Maryland yellow-throat; 10 other birds.
- VAIL, DR. C. E., Miraj, India.
 1 Skin of bustard from India.
- VERNAY, ARTHUR S., New York City.
 601 Bird skins from Tenasserim and Siam; 72 from Burma.
 12 Bird skins from northwestern India.
- WAGNER, MISS H. C., Montauk, L. I.
 1 Myrtle warbler from Montauk.
- WALCOTT, F. C., New York City.
 2 Flamingoes from Laguna Colorado, Bolivia.
 12-inch lens with mountings to fit the Akeley camera of the Whitney South Sea Expedition.
- WANDLING, MISS GEORGIA R., New York City.
 1 Bluebird.

- WATSON, F. E., New York City.
 1 Tree sparrow from Englewood,
 N. J.
- WEBER, JAY A., Leonia, N. J.
 2 Song sparrows from Wreck Island,
 Va.
- WHEELER, W. C., New Canaan, Conn.
 1 Flicker from New Canaan.

- WILLIAMS, LAIDLAW, New York City,
 AND FRANK E. SMITH.
 1 Northern phalarope from Long
 Beach, N. Y.
- WILSON, CHARLES J., Singapore, S.S.
 Skins of 4 *Puffinus*, 2 *Sterna*, 2
Falco, 4 *Fringilla*, 2 *Sylvia*, 1
Serinus, 2 *Anthus*, 2 *Petronia*
 from Madeira.

BY EXCHANGE

- BUTLER, A. L., St. Léonard's Park,
 Horsham, England.
 2 Hummingbirds from Costa Rica.
 Collected by C. F. Underwood.
- MEINERTZHAGEN, COL. R., London,
 England.
 43 Bird skins from southern Arabia
 and Iraq.
- MUSEO NACIONAL DE HISTORIA NAT-
 URAL, Buenos Aires, Argentina.
 16 Bird skins.
- MUSEO SALESIANO, Punta Arenas,
 Chile.
 1 Mounted antarctic rail from Rio
 Grande, Tierra del Fuego.

- MUSEUM OF COMPARATIVE ZOOLOGY,
 Cambridge, Mass.
 9 Bird skins: *Marmaronetta*, *Elas-*
monetta, *Hapalarpactes*, *Hapalop-*
teron, *Oreocorys*, *Psaltria*, *Odon-*
topiza, *Hagiopsar*, *Rhinocorax*.
- PRINCETON MUSEUM, Princeton, N. J.
 2 Skins of cuckoos.
- REEDS, CARLOS, Mendoza, Chile.
 6 Bird skins from Chile.
- SUDAN GOVERNMENT MUSEUM, Khar-
 tout.
 53 Skins of African birds.

BY PURCHASE

- 157 Bird skins. Collected by Rev. R.
 Callewaert in the Belgian Congo.
- 103 Bird skins, Madagascar, from
 C. Lamberton.
- 276 Bird skins. Collected by A.
 Loveridge in East Africa.
- 13 Bird skins from Asia, from Dres-
 den Museum.

- 2 Skins of bush shrike, Madagascar.
- 6 Bird skins, England.
- 5 Miscellaneous bird skins, Old
 World.
- 83 Bird skins, New Zealand.
- 1,385 Bird skins collected by H.
 Watkins in Peru.
- 2,025 Bird skins from Ecuador.

THROUGH MUSEUM EXPEDITIONS

- 610 Bird skins collected by Ludlow
 Griscom in Panama.
- 210 Bird skins collected by Dr.
 Chapman in Chile and Argentina.
- MARSH-DARIEN EXPEDITION.
 64 Bird skins and 10 birds in alco-
 hol. Collected by C. M. Breder
 in Panama.

- THIRD ASIATIC EXPEDITION.
 537 Skins collected by Messrs.
 Andrews and Granger.
- WHITNEY SOUTH SEA EXPEDITION.
 63 Bird skins collected by R. H.
 Beck in Polynesia.
- 977 Bird skins collected by R. H.
 Beck and J. Correia in Polynesia.

MAMMALS

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

A love of nature and an interest in the facts of natural history seem to be inherent in all of us. Statements concerning the habits of mammals appear in the earliest writings, and long ages before the time of these writings the mammals themselves were pictured on cave walls by primitive man. From the era of cave paintings down to the present day, the life histories of mammals have all too often been recorded as a mixture of fact and fancy. And even to-day, in some cases, while it is easy to refute the fiction, it is not so easy to establish the fact in the popular mind.

The exhibits of mounted mammals are planned not only to please the eye by beauty of composition and fidelity to nature, but to instruct the public in the life history of that particular species, in so far as it may be known. Several phases in the life of the mammal may be shown by the proper selection of specimens,—male, female and young; the painted background and accessories give the home environment, and the printed label supplies such data as cannot be given by the group itself. The child who has had fleeting glimpses of chipmunk, gray squirrel, or cotton-tail rabbit in some of our undeveloped regions can come to the Museum and learn the more intimate details of the animals' existence from the habitat group. Or perhaps the student has read of some mammal of foreign or exotic clime, a musk-ox or an elephant-seal, and would like to see the mammals at home. Both animal and home have been transported to the Museum halls and await inspection. While the more elementary facts of mammal life are presented by the habitat groups and the individually mounted specimens, the advanced student or lover of mammals has not been forgotten. In the Synoptic Hall, the exhibits are planned to show the various types of mammals which have been developed, the different types of hairs and spines, the development of limb bones and other displays of great technical importance.

That these exhibits are recognized as important factors in the study of biology and the understanding of natural history, is shown by the figures on attendance. The possibilities are so

great, however, that they are almost limitless, and the visitor may spend many profitable hours without having exhausted the educational opportunities afforded by the mammal exhibits. It is one of the aims of this department to stimulate an interest in mammals and to educate while satisfying the normal curiosity.

The year 1924 has been characterized in the Department of Mammals by preparation for extensive exhibitions and by curtailment of activity in the field. Throughout most of the year the department has had no representative in the field, but there has been a noteworthy increase in the collections, chiefly through the generosity and energy of Mr. Arthur S. Vernay. The close of the year has brought the first evidence of a long-needed increase in storage space; the completion of the new wing not only gives new rooms there to this department, but by allowing the Department of Entomology to transfer material from the North Wing, sets free two long-awaited rooms.

The total number of accessions received during 1924 is 3,200, as follows: by expedition, 1,681; by gift, 494; by purchase, 1,017; by exchange, 8.

Accessions

The most important collections received are the splendid mammals from southern Asia, donated by Mr. Vernay; the final shipment of mammals collected by the Third Asiatic Expedition in 1923 but not received at the Museum until this year; 839 mammals from Ecuador collected by Mr. Tate; a splendid series of anthropoids from Africa, skins and skeletons, purchased from several sources; a group of Nilgiri tahr collected for the Museum and presented by Dr. C. E. Vail; a collection of 215 mammals from New York and New Jersey presented by Mr. George G. Goodwin, and nearly 100 specimens received from the New York Zoological Society.

Field work for 1924 was reduced to a minimum to secure the concentration of the Museum resources and energy upon exhibition. Early in the year the only parties in the field returned to the Museum, and for the remainder of 1924 this department had no regularly organized expedition in the field.

During 1924 the activities of the Third Asiatic Expedition were suspended and no accessions were received from that source except a small shipment of specimens which had been collected in 1923.

The most extensive field work undertaken to enrich the mammal collections was the expedition made by Mr. Arthur S. Vernay to Burma, Siam and Assam. This trip was eminently successful, and the department received 117 specimens, including many noteworthy specimens, such as the buffalo, tapir, and Sumatran rhinoceros.

The close of 1923 saw the Indian Expedition, led by Messrs. Vernay and Faunthorpe, successfully concluded, and Mr. Vernay turned his attention to the Burma-Siam region in order to fill out gaps in the exhibition series. A series of collecting sites was chosen and, due to the untiring energy of the leader of this expedition, a great amount of territory was covered in the first half of 1924.

In Tenasserim Mr. Vernay secured buffalo, in Burma the rare Sumatran rhinoceros, in Siam the desirable Malayan tapir, and in addition to these larger animals he collected series of the smaller species as far as his limited time allowed.

Specimens have already been selected from the large collections made in Indian and southern Asia for immediate mounting; the group of nilgai, now finished, and the groups of thamin, sloth-bear and sambur on which work has been begun, are part of the Vernay-Faunthorpe material.

Mr. G. H. Tate completed that part of the field work in Ecuador which was begun by him in 1923. At the close of 1923 he was about to attempt a cross-section through the "Oriente" of Ecuador, a region of heavy rainfall and consequent difficult transportation. This cross-section he carried out in the spring of 1924 and secured much valuable material from a number of collecting sites. Besides good series of the mammals, Mr. Tate collected a small series of representative plants and assembled data over a broader field than has generally been attempted in this region. He brought back to the department 553 mammals when he returned.

Mr. George G. Goodwin did local field work at different periods throughout the year, spending his vacation in this manner, and has generously donated his collection to the Museum—215 specimens.

Friends of the American Museum have liberally donated much valuable material to the Department of Mammals. Some of these gifts have already been described, and all are set forth in the detailed statement of accessions.

Gifts

Plans have been formulated for the exhibition of mammals upon a scale hitherto unattempted. Numerous conferences have been held in which all the different phases of the Exhibition problems have been considered. Actual installation of some of the groups completed under these plans awaits only floor space, and this becomes available with the occupation of the new wing.

Projects are under way which will eventually result in three magnificent halls of mounted mammals. These are exclusive of the proposed Hall of African Mammals in a wing yet to be built. The three halls mentioned will be the Hall of Asiatic Mammals, on the second floor of the wing just completed; the Hall of Boreal Mammals, in the east tower section, second floor, of the old building, and a reconstructed Allen Hall of North American Mammals. Small-scale models of the North American, Boreal, and Asiatic Halls have been made by the Department of Preparation to facilitate the planning and placing of groups.

The new Hall of Ocean Life will contain many mammal exhibits, since the mounted skeletons of the most important cetaceans will be suspended from the ceiling, and habitat groups of the seals will line the wall spaces. The cetacean material has been transported to this hall and laid out on the floor to be assembled and mounted, while one of the seal groups—the Steller's sea-lion—is nearly completed and ready to install. The groups of elephant-seal and of fur-seal have been mounted for some time and are available for the new hall.

During the year the following groups of mammals were completed or begun: The Nilgai Group, three specimens, male, female, and young, completed; Gorilla Group well under way; Sambur Group begun; Thamin Group begun; Sloth-bear Group started; Steller's Sea-lion Group, eleven animals, nearly finished; Lion Group begun.

The cataloguing of new collections, the carding of old material, the labeling of skins and skulls, the distributing of material in systematic order, and all the many processes which have to do with the up-keep of a growing study collection have gone on steadily throughout the year. The department assistants have handled many thousand specimens in this routine, since accessions number more than 3,000

specimens, and the sending and receiving of the Asiatic collections which are being identified by Dr. G. M. Allen involved a turnover of more than 3,000 specimens.

The growth of the study collection during 1924 has made more urgent than ever the need for additional storage space, and it is gratifying to realize that the completion of the new wing will directly and indirectly increase storage facilities for the Department of Mammals.

Card indices, of collections and of publications, have been added to, whenever occasion permitted, and the number of cards now in these several filing systems totals about 70,000.

During 1924 the American Museum borrowed specimens from the United States National Museum (32), the Museum of Comparative Zoölogy (17), and the British Museum (157); and loaned specimens to the United States Biological Survey (325), the Field Museum (5), and 3,757 specimens of the Asiatic expeditions were sent to Dr. G. M. Allen of the Museum of Comparative Zoology for identification.

The Acting Curator has been able to devote a fair part of his research time to the study of the mammals of Ecuador. The field work in Ecuador has reached the stage where important results may be based upon the accumulated material, and such a result is a synopsis of the rodent genus *Thomasomys*, which is almost ready for the press. This will be one of the first revisions of a South American mammal genus based upon comprehensive series of specimens; in the case of *Thomasomys*, we have upwards of 700 specimens from Ecuador alone, and the entire series of *Thomasomys* examined will approach 1,000 in number. While this is not a large number, when compared with the series of North American genera available for study, it is a considerable advance over what could have been gathered together five years ago.

In addition, Mr. Anthony has published several preliminary papers on Ecuador during 1924, describing new genera and species. The latter part of the year has been taken up by the completion of an extensive report upon the mammals of Porto Rico, to be published by the New York Academy of Sciences in their final report on the biological survey of Porto Rico. This report on the mammals will fill about 250 printed pages, with nearly 100 illustrations, and is nearly completed.

A development of Mr. Anthony's work upon the Ecuadorian mammals has been the offer of an exchange by the British Museum whereby the British Museum has sent to the American Museum practically its entire collection of Ecuadorian *Oryzomys*, *Melanomys* and *Akodon*, which will be compared with our series. A catalogue list of this material, loaned by the British Museum, will then be published by the American Museum in return for the use of the material.

Mr. Anthony prepared two short papers dealing with the find of a fossil human skull at Punin, Ecuador. This skull was discovered late in 1923, and the papers mentioned above are a joint production with Doctors Sullivan and Hellman. One of these papers was read at the Third Pan American Scientific Congress held at Lima, Peru, in December.

Associate Curator Lang has been occupied with the preparation of the Congo reports, not only writing on the parts which deal with mammals, but also concerning himself with the many other subjects covered by the reports. The mammal reports which have been completed during 1924 include the report on the Carnivora, by the late Dr. J. A. Allen, and "Observations on Colobus Fetuses," by Dr. A. H. Schultz. Progress on the other branches dealt with in the Congo Expedition will doubtless be reported upon by those departments concerned.

Dr. G. M. Allen, who began in 1923 the classification and description of the mammals collected by the Asiatic expeditions, has continued throughout 1924 to devote a large part of his time to this work. Dr. Allen has made very satisfactory progress during the year and has disposed of two very large groups of rodents, the microtines and the squirrels. A paper has been published dealing with the microtines, and Dr. Allen's report on the squirrels is now in press.

The publications of the year include: Three articles in *Novitates* and one in *Natural History*, by H. E. Anthony; two articles and nine notes in *Natural History*, three contributions in the *Journal of Mammalogy*, and one in the New York Zoological Society *Bulletin*, by Herbert Lang; one in *Novitates*, by Dr. G. M. Allen; one in the *Journal of Mammalogy*, by George G. Goodwin; a joint paper in *Novitates* by H. E. Anthony and G. G. Goodwin, and an article in the New York Zoological Society *Bulletin*, by Herbert Lang in collaboration with L. Bayer.

In April, Mr. Anthony and Mr. Lang attended the annual meeting of the American Society of Mammalogists at Cambridge, Mass., and each presented papers and took part in the symposium on the scientific and economic importance of predatory mammals. Mr. Lang at this time also devoted several days to studying the collections of African mammals in the Museum of Comparative Zoölogy.

In June, Mr. Anthony visited Washington to secure necessary collecting permits for the American Museum, and spent a short time looking up South American mammals at the United States National Museum and securing identifications of plants collected by his expedition to Ecuador.

In November, Mr. Anthony visited the Carnegie Museum in Pittsburgh to study the collection of South American mammals there.

In March, Mr. Anthony was elected an honorary member of the Sociedad Colombiana de Ciencias Naturales, of Bogotá, Colombia, and in May, Mr. Lang was elected an honorary member of the Cercle Zoologique Congolaise of Brussels, Belgium.

In the forepart of the year, Mr. T. D. Carter served as Secretary of the Linnaean Society.

During the year, Mr. Anthony acted as Secretary and Treasurer for the J. A. Allen Memorial Fund, sending out many hundred letters and solicitations for contributions. The Memorial Fund has reached considerable proportions and is now an assured success. The total assets of the Fund are \$7,468.42.

In December, Mr. Anthony attended the annual meeting of the American Game Protective Association as a delegate from the American Museum.

MAMMALOGY ACCESSIONS

BY GIFT

ALLGOOD, ROY, New York City (transferred from Department of Anthropology).	ANTHONY, A. W., San Diego, Calif. Piece of shed epidermis of Elephant Seal.
1 Pair of horns of hartebeest and 2 pairs of horns, with portion of skull attached, of gazelle. Collected in Southern Sudan.	BALDWIN, MRS. WM. M., New York City. 2 Jaguarondi skins and 2 sloth skins.

- BARTLETT, CAPT. ROBERT A., New York City.
1 Seal stomach from Bering Strait.
- BAUDON, A., Swanke, Karagoua, French Congo.
3 Monkeys, 1 mongoose, 1 caracal, 1 water mongoose, 1 golden mole, 1 poto, 11 squirrels, 6 rats, 2 lemurs, 1 bdeogale, 3 bats, 1 flying squirrel, 1 galago, 1 hyrax. Collected in the French Congo.
- BURGE, R. T., Los Angeles, Calif.
1 Juvenile Ceylon elephant.
- CALDWELL, CAPT. NEITE, Nairobi, Kenya Colony, East Africa.
1 Earth rat.
- DEPARTMENT OF PARKS, New York City.
1 Female elk, 2 black bear cubs, 1 lioness, 1 puma.
- COLE, H. G., Marietta, Georgia.
1 Muntjac from Fukien Province, China.
- COWLES, RAYMOND B., Ithaca, N. Y.
1 Genet from Natal, South Africa.
- CRUMP, GEORGE E.
1 Bison skull.
- DE GEER, BARON GERARD, Stockholm, Sweden.
Reindeer antlers from Spitzbergen.
- DEMILLE, JOHN B., New York City.
1 White-footed mouse, 1 red-backed vole, 1 woodland jumping mouse, 1 meadow mouse, from Gaspé, Canada.
- DWIGHT, DR. J., New York City.
1 Small opossum from Costa Rica. Collected by A. P. Smith.
- ENGE, JULIAN, San Lorenzo, Sanchez, D. R.
1 Solenodon in alcohol.
- FLICK, C. H., Seattle, Washington.
1 American hare from Seattle.
- FOWLER, S. H. B., Bronxville, N. Y.
1 Irish wolfhound.
- FRICK, CHILDS, New York City.
106 Small mammal skins and skulls from Gaspé, P. Q., Canada.
- GOODWIN, GEORGE G., New York City.
3 Specimens of cottontails from Hackettstown, N. J.; 1 Gray squirrel from Orange, N. J.
- GRISCOM, LUDLOW, New York City.
1 Bat in alcohol from Panama.
- IRVIN & JOHNSON, LTD., South Africa.
1 Embryo blue whale from South Africa.
- JOSEPH, ELLIS S., New York City.
3 Sable antelopes, 1 water buck, 2 drills, 1 fishing cat, 1 African civet, 1 fennec fox, 1 aard-vark, 2 gelada baboons, 1 harnessed squirrel.
- KLEIN, ALFRED, Tappan, N. Y.
Skins of 2 chimpanzees, 1 cheeta, and 80 small mammals including 8 genets, 50 mongooses, 2 otters, 3 small cats, 5 bdeogales, 4 squirrels, 3 hyraxes, 1 aard-wolf and 4 monkeys. Collected in East Africa.
- MAINLAND, MISS LOUISE, New York City.
Skull of house rat.
- MALLINCKRODT, EDWARD, JR., St. Louis, Mo.
Skin and skull of 1 hyæna, scalp and skull of 1 eland, skull of 1 black rhinoceros.
- NELSON, MRS., Brooklyn, N. Y.
1 Flying squirrel.
- NEW YORK ZOOLOGICAL SOCIETY, New York City.
1 Euro kangaroo, 1 red monkey, 1 aard-vark, 1 hog deer, 1 hyrax, 1 mona monkey, 1 tailed agouti, 2 porcupines, 1 spider monkey, 2 sapajous, 9 South American squirrels, 2 genets, 2 sealions, 1 coyote, 1 moustache monkey, 1

- chimpanzee, 1 green monkey, 1 squirrel monkey, 2 South American tree porcupines, 1 coati, 1 drill, 3 giant African rats, 1 saki monkey, 1 fox squirrel, 2 tayra cats, 1 malabar squirrel, 2 armadillos, 1 rhesus monkey, 1 red-faced saki, 1 white-nosed coati-mundi, 2 hedgehogs, 1 kangaroo, 1 woodchuck, 3 raccoons, 1 fur seal, 1 wallaby, 3 marmosets, 2 martens, 2 spot-nosed monkeys, 3 cebus monkeys, 3 kinkajous, 1 spotted cavy, 1 phalanger, 1 black-backed jackal, 1 red fox, 1 monkey, 2 squirrels, 1 African bush pig, 1 yellow-haired porcupine, 1 Andean black bear, 1 porcupine, 1 ring-tailed sapajou, 1 South American fox, 1 bison calf, 1 prevost squirrel, 1 albino raccoon, 1 opossum, 1 Mexican gray fox, 1 South American dog fox, 4 African monkeys, 1 agouti, 1 zebra, 1 mongoose, 1 skunk, 1 Canada lynx, 1 ocelot, 1 nandina, 1 black squirrel, 1 water mongoose, 1 lemur, 1 European squirrel, 1 badger, 3 ring-tailed cats, 1 tree shrew, 1 spotted skunk, 1 puma cub.
- NORDEN, HERMAN, New York City.
Skulls of 1 hippopotamus, 1 duiker, 1 antelope and 2 pigs, from Belgian Congo.
- REYNOLDS, MRS. MARTHA S., New York City.
1 Pedigree bulldog.
- RINGLING BROTHERS, Barnum and Bailey Circus, New York City.
1 Drill and 1 baboon.
- SODERSTROM, LUDOVIC, Quito, Ecuador.
2 Bats and 5 small rodents from Ecuador.
- STONE, MRS. J. B., New York City.
Tusks of Pacific walrus.
- ULLMANN, JOSEPH, New York City.
1 Siberian marten from Mongolia.
- VAIL, DR. C. E., Miraj, S. M. C. India.
4 Tahr, 1 wildcat, 1 monkey from Kodai Kanal, India.
- VERNAY, A. S., New York City.
2 Rhinoceroses, 2 Indian buffaloes, 50 small mammals. Collected in Burma and Assam.
2 Sambar deer, 1 tapir, 1 banteng, 24 monkeys, 4 civets, 46 squirrels, 25 rats, 3 shrews, 2 bats, 2 markhor, 3 ibex, 2 sheep, 2 foxes, 2 marmots, 1 cat, 3 flying squirrels, 1 weasel, 2 ochotona, 6 small rodents, 1 boar, 1 porcupine; mostly from Siam.
1 Tahr and 1 muntjac from India. Collected by A. P. Kinloch.
- WALCOTT, F. C., New York City.
2 Viscacha skins from Bolivia.
- WATSON, MRS. HENRY J., New York City.
1 Specimen of mounted horns of kudu, 1 of mounted horns of chamois, 1 of mounted head of white-tailed deer, 2 of mounted heads of sheep.
- WHITE, HAROLD A., Scarsdale, N. Y.
2 Mounted heads of gaur, 1 mounted head and 1 mounted horns of banteng, from Indo-China.
- WIEGAN, IRVING, New York City, and BENJAMIN HOFFMAN.
Head and horns of white-tailed Virginia deer.
- YERKES, ROBERT M., New Haven, Conn.
1 Chimpanzee.



DEPARTMENT OF MAMMALOGY

THE NILGAI GROUP

A large species of Indian antelope. Collected by the Faunthorpe-Vernay Expedition

BY EXCHANGE

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| COLORADO MUSEUM OF NATURAL HISTORY, Denver, Col. | MARIA, BROTHER NICEFORO, Bogotá, Colombia. |
| 6 Specimens of prairie dogs from Colorado. | 15 Mammal skins and skulls from Colombia. |

BY PURCHASE

- | | |
|--|---|
| 24 Small mammals from Peru. Collected by G. Tessman. | 3 Gorillas, skins and skeletons; skins and skulls of 3 chimpanzees, skin of 1 caracal, skin of 1 otter, skulls of 2 leopards. Collected by F. M. Grissett in Cameroon, West Africa. |
| 76 Small mammals. Collected in Mexico by W. W. Brown. | 1 Three-toed echidna from New Guinea. |
| Collection of 86 small mammals. Collected by A. W. Anthony in Guatemala. | Skins, skulls and legbones of 8 monkeys. Collected by A. Narayanan Nair in Travancore, British India. |
| 2 Muntjacs, 1 civet, 4 red foxes, 1 <i>Helictis</i> , 1 mongoose, 2 raccoon dogs, 4 genets, 1 paradoxure. Collected in China by H. R. Caldwell. | 420 Mammal skins and skulls from Ecuador. |
| Skins and skulls of 3 Chiroptera, 4 primates, 3 Carnivora, 30 Insectivora, 166 Rodentia, 6 golden moles, 2 protomogales, 1 manis, 2 monkeys, 3 genets, 1 serval, 1 wild cat, 1 jackal, 2 squirrels, 1 rat, 2 bats. Collected by Rev. R. Callewaert at Luluabourg, Belgian Congo. | 16 Small mammals from South America. |
| 1 Albino red squirrel. | 1 Woodchuck from Seward, N. Y. |
| | Skins and skulls of 15 mammals, collection of 40 mammals. Collected by H. Watkins in Peru. |
| | 2 Bats from Georgia. |

THROUGH MUSEUM EXPEDITIONS

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| 5 Steller sea-lions, 4 casts of sea-lion flippers and head, necessary bones for mounting. Collected by C. J. Albrecht at La Push, Washington. | R. C. Murphy in South Georgia. |
| Skull of 1 shrew. Collected by Barnum Brown at Burma, India. | 839 Mammal skins and skulls, 40 papers of plants. Collected by G. H. H. Tate in Ecuador. |
| 1 Pudu, 1 puma, 1 small cat, 1 coypu rat, 1 Chilean fox. Collected in Chile. | THIRD ASIATIC EXPEDITION. |
| 2 Hares and 2 small rodents, from Fisher's Island, N. Y.; 162 mammals from eastern New York; 45 mammals from New Jersey. Collected by G. G. Goodwin. | Skins and skulls of 193 rodents, 3 Lagomorpha, 2 Insectivora, 20 Chiroptera, 18 Carnivora, 16 Artiodactyla, 2 Perissodactyla. Collected in China and Mongolia. |
| 1 Sea elephant skull. Collected by | MARSH-DARIEN EXPEDITION. |
| | 31 Small mammals from Panama. Collected by C. M. Breder. |
| | WHITNEY SOUTH SEA EXPEDITION. |
| | 26 Bats, 6 rats in formalin, 4 rodents. Collected by R. H. Beck in South Sea Islands. |

COMPARATIVE ANATOMY

WILLIAM K. GREGORY, Curator

The following exhibits have been completed or installed during the past year:

Exhibits 1. "Family Tree of Man." Installed in the Hall of the Age of Man. This exhibit includes a series of sixteen models of skulls prepared by members of this department in coöperation with the Department of Preparation; it represents the various forms of extinct and recent races of men and of anthropoid primates, arranged on a large model of a tree in accordance with their family relationships. Six of the original models of skulls were prepared by Prof. J. H. McGregor with the assistance of Miss Roigneau; the remaining ten were prepared by Mr. Otto Falkenbach under the direction of the curator. The model of the tree and the background were prepared by Messrs. Jansson and Hope, under the direction of Assistant Director Clark and the curator. This exhibit is the product of many years of research by members of the Museum staff and their colleagues in this country and abroad. It is, of course, not a final or complete visualization of the genealogical relationships of man, but it rests upon a broad, constructive, conservative interpretation of many thousands of recorded facts in the fields of comparative and human anatomy, palæontology and other branches of science. The spirit of the exhibit is expressed in the following excerpt from the master label:

"As yet we know but little of the direct fossil ancestors of man, but the fossils represented by stages 1, 2, 3, 4, 5, 6, 7, of this 'Family Tree' are important milestones along the immensely long road of man's evolution." Five complete copies of the exhibit have been made for sale to other educational institutions, and of these, four have already been sold.

2. "Comparative Anatomy of Man and Anthropoids." Installed in the Hall of the Age of Man. This exhibit was also prepared by members and associates of this department in coöperation with the Department of Preparation. It shows a series of casts of the brain cavity of anthropoids and of extinct and recent men, as well as half sections of the skulls and half sections of the lower jaws. It brings out very clearly the fundamental unity

in structural type that runs throughout the series of higher primates, including man.

3. "Why Man Walks Upright." This series of nine mounted skeletons represents as many successive stages in structural evolution, progressing upward from the first animals that crawled on land. The general idea of the exhibit is thus expressed in the master label:

"Man is able to walk upright because his remote ancestors for countless ages past have slowly gained the ability first to swim as fish, next to crawl on land, next to run, then to climb and to live in trees, then to come down on the ground and, lastly, to balance the body completely on the hind legs." This exhibit is temporarily installed in the Hall of the Age of Man, and, like the others, is the product of long and painstaking researches by members of the staff and their colleagues in other institutions.

4. "Evolution of the Human Face." A series of nine models of successive stages, tracing the structural history of the cranium and bony face from the oldest four-footed reptiles up to man. The bones of the skull are colored in such a way that the history of each bone may be followed throughout the series, based chiefly on the curator's publications, which set forth the detailed evidence. During the year one set was installed in the Department of Anthropology and another set in the "Introduction to the Study of Mammals." One set was presented to the Department of Zoology, Columbia University, in recognition of Professor J. H. McGregor's invaluable services to the Museum. Another set was presented to the University of Chicago in exchange for a series of models of the musculature of the limbs from the most primitive reptiles to man; this last series was planned by Professor Romer when he was a member of this department. A fifth set of the skull models was sold to the Department of Biology, College of the City of New York.

5. "The Tree of Animal Life and its Chief Branches." This nearly completed exhibit is being prepared under the direction of the Department of Invertebrate Zoölogy, but the arrangement of the vertebrates and the preparation of new restorations of extinct vertebrates by Doctor Childs have been under the direction of the curator of this department. This large and imposing exhibit should be very useful to all those who desire a general view of the relationships of the chief divisions of the animal kingdom.

6. Model of *Moschops*. *Moschops capensis* is the name of a large extinct reptile, whose fossil skeleton was found in the Permian rocks of South Africa. The fossil bones were sent to the Museum by Dr. Robert Broom, well known for his services to science and to this museum, and after some years the skeleton was prepared and set up in the Department of Vertebrate Palæontology and placed on exhibition. The bones have been described in a preliminary paper by Doctor Broom and in a fuller report by Doctor Gregory, who supervised the work of mounting the skeleton. Mrs. E. Rungius Fulda has recently completed a very successful model of the animal, showing its possible appearance in life; also a landscape restoration, showing two of the animals feeding. This restoration is based not only upon the artist's knowledge of living reptiles, as applied to the mounted fossil skeleton of *Moschops*, but also upon the comparative studies of the skeleton and musculature of other recent and extinct reptiles by several members and associates of this department.

Plans have been completed and progress has been made on the following exhibits:

1. "Comparative Anatomy of the Human Teeth." An exhibit showing successive stages from the earliest forms of mammalian teeth up to the human stage; by Miss Roigneau, under the direction of the curator.

2. "Comparative Anatomy of the Human Foot" (skeleton); by Miss Roigneau, under the direction of Doctor Morton.

3. "Comparative Anatomy of the Human Arm, Leg and Foot" (musculature). The original models for this series by Prof. A. S. Romer are in progress. He has already sent us the model of the fore and hind limbs of *Dimetrodon*, a primitive Permian reptile. These were cast by Mr. Otto Falkenbach and colored by Miss Roigneau.

4. "Comparative Anatomy of the Human Brain." Four enlargements of sections of the brain stem, showing progressive development of certain important centers, in lemur, macaque monkey, gorilla and man, were presented by Prof. Frederick Tilney. These will be exhibited with preserved whole brains of the same forms.

5. "Evolution of the Kangaroos in Adaptation to Different Life Habits." A model of the extinct giant kangaroo (*Palorchestes*) has been completed by Miss Roigneau, under the direction of Mr. Raven. The skulls of the recent kangaroos are ready for this series. A similar series of the feet of kangaroos will follow.

6. "Kangaroo Group." A part of the central hall on the second floor has been assigned for the future Australian exhibit, and plans and material for this are ready; but the work on the kangaroo group had to be stopped, owing to pressure of other work in preparation for the opening of the exhibition halls in the new building.

7. "Pictorial History of Life on the Earth." In coöperation with the Department of Vertebrate Palæontology, plans have been prepared for a series of large mural paintings to be placed on the walls along the main stairway from the first to the fifth floors. Each stairway and landing place will be devoted to the life of one typical geological horizon, ranging from the oldest to the most recent. Much time and effort have been devoted to this future exhibit, and Mrs. E. Rungius Fulda has made for it a series of 17 colored sketches, under the direction of the curator. The execution of this project, if approved by the Trustees, will involve a large expenditure over several years; but all who have seen the preliminary sketches believe that such an exhibit would have a very high educational value.

8. The exhibit of skulls, casts and models of prehistoric races of man has been thoroughly revised and rearranged and considerably extended during the past year, chiefly by Mrs. Fink, under the direction of the curator. Many new labels have been prepared and installed. An accession of capital importance is the beautiful series of casts of the original *Pithecanthropus* remains, presented by the discoverer, Professor Eugen Dubois, together with his recent memoir and other papers on these famous specimens.

Professor McGregor very kindly lent for exhibition his copy of the Rhodesian skull, pending the arrival of the Museum's copy, which has been presented by the British Museum (Natural History).

In general it may be stated that progress in preparing exhibits in this department is distressingly slow, owing to the fact that there is only one technical assistant, a considerable part of whose

time is necessarily devoted to other work. The Department of Preparation has given splendid coöperation, but it has the whole Museum to care for, and, with the great demand made upon it in connection with the opening of the new buildings, it cannot do more at present. If "Australia" and "Comparative Anatomy" are to be adequately represented within a reasonable time, much more technical assistance to this department is requisite.

The department has made efforts to build up the study collection of injected specimens of vertebrates, especially mammals.

Study Collections In addition to the large series of mammals brought home from Australia, Mr. Raven has injected and embalmed many animals received from the New York Zoological Park and from Mr. Ellis S. Joseph. This anatomical collection is being used in teaching and research work. During the year, over 250 animals were received from the New York Zoological Park and distributed mostly to various departments of the Museum.

To the study collection of casts of skulls and other parts of the skeletons of extinct races of man and anthropoid apes, 32 specimens have been added. In filling requests from other museums and educational institutions, many casts have been prepared by the Department of Preparation and many have been colored by Miss Roigneau.

The new laboratory of the department has been equipped according to plans prepared by Mr. Raven. Plans for the equipment of the new offices of the department were prepared by Mrs. Fink.

The most important purchase of the year was a series of 9 gorilla skulls and jaws, which constitutes a significant addition to the anthropoid material already in the Museum. This series has been much used in the research by Doctors Gregory and Hellman on the dentition of anthropoids and man.

Professor J. H. McGregor has continued to present copies of his excellent models and restorations of anthropoids and of extinct human races, especially a series of busts and half heads of orang, chimpanzee and gorilla. He has also rendered constant assistance in supplying requests for his restorations from other museums.

By coöperation with the Department of Mammalogy there have been shipped to Australia three lots of specimens, each including a selected series of skins and skulls of representative North American mammals, in exchange for specimens received from the Australian Museum at Sydney, the Queensland Museum at Brisbane, from Prof. F. Wood Jones of the University of Adelaide, and from Prof. T. T. Flynn of the University of Tasmania.

As noted below, arrangements have been made with the United States National Museum for complete coöperation in the exchange of marsupial mammals.

The Curator has published the following papers: "On Design in Nature," *Yale Review*, XIII, No. 2; "Australia, the Land of Living Fossils," *Natural History*, XXIV, No. 1; **Researches and Publications** "A Review of the Evolution of Man: A Series of Lectures by Professor R. S. Lull and others" (The Sigma Xi Lectures), *Yale Review*, XIII, No. 3; "A Review of 'Pearls and Savages,' by Captain Frank Hurley," *Natural History*, XXIV, No. 5; "A Review of 'Man and Culture' by Clark Wissler," *Yale Review*, XIV, No. 1; "A Fossil Ganoid Fish (*Lepidotus* (?) *lacotanus*, new species) from the Lower Cretaceous of South Dakota," *American Museum Novitates*, No. 134.

The Curator has also completed "Three Incomplete Anthropoid Jaws from the Siwaliks, India" (with Barnum Brown and Milo Hellman), *American Museum Novitates*, No. 130, and "The Origin of the Mammalian Alisphenoid Bone" (with G. K. Noble), *Journal of Morphology and Physiology*, XXXIX, No. 2.

The curator has completed the editing and proof-reading of Williston's "Osteology of the Reptiles," which will be published by the Harvard University Press early in 1925; in collaboration with Dr. Mook he has completed an article on the primitive Mongolian dinosaur, *Protoceratops*; his memoir on "The Skeleton of *Moschops capensis* Broom: a Dinocephalian Reptile from the Permian of South Africa," has been accepted for publication. An article by Mr. Raven entitled "Glimpses of Mammalian Life in Australia and Tasmania" was published in *Natural History*, XXIX, No. 4.

The principal investigations in progress by the Curator are:

"The Dentition of *Dryopithecus* and the Origin of Man," in collaboration with Dr. Milo Hellman, text and illustrations very nearly complete.

"The Osteology of *Protoceratops*," in collaboration with Dr. C. C. Mook, text and illustrations in progress.

"Studies on the Locomotor Apparatus of Fishes."

A revised and extended edition of Professor Osborn's "Guide to the Hall of the Age of Man" was prepared with the assistance of Mrs. Fink. Manuscript ready for publication.

Mr. H. C. Raven has in preparation a paper, "On the classification, adaptive radiation and phylogeny of the Macropodidæ or Kangaroos." After completing his studies on numerous species and subspecies of kangaroos which he collected in Australia for this Museum, Mr. Raven accepted the generous offer of the Curator of Mammals at the United States National Museum and spent two weeks in Washington, identifying their materials, combining the results with his previous observations, and arranging for an exchange of kangaroo skins and skulls, so that both museums will have representatives of nearly all known species of this large and interesting family.

Dr. Dudley J. Morton continued his researches on the structure and evolution of the foot in anthropoids and man, publishing articles on this subject in several journals.

Professor Motohashi has completed his studies and manuscript on the craniometry of the species of Asiatic wild asses.

Mr. Horace Elmer Wood, 2d, is preparing the first of a series of papers on recent and fossil rhinoceroses.

Mr. Herbert Ruckes has in progress a study of the anatomy and adaptive radiation of recent and fossil tortoises.

No field work has been conducted by the department this year, but arrangements have been made for the curator to accept an invitation to accompany the New York Zoological Society Expedition to the Sargasso Sea. While on board the "Arcturus" he will continue his studies on the locomotor apparatus of fishes and will endeavor to secure and select material suitable for exhibition in the Hall of Fishes and Hall of Ocean Life.

Professors Osborn, McGregor, Tilney, Gregory, Hellman and Morton took part in the Symposium of the New York Academy of Sciences on the Origin of Man. Doctors Gregory and Hellman also presented a summary of their studies on the dentition of *Dryopithecus* and the Origin of Man before the British Association meeting at Toronto. Doctors Gregory and Mook presented a paper on *Protoceratops* before the Geological Society at Ithaca.

Dr. Gregory continued to serve as Secretary of the Galton Society and took part in the preparation of the Society's project for the establishment of a five-year field study of the Australian aborigines from the medical, biological and anthropological viewpoints. This plan, in its essentials, was brought to the attention of the Australian anthropologists and government officials by Prof. G. Elliot Smith, and important steps have been taken toward its partial realization. Dr. Gregory also gave a course of six lectures at the Angle School of Orthodontia, addressed the Laboratory staff of the Long Island Biological Association at Cold Spring Harbor, and lectured at the Hudson River School of Hastings.

Mr. Chubb has given eleven lectures at various societies, schools and clubs.

Mr. Raven addressed the Linnæan Society on "Australian Marsupials and their Environment." He also took part in the New York Academy of Sciences Symposium on "The Significance of Animal Sounds."

Mr. Chubb, in coöperation with Honorary Director Lucas, is relabeling the specimens in the Hall of Horses, and a new arrangement is being planned in anticipation of important additions to the collection of mounted specimens in this hall. The skeleton of the world's champion trotting stallion "Lee Axworthy," which has been in preparation for several years, will be placed on exhibition early in 1925. It is mounted in trotting action, the pose being the result of many years' study and many hundreds of photographs of trotting horses taken by Mr. Chubb.

Two skeletons of the Celtic Horse, considered by Professor Osborn to be a reversion to the primitive type, are being prepared and will make valuable additions to the study collection of Equidæ.

The skeleton of the remarkable 53-year-old horse "Clover," which was presented to the Museum by the owner, has been prepared for the study collection. The skull will probably be placed on exhibition.

Two hundred fourteen prints have been added to the albums, which now consist of 1,000 photographs, include all types of wild and domestic Equidæ and show every phase in the stride of racing, trotting and work horses.

A new gallery has been built in the tower laboratory, which will treble the capacity for the study collections, and other facilities for the more rapid preparation of specimens are being added.

COMPARATIVE ANATOMY ACCESSIONS

BY GIFT

DEPARTMENT OF PARKS, New York City.

Sea-lion in the flesh from California.

1 Black bear from North America.

EWART, PROF. J. COSSAR, Edinburgh, Scotland.

"Celtic pony" from Edinburgh.

FRICK, CHILDS, Roslyn, L. I.

Foot of colt 5 months old from Roslyn.

JOSEPH, ELLIS S., New York City.

Gelada baboon, 2 aard-varks, 1 bear (transferred from Department of Mammalogy), 1 young camel, 1 Borneo orang, 2 baboons.

LEGENDIE, C. F., New York City.

Four 8×10 photographs.

MAMMALOGY, DEPARTMENT OF (transfer).

3 Mongooses, 1 gorilla, 1 bandicoot, 1 vulpine phalanger, 1 manis, 1 flying squirrel.

MCGREGOR, PROF. J. H., New York City.

1 Gorilla, cast of bust, from Africa.
Pan, cast of right half of skull, cast of bust with half skull, cast of bust, from Belgian Congo.

MYERS, REV. DR. URIAH, Catawissa, Pa.

Remains of horse 50 years old, "Clover," from Catawissa, Pa.

NEW YORK ZOOLOGICAL SOCIETY, New York City.

1 ring-tailed sapajou, 1 bush cat from South Africa, 1 hamadryas baboon, 2 coati-mundis, 1 paca (transferred from Department of Mammalogy), 1 blue-tongued lizard and 1 diamond python from Australia (transferred from Department of Herpetology), 1 Marmoset from South America, 1 woodchuck from New York State, 1 orang-outan from Borneo, 1 common marmoset from South America, 1 black swamp wallaby from Australia, 1 mandril, 1 skunk, 1 tree shrew, 1 vizcachia.

BY PURCHASE

9 Gorilla skulls and jaws, 1 chimpanzee skull, from French Congo.
1 Chimpanzee skull.

EXISTING AND EXTINCT RACES OF MEN

CLARK WISSLER, Curator-in-Chief

The exhibits in the Museum, under the head "Existing and Extinct Races of Men," have been ordered upon the assumption that the objective facts of primitive tribal life are worth while. The civilization under which we live is so complex and diversified as to be almost past understanding, but this civilization grew out of simpler modes of tribal life, phases of which are to be seen in the ethnographic exhibits, and it is in such examples of primitive life that the basic factors in modern civilization stand out in clear relief. Hence, our exhibits are planned to show how primitive men ordered their daily affairs, what inventions they made to improve their condition, how they adapted themselves to their surroundings, as the forest, the plain, the desert, the jungle. More space is given to the Indian tribes of the United States and Canada, because they belong to our home land, lived here before us, and because the history of our forefathers is inextricably bound up in that of the Indian. Moreover, the ways of the Indian pertain to the out-of-doors in our country, and a knowledge of his ways is one essential to the full enjoyment of the forest, the lake, and the plain. Again, the grouping of tribal exhibits in geographical order reflects the influence of the environment upon tribal life, one of the fundamental facts in geography. However, there are other aspects of the human problem, equally important to modern life; for example, one should know that imperishable materials, stone implements, pottery, charcoal, etc., not only enable us to trace man backward to the simplest possible beginnings, but reveal the order in which the most important inventions were made, thus giving in outline the evolution of society. The presentation of these abstract relations is more difficult than the concrete exposition of tribal life, but the successive steps in the development of civilizations may be followed in the arrangement of the Museum's prehistoric collections from Europe and America. It is also important to know the various racial types of man and the anatomical characters by which they are distinguished.

The foregoing statements enumerate the main objectives in selecting materials for the exhibition halls and the ideas under-

lying their arrangement. These objectives and ideas also govern, in large measure, the acquisition of new collections and the planning of explorations. It is, therefore, pertinent to report first upon new collections.

The distinctive accession for the year was the von Luschan Anatomical Collection, acquired mainly through the generosity of Mr. Felix M. Warburg. This collection comprises a series of several thousand crania, a large number of complete skeletons, and an unusually rich collection of comparative specimens, mostly lower primates. The human material covers all the important types of peoples in the world, including Tasmanians and a few other extinct groups. Finally, mention should be made of Professor von Luschan's special library on racial anatomy, which, in its entirety, came with the collection. As soon as this new collection can be classified and properly placed, the department laboratories will offer unusual facilities for investigations in racial anatomy. Each year has revealed an increasing interest in and use of our anatomical collections by students of medicine and related subjects, the leaders in these divisions of research realizing more and more the need of an intimate acquaintance with the variations in racial groups; hence, the bringing of this comprehensive collection to the Museum will at least double the facilities for such study. Finally, steps have been taken to reconsider the biological classification of man and to trace in distribution throughout the world's population the most distinctive anatomical characters, a study to which the collections now in the Museum are especially pertinent. Reverting again to the character of this new collection, it is important to note that Professor Felix von Luschan was a great authority in anthropology and that this collection represents his life work more than anything else can. He was especially interested in heredity, and it is, therefore, not strange that we find in the collection great numbers of crania from single communities, covering several generations.

Minor additions were made to our anatomical collections by purchase and gift, the most acceptable being a small series of Bushman skeletons. Among the archæological and ethnological accessions, worthy of special note, is a collection from the Eskimo of East Greenland, made by Christian Leden; a series of prehistoric flints from East Anglia, England, made by J. Reid Moir,

and an important collection of palæolithic and neolithic chipped implements from Prof. Henri Breuil; a number of palæolithic objects from South Africa from the Rev. Neville Jones; a small but especially interesting series of pottery vessels from Chile, from C. H. Eggers; and finally, an important archæological collection, representing eastern United States, together with old and rare ethnological specimens from our western Indian tribes, presented by Col. J. M. Andrews. In all, there were gifts from seventy-four donors, a full list of which is given elsewhere; but we wish to call attention to the sustaining interest thus manifested and to assure our patrons that it was in this manner that the general collections of the Museum were gradually brought to their present state of completeness, and by their continued support will become more and more comprehensive.

In February, Dr. J. Alden Mason, Assistant Curator of Mexican and South American Archæology in the Field Museum of Natural History, Chicago, was appointed Assistant Curator of Mexican Archæology in this department, taking up his duties here May first. Doctor Mason is a graduate of the University of Pennsylvania, receiving his Ph.D. degree from the University of California in 1911. For more than six years he was engaged in field-work in Mexico and adjacent parts of the United States, his appointment at the field Museum dating from 1917. While with the Field Museum, he carried on archæological exploration in South America. Doctor Mason comes to us with unusual qualifications, in every way a fortunate addition to our staff.

The outstanding achievement in exhibition work was the completion and formal opening of the Navajo Indian Group. As originally planned, the hall for our Southwestern Indian tribes, **Exhibition** living and prehistoric, provided three spacious alcoves, extending into the court, one large one, flanked on each side by a smaller, in which were to be constructed habitat groups. The smaller units were constructed first, beginning with that for the Hopi Indians, followed by that for the Apache, completed in 1917. Work was then begun upon the large group for the center. The spot selected for reproduction is in Cañon de Chelly, Arizona, where the cañon walls of red sandstone rise to a height of 800 feet. This cañon has been the home of the Indian since early prehistoric

days, and in niches and holes eroded out of the rock walls, are ruined cliff dwellings, one of the most famous of which, the White House, is represented in the panoramic background to the group. The group itself presents a cross-section of Navajo life, ordinary daily routine, such as preparing food, tending the sheep, etc., and in addition a ceremony for adolescent boys. The giving of this ritual begins in a hogan, of which the group offers both an internal and an external view, the mystic sand painting in one, the symbolic flagellation of the initiate in the other. The composition and modeling of the group are the work of Messrs. Howard McCormick and Mahonri Young.

Another unit added to our exhibition series is an accurate model, executed by Mr. Howard McCormick, of the famous pueblo ruin at Aztec, New Mexico, as it stands today, after the excavation and restoration work carried on there for the past ten years. Mr. McCormick spared neither time nor effort to produce in this model an accurate copy of the original, even to wall detail. It is therefore not only a record of the present condition of this important ruin, but also an exhibit of the architectural characters of the prehistoric period in which the structure falls. A portion of the ruin remains undisturbed, so that the model not only presents the ruin as when excavated, but also its appearance before the department began the exploration of the site. It was in this ruin that the unique painted room was found, noted in the report for 1920. The importance of this model lies not so much in its accuracy and artistic excellence as in the fact that it represents the most comprehensive archaeological project yet undertaken by the department. As stated in previous reports, these explorations were financed by Mr. Archer M. Huntington.

The Jesup Hall for the aboriginal tribes of the North Pacific Coast of America is almost complete. At the outset, a series of mural panels was contemplated to fill the spaces between the windows of the side walls and to cover the end walls over each entrance. The commission for these murals was given to Mr. Will S. Taylor. To date, all the canvases have been painted save one of the large end panels, which, however, is nearing completion. The subjects for these compositions have been so chosen as to give in their entirety a picture of Indian life in the part of the country from which the exhibits came. The landscapes are copies of

selected sites near the habitats of the respective Indians represented, thus giving the visitor a feeling for the natural setting in which these Indians lived. It will be observed that the exhibition accessories in this hall are somewhat in contrast to those in the Hall for the Southwestern United States, where groups were used with modeled foreground and painted background, whereas in the Jesup Hall, all is painted on the canvas.

Minor but important changes have been made in the sectional exhibits for other halls, particularly those for Central America, Palæolithic and Neolithic Europe, and Southwestern United States. In the laboratories of the department, work has progressed on the racial type exhibit, for which a series of busts has been modeled by the Department of Preparation, under the direction of Mr. James L. Clark. The latter also provided new life-sized figures for the Micmac and Iroquois Groups in the Eastern Woodland Hall, and miniature figures for the Sun Dance and Hidatsa House models in the Plains Indian Hall.

Four collecting and exploring expeditions were out during the year: the Fourth Bernheimer Expedition to northern Arizona; the second visit to Cañon del Muerto; a survey of Indian racial types in western United States; and a return visit to the Navajo Indians.

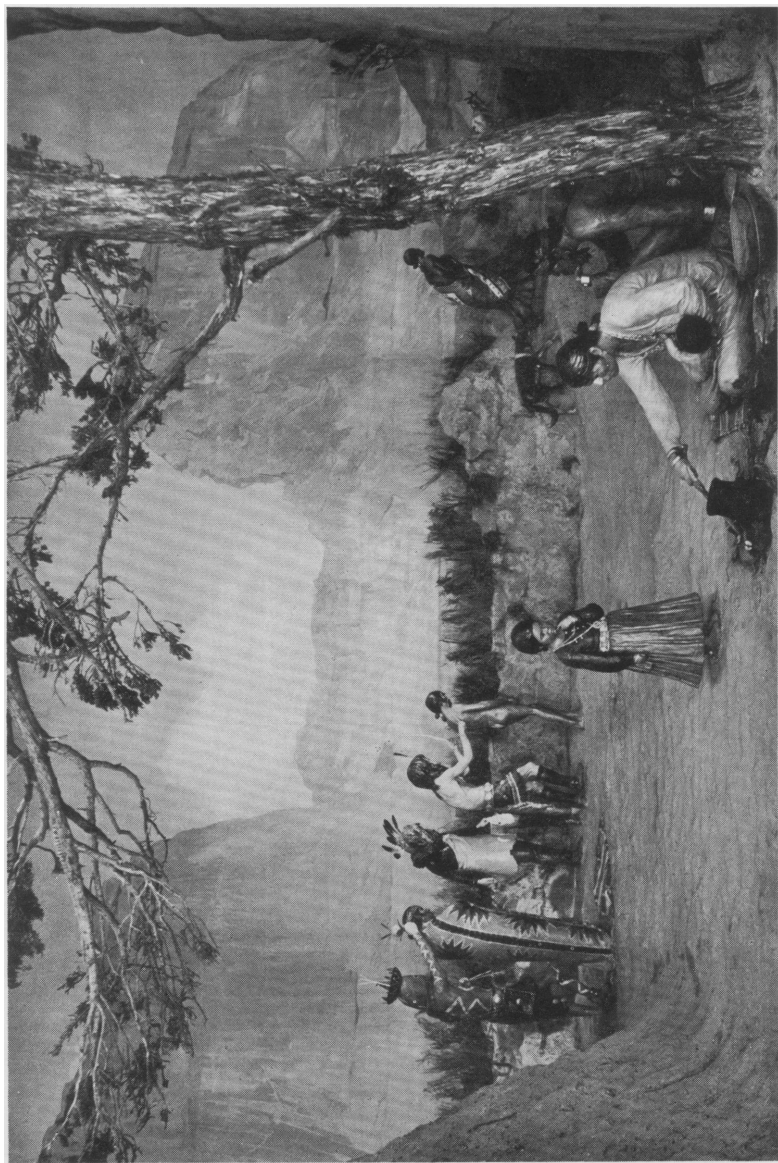
Field Work

1. THE FOURTH BERNHEIMER EXPEDITION: For four seasons in succession, Mr. Charles L. Bernheimer has organized, financed, and led exploring expeditions to the little-known country surrounding Rainbow Bridge, Navajo Mountain, and Cummings' Mesa. Last season the objective was the exploration of Navajo Cañon to its mouth in the gorge of the Colorado, and to examine in detail the top of Cummings' Mesa. In both, Mr. Bernheimer and his party were successful. Navajo Cañon was traversed its entire length, a difficult and dangerous task, so far as known never undertaken by a white man. The many side cañons opening into this one were examined, one of which was found to hold more than forty caves in its walls, a promising field for archæological work. The ascent to Cummings' Mesa will try the most experienced mountain climber, but once up, he will find an interesting archæological problem. Incidentally, Mr. Bernheimer discovered dinosaur tracks in Neskla-nizadi Cañon, which are fully described in his new book, "Rainbow Bridge."

At this point, acknowledgment should be made of the archaeological collection from Newcomb's Mesa, New Mexico, secured late in 1923, brought to the Museum, and presented by Mr. Bernheimer in March, 1924. The site from which this collection comes belonged to the black-on-white ceramic horizon and so serves to add one more unit to the geographical range of that culture level.

2. CAÑON DEL MUERTO: As noted in the report of last year, important archaeological discoveries were made by Mr. Bernheimer and Earl H. Morris in Cañon del Muerto, and archaeological excavations were carried on there until December, 1923. Last August, Mr. Morris returned to the cañon, where he spent the remainder of the year in intensive explorations. The specimen yield was gratifying, but of special significance are several deep stratified deposits which in their entirety cover the whole range of South-western chronology. Another point of interest is that the horizon upon which pottery first appears in the cañon presents sun-dried vessels only, suggesting that if pottery did not originate here, its appearance is on the level of the original discovery. This alone raises a problem of deep significance, but data for the evolution of other culture complexes are to be found in the successive strata, thus indicating the scientific value of these discoveries.

3. THE SURVEY OF RACIAL TYPES: Late in 1923, Dr. Louis R. Sullivan submitted a plan for visiting the important Indian schools in the Pacific States to collect data on facial and tooth characters. These characters were selected as the most accessible for statistical treatment and also those best adapted to the study of race crossing; for in such investigations one must first determine the norms in pure racial lines. Consequently, it seemed advisable to examine all the children in the larger Indian schools readily accessible, and to segregate the subjects according to purity of descent. Accordingly, all the larger government Indian schools in Arizona, California, and Oregon were visited, and some 6,000 individuals examined, giving special attention to the eyes, teeth, and nose. As just stated, the minute forms and patterns of these anatomical characters promise to throw new light upon the past career of man. Also, once the racial strains are determined, the behavior of these characters in hybridization can be observed. The funds for this investigation were granted by the National Research Council.



DEPARTMENT OF ANTHROPOLOGY

NAVAJO INDIAN GROUP

Cross-section of Navajo life in Cañon de Chelly, Arizona, home of the Indian since early prehistoric days.
Composition and modeling by Howard McCormick and Mahonri Young

4. NAVAJO ETHNOLOGY: As stated in the report for 1923, Dr. P. E. Goddard began systematic ethnological work with the Navajo Indians, the work for that year being in part field studies to be incorporated in the Navajo group mentioned above, but chiefly to develop the Navajo problem and thus lay the foundation for an exhaustive study of Navajo aboriginal culture. So to follow up the leads resulting from the expedition of last year, Doctor Goddard made a second visit to the Navajo country. The most intensive part of the work was among the Navajo at Shiprock, but later the native communities at Lukachukaik, Chinlee, Keams Cañon, and Ganado were visited. The results so far attained bear upon the intricate tribal organization of these Indians, an understanding of which is essential to research not only in their culture, but in respect to their racial traits. One elaborate ceremony was observed, the ritual having to do with war and scalping.

Under this general heading it may be noted that Dr. J. Alden Mason spent three months in Europe studying the collections from Latin American countries to be found in the ethnographical museums of Sweden, England, Denmark, Germany, Austria, and France. Also, he attended the International Congress of Americanists as a delegate from the Museum. The most profitable part of this journey was a study of the collections at Gothenburg, Sweden. These collections have been arranged by Dr. Erland Nordenskiöld, whose studies on the geographical distributions for culture traits in South America stand out as distinctive contributions to ethnographical research, and the Museum is indebted to Doctor Nordenskiöld for the many courtesies extended to Doctor Mason and for the privilege of studying his excellently arranged collections.

A number of investigations are in progress upon Museum material, not directly resulting from expeditions. Thus, Dr.

Research E. W. Gudger, Associate in Ichthyology, in connection
in the with his exhaustive studies of distribution of fishes in
Museum the Pacific is giving incidental attention to *palu* fishing
and fishing appliances. To date, the ranges for the
different types of *palu* hooks have been worked out in detail and a
manuscript prepared. The dearth of comprehensive distribution
studies for the Pacific area is lamentable, there being in fact not
one of the many culture traits widely spread among the island
peoples for which a satisfactory distribution study has been made.
Consequently, Doctor Gudger's contribution will be welcomed by all.

Dr. Waldemar Jochelson is writing a handbook on the uncivilized tribes of northern and western Asia. Mr. Charles W. Mead is preparing a report upon the prehistoric archæology of Chile; Mr. N. C. Nelson has practically completed the study and arrangement of our local archæological collections; and Dr. J. Alden Mason has begun a study of the Minor C. Keith collection from Central America. Dr. Milo Hellman has made substantial progress with the tooth patterns and the dentition of negroid races. Dr. Vernon C. Allison, United States Bureau of Mines, has completed his study of stalagmites from Jacob's Cavern, Missouri, and sent in his report, showing how it is possible to measure the rate of growth in such formations and thus establish time relations for the archæological materials associated with them. This research not only promises a new method for dating archæological strata, but is a contribution to geology as well.

The Curator has carried out an intensive study of geographical distributions, both for culture and racial traits, the results of which are now ready for publication. The extra expenses incidental to these investigations were met by a grant from the National Research Council.

The following publications were edited and issued during the year in *Anthropological Papers*:

Publications "The Horse and the Dog in Hidatsa Culture," by Gilbert L. Wilson.

"The Musical Instruments of the Inca," by Charles W. Mead.

"Notes on Shoshonean Ethnography," by Robert H. Lowie.

"Minor Ceremonies of the Crow Indians," by Robert H. Lowie.

"An Ancient Village Site of the Shinnecock Indians," by M. R. Harrington.

"Archæology of the Missouri Valley," by George F. Will.

"Comparative Data on Respiration and Circulation among Native and Foreign Born Males in New York City," by Clark Wissler.

"Burials in the Aztec Ruin," by Earl H. Morris.

"The Aztec Ruin Annex," by Earl H. Morris.

"Old Civilizations of Inca Land," by Charles W. Mead, was published in the *Handbook Series*.

We regret to record the death of Mr. Byron E. Hoover, for many years a technical assistant in the department. His energy and faithfulness were admirable, which, coupled with the experience coming with his long service, made him one of our most efficient staff members. His last work was the unpacking, listing, and placing of the von Luschan Collection, a task almost completed before he was stricken.

ANTHROPOLOGICAL ACCESSIONS

BY GIFT

- ABE, YOSAKU, Kushiro, Hokkaidoh, Japan.
27 Potsherds and stone implements from Kushiro, Hokkaidoh, Japan.
- ACKERMAN, MISS AMY E., Pennington Gap, Va.
1 String of beads from North Africa.
- ALDRICH, FRANK W., Bloomington, Ill.
Casts of three chipped chert blades from cache near Mackinaw, Tazewell Co., Ill.
- ANDREWS, COL. J. M., Brookline, Mass.
Archæological and ethnological collection from American Indians.
- BAILEY, JOHN M., Newburyport, Mass.
1 Large pestle from Newburyport, Mass.
- BALDWIN, MRS. W. M., New York City.
4 Carved stirrups and 1 woven belt from Chile.
- BEARD, THEODORE R., Florence, Ariz.
40 Archæological specimens consisting of 32 plain potsherds and 8 whole and fragmentary stone implements. Collected near Florence, Ariz.
- BOAS, PROF. FRANZ, New York City.
1 Trephined skull from the loess at Tichuanaco, Bolivia. Collection of Maka (or Mekaé) and Bene (or "Beti") money from South Cameroon, Africa.
- BREUIL, PROF. HENRI, Panhard, France.
Cast of pebble with engraved figure of bison from France.
- BRINCKERHOFF, MRS. MARTHA H. SEAMAN, Jamaica, L. I.
Ethnological collection from the Winnebago Indians and Indians of Omaha.
- BROOM, DR. ROBERT, Douglas, South Africa.
Skull of typical Bushman and plaster cast of Korana face from South Africa.
- CAVANAGH, JOHN W., New York City.
Specimens collected in Mexico.
- CHAPPEL, DR. H. G., Oakland, Calif.
3 Lower jaws (human) from Egypt.
- CHESTER, C. L., New York City.
Collection of bows, arrows, and beads from Brazil and Paraguay.
- COCHRANE, CAPT. C. M., Steamer Santa Teresa.
Small collection of fishing tackle:

- hooks, lines, floats, sinkers, etc., from Iquique, Chile.
- COMER, CAPT. GEORGE, East Had-dam, Conn.
Face cast of Mr. W. M. Sisson, an example of American physical type.
- CORNELL, MRS. RUSSELL R., New York City.
Piece of tapa cloth from Hawaii.
- CUNNINGHAM, MRS. JAMES, New York City.
Bolo and pistol of Spanish-American War and civil war in the Philippines.
- DE FOREST, MRS. EMILY J., Cold Spring Harbor, L. I.
2 Spoons from the Philippines.
- EDGAR, MISS ISABEL ROGERS (deceased) (through Mrs. W. H. Heaton, New York City).
Miscellaneous collection of about 90 ethnological specimens.
- EGGERS, C. H., New York City.
5 Pots from Tiahuanaco, Peru, and San Pedro, Chile; 1 skull.
- EMMONS, LIEUT. G. T., Princeton, N. J.
1 Ceremonial object from the Northwest.
26 Photographs taken on Northwest Coast.
- FORSYTH, E. W., Andros Island, Bahamas.
3 Skulls, parts of 2 others, and parts of 6 long bones.
- GAVIT, THE LATE JOSEPH LAMONT, New York City.
1 Stone ax head; collection of pottery fragments dug out of shell mounds south of Allendale, Fla.
1 Ax from the Haida, British Columbia.
- GRANGER, WALTER, New York City.
Skull cap, part of lower jaw, and sacrum from a fossil pit of Yen-ching-kao, Wan-hsien, Sze-chuan Province, China.
- HAY, C. L., New York City.
Pottery figure from the valley of Mexico.
- HERBERT, JOHN, Corona, L. I.
5 Arrow points from City Point, James River, Va.
- HOARD, MRS. PRESCOTT, New York City.
Fragment of an excavated pot from Pt. Salubrus, N. Y.
- HOOKE, KENNETH R., New York City.
Woven pouch and string of turquoise beads from Chile.
- HURLEY, CAPT. FRANK, New York City.
Phonograph records of dances and songs from New Guinea.
- IMPORT CLEARING HOUSE, New York City.
Metal cross and incense lamp from Abyssinia.
- JENNINGS, C. P., Macedon, N. Y.
8 Photographs of Navajo Indians during the Fort Sumner period, collected at Fort Sumner, N. Mex.
- JONES, REV. NEVILLE, Bulawayo, South Rhodesia, Africa.
Collection of chipped stone implements from Bulawayo, South Rhodesia, Africa.
- KELLER, HENRY, Brooklyn, N. Y.
A rusted sabre found while excavating on 21st Street between 8th and 9th Avenues, New York City.
- KUMM, H. K. W., Summit, N. J.
Munchi cloth from Nigeria, British West Africa.

KLEIN, A. J., New York City.

- 6 Ethnological specimens from North America and 24 from Africa; Wanderobo beehive from Aberdare Range, British East Africa.

LEWCOCK, HAROLD W., New York City.

- 2 Bullroarers from the Plains Indians.

LOTT, EGBERT PHELPS, New York City.

- 1 Piece of ribbon and 3 pieces of white cloth found on mummy of a woman, 1 piece of ribbon found in mound, on road from Callao to Lima, Peru.

MACARTNEY, MISS HELEN, Easton, Pa.

- Collection of pottery from Peru.

MAHONY, MISS AGNES P., Woodcliff, N. J.

- 1 Blanket from west coast of Africa.

MAMMALOGY, DEPARTMENT OF (transfer).

- Mummified cat wrapped in cloth from Egypt.

MASON, J. A., New York City.

- Surface finds from Indian camp sites, near South Amboy, N. J.

MATTHEW, DR. W. D., New York City.

- Archæological specimens from Florida. Collected by Dr. Matthew and W. W. Holmes.

MAURILLO, MISS BARBARA S.

- Work in horsehair of Indians of Popayan, Colombia.

METZELAAR, DR. J., Holland.

- Human skull (Frisian) from Sneek, Holland.

MOIR, J. REID, Ipswich, England.

- 25 Rude flint objects from East Anglia, England.

MONYI, S., New York City.

- Gold bead and nephrite image from State of Oaxaca, Mexico.

MUIR, JOHN M., Tampico, Mexico.

- 2 Pottery objects from Mexico.

NELSON, N. C., New York City.

- Elk bone from Inwood Station Shellheap, Manhattan; Plummet-shaped stone from Bronx Botanical Garden, New York City.

O'LAUGHLIN, L. H., Washington, Iowa.

- 1 Catlinite pipe from the Sioux Indians.

OTT, HARRISON W., New York City.

- 5 Modern weapons from United States and France; 6 parts of images, from Cholula Pueblo, Mexico.

PARSONS, DR. ELSIE CLEWS, Lenox, Mass.

- 3 Collections of potsherds from three different ruins at Jemez Valley, New Mexico.

POOR, WALTER S., New York City.

- Fur rug made by Alaskans.

PRENTICE, JOHN H., New York City.

- 2 Wooden objects from Mexico.

PREPARATION, DEPARTMENT OF (transfer).

- 2 Casts of Navajo Indian head modeled by Mahonri Young.

PSYCHOL. INSTITUT DER UNIVERSITÄT, Berlin, Germany (through Prof. F. Boas, Columbia University).

- Indestructible molds of 2 Museum phonograph records.

RAVEN, H. C., New York City.

- 1 Hunting trap from Acholi Tribe, Northern Uganda, Central Africa.

ROBERTSON, R. S., North Tarrytown, N. Y.

- Archæological collection.

- SAVAGE, M. F., New York City.
 Piece of hematite, a paint stone,
 from Arizona.
 Brush used in Snake Dance from
 Hopi, Arizona.
- SAYRE, MISS MARY HALL, New York
 City.
 Spear, harpoon, jacket and bag,
 from Alaska.
 Beaded buckskin pouch from North
 American Indians; coconut
 fiber caps from South America.
- SEALE, J. L., New York City.
 1 Stone ax, 6 shell and stone imple-
 ments, from India and Barbados.
- SHERIDAN, CAPT. JOHN F., Manhat-
 tan Beach, N. Y.
 Mummy of infant from southern
 Panama.
- SHERMAN, MISS BELLE, Ithaca, N. Y.
 4 Decorated potsherds from shell-
 mound in Marion Co., Fla.
- SMITH, MRS. CHARLES SPRAGUE, New
 York City.
 26 Bronze, stone, bone and food
 specimens from Switzerland.
- SUTTON, MRS. C. W., Yonkers, N. Y.
 2 Seed necklaces with bird pendants
 from Indians of Ecuador.
- UNGAR, F. C. H., New York City.
 1 Basket from Dohomey, Accra,
 West Africa.
- VON HEMERT, MRS. A. P., New York
 City.
 Collection of 9 specimens of pottery
 from the Southwestern United
 States, Panama, and Peru.
- WAIT, HENRY H., New York City.
 1 Human skull.
- WALD, MISS AGNES S., Welfare Is-
 land, N. Y.
 16 Specimens from Lower Congo
 River, Africa.
- WALKER, LEWIS, Douglas Manor,
 L. I.
 1 Human skull (part of lower jaw).
- WEST, FRANCIS, Pompano, Fla.
 Shell axes with fragmentary shells
 and animal bones from shellheap
 at Boca Raton, Palm Beach Co.,
 Fla.
- WHITNEY, MRS. EDWARD F., New
 York City.
 1 Large celt from Welaka, Putnam
 Co., Fla.
- WILLIAMS, GRANT, New York City.
 Small ax, large ax, sinker and
 hammerstone, and celt from City
 Island, N. Y., and Kelt Co.,
 Mich.
- WILSON, GILBERT L., St. Paul, Minn.
 "Cloud stone" beads from Hidatsa
 Indians, N. Dak.
- YAU, C. F., New York City.
 Carved wooden figure of Chinese
 maiden gathering mulberry
 leaves for feeding silk-worms.
 Made in Shanghai.

BY EXCHANGE

- AUSTRALIAN MUSEUM, Sydney, Aus-
 tralia.
 Face masks of two Tasmanians, cast
 in 1880. Collected in Tasmania.
- BREUIL, PROF. HENRI, Paris, France.
 61 Paleolithic flints and 8 neolithic
 chipped stone objects.
- EMMONS, LIEUT. G. T., Princeton, N. J.
 2 Navajo blankets, 1 set of gam-
 bling sticks and 2 paint stones
 from the Northwest.
- PUBLIC LIBRARY, MUSEUM AND ART
 GALLERY, Melbourne, Australia.
 Cast of Tasmanian aboriginal
 "Truganini."
- SKINNER, ALANSON B., New York
 City.
 Delaware moccasins and pemmican
 hammer collected in Oklahoma
 and South Dakota; war bundle
 of wolf gems from the Sauk
 Indians, Cushing, Okla.

TURNER, SYD. K., Kent, England.
Mousterian and eolithic flints and
fossil shells from Chatham, Eng-
land.

UNIVERSITY OF CALIFORNIA, Berkeley,
Calif.

Collection of pots from the Supe
District, Peru, made by Max Uhle.

BY PURCHASE

4 Copies of totem poles (door
posts) from Fort Rupert, Port
Hardy, Vancouver Is., B. C.

Eskimo collection made by
Christian Leden in Greenland.

4 Pieces of ancient Chinese money.

Bark basket, ornamented with quill
work, probably from Eastern
Ojibway.

Crow Indian skull from vicinity of
Big Horn Canyon, Montana.

Wampum collection: belts, string
and sets of moon-shaped orna-
ments, from factory at Pascack
Creek, Bergen Co., N. J.

Anatomical collection consisting of
5,000 human crania, 200 com-
plete skeletons, study collec-
tion, and private library.

THROUGH MUSEUM EXPEDITIONS

Archæological collection of 77 speci-
mens from La Plata Valley, Col.
Collected by Earl H. Morris.

2 Fragmentary skulls and skeletons
and flaked pebbles and marine
shells collected by N. C. Nelson
and Louis R. Sullivan at Indian
village site near Clinton, Conn.

AMERICAN MUSEUM EXPEDITION
JOINT WITH UNIVERSITY OF
COLORADO.

5 Boxes of archæological specimens
from Canyon del Muerto, Ari-

zona. Collected by Earl H.
Morris.

THIRD ASIATIC EXPEDITION.

5 Human skulls picked up on sur-
face in Chahar District, Asia.

BERNHEIMER EXPEDITION.

Archæological collection of 127
specimens from Navajo Indian
Reservation, Arizona and New
Mexico.

WHITNEY SOUTH SEA EXPEDITION.

5 Stone implements from the island
of Eiau, Marquesas.

DIVISION OF ASIATIC EXPLORATION AND RESEARCH

ROY CHAPMAN ANDREWS, Curator-in-Chief¹

This division was established at the close of the year 1923 as a department embracing the activities of the Third Asiatic Expedition, with Mr. Roy Chapman Andrews as Curator-in-Chief and leader of the expedition; Mr. Walter Granger, Associate Curator in Palæontology and second in command in the field; Mr. Frederick K. Morris, Associate Curator in Geology and Geography; Dr. Charles P. Berkey of Columbia University, Research Associate in Geology; Dr. A. W. Grabau, of the Geological Survey of China, Research Associate in Palæontology; Mr. Clifford H. Pope, Assistant in Zoology.

The active field work of the expedition was closed temporarily in the fall of 1923 upon the return to Peking of the main party from the Mongolian plateau, and of Mr. Pope from the island of Hainan. All the members, including President Osborn, who joined the Mongolian party during its last week, returned to America at the end of the year with the exception of Mr. Granger, who remained in Peking to direct the packing and shipping of the collections and who did not reach the Museum until February, 1924.

During the past year the work of the members of this expedition has been divided between the preparation of collections and of scientific articles upon the material collected, and the making of plans and preparations for field work in the coming season.

The last shipment of the great zoölogical and palæontological collections made in China and Mongolia during the past three years arrived safely at the Museum in April. Laboratory work on this material was immediately begun and was carried on continuously throughout the remainder of the year. The collections of mammals, birds, reptiles, batrachians and fishes have been classified, catalogued and to a large extent studied. Of the fossils, the mammals are almost entirely prepared and work on the preparation of the reptiles is well advanced. A large part of the laboratory force of the Department of Vertebrate Palæontology was detailed to this work during the year and the progress made in cleaning up this vast collection has been most satisfactory.

¹Report prepared by Associate Curator Granger.

Two Chinese boys (field assistants), Kan Chuen Pao and Liu Shih Ku, were brought to the Museum by Mr. Granger, through the courtesy of the United States Immigration Bureau, and were given nine months' instruction in laboratory preparation of fossils. This training will greatly increase the value of these boys to the expedition, both in future field work and in the laboratory for the preparation of fossils which it has been planned to establish at the headquarters at Peking. The preparation of fossil vertebrates is a tedious, difficult and expensive process, and it is felt that much of this can be performed advantageously in Peking, shipping many of the specimens back to the Museum in a prepared or semi-prepared condition.

A special exhibit of the more striking fossils from Mongolia was begun in the Tertiary Hall in 1923; this has been added to from time to time as the material was prepared, and the **Exhibition** exhibit now occupies the greater part of the center of this great hall. It is planned to arrange this exhibit in a more permanent form in the old Reptile Hall as soon as the rearrangement of the new Dinosaur Hall is completed. The great skull of *Baluchitherium*, the skull of *Andrewsarchus*, the giant carnivorous mammal, numerous skulls of titanotheres, several groups of dinosaur eggs, a magnificent series of skulls and skeletons of the egg-laying dinosaur *Protoceratops*, are to be found in this collection.

Curator-in-Chief Andrews returned to the Museum in November, 1923, and left for Peking in May, 1924. During the six months that he was in America he devoted **Future Exploration** much of his time, through lecturing, writing and personal appeal, to the raising of funds for the continuation of the work of the expedition. Most gratifying results attended these efforts, and sufficient money has now been pledged to insure five years' exploration on a broad scale. Upon returning to China, Mr. Andrews engaged at once in preparations for the field season of 1925. A trip was made to Urga during the summer and successful negotiations were carried out with the Mongolian government for permission to renew exploration in Outer Mongolia. A supporting caravan of 150 camels has been assembled at Kalgan, and at Peking headquarters a new fleet of seven motor cars and a great quantity of equipment and provisions have been brought together. The expedition will resume its Mongolian exploration

in April, 1925, with a personnel consisting of most of the earlier members, and with the addition of N. C. Nelson, archæologist, L. B. Roberts, topographer, Ralph W. Chaney, palæobotanist, a surgeon, two assistant topographers and a motor mechanic.

Much progress upon the scientific articles on the expedition has been made during the year. In all, 18 *Bulletin* and *Novitates* articles have been published by the following authors: Messrs. Osborn, Berkey, Morris, Matthew, Granger, Mook, Noble, Allen, Cockerell, Fowler. The papers were divided into the following subjects: Vertebrate Palæontology, 11; Geology, 4; Invertebrate Palæontology, 1; Mammalogy, 1; Ichthyology, 1. President Osborn devoted much of his time to the study of the fossil mammals and reptiles, and seven of the papers on Vertebrate Palæontology were prepared by him. Many other articles on various subjects are either in press or are nearing completion. Doctor Berkey and Mr. Morris, in addition to several special short articles on Mongolian geology which they have issued during the year, have prepared a Reconnaissance Report on the Geology of Mongolia, which will be the first of the 12 final volumes on the Expedition, which are to be given the general title of "The Natural History of Central Asia." Several popular articles by President Osborn, Mr. Andrews and Doctor Berkey have appeared in *Natural History*, and numerous popular and scientific lectures on the expedition and its results have been given throughout the eastern United States by Messrs. Osborn, Andrews, Berkey, Morris, Pope and Granger.

THE LIBRARY

RALPH W. TOWER, Curator

An analysis of the year's activities of the Library indicates three needs, the satisfying of which is paramount to the future development of this department. The change in the purchasing value of the dollar within the last decade has not excepted the price of books. The increased cost of production has added from fifty to one hundred per cent to the expense of books, and since there has been no augmentation in the budget allowance it has been impossible to acquire many titles of the utmost importance to the work of the institution. It is, therefore, essential that the appropriations be materially increased if the Library is to keep pace with the demands made upon it.

Past reports have emphasized the necessity of providing additional stack room, but the time has now come when a sincere effort should be made by the administration to relieve this physical defect.

Not only the growth in the accessions to the Library but the constant increase in their use has finally surpassed the ability of the staff to properly meet the demands made. As previously pointed out, each new department, each new activity, each new publication makes an ever-increasing demand upon our resources—financial, physical and personal. More aid must be provided if the department is expected to meet the needs of the institution.

As in many previous years, Mr. Ogden Mills has during 1924 enriched our collection with many useful and much desired works; among these, special mention should be made of

Lilford, Lord. *Coloured Figures of the Birds of the British Islands*. Volumes I to VII. London, 1897.

Latham, John. *General Synopsis of Birds*. Volumes I to III, with Supplements I and II. London, 1781.

Lewin, William. *The Birds of Great Britain with their Eggs*. Volumes I to VII. London, 1789.

Gould, John. *The Birds of Australia and Adjacent Islands*. Parts I and II. Folio. London, 1837-1838.

The continued generosity of Mr. Mills has made it possible for the Library to acquire rare and valuable items which could not have been procured from our own resources.

Through the kindness of Mr. James B. Ford, we were allowed to select from the books belonging to the library of Mr. Charles Boardman Hawes such titles as were pertinent to our activities. There were thirty-three titles, some of which were extremely rare and for which we had searched during many years past.

The Anson W. Hard Library Fund has made it possible to acquire the *Journal of the North China Branch of the Royal Asiatic Society*, Shanghai; 55 Volumes, 1858–1922. This set is especially useful at the present time when the results of the Third Asiatic Expedition are being plotted.

During the year, the library of Felix von Luschan, which was acquired as a part of the von Luschan anthropological collection, has been received and assorted. The accessions amounted to 1,629 titles relating chiefly to physical anthropology and the ethnology of the South Sea Islands.

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

The *Bulletin*, containing the larger scientific papers, has appeared as follows:—Volume L complete; Volume XLIX, devoted to Belgian Congo Reports, has been concluded; Volume XLVII, Allen Memorial, one part; Volume LI, concerned with geology and palæontology, 6 articles.

The *American Museum Novitates*, containing the shorter scientific contributions, has been issued in fifty-two numbers—104 to 155, totaling 280 pages and 127 text illustrations.

The *Anthropological Papers*, concerned entirely with the researches conducted by the department staff, have been issued in nine parts as follows:—Volume XV, parts 2 and 3; Volume XX, part 3; Volume XXI, part 5; Volume XXII, parts 5 and 6; Volume XXIII, part 6; Volume XXVI, parts 3 and 4.

Handbooks, No. 10, "Indians of the Northwest Coast," and No. 11, "Old Civilizations of Inca Land," have been an important addition to this popular series.

Two new *Guide Leaflets* have been added to the series: No. 59, "Preparation of Rough Skeletons," and No. 60, "The Story of the Yosemite Valley." New editions were issued of No. 28, "Habitat

Groups of North American Birds"; No. 36, "Evolution of the Horse;" No. 39, "How to Collect and Preserve Insects," and No. 42, "The Big Tree and its Story."

Natural History completed its twenty-fourth volume.

The Osborn Library is again in need of more shelving space to accommodate the normal growth of its collections, which cover the entire field of vertebrate palæontology and allied subjects.

The Division of Printing has again maintained capacity work through the year, bringing out all the scientific, popular and miscellaneous publications of the institution. The *Annual Report*, which heretofore has been published elsewhere, will also now become a product of this department.

PUBLIC EDUCATION IN THE MUSEUM AND IN THE SCHOOLS

GEORGE H. SHERWOOD, Curator-in-Chief

The educational work of the Museum presents two phases, namely, General Education and Specific Instruction for pupils and students. The general education results from the influence of the exhibits in the exhibition halls and from the general contact with the public through the scientific departments. It is through these channels that the Museum is contributing to the education of the community and the country. Our exhibition halls are visited daily by groups of students from the industrial schools, the colleges and the universities. While these visits are only occasional on the part of some of the institutions, Columbia University, New York University, the College of the City of New York, Cornell University and Rutgers College frequently send their students to the Museum for definite studies or investigations. In fact, the Museum's coöperation with Columbia University is still closer, as Doctor Gregory of the Museum's staff is also a professor at Columbia and conducts certain of his classes here at the Museum where its riches are close at hand. The influence of the Museum in this direction is still further broadened through its publications—especially its popular publications. The *Handbooks* on "The Evolution of the Horse," "Animals of the Past," "Indians of the Southwest," and several others, are in demand as text-books by several schools and colleges, while the larger volumes based on the Museum's collections, such as "Men of the Old Stone Age" and "The Origin and Evolution of Life" by Professor Osborn, "The American Indian" by Doctor Wissler, and "The Doctrine of Evolution" by Doctor Crampton, are classics, not only in this country, but abroad, and some of these have been translated into foreign languages.

Another avenue through which the Museum serves an ever-widening circle of educational institutions is the distribution of the photographic records of its expeditions, researches and explorations. The vast fund of invaluable and often unique information, brought together as the photographic results of our expeditions, is made available to educators in the form of photographs or lantern slides, which may be obtained at cost. During the past year, such

material has been supplied to more than a hundred schools, colleges and other organizations, representing 33 states and 13 foreign countries.

Finally, the stream of visitors from all parts of the world, annually flowing through our halls, is absorbing the secrets of nature and spreading abroad the lessons which our exhibits are designed to teach. This is what we mean by the Museum's contribution to *general education*.

The educational activity of the Museum that is most in the public eye is the direct contact with the schools and other agencies for the instruction of youth. This work constitutes the specific pedagogical *instruction* which we referred to as the second phase of the Museum's work. The major part of this work is carried on through the Department of Public Education, which connects the Museum and the educational system of the City and State. The source of the material which it has at its disposal is the patient work of the scientific departments. Through the Department of Education, the Museum comes in direct contact not only with the elementary and high schools of the public school system, but with private schools, colleges and universities.

The year 1924 is the twentieth anniversary of the Museum's intensive work with school children. Prior to 1904, the instruction was primarily for teachers and other adults. On this twentieth anniversary, it is well to take account of stock of our various activities, with a view to ascertaining their value and the desirability of continuing them. In looking back over the past twenty years, we find that there has been consistent growth, which is indicative of increasing usefulness. To visualize this school service and to give an idea of its growth, we desire to present the following chronology of departmental activities:

1904: At the suggestion of teachers, the Museum gives first course of Illustrated Lectures for Public School Children.

Comparative Statistics	1904	1924
Attendance.....	25,000	144,819

1904: First lending of Nature Study Collections for Classroom Instruction.

Comparative Statistics	1904	1924
Number of Collections in Use.....	120	1,327
Number of Schools of Greater New York Supplied.....	115	433
Number of Pupils Studying the Collections.....	250,000	1,247,914

1907: Establishment of Loans to Public Libraries. Small nature collections are placed in the children's reading rooms and used by the schools of the community. System of library loans carefully organized and developed in 1915. Twenty-nine libraries of the City were served in 1924.

1909: Inauguration of special Instruction for Blind. Blind children and sight conservation pupils regularly visit Museum for this instruction. First organized work in classes for blind in 1912.

Comparative Statistics	1912	1924
Number of Talks Given.....		227
Number of Schools Attending.....		31
Number of Pupils Attending.....	224	3,492

1910: Instruction for the Blind endowed by the establishment of the Jonathan Thorne Memorial Fund. Capital, \$25,000.

1911: Museum makes first use of Motion Pictures in the public school lectures.

1914: Museum establishes two Local Lecture Centers in public schools.

1915: Establishment of Motion Picture Library.

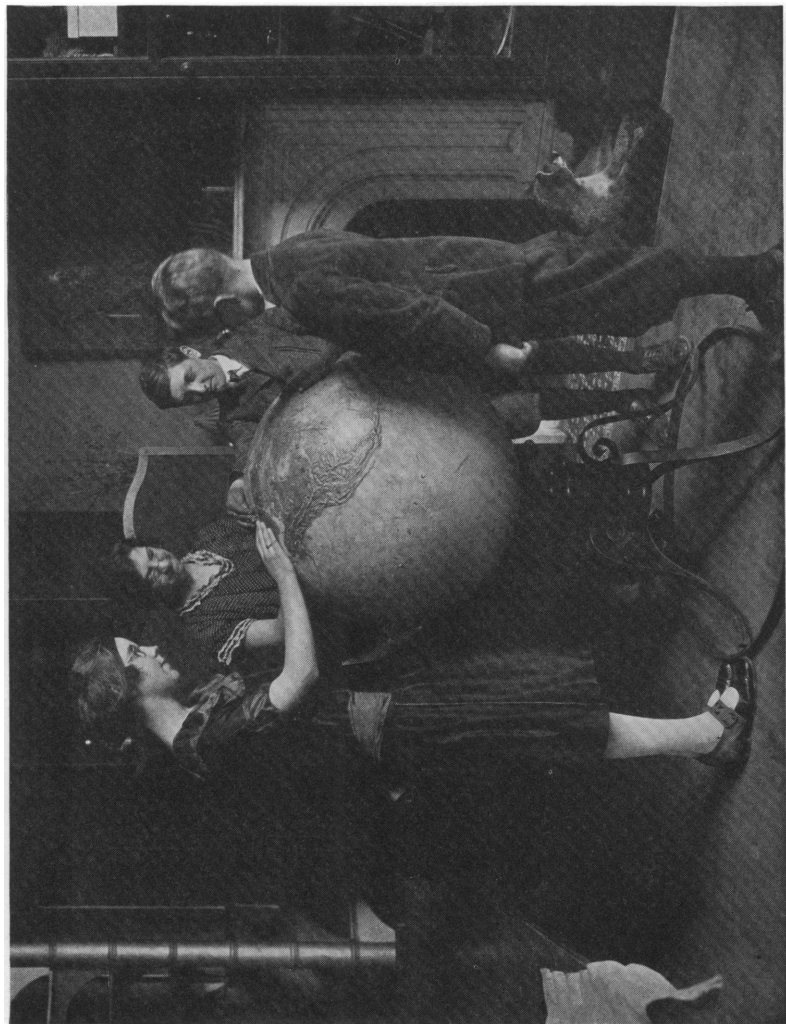
1915: Initiation of the Lending of Lantern Slides to public school teachers by special arrangement with the Board of Education.

Comparative Statistics	1916	1924
	(1st full year)	
Number of Public Schools Borrowing Slides.....	63	253
Number of Loans of Slides to Public Schools.....	491	12,092
Number of Slides Circulated in Public Schools.....	38,912	567,160

1920: Special background Lectures on Science Subjects provided for New York Training School for Teachers.

1921: First of Receptions to Graduating Students of the Training Schools, to acquaint them with Museum aids available for teachers.

1922: The Board of Estimate and Apportionment appropriates \$570,000 for the erection of the School Service Building.



DEPARTMENT OF PUBLIC EDUCATION

"STUDYING THE EARTH"

Classes of blind children visit the Museum regularly for instruction

1922: First organized lending of Films to schools.

Comparative Statistics	1922	1924
Number of Reels Lent.....	76	309
Number of Showings.....	63	316
Number of Children Present at Showings	18,287	115,849

1924: Ground broken for new School Service Building, September 15.

The foregoing chronology and comparative statistics indicate the extent and variety of the Museum school service. During the year just closed, we have maintained these regular activities and at the same time have introduced several new features in our work.

One of the most important events of the year was the expedition to Lapland which left New York in early May under the leadership of Dr. G. Clyde Fisher. The expedition was organized by Mr. Carveth Wells with the aid of the Swedish State Railways, and was then very generously turned over to the American Museum by him. It was made an official Museum expedition with the following personnel: Dr. G. Clyde Fisher and Mr. Carveth Wells. There were two objects: first, to study the Swedish educational system, and second, to study the Lapps and to make a pictorial record of the summertime activities of these nomadic people. Doctor Fisher and Mr. Wells were successful in both objects to a most satisfactory degree.

The schools of Sweden, from the lowest to the two complete universities, were visited and interesting comparisons made with American schools; a journey was made from Porjus in Arctic Lapland across the wilderness to the Norwegian coast, thence northward and back again across Norwegian and Swedish Lapland to the head of the Gulf of Bothnia. In all, about 500 still photographs and 10,000 feet of motion pictures were made. Observations were made on the midnight sun and its apparent daily path; birds and animals were photographed, most notable of these being the arctic tern, the Scandinavian snowy owl, the lemmings on migration (probably the first motion pictures ever made of lemmings), and of clouds of mosquitoes over the snow-fields above the timber line. Many species of alpine wild flowers were photographed, active glaciers were visited, and myriads of tracks of the prehistoric ice-sheet were seen. Mr. Wells and Doctor Fisher accompanied the sturdy Lapps on their early summer migration

with their reindeer, sleeping in their tents, and sharing their rude fare, consisting largely of reindeer meat, fish and coffee. They visited the nomadic Lapp schools and were entertained by Turi, the only Lapp who has written a book.

The success of the Lapland trip was in great measure due to Dr. Erik Bergström, Inspector of the Nomad Schools, who as a courtesy to the American Museum was requested by the Swedish Government to act as guide and interpreter for the expedition. The Museum is also especially indebted to the following officials for many courtesies extended to the expedition to Sweden and Lapland: Mr. Birger Nordholm, Manager of Swedish State Railways; Mr. G. Hilmer Lundbeck, General Passenger Agent, Swedish-American Line; Dr. B. H. Brilioth, Director of American-Swedish News Exchange; Mr. T. Segerstråle, Director of Swedish Traffic Association; and Dr. Carl Julius Anrick, Director of Swedish Tourist Association.

Following is a report of the work accomplished by the department during the year 1924.

The members of the department staff have coöperated with the Publicity Committee in giving a considerable number of talks for children on various phases of natural history in the Friday afternoon program of the WEA F Broadcasting Station. This was at first undertaken as an experiment, but it has been so successful as measured by the popular demand that the number of stories has been doubled and the service has been made a permanent feature of the program.

Classes from Hunter College under Prof. Henry J. Jeddloh, Instructor in Sociology, have come to the Museum for the purpose of studying the American Indian and Prehistoric Man. In the former project, Mr. N. C. Nelson, Curator of Archæology, gave a demonstration of the chipping of arrow-points as practised by the Indians of the West, while the docent trips through the Age of Man Hall were conducted by Miss Christina D. Matthew.

Classes from Rutgers College under Prof. C. S. Crow have been coming to the Museum on alternate Saturdays from October throughout the year, and it is planned that the course as outlined at present will continue until about June 1, 1925. In these trips a

fairly intensive study is made of some fifteen of the exhibition halls of the Museum under the expert guidance of the various curators of the scientific staff.

A series of photographic enlargements of animals, consisting of 37 subjects and including only pictures of great beauty, was prepared, each one framed, and these were lent to the biological departments of the High Schools of the city. After a period of a semester or a whole school year, these pictures will be moved to other schools according to the plan of circulation.

For the use of biology teachers, Mrs. Grace F. Ramsey prepared a list of the various ways in which the Museum exhibits and loan material may be used to advantage in the teaching of this subject so closely correlated with this institution.

Teachers and classes, who have come to hear a lecture in the regular school children's course, have been provided with guides so that they may see immediately after the lecture the exhibits in the Museum which were discussed, or which are related to the subject under discussion. Although the numbers of children remaining for this supplementary work were sometimes so large as to make the undertaking difficult, the correlation of the exhibits with the school lectures is an excellent idea, and the conducting of the children into the various exhibition halls is well worth while.

An important service to the schools is the lectures to the pupils on subjects closely correlated with their course of study. Ninety-three lectures have been given to school children in the regular series in the Museum auditorium, with a total attendance of 87,042. Twenty special lectures to school children were also given in the Museum, with an attendance of 8,755. At Washington Irving High School nine lectures were given, with a total attendance of 11,217. At P. S. 42, The Bronx, twenty lectures were given, with an attendance of 7,600. At the New York Training School for Teachers, seven lectures were given, with an attendance of 5,975.

Besides these, eleven lectures were given at other schools, with an attendance of 4,670; four lectures were given for the Training

Schools for Teachers in the Museum; nine lectures to school children in charge of Mr. Van Evrie Kilpatrick of the School Garden Association; thirteen miscellaneous lectures in the Museum; three miscellaneous lectures outside the Museum; nine lectures to Members of the Museum; and eight lectures to the Children of Members of the Museum.

In the entire lecture service, excepting the talks to Blind and Sight Conservation Classes, 206 lectures have been given during the year, with a total attendance of 144,819.

When in 1915, a special financial arrangement with the New York City Board of Education made it possible to place the Museum's series of about 20,000 lantern slides at the disposal of teachers for use in the classrooms, it would not have required the powers of a soothsayer to foretell how valuable this new line of Museum coöperation would prove to teachers and pupils in the city schools.

But only prophetic vision could have foreseen the astounding growth that has been made in the first decade of this department. In 1915, 11,929 slides were circulated in 196 loans to 51 institutions, including public schools and a few private schools. When the first quinquennial was celebrated, the circulation of lantern slides had increased to 80,468 in 1,470 loans to 164 institutions. But now, at the end of the second quinquennium, the circulation has passed the half-million mark. During 1924, 598,132 slides have been circulated in 12,847 loans made to 354 public and private schools. The following statistics show the growth during the last five years:

	1920	1921	1922	1923	1924
Total Number of Borrowers.	235	295	331	328	354
Total Number of Loans.....	2,435	3,963	6,219	9,677	12,847
Total Number of Slides Lent	138,133	209,451	330,298	440,315	598,132
Number of Public Schools					
Borrowing.....	154	182	226	240	253
Number of Loans to Public					
Schools.....	1,933	3,187	5,386	8,956	12,092
Number of Slides Lent to					
Public Schools.....	116,342	175,272	294,358	410,013	567,160

The remarkable increase shown in the lantern slide circulation in the last five years may be attributed to several factors: First, the greater number of schools that are now equipped with stere-

opticon lanterns and the greater stress laid upon visual instruction methods in teaching. Second, the greater availability of the slides, made possible by the multiplication of lecture sets provided with manuscripts and the arrangement of the slides into 170 different groups, following the course of study in various subjects and for different grades. These groups are listed in a catalogue under the subject and grade, so that a teacher from any grade may see at a glance what slides are available for her use. The 51 lecture sets with manuscripts are also a great aid, as they enable the teachers to give lectures with a minimum of preparation. Third, the careful thought given to the arrangement of special schedules of lantern slides so they will closely correlate with the work of the individual teachers, bringing them slides on such topics as the "Plant and Animal Products of South America" during the week selected for the teaching of this subject. Fourth, the active coöperation of the Bureau of Visual Instruction under Director Ernest L. Crandall and Miss Rita Hochheimer, Assistant Director of Visual Instruction.

Motion picture films have been lent during the year to all schools that requested them. However, this branch of the work still remains small because of the limited size of our motion picture library, and because so few of the school buildings, comparatively, are equipped for the use of motion pictures; 309 reels were lent and used in a total of 316 showings. The total attendance of pupils present was 115,849.

This important branch of the work has fallen off this year on account of lack of messenger service for transferring the collections, the number of pupils reached being smaller because the exhibits could not be rotated from school to school with the frequency that was possible a few years ago. As has been true during the past two years, the lending of lantern slides has taken precedence of this work, although in visual instruction it is believed that the real object is of greater value than any still picture of it.

Lending of
Motion
Picture
Films

Circulating
Collections
of Natural
History
Specimens

Following are the statistics for the past five years:

	1920	1921	1922	1923	1924
No. collections in use.....	887	869	824	1,409	1,327
No. of schools in Greater New York supplied...	448	477	475	472	433
No. of pupils studying collections..	1,176,055	1,247,515	1,648,608	1,491,021	1,247,914

Since 1907, the Museum has been interested in reaching a large and eager public through the Public Library system of New York City, and has prepared a number of collections representing the various fields of natural history—types of human culture, bird and animal life, and so on. These have been placed at the disposal of the branch libraries in the hope that interest may be aroused both in correlated reading matter suggested and provided by the library and in further study of natural history for its own sake. Last year, 12 of the city's 43 branch libraries and 9 other libraries availed themselves of this service. Fifty-five loans were made, using 29 of these Library Collections. As nearly as can be computed, by the method of percentages, 33,472 persons viewed these exhibits. We hope earnestly that we may extend and improve this part of the work greatly during the coming year.

During the year 1924, the Museum was visited by 1,633,843 persons. Of these, 6,963 were personally conducted through the exhibition halls by members of the department, with the assistance, whenever necessary, of members of the scientific staff. Members of the Museum, students, children, political officials and many others have availed themselves of this service. This is another branch of the work that we should like to see increase many hundredfold.

This phase of the Museum's educational activities began in 1909 and comprised lectures and a room devoted to such exhibits as could be enjoyed by blind persons. In 1910, the Work with the Blind Jonathan Thorne Memorial Fund was started and enabled us to carry on a much more effective work. Since 1912, the work has been almost completely concerned with children, the Blind and Sight Conservation pupils of the New York City Public Schools and a few outside groups. At present the work

is confined to children. Every fall and spring we plan a series of talks for these children,—talks illustrated by objects which the youngsters can “see” and examine thoroughly with their hands, on such topics as “A Visit to the Seashore,” “Strange Homes of Man,” “Winter Bird Neighbors,” or “The First Dishes and How They Were Made.” Each teacher of one of these classes is notified of the talks, and files with us her choice of talks. From this application we arrange a schedule for her. During the year 1924, thirty such classes came to the Museum; 227 talks were given, with an attendance of 3,492 children, teachers and guides; twenty more relief globes were delivered to Blind and Sight Conservation Classes, making a total of 48 of these globes in the schools, helping little fingers to learn about the world we live in.

The reference library of photographs of the Department of Public Education now comprises 85,924 negatives and 98,643 prints. This collection illustrates many phases of natural science
Photographic —anthropology, zoology, palæontology, geology
Work and botany. Among the pictures are many brought back by Museum expeditions from all parts of the world,—the Arctic, Africa, South America, the South Seas, and our own United States, and still others which have been deposited by the owners. The latter group includes the valuable Martin Johnson pictures of African animals, several hundred of Ernest Harold Baynes’ negatives of North American mammals and birds, and 800 negatives of wild flowers made by Miss E. M. Kittredge, formerly of the New York Botanical Garden. Valuable additions have also been made to the files from time to time by gift, the largest single gift being that of the Julian A. Dimock collection of 4,000 negatives of views in Florida, New England, and Canada, and a series of tarpon pictures, besides many others of value and interest. In addition to these three groups of photographic material, there are many thousand pictures of general interest made by the Museum photographers.

The two Museum photographers, with some outside assistance, made, during the year, 1,611 negatives, 14,805 prints, 647 enlargements, 4,482 lantern slides, and 3 transparencies. This is an increase, in most instances, over the amount of photographic work done in 1923. The greatest increase was in the number of prints made, the total of 14,805 being 998 more than the number made

in 1923. In addition to this work, the photographers developed 577 plates and 168 rolls of film brought back by the expeditions to Lapland and the Bahamas.

During the year, 4,920 negatives were catalogued, an increase of 1,502 over the preceding year. Prints of these have been mounted and added to the reference albums.

Perhaps the outstanding accomplishment of the Negative Librarian for the year is the completion of four sections of a negative catalogue—Mammals, 260 negatives; Birds, 231; Astronomy, Geology and Mineralogy, 176, and Peruvian Art, 115 negatives. Other sections will be prepared as time permits.

On March 1, Miss Josephine Hopkins took charge of the work with the Blind, the library exhibits, and the docent service.

Change in Personnel	On April 1, Miss Anne E. Bacon, who had been secretary of the department since November 15, 1921, resigned, and Mrs. Hazel L. Muller was appointed as her successor.
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School Service Building	The School Service Building, for which appropriation was voted in 1922 by the Board of Estimate and Apportionment, is progressing finely. The steel structural work is being erected, and this promises early completion. In this five-story building, 160 feet long by 90 feet wide on the first floor and 56 feet wide on the upper floors, all branches of the work of the department will be localized. With the increased room and the larger staff and equipment thus made possible, comes the opportunity to greatly increase our coöperation with the schools.
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Coöperation with Other Organizations	President Henry Fairfield Osborn, who is Honorary President of the School Nature League, and Mr. Sherwood, who is a member of the Board of Directors, have taken an active interest in the work of this organization. The annual and other meetings are held in the Museum, and the department has furnished considerable material to the various nature rooms located in the public schools.
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Mr. Sherwood, Doctor Fisher, and Mrs. Ramsey are members of the Visual Instruction Association of America, New York Chapter, and take part in its work. During the year the meetings were held in the Museum auditorium.

Doctor Fisher, who has served for several years on the Curriculum Committee and on the Biology Committee of the Visual Instruction Association, New York Chapter, has accepted an invitation to serve on the Nature Study Committee for the elementary schools. The meetings of the committees are held in the Board of Education building, and are in coöperation with Dr. Ernest L. Crandall, who is Director of Lectures and of Visual Instruction under the Board of Education.

The Museum has furnished a meeting place for courses in Boy Scout Leadership and other work for Boy Scouts and other outdoor groups, this important work being under the direction of Mr. B. T. B. Hyde. Doctor Fisher and other members of the Scientific Staff aided in the Leadership Course.

Doctor Fisher continues as examiner for the Boy Scouts of Manhattan for the Bird Study Merit Badge.

The Museum furnished a meeting place for a training course for Woodcrafters under the leadership of Miss Grace Corning Cotton, Executive Secretary of the Eastern Field Council of the Woodcraft League. Doctor Fisher gave a lecture on "Trees in Winter," with a demonstration indoor field trip at one of the Woodcraft League meetings.

The School Garden Association has conducted two series of lectures in the Museum auditorium under the direction of Mr. Van Evrie Kilpatrick.

Material illustrating various branches of the Museum's work with the public schools was lent to Dr. Willam H. Allen, Director of the Institute for Public Service. This material was placed on exhibition at the Institute during the months of July and August, where it was inspected by many student teachers at the Summer School of Columbia University.

The formal accession list acknowledges the many gifts received by the department during the year, but especial mention should be

Acknowledgments made of the following: Three sets of slides, each consisting of 58 colored lantern slides from the American Society for the Prevention of Cruelty to Animals; a set of 163 colored lantern slides from the Canadian Pacific Railway; a set of 32 plain lantern slides with manuscript from the New York Telephone Company; a set of 32 tinted lantern slides

on soap manufacture from Kirkman & Son; 26,000 feet of positive motion picture film of *Jungle Life in India*, made on the Faunthorpe-Vernay Expedition, were presented to the Museum by Mr. Arthur S. Vernay; five reels of motion picture film in natural colors from Prizma, Incorporated; one reel of motion picture film from Mrs. Keith Spalding; five reels of motion picture film of Alaska, "*Ivan the Great*," from Mr. George D. Pratt.

The exhibits of the Department of Public Health, which were developed under the direction of Honorary Curator C.-E. A. Winslow, continue to attract much attention. At the present time these collections are exhibited in the west corridor of the third floor and in the Forestry Hall, first floor, and have been placed temporarily in the Department of Public Education, in charge of Miss Mary Greig, Assistant Curator of Public Health. The permanent installation of these exhibits will be made in the large exhibition hall of the School Service Building which is now being erected. This will give for the first time adequate space in which to display these important and popular exhibits.

EDUCATION ACCESSIONS

BY GIFT

AMERICAN SOCIETY FOR THE PREVENTION OF CRUELTY TO ANIMALS, New York City.	BOYLE, MISS KATHERINE, AND MISS JEANNETTE VERMAETEN, New York City.
174 Colored slides of animals.	1 Sparrow in the flesh.
ARNOLD, MRS. HICKS, New York City.	BRIDGMAN, H. L., Brooklyn, N. Y.
1 Loon skin.	221 Lantern slides of New York, the Arctic, Antarctic, Africa and Bulgaria.
AUSTIN, CHARLES, Brooklyn, N. Y.	CANADIAN PACIFIC RAILWAY, New York City.
1 Junco in the flesh.	163 Colored slides.
BAKER, MRS. SAMUEL, New York City.	CHAPMAN, MRS. FRANK M., Englewood, N. J.
1 Mounted peacock.	11 Negatives of South America.
BALLOU, DR. W. H., New York City.	CHURCH, LOUIS P., Hudson, N. Y.
Nest of wasp from Rye, N. Y.	1 Large photograph of an iceberg.
BERMUDA TRADE DEVELOPMENT BOARD, Hamilton, Bermuda.	CORNELL, R. T., New York City.
89 Plain slides, 10 colored slides.	100 Specimens of minerals.
BEVIN, NEWTON P., Jamaica, L. I.	
6 Lantern slides, uncolored.	

- COSMOPOLITAN PRODUCTIONS, New York City (through Louis Reid).
1 Reel motion picture film of Old New York.
- FAR ROCKAWAY HIGH SCHOOL, Far Rockaway, L. I.
1 Myrtle warbler in the flesh.
- GREAT NORTHERN RAILWAY Co., New York City (through M. M. Hubbert).
11 Colored slides.
- HAASE, CHARLES, New York City.
113 Birds' eggs.
- KIRKMAN & SON, Brooklyn, N. Y.
32 Tinted slides on soap making.
- KRAUS, J. H., New York City.
3 Negatives of bed-bugs.
- LIVERMORE, JOHN W., AND MRS. JOSEPHINE, Mt. Kisco, N. Y.
21 Bird skins.
- MAMMALOGY, DEPARTMENT OF (transfer).
1 Mounted monkey.
- NEW YORK TELEPHONE Co., New York City.
32 Plain lantern slides and manuscript on "The Pathway of a Telephone Call."
- NEW YORK ZOOLOGICAL SOCIETY, New York City (transferred from Department of Mammalogy).
2 Skunks, 1 Canada lynx, 1 raccoon.
- ODDIE, JOHN, Riverside, Conn.
1 Shrew in the flesh.
- ORNITHOLOGY, DEPARTMENT OF (transfer).
1 Mounted peacock.
- PRIZMA, INC., Jersey City, N. J.
4 Reels of colored motion pictures: "The Magic Gems," "Feathers," "Seeing the Unseen," "From the Land of the Incas," 1 reel of colored motion pictures of Kilauea Volcano.
- ROSE, SIDNEY, New York City.
1 Pigeon in the flesh, 1 bat in the flesh.
- RUNKEL BROTHERS, INC., New York City (through F. W. Delany).
Exhibit of material suitable to explain process of manufacture of chocolate.
- SMITH, I. H., Yonkers, N. Y.
1 Ptarmigan.
- SPALDING, MRS. KEITH, Pasadena, Calif.
950 Feet of motion picture film, showing elephant seals at Guadalupe Island.
- THOMSON, VICTOR, New York City.
2 Downy woodpeckers.
- VERNAY, ARTHUR S., New York City.
100 Feet motion picture film of Indian tapir.
5 Negatives of Indian tapir.
- WATSON, MRS. J. HENRY, New York City.
13 Mounted birds, 1 mounted rabbit head.

BY PURCHASE

- 1 Reel film on Russia.

III. ADMINISTRATION, OPERATION AND BUILDING

GEORGE H. SHERWOOD, Acting Director

An essential part of the Museum's organization for the advancement of education is its departments for general administration. These departments may be likened to the engines of a great steamship. For the most part their labors are not performed before the public eye, but unless their component parts are maintained in good working condition, well oiled, thoroughly co-ordinated and in smooth running order, the other units cannot render efficient service. The general administration departments, constituting the service units of our organization, are rendering continuous service, not only to the scientific departments, but directly or indirectly to the public in all its contacts with the institution. Our service departments include:

The Director's office, which is responsible for the carrying out of the policies determined by the President and the Board of Trustees and for the general administration of the Museum.

The Bursar's office, in charge of Mr. F. H. Smyth, at the present time not only functioning in a purely financial capacity as the Treasurer's department of the Museum, but rendering valuable assistance in solving many of the problems of general administration.

The Registrar's office is directed by Mr. George N. Pindar, who is the keeper of the accession records, has general charge of incoming and outgoing shipments, has developed our publicity program, and has rendered valuable service both to the Trustees and to the employees in the careful and conscientious attention which he has given to the Pension Fund and to the welfare of the employees.

The office of the Superintendent of the Building, in charge of Mr. J. B. Foulke, has the stupendous task of keeping clean a great building, with miles of floor space and acres of plate glass, of adequately guarding the exhibition halls and providing for the convenience and comfort of the visiting public.

The Department of Construction and Repairs, in charge of Mr. H. F. Beers, Chief of Construction, has an enormous burden in keeping the buildings in repair and in constructing the cases and other equipment essential to the preservation of the collections and the daily requirements of the staff members.

And finally, the Department of Heating and Lighting, at the head of which is Mr. H. J. Langham, Chief Engineer, which not only provides the heat and light for the entire building, but does all of the repair work in the heating and lighting system of the building and provides the electrical and other mechanical installations that are required for the proper illumination of our exhibition halls and special exhibits.

It is through the close coöperation of these six departments that it is possible to operate this great institution with a relatively small force and with our present efficiency. The Acting Director wishes to express his appreciation of the cordial support which he has had from all members of these departments and of the splendid team work that has been such an important factor in producing the results of the year.

The Acting Director is also charged with the general responsibility of the scientific administration, as distinguished from the purely building administration. In this capacity, he has had the most cordial support of Honorary Director Lucas, of Assistant Director Murphy and of Assistant Director Clark.

At the beginning of the year, Doctor Frederic A. Lucas was relieved of the heavy burden of general administration and was appointed to the post of Honorary Director, in order that he might have an opportunity to devote all his energies to the general supervision and completion of some of the most important exhibition halls in the Museum, namely, the Hall of Primates, the Synoptic Hall of Mammals, and the new Hall of Ocean Life, for which his long experience in Museum work and his wide acquaintance with the particular subjects eminently qualify him. In addition to this, Doctor Lucas has taken immediate charge of the Jesup Collection of North American Woods and has devoted a great deal of attention to the labeling in the halls and to the development of our popular publications. At the same time he has greatly assisted the Acting Director with advice in many problems of general administration. The report on these branches of the Museum's work during the past year is contained in the following extract of the report prepared by the Honorary Director:

"The Modern Museum is not a mere storehouse of material for the benefit of a few; it is a great educational institution for the public—the people's university. This purpose was recognized

by the Founders of The American Museum of Natural History at a time when museums were considered as mainly for the benefit of men of science, and, were the motto of the museum slightly expanded, it might well read 'for the education of the people and the furtherance of science.' While museum reports are necessarily brief and largely records of additions to the collections, the work of expeditions and the results of the study of material thus obtained, yet these records note the increase in the educational equipment of the institution.

"The first item, Attendance, is a record of the numbers who have availed themselves of the educational opportunities offered by the museum, and to a great extent a test of whether or not these opportunities have been presented in such manner as to render them attractive to the public. The comparative attendance during the past few years is as follows:

STATISTICS OF NUMBERS REACHED BY THE MUSEUM AND ITS EXTENSION EDUCATIONAL SYSTEM					
	1920	1921	1922	1923	1924
Board of Education Lectures.....	17,632	27,362	16,711	18,917	26,484
Lectures to School Children and classes visiting the Museum for Study.....	57,627	51,133	118,651	134,669	139,433
Meetings of Scientific Societies and Other Meetings and Lectures.	25,491	34,206	17,610	31,734	22,637
Total.....	100,750	112,701	152,972	185,320	188,554
Attendance in Exhibition Halls.....	937,265	1,061,696	1,156,884	1,246,402	1,445,289
Total attendance for all Pur- poses.....	1,038,015	1,174,397	1,309,856	1,431,722	1,633,843
Lectures to Pupils in Local Centers..	33,761	30,750	58,647	22,598	24,792
Number reached by Motion Picture Service.....				85,302	115,849
Number reached by Lantern Slide Service.....			2,582,585	3,839,283	5,407,525
Numbers reached by Circulating Collections.....	1,312,487	1,247,515	1,648,608	1,491,021	1,247,914
Grand Total.....	2,384,263	2,452,662	5,599,696	6,869,926	8,429,923

"The 'popular publications,' in distinction from the scientific, are intended for the visitor; that they are looked upon as educational is shown by the demand for them for use as Publications text-books. There were sold during the past nine months 5,251 copies of the *General Guide*, and 2,747 copies of *An Hour in the Museum*; 1,487 *Handbooks* were sold to visitors and 1,122 sold through the Library, while visitors purchased 7,108 *Guide Leaflets* and 715 were sold by the Library; the sales of reprints were 1,590 copies, 87 of which were sold through the Library. The aggregate of these sales, exclusive of *An Hour in the Museum*, which is little more than an index to the contents of

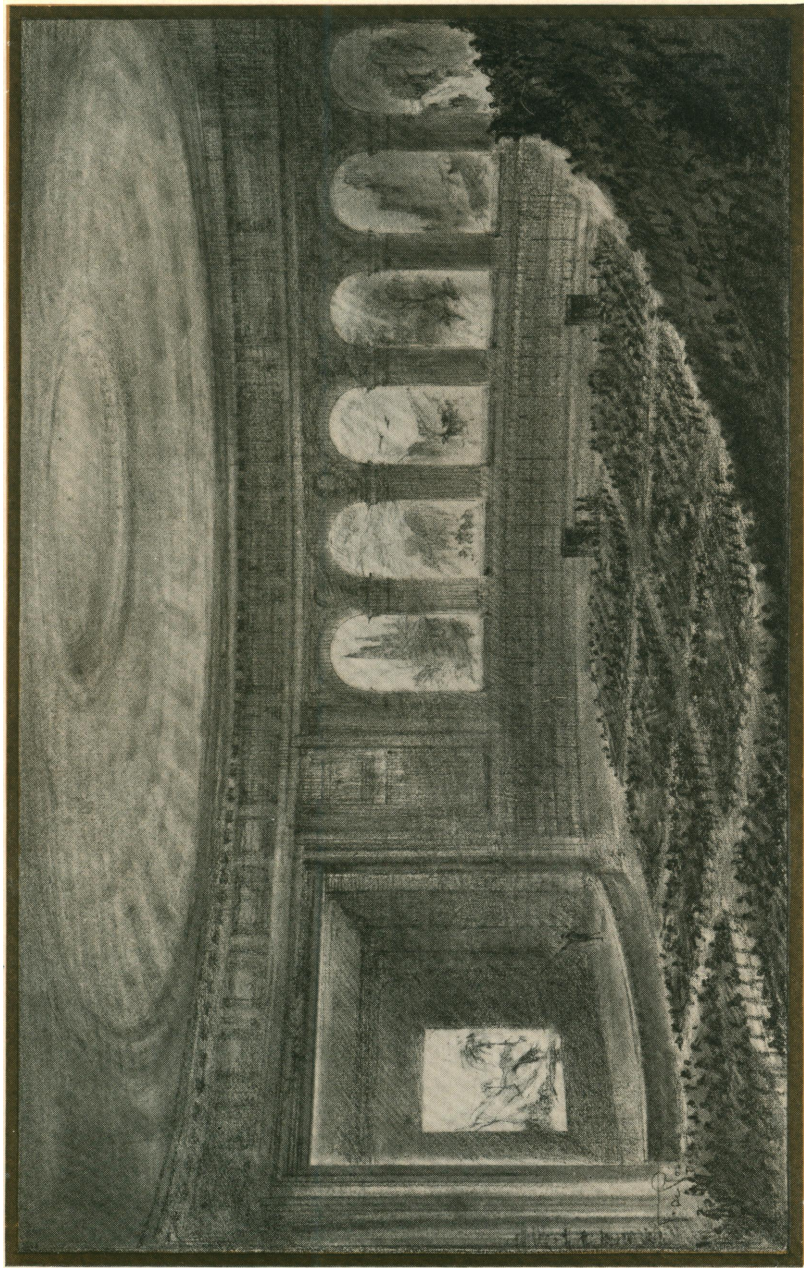
the halls, was 17,273 copies, as against a total of 14,400 for 1923. The following were added to the series of popular publications during the year: *Handbook* No. 10, 'The Indians of the Northwest Coast,' *Guide Leaflets* Nos. 59 and 60, 'The Preparation of Rough Skeletons' and 'The Story of the Yosemite Valley'; and reprint, 'Seasonal Records of Geologic Time.' The demand for this is such that it will later be issued as a leaflet.

"By far the most popular leaflet is 'The Hall of the Age of Man,' which, owing to the demand for it, went out of print in October after a sale of over 1,500 copies. It is interesting to note that next to this the leaflet most in favor is 'The Geology of New York City and Vicinity,' 700 copies of which were sold in eight months, again exhausting the edition.

"Exhibits, with their accompanying labels, are for the purpose of placing information before the public, and while Dr. Goode is quoted as having defined a museum as a collection of Exhibits labels illustrated by specimens, yet if the exhibits do not attract the visitor or arouse his interest, the labels will not be read; hence the necessity of having exhibits that appeal to the public.

"The principal progress in the exhibits in the immediate charge of the Honorary Director has been in the Trees of North America Exhibition which had been practically at a standstill since the loss of Miss Dickerson. Here good progress has been made in the replacement of the old labels by those of the standard type; a number of general descriptive labels have been added, and a relief map showing the forest areas of North America placed near the entrance. The transparencies portraying unusually fine examples of some native trees have been moved to alcoves where they would be near the specimens to which they relate and new labels supplied.

"The most noticeable additions are the sprays of foliage prepared by Mr. Narahara, eight of which have been put on exhibition during the year, while improvements have been made in the display of those already on exhibition. Preference has been given to samples of brilliant autumn foliage, as these do much to beautify the hall; the characteristic shape of the leaf is retained and the element of color added.



Troubridge & Livingston, Architects

PROJECTED LECTURE AMPHITHEATER

Essential to Accommodate the Museum's Increasing Lecture Service to the Community. Seating Capacity 3,800

"The labels on Climate and History prepared by Ellsworth Huntington have been read and copied to such an extent that they have been included in the new edition of 'The Big Tree and Its Story.' The extent to which they are read and copied is a good reply to the fallacious statement that visitors will not read long labels; it depends on the interest of the object and the style of the label, the writing of museum labels being a special and somewhat neglected branch of literature. Much, too, depends on the legibility of the label and its position—visitors do not like to kneel or to stand on tip-toe to read a label.

"The most constantly and carefully read labels in the Museum are the general label on meteorites and that on the Willamette meteorite, and if one has doubts as to whether labels are read, he is recommended to sit in the Memorial Hall a while and watch the visitors.

"In this connection it may be noted that about 20,000 copies of somewhat lengthy descriptive labels for visitors to take away have been printed and taken. Naturally, these have not all been taken by seekers after knowledge, but so far as can be judged, the waste has been small.

"Owing to existing conditions, it has been possible to do but little in the Halls of Primates and Mammals, save to add a few maps and labels, and while material for a group of Nilgiri Langurs has been secured through the courtesy of the Director (Superintendent) of the Trivandrum Museum, it has not been feasible to mount them.

"In the Hall of Mammals, the Family Tree of Mammals has borne fruit in the shape of specimens and labels, a few lacking representatives of families have been supplied, and a series of models, prepared under the direction of Doctor Gregory, illustrating the development of the skull, added to the Characters of Mammals.

"The special guide leaflet to this hall issued last year has been fairly successful, having had a sale of 500 copies.

"The introduction in the Hall of Mammals of rare or peculiar species, including striking examples of some of the families, is partly or largely for the purpose of arousing the interest of the visitor with no set purpose—and this probably includes the

majority of visitors—and of inducing him to learn something more about the objects shown. For this average visitor does not come to the museum to study, but for what John Edward Gray termed ‘rational amusement,’ and one of the great problems of modern museums is to see that in getting this he gets some information as well.

“Other slight improvements have been the revision and re-labeling of the map giving the distribution of the American Bison in order to bring it up to date and to show the pleasing increase in the numbers of this animal and the location of the additional herds that have been established.

“The display of the smaller breeds of dogs and other domesticated animals has been rearranged and labels supplied wherever needed.”

WOODS AND FORESTRY ACCESSIONS

BY GIFT

- | | |
|---|---|
| CLEAVES, HOWARD H., Clarksburg,
W. Va. | WILKINS, H. A., New York City. |
| 1 Small trunk of black birch dis-
figured and impeded in growth
by climbing vine (bittersweet).
Collected at Oscawana Lake,
N. Y. | 1 Trunk of hickory containing a
horseshoe completely buried. |
| | STEHRNO, ADOLF, Corona, L. I. |
| | 4 Mushrooms (<i>Polyporus frondosus</i>)
from Hunter's Island, N. Y. |

ART ACCESSIONS

BY GIFT

- | | |
|---|--|
| ANONYMOUS (through Zarh H. Prit-
chard, New York City). | NATHAN, MISS EMILY S., N. Y. City. |
| Painting, “Diver Entering a Coral
Cave,” by Zarh H. Pritchard. | Photograph and letter of Paul Du
Chaillu. |
| CUYLER, MRS. T. DEWITT, Bryn
Mawr, Pa. | STEWART, MRS. JOHN WOOD, New
York City. |
| Portrait of Morris K. Jesup. | Painting, “Coral Garden,” by Zarh
H. Pritchard. |

SPECIAL ACCESSIONS

BY GIFT

- | | |
|---|---|
| BAERMAN, FREEMAN D., Dunellen,
N. J. | Flag carried by John James Audu-
bon on his expedition to Labrador
in 1833, and hat worn on jour-
ney to Upper Missouri in 1843,
with case. |
| 2 Houdan fowls (for mounting). | |
| TYLER, MRS. M. F., New Haven,
Conn. | |

No service department of the Museum is of greater importance in the relation of the Museum to the public than that of Preparation. No matter how faithfully the Scientific Staff may labor, or how interesting and important may be the results of their researches, unless these results are presented in visual form, in a beautiful and attractive and at the same time truthful manner, the Museum falls short of performing its educational function effectively. It is the Department of Preparation that must supply the skill and artistic taste which will produce these results.

Realizing the importance of this phase of Museum activity, the Trustees in 1923 engaged Mr. James L. Clark to undertake the direction of this work. Mr. Clark was faced with the difficult problem of training a staff of technical assistants who could produce work which would be accepted as American Museum standard. His problem was doubly difficult because few young men have been trained in the modern methods of taxidermy, and in looking over the field it was found that few were desirous of entering this profession. After a careful study of the situation, it was decided that the most practical solution of the problem was to engage young men who seemed to possess talents which would fit them for this calling and train them for the work in hand. It is on this principle that Mr. Clark has been working during the year 1924. Several young men of this type have been added to his staff and are showing much promise for the future. In preparation, the year 1924 must be looked upon principally as a period of formation and organization. A survey of the year's production, however, shows satisfactory results and is indicative of what may be done when a permanent organization has been established.

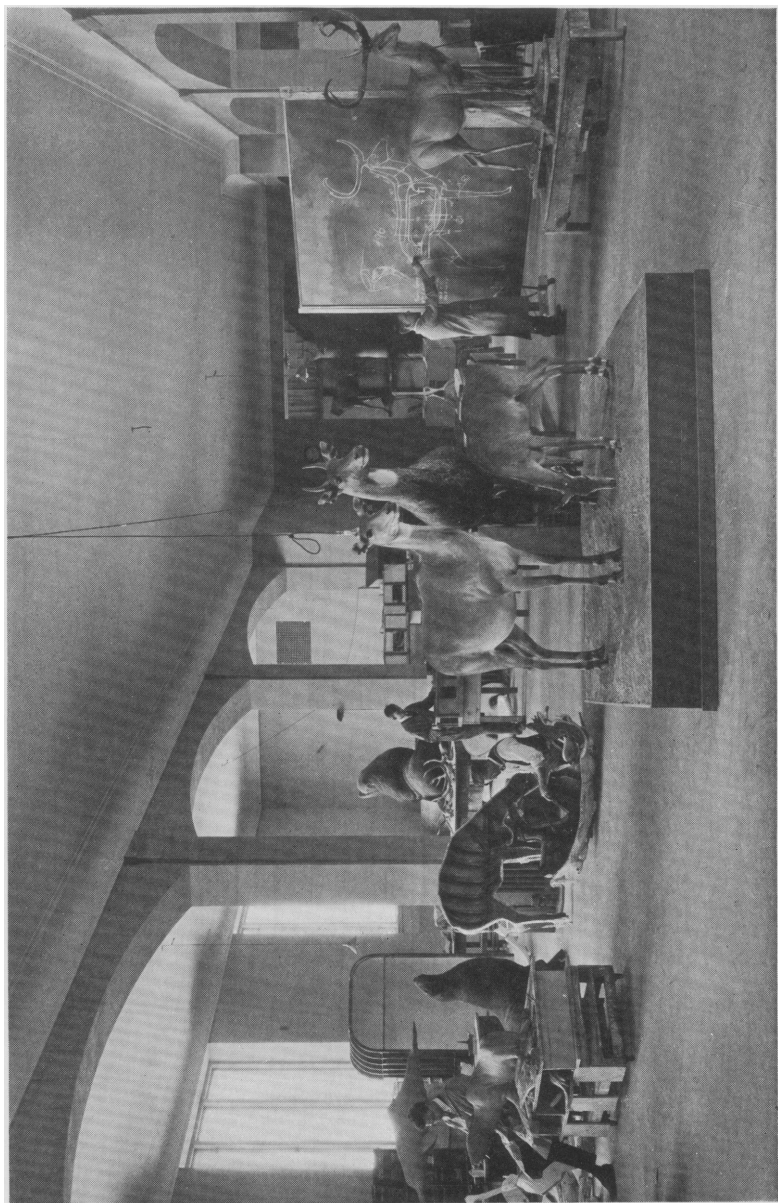
Preparation is a service department, and practically every department in the Museum has received a share of its service during the past year. A considerable number of new exhibits, especially those for the new building, are in hand, and attention is called at this time only to the major pieces of work that have been completed during the year. In Anthropology, four of the Indian groups have been completed or remodeled, including the Navajo Group, recently opened to the public; for Comparative Anatomy, a "Family Tree

of Man," illustrating the relationship of man to the higher primates, has been completed and duplicated for sale to other institutions; five habitat groups of insects have been prepared for the Department of Entomology, including one of the Japanese beetle, which recently created such havoc in the apple and peach orchards of New Jersey; three groups have been added to the reptile collections; three models of sharks and one skate have been prepared for the Department of Fishes; three groups are in preparation for the Department of Birds, including the mounting of birds to illustrate flight; eight leaf sprays have been added to the forestry collection; for the Department of Mammals, the Nilgai Group, collected by the Faunthorpe-Vernay Indian Expedition, and the Mole Group have been completed, also models of the North American Hall and the models for the Elephant Seal and Sea Lion Groups. The mere catalogue of the work now in progress in the Preparation Department is too long for insertion in this report.

With the completion of the Asiatic section, it was practicable to assign the second floor to the Department of Preparation as a temporary studio. This greatly relieved the cramped quarters in which Mr. Clark had been forced to carry on his work and enabled him to make more rapid progress in preparation.

In the earlier part of the year, Mr. Akeley applied himself to the completion of the three models to be cast in bronze, comprising the Lion-Spearing Group. These sculptures, which depict one of the most dramatic incidents of African life, are executed with Mr. Akeley's recognized skill in animal sculpture and will make most striking figures at the entrance of the future African Hall. Progress has also been made on two groups for the African Hall. Mr. Akeley has nearly completed the mounting of the specimens for the Gorilla Group, has begun the preparation of the Lion Group and has the models of the big male and female well toward completion.

The activities of the Registrar's department, which include the recording and cataloguing of accessions, invoices, shipping in all its ramifications of export and import, pension work, health and welfare of employees, and the important contact with the public through publicity, are covered in the following extract from the Registrar's report:



DEPARTMENT OF PREPARATION
The preparation studio in the new Asiatic Hall

"This important part of the work may well be considered as a barometer of the public's interest in the Museum, and this year indicates that not only has the Museum retained the interest of its many friends, but has added to them a very substantial number. During the year there were received 892 accessions, as follows: By gift, 648; by exchange, 73; by expedition, 71; by purchase, 90; by transfer, 10.

"The actual number of specimens contained in the above list, when entirely catalogued, will be upwards of 500,000. A detailed list of all the material received is given in the reports of the scientific departments.

"Under this heading is recounted the work of three individuals who, through coöperation, have expedited the receipt and transmittal of the thousands of packages and boxes received during the year. In the packing room, 288 individual shipments, comprising 425 packages and boxes of all sizes and weights, were made ready for shipment to our correspondents, and in this same division, one of our employees, as a part of his work, collected freight and specimens by automobile, visiting 670 places of business.

"In the shipping division, a general survey will serve as an indication of what has transpired in the institution as a whole. During the year, 3,442 separate shipments were received and sent out. The number of items contained in the shipments amounted to 12,418.

"We have no hesitancy, in commenting upon the work of this division, in making the general statement that there is no other department in the Museum where a greater degree of patience is required, for in this work we have to deal with the critical news gatherer and the, at times, not too reasonable scientist. The reading public, as a whole, eagerly absorbs news matter described in an easy style, and is prone to pass over those articles of a highly technical nature. Happily the heads of our scientific divisions are giving their unrestricted efforts to aid those charged with the collection of news bearing upon scientific topics. Through their coöperation, there is maintained at the present time cordial working relations with the news agencies in this great metropolitan district.

“During the year there were sent out forty-five press bulletins; sixty-three writers on scientific subjects were aided and directed to sources of information, and 169 agencies and individuals were supplied with photographs. It is a pleasure to record that the foreign press is equally desirous of using the material sent out from this division.

“In addition to this feature of our publicity work, another has arisen which is of increasing interest and popularity, namely, our contact with broadcasting stations. Through the courtesy of the American Telephone & Telegraph Company and the Radio Corporation of America, this comparatively new phase of our publicity work is coming to be acknowledged as the most direct form of conveying to millions of radio ‘listeners-in’ what the Museum has to give to the public. There are thousands of school children who annually visit the Museum to look at screen pictures, as a part of our visual instruction work, but there are undoubtedly millions who have listened to the interesting radio educational talks and word pictures given in the main by the various lecturers in the Department of Public Education, and by the curators of the Scientific Departments. At the present time we have entered into mutually advantageous working relations with a broadcasting station so that it is now possible to broadcast at least once a week. Acknowledgment of these lectures is received in letters addressed to the speakers, and by these acknowledgments is to be judged the worth of the work. It is our prediction that, were it possible to install a broadcasting device in the Museum so that our Curators and other scientists could more readily send out to the world at large new and interesting information concerning the work and recent events, this form of news distribution would be highly appreciated by the world.

More and more the Museum is becoming the headquarters for meetings of scientific societies and other organizations whose work

is germane to the aims and purposes of the institution.
Hospitality to Societies Thus, during the year 1924, the Museum has extended the facilities of its auditorium and other halls to the following educational and scientific organizations:

American Ethnological Society.

American Indian Defense Association, Inc.

American Scenic and Historic Preservation Society.

Aquarium Society.
Board of Education, City of New York (Public Health Service).
Boy Scouts of America.
Camp Fire Girls.
City Gardens Club, Inc.
City History Club of New York.
Colorado Cliff Dwellings Association, New York State
Chapter.
Columbia University (Classes).
Galton Society of New York.
Girl Scouts, Inc.
Home Travelers.
Horticultural Society of New York, Inc.
John Burroughs Memorial Association.
Keramic Society and Design Guild of New York.
Legislative Committee for the Preservation of Wild Flowers.
Linguistic Society of America.
Linnæan Society of New York.
National Association of Audubon Societies.
National Plant, Flower and Fruit Guild.
National Research Council.
New York Academy of Sciences.
New York Association of Biology Teachers.
New York Bird and Tree Club.
New York City Federation of Women's Clubs.
New York Entomological Society.
New York Microscopical Society.
New York Mineralogical Club.
Physical Education Society of New York and Vicinity (Board
of Education Annex).
Public Lecture Association.
Roosevelt Memorial Commission of the State of New York.
School Garden Association of New York.
School Nature League.
Self Improvement Society.
Torrey Botanical Club.
Visual Instruction Association of America, New York Chapter.
Woodcraft League of America, Inc.

The daily routine in the care and custody of the building is always a heavy tax upon the time and energy of the staff of this department. In addition to this regular service, Mr. Foulke and his assistants have met many extra demands upon them. The labor involved in the moving of the exhibits from the old halls to the new building and the consequent rearrangement of the exhibits in several of the existing halls, together with the large increase in cleaning, as a result of the various building alterations and additions that have been in progress, have added to the burdens of Mr. Foulke's department. In every instance, however, he and his staff members have met the new problems with customary cheerfulness and loyal hearty service. The transfer to the new buildings has been greatly facilitated by the acquisition of an electric motor truck, provided through the generosity of Mr. Childs Frick. Not only has this truck proven its value in the moving of the collections, but it is daily demonstrating its usefulness in many other ways. Mr. Foulke has introduced new methods in caring for the halls and in keeping the building clean, and has reorganized his force, thus improving its efficiency and assuring to the men the best consideration possible under existing conditions.

CONSTRUCTION

The year 1924 will go down in our records as a period of great building activity. This applies to the construction of new buildings, the improvement of equipment in the existing sections, and the development of plans for future buildings. This building program has been provided for mainly by City appropriations. In this connection, we cannot speak too highly of the generous and sympathetic support and intelligent consideration which the Museum's needs have received from the members of the Board of Estimate and Apportionment, the Park Department, the Finance Department, the Department of Water Supply, Gas and Electricity, the Building Department, the Law Department and all other branches of the City with which we have had occasion to come in contact. The officers of these departments have not co-operated in a merely perfunctory manner, but have been most helpful with advice and suggestions, which have aided greatly in solving the complex problems with which we have been confronted.



THE ASIATIC HALL
THE NEW SOUTHEAST WING (SECTION 9)
Erected by the City of New York. Completed 1924

We are deeply appreciative of this friendly attitude and feel that it is an expression of the belief, on the part of City officials, that the Museum is rendering a really valuable service to the community.

The building project of greatest immediate concern to the Museum is that of the Asiatic Hall and Hall of Ocean Life. As an-

Asiatic Hall and
Hall of Ocean
Life

nounced in an earlier report, these two buildings, constituting the first section of the East Façade and the great building immediately behind it in the court, were authorized by the Board of Estimate and Apportionment by an appropriation of \$1,500,000, made on December 28, 1921. The work of construction began on October 4, 1922, and was finished on October 28, 1924. The work of the general contractor, James Stewart and Company, is of a very high order, and we believe that these two buildings are of better construction than any in the Museum group. The buildings were formally turned over to the Trustees on November 10, 1924, and at once the transfer of the collections, which had been waiting for so many years, was begun. Although these new halls were merely shells and must await equipment with cases, they provided immediate relief for several of our greatly congested exhibition halls. The lighting fixtures were not included in the general contract, and plans and specifications for them have been prepared by the Department of Water Supply, Gas and Electricity. In mid-summer the Board of Estimate and Apportionment set aside the unused balance of the construction fund, amounting to \$247,142.99, for case construction and equipment in the new buildings, and considerable progress has been made in this construction, which is being performed by the mechanical force of the Museum.

The second big construction project is the erection of the School Service Building and the construction of the Intercommunicating

School Service
Building and
Intercommunicat-
ing Passageways

Passageways, connecting the Southeast Court, the Southwest Court and the Service Roadway. For this purpose, the Board of Estimate and Apportionment has provided the sum of \$733,800. The general contract for this building was awarded to Lustig and Weil, who began work on September 15, 1924. Thanks to the unprecedented fair weather of the fall, the entire excavation was completed in five weeks and the erection of the steel was begun before the year closed. With the completion of this building, which it is hoped will not be more

than twelve months distant, the Museum for the first time will possess adequate facilities for housing its school service activities.

One of the lesser construction projects is the erection of two new dynamos to augment the present lighting system of the building.

Dynamos The original appropriation for these dynamos was inadequate, and on August 14, 1924, the Board of Estimate and Apportionment appropriated an additional \$10,000 for this purpose, making a total of \$53,000. The contract for these dynamos has been awarded, and arrangements have been completed with the contractors whereby the installation will be made in May, 1925, so as to interfere as little as possible with the use of our auditorium for lecture purposes.

The contract for the replacement of the hydraulic elevators in the existing building, which had been in continuous service for more than forty years, was awarded in the latter part of 1923, and the contractor began work early in March.

New Elevators He was confronted with the difficult problem of keeping one of the elevators in operation while the replacement of the other was going on, and the work, for various reasons, has progressed so slowly that at the close of the year only one had been completed and this was operating with temporary machinery. It is probable that the second elevator will be completed early in the year.

The construction and mechanical forces of the Museum have produced an unusual number of cases for exhibits and for the care of study collections, have constructed new store rooms and galleries, and have completed a considerable amount of general repairs, including the repointing of the stone work along the entire street front of the existing building, replacement of the window sash in the north bird hall, and repairs to the roof. These alterations and constructions within the existing building have done much to relieve the serious congestion resulting from the wealth of collections that are being made by our various expeditions. Making room for these collections and properly caring for them have taxed the ingenuity of our staff and led to the salvaging of a considerable amount of otherwise waste space in attics and corridors of the building. In practically every instance the space salvaged has been acquired at a remarkably low cost figure.

I feel that we are justified in pointing with pride to this record of the work accomplished by our own men, which, while of the highest character, has been produced at much less cost than could have been done elsewhere. This satisfactory result is due, in large measure, to the effective manner in which Mr. Beers, as Chief of Construction, and Mr. Langham, as Chief Engineer, have planned the work in their respective departments and to the faithful service of our employees.

The School Service Building is Section 11 of the building program approved by the Trustees for the completed building. There are still five sections to be provided for. The first of these, Section 12, the Roosevelt Memorial, has been taken over by the State of New York and is estimated to cost \$2,500,000. During the year, considerable progress has been made on the preparation of studies and plans for Section 13, the African Hall; Section 7, the new Astronomic Hall; Section 14, the Mexican and Central American Hall; Section 15, the Australian Hall, and Section 16, the Lecture Amphitheater.

The African Hall, which will adjoin the Roosevelt Memorial Hall on the west, has been projected after plans prepared by Mr. Carl E. Akeley. The principal feature of this building will be the African Hall, which will be located on the second floor, with the third floor constituting a gallery to this hall. In this hall will be placed great habitat groups, representing the faunal life of the African continent, while similar groups will occupy the gallery. The fourth floor of this section will probably be given over to exhibits of economic geology, which will connect through the corridor around the central section (Astronomic Hall) with the Hall of Geology in the north wing. It is hoped that the erection of this section may be provided for in the near future.

For many years, President Osborn has had in mind the erection of a building in which could be displayed the marvelous discoveries made by the great astronomical observatories of the country and thus popularize a subject that is of universal interest. With this idea in mind, under his direction, the Architects have prepared preliminary studies for a great central hall to occupy the site of the present auditorium. The first floor of this building will be reserved for the display of the

Plans for
New Sections

African
Hall

Astronomic
Hall

Museum's collection of meteorites and other astronomic phenomena. The hall on the second floor is designed to extend up through the third floor and will provide a space for astronomic models and other physical exhibits illustrating this science. The principal feature of the building will be the Astronomic Hall proper, which will extend from the fourth floor up through the fifth and sixth floors and will have a domed ceiling representing the sky. Here will be displayed the transparencies of the heavenly bodies, including photographs of the solar eclipses, the moon, the stars and the constellations, as seen through the telescopes of the great observatories.

Under the direction of Mr. Clarence L. Hay, Chairman of a Special Committee for the Mexican and Central American Hall, plans are in preparation for the central section of the West Façade, which is to be known as the Mexican and Central American Hall. This entire section will be given over to the exhibition of anthropological collections. The second floor is designated specifically the Maya Hall and will contain the fine collection of stelæ, altars and other casts of great monoliths, as well as the original sculptures and the cases of smaller specimens illustrative of this remarkable civilization of Yucatan and Guatemala. Mr. Hay's plan provides for six small rooms in the corners of this great hall, devoted to the respective sites of Quirigua and Copan, Palenque, Chichen-Itza, and Minor Maya Cities, and to panoramas of the main ruins at Chichen-Itza and Palenque. The third floor, which will constitute a gallery to the main hall, thus making it possible to exhibit the tall stelæ in their majestic proportions, will contain the Central American collections, especially the great Minor C. Keith Collection from Costa Rica. The ground floor will be devoted to the Aztec and other Mexican cultures.

The final section of the projected buildings will be the large amphitheater, to be erected to the north of the Astronomic Hall. This will have a seating capacity of from 3,800 to 4,000. Provision for this erection looks forward to the day when this magnificent building will become a great community center for the west side of the City and will provide ample accommodations for other public gatherings which will advance the interests of the City.

IV. FINANCIAL ADMINISTRATION

GEORGE F. BAKER, JR., Treasurer

There has been no change in the methods of handling the finances of the Museum, and as has been the custom for many years the transactions are recorded in a number of independent and separate accounts. Such a procedure is desirable especially because at any time we wish to be in a position in which we can readily show the actual disbursements of the various sums received, which are restricted in their use, for example, the moneys received from the City for maintenance are disbursed through an account separate from all other accounts. The Morris K. Jesup Fund income, which is intended for scientific work only and is so restricted that it cannot be used for maintenance, is recorded in a separate account. The details of the several accounts will be found in the formal Treasurer's Report. Such a report, however, does not give a summary statement of the expenditures of the Museum for its several activities.

During the year 1924, the Museum received for operation, from the Endowment and other sources, \$895,459.73, and from the Income City of New York, \$342,320.28, making a total of 1924 \$1,237,780.01. The principal sources of this income are:

City appropriation for maintenance....	\$342,320.28
Income on invested funds.....	542,899.99
Personal contributions of Trustees.....	123,783.96
Contributions for specific purposes (Members).....	110,622.58
Membership Subscriptions, Sales, etc..	65,110.99
Trustees' Building Fund.....	53,042.21
	<hr/>
	\$1,237,780.01

The regular income was augmented in 1924 by two special contributions from Members. The first was for the continuation of the work of the Third Asiatic Expedition for the next five years, and the second for the Emergency Preparation and Exhibition work in connection with the occupancy of the two new buildings.

Following are the lists of the subscriptions received.

The Third Asiatic Expedition Fund

Achelis, Fritz.....	\$50.00	Colgate, Sidney M.....	1,000.00
American Museum of Natural History.....	5,000.00	Collins, P. D.....	10.00
Appleby, Mrs. John S.....	25.00	Congdon, Walter B.....	50.00
Armstrong, E. J.....	50.00	Covell, Henry H.....	500.00
Asia Publishing Company.....	6,000.00	Crabbe, Louise G.....	10.00
Baker, Carrie Ethel.....	5.00	Crane, Henry M.....	100.00
Baker, George F.....	5,000.00	Crocker, W. T.....	25.00
Bamberger, Louis.....	200.00	Crosby, Albert H.....	20.00
Barbour, J. E.....	250.00	Cullinan, J. S.....	100.00
Barr, James H.....	100.00	Curtiss, Franklin.....	5.00
Barron, George D.....	15.00	Darlington, Mary O'Hara.....	100.00
Barton, Mrs. F. O.....	15.00	Davenport, Elizabeth B.....	5.00
Battle, George Gordon.....	10.00	Davis, Waters S.....	10.00
Beckwith, Mrs. Daniel.....	200.00	Davison, Henry P. (Estate of).....	2,000.00
Beller, William F.....	10.00	Day, Richard H.....	25.00
Bernheim, Henry J.....	100.00	Dederer, Pauline H.....	2.00
Bernheimer, Mr. and Mrs. Charles L.....	500.00	Deppe, William P.....	5.00
Bevin, Mrs. A. Avery.....	25.00	Dewey, Charles A.....	50.00
Bigelow, W. S.....	200.00	Dodge, Cleveland H.....	500.00
Bill, Edward Lyman.....	25.00	DuBois, Ethel.....	20.00
Blackmer, James L.....	100.00	Dunbar, F. L.....	50.00
Bliss, Elizabeth B.....	5.00	Easton, Kimball G.....	5.00
Bolton, Charles C.....	100.00	Edwards, Elizabeth S.....	25.00
Brodman, Henry.....	5.00	Elsberg, H. A.....	10.00
Brokaw, George T.....	100.00	Emerson, Mrs. Edward W.....	10.00
Cannon, Gabriel.....	10.00	Emerson, Julia T.....	10.00
Carden, George A.....	5.00	Erbsloh, R.....	10.00
Carpenter, C. L.....	50.00	Farrell, Thomas G.....	3.00
Casey, Edward P.....	10.00	Farrington, R. I.....	100.00
Chamberlain, George A.....	50.00	Ferguson, Eleanor.....	10.00
Chandler, W. F.....	200.00	Field Museum of Natural History.....	5,000.00
Chapin, Cornelia Van A.....	20.00	FitzGerald, Desmond.....	10.00
Cheney, Mary.....	100.00	Fordyce, George L.....	5.00
Cheney, Paul H.....	100.00	Foulk, Theo.....	50.00
Chubb, Percy.....	100.00	Fox, Noel Bleecker.....	5.00
Church, E. D.....	50.00	Francklyn, Mrs. Cyril.....	15.00
Clark, Ella Mabel.....	50.00	Fraser, George C.....	150.00
Colburn, Louise H.....	10.00	Frick, Childs.....	1,500.00
Cole, Harry N.....	1.00	Frissell, A. S.....	20.00
Colgate, Austin.....	5,000.00	Fuguet, Howard.....	3,000.00
Colgate, Henry A.....	200.00	Fulton, William E.....	50.00
Colgate, Russell.....	100.00	Gage, Simon H.....	10.00
		Gale, Mrs. Charles W.....	5.00

Subscriptions to the Third Asiatic Expedition Fund

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Garrett, John W.	100.00	Milliken, Arthur N.	50.00
Gates, Thomas S.	500.00	Monæ-Lesser, Adolph.	25.00
Gilbert, Mrs. Frederick M.	5.00	Moore, Mrs. Benjamin.	25.00
Goodenough, Robert J.	25.00	Moore, Miss K. T.	25.00
Goss, George A.	25.00	Morgan, J. P.	7,500.00
Grew, Joseph C.	50.00	Morris, Ira N.	300.00
Grossmann, Mrs. Edward A.	3.00	Morris, Lewis R.	100.00
Haldt, Harry Peale.	5.00	Morse, Mrs. Jay C.	500.00
Halsey, Harold V. W.	10.00	Mosman, P. A.	10.00
Hardee, N. A.	25.00	Mott, Mrs. John B.	50.00
Harriman, E. Roland.	100.00	Nettleton, Charles H.	10.00
Harriman, William Averell.	250.00	Newbold, Arthur.	500.00
Hencken, Hancke.	50.00	Notman, George.	100.00
Hidden, Walter.	50.00	Olmstead, Mrs. J. C.	10.00
Hoe, Mrs. Annie L.	50.00	Openhym, George J.	25.00
Holden, Guerdon S.	500.00	Osborn, Mrs. Henry Fairfield. .	100.00
Hollingshead, George G.	10.00	Osborne, Arthur A.	5.00
Holmes, Charles L.	10.00	Osterhout, George B.	5.00
Holmes, Walter W.	50.00	Peabody, Endicott.	100.00
Holt, George C.	10.00	Pedersen, James.	10.00
Houghton, Clement S.	50.00	Peskind, Arnold.	10.00
Hunter, Roland Jackson.	10.00	Peter, Armistead, 3d.	10.00
Irish, F. C.	10.00	Peter, Mrs. Armistead, 3d.	10.00
Jacoby, Henry S.	5.00	Peters, Alice R.	25.00
James, Arthur Curtiss.	1,000.00	Peters, Isabel M.	10.00
Kachurin, Philip.	5.00	Philipp, P. B.	50.00
Keen, W. W.	25.00	Pierrepont, Julia J.	25.00
Kellogg, J. H.	25.00	Pomeroy, Katherine.	50.00
Kemeys, Walter S.	50.00	Post, Abram S.	10.00
Kern, William M.	10.00	Pratt, Mr. and Mrs. John T. .	300.00
Kirkham, William B.	10.00	Prizer, Edward.	50.00
Kridel, Alexander H.	20.00	Pulitzer, Ralph.	100.00
Lacombe, E. Henry.	10.00	Putnam, Helen C.	25.00
Lamont, T. W.	250.00	Raisler, Samuel.	10.00
Landon, Francis G.	50.00	Ramsey, W. E.	5.00
Logan Museum, Beloit College. .	1,000.00	Ramsperger, H. G.	2.00
Ludlum, Clarence A.	25.00	Raymond, R. O.	5.00
Mack, Arthur J.	10.00	Riegger, Arnold F.	10.00
Mackey, Clarence H.	500.00	Robbins, Chandler.	100.00
MacMurray, C. F.	25.00	Robinson, Mrs. C. L. F.	10.00
Manierre, Charles E.	5.00	Rockefeller, John D., Jr.	7,500.00
Marsh, George E.	3.00	Rogers, Saul E.	50.00
Masson, John G.	5.00	Rosenberg, Max L.	100.00
McClintock, Gilbert S.	100.00	Ryerson, Mrs. Arthur.	500.00
McCrea, W. S.	15.00	Sargent, Homer E.	100.00
McGraw, Arthur B.	25.00	Sarmiento, Mrs. F. J.	100.00
McGregor, Tracy W.	25.00	Satterlee, Mrs. Herbert L.	50.00
Meyers, Wallace E.	10.00	Schniewind, Ewald H.	20.00

Scholle, Howard A.....	10.00	Titus, George F.....	25.00
Schwarz, Emilie E.....	50.00	Ulmann, Carl J.....	50.00
Scotfield, Archibald T.....	50.00	Veltin School, The.....	10.00
Scrymser, Mrs. James A.....	100.00	Vogel, Fred, Jr.....	25.00
Scudder, Hewlett.....	25.00	Voigtlander, George.....	5.00
Sheffield, George St. John.....	25.00	Weigert, Hugo.....	10.00
Simpson, Jean W.....	25.00	Welcher, Alice L.....	25.00
Skeel, Mary A.....	10.00	Welcher, Amy Ogden.....	10.00
Skeel, Mrs. Roswell, Jr.....	50.00	Westervelt, W. D.....	10.00
Smith, Albert Ernest.....	25.00	Wherry, William B.....	10.00
Smith, F, Drexel.....	5.00	White, Rev. and Mrs. Eliot...	5.00
Smith, Harriet Otis.....	5.00	White, Ralston.....	5.00
Smith, W. Henckle.....	25.00	Whitnall, Harold O.....	10.00
Snell, Francis A.....	5.00	Whitney, Mr. and Mrs. Caspar	400.00
Sollmann, Ekko.....	25.00	Whitney, Mrs. Eli.....	100.00
Starr, Howard W.....	25.00	Wickham, Mrs. D. O.....	100.00
Stewart, Colin C.....	10.00	Wilbur, James B.....	100.00
Straus, Mrs. Hugh Grant.....	10.00	Willard, F. C.....	5.00
Sulzberger, Arthur Hays.....	25.00	Williams, Ellis D.....	25.00
Swan, Mrs. J. Andrews.....	125.00	Williams, William.....	100.00
Sweet, Henry N.....	50.00	Winne, Charles K., Jr.....	10.00
Swenson, Carl G.....	5.00	Woodward, L. F.....	25.00
Taber, Mary.....	25.00	Wright, Mrs. Eva Edgar.....	10.00
Taylor, Fred M. P.....	10.00	Ziegler, Jessie.....	2.00
Thompson, A. W.....	10.00	Zinsmeister, Mrs. Elsie Ahrens.	25.00
Thompson, Mrs. J. Todhunter.	15.00	A friend.....	100.00
Thorne, S. B.....	10.00		<u>\$64,486.00</u>

The Emergency Preparation and Exhibition Fund

Alexander, Annie M.....	\$500.00	Calman, Henry L.....	50.00
Alexander, James S.....	100.00	Carpenter, C. L.....	50.00
Alvord, George B.....	100.00	Chamberlain, George Agnew..	20.00
Andrews, Charlotte L.....	10.00	Chambers, Robert A.....	10.00
Babcock, Albert.....	10.00	Chandler, Norman Wilmer....	10.00
Baldwin, George J.....	100.00	Chapin, Cornelia Van A.....	50.00
Beck, Ernest S.....	10.00	Church, E. D.....	50.00
Beckwith, Mrs. Daniel.....	200.00	Clark, George H.....	50.00
Bell, Louis V. ●.....	100.00	Cromwell, James W.....	100.00
Beller, Mr. and Mrs. A.....	10.00	Cullinan, J. S.....	100.00
Beller, William F.....	25.00	Curtiss, Franklin.....	5.00
Bernheim, Alice R.....	10.00	Curtiss, Roy.....	10.00
Boury, Louis J.....	100.00	Curtiss, Sidney Quinn.....	5.00
Bryant, Henry G.....	50.00	Curtiss, Thomas Quinn.....	5.00
Bulkley, Mrs. Jonathan.....	250.00	Darlington, Mary O'Hara.....	10.00
Butler, Charles Stewart.....	25.00	Davis, Gherardi.....	100.00
Butler, Virginia.....	50.00	Dean, Bashford.....	200.00

Dean, Mrs. Bashford.....	100.00	Papworth, A. G.....	5.00
Dolan, H. Yale.....	200.00	Parsons, Mrs. Joseph.....	25.00
Dole, Elwyn H.....	10.00	Peters, Thomas M.....	50.00
Draper, Mrs. William P.....	25.00	Pfeiffer, Curt G.....	100.00
Dunbar, F. L.....	50.00	Phoenix, Lloyd.....	250.00
Eckart, Edmund.....	25.00	Pierrepont, Julia J.....	10.00
Fleitmann, H. C.....	10.00	Pierson, H. D.....	10.00
Garrett, Mrs. Philip C.....	100.00	Rockefeller, John D., Jr.....	5,000.00
Goodwin, William B.....	25.00	Roebing, John A.....	2,000.00
Harkness, Edward S.....	2,500.00	Rogers, Robert.....	25.00
Harkness, Mrs. William L.....	5,000.00	Schieren, Charles A.....	50.00
Harriman, E. Roland.....	50.00	Schmucker, S. C.....	10.00
Harrison, Benjamin V.....	50.00	Scholle, W. D.....	10.00
Higgins, William V.....	10.00	Schwarz, Emilie E.....	5.00
Hodenpyl, Anton G.....	100.00	Seoville, Grace.....	100.00
Hoe, Mr. and Mrs. Richard March.....	100.00	Scudder, Hewlett.....	50.00
Houghton, Clement S.....	200.00	Sharpe, Henry D.....	100.00
Howard, John K.....	20.00	Shepard, C. Sidney.....	100.00
Howells, J. N. M.....	100.00	Simpson, Jean W.....	50.00
Hughes, John.....	50.00	Smyth, E. Graywood.....	2.00
Hunter, Roland Jackson.....	5.00	Sollmann, Ekko.....	10.00
Huron, George B.....	10.00	Spektorsky, Joseph.....	5.00
Irvine, William Mann.....	5.00	Stone, Robert G.....	10.00
Johnson, Wilbur S.....	10.00	Sullivan, Mrs. James.....	15.00
Kent, G. H.....	25.00	Tatlock, John.....	25.00
Kimbel, Anthony.....	10.00	Taylor, B. L.....	20.00
Kinney, Warren.....	25.00	Thayer, Mrs. Ezra Ripley...	500.00
Kirkham, William B.....	10.00	Thorne, S. B.....	20.00
Leaird, Byron.....	5.00	Tod, J. Kennedy.....	100.00
Limburg, Herbert R.....	25.00	Uhl, Oswald W.....	500.00
Lyman, Grace Greenleaf.....	10.00	Van Wyck, P. V. R.....	25.00
Mallinckrodt, E., Jr.....	100.00	Voigtlander, George.....	5.00
Markle, Mrs. John.....	10.00	Wadsworth, Mrs. W. Austin...	20.00
McLean, Mrs. James.....	200.00	Wadsworth, W. M.....	25.00
Meyer, Arthur S.....	10.00	Welcher, Alice L.....	15.00
Miller, August E.....	5.00	Welcher, Amy Ogden.....	5.00
Morgan, Junius S., Jr.....	200.00	Westervelt, W. D.....	10.00
Morris, Louis R.....	100.00	White, Rev. and Mrs. Eliot...	5.00
Morse, Mrs. Jay L.....	300.00	Wilbur, James Benjamin.....	25.00
Mosman, P. A.....	10.00	Williams, William.....	50.00
Myers, Frank J.....	100.00	Wolkwitz, Ernest.....	10.00
Nettleton, Charles H.....	10.00	Woolley, Park M.....	25.00
Noyes, Winthrop G.....	25.00	Zoller, Charles.....	10.00
Osborne, Arthur A.....	3.00	From a Member.....	5.00
Osterhout, George E.....	5.00		
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			\$21,810.00

The actual cost of operation for all purposes was \$1,212,485.66, and the principal purposes for which these expenditures were made are as follows:

Cost of		
Operation	Administration and Operation.....	\$507,974.41
	(City expenses, care and upkeep of the building, general administration and general care of the collections)	
	Financial Administration.....	50,754.02
	(Expenses of Bursar's office, extension of membership).	
	Scientific and Research.....	379,577.53
	(Exploration, investigation, purchase of specimens, and other purely scientific items)	
	Printing, Books and Publications.....	72,721.42
	(Cost of scientific Bulletins, Memoirs, Anthropological Papers, "Natural History," and the President's Annual Report)	
	Preparation and Exhibition.....	166,161.44
	(Preparation of exhibits for the halls and the preservation of study collections—Trustees' Funds only)	
	Educational—Public School Work.....	35,296.84
	(Extension service to schools, colleges and universities)	
		<hr/>
		\$1,212,485.66

The funds received from the City of New York are applied to the care and upkeep of the building, while the financing of the acquisition of collections and the researches based on them, as well as the publication of their results, is strictly through Trustees' funds.

It is further obvious that the principal source of revenue for these purposes is the Permanent Endowment Fund. At the present time our Permanent Endowment Fund amounts to a book value of \$11,014,562.06, invested as follows:

Railroad Bonds.....	\$7,954,765.75
Industrial Bonds.....	1,078,658.38
Public Utilities.....	1,226,982.50
Government Bonds.....	435,539.43
Other Securities, including 5,000 shares of Standard Oil Com- pany of California and 252 shares of General Electric Company Common.....	318,616.00
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	\$11,014,562.06

The market value of our Endowment securities is \$10,813,289.15, which is \$201,272.91 less than the value at which they are carried on our books. The annual income from our Endowment is \$534,165.44, which is .04849 of the value at which the securities

are carried on our books. The President shows in his Annual Report that this Endowment is inadequate and that an earnest effort should be made to increase it to \$15,000,000.

The capital fund of the Endowment during the year has been increased by the following amounts:

William Sloane Estate, first payment on account of the bequest of \$50,000.....	\$25,000.00
Margaret Olivia Sage Estate, fourth payment, making a total of \$1,480,000 on account of the Sage Bequest.....	80,000.00
Amos F. Eno Estate, final payment, in settlement of the Eno Bequest of \$250,000.....	28,033.33
Rhineland Estate, sixth payment, making a total of \$10,000 received to date.....	1,000.00
Membership fees and other sources.....	8,035.00

In addition to the foregoing receipts on account of bequests, we have been advised of the following bequests which are in process of settlement:

Recent Bequests *Henry R. Towne Bequest.* Under the will of Henry R. Towne, the Museum is designated as a contingent residuary legatee. Mr. Towne left his residuary estate, estimated at \$2,500,000, for the formation of a "Museum of Peaceful Arts" in the City of New York, and provided that, in the event that his executors are unable to carry out the provisions of his will in this respect, the residuary estate is to be divided equally between The Metropolitan Museum of Art and The American Museum of Natural History.

Littleton Bequest. The Museum has a contingent interest in a legacy of \$100,000 under the will of Henrietta Olive Littleton, who died on July 12, 1924, and who had been a Life Member of the Museum since 1900.

Huntington Bequest. The will of Arabella D. Huntington, widow of Collis P. Huntington, provides a bequest of \$50,000 for the Museum.

Jennette Robertson Bequest. Under the will of Jennette Robertson, the Museum is to receive one-half of a trust fund of \$5,000, contingent upon the death of an heir.

Emily A. Watson Bequest. By the will of Emily A. Watson, the Museum is to participate to the extent of \$10,000 in a trust fund of \$500,000 bequeathed to eighteen charities.

Frederick W. Schall Bequest. The will of Frederick W. Schall provides that the Museum is to receive \$20,000 conditional upon the death of the testator's niece, without issue living at the time of her death.

The Trustees are grateful for these contributions to the Endowment Fund and express the hope that well-wishers of the Museum will not hesitate to make gifts to the Museum on the ground that their contribution may be considered insignificant when compared with some large bequest. Contributions in any denomination are earnestly desired, and the donors may have the satisfaction of knowing that they are helping to provide for the future of the Museum.

The principal responsibility of the Finance Committee is the care of the Endowment Funds, both in the matter of conserving them and wisely and safely investing the funds so that they may yield as large an income as practicable. In this important work, the Treasurer and the Finance Committee have again been ably assisted by the Advisory Committee on Investments, consisting of Mr. Arthur M. Anderson, Mr. Francis D. Bartow, and Mr. Charles E. Mitchell. These gentlemen have served in this capacity in no mere perfunctory manner but have freely given of their time and thought to safeguarding the Endowment Funds—the real foundation of the Museum's growth and development. For this service, the Trustees are deeply grateful.

FINANCIAL STATEMENT 1924

PERMANENT ENDOWMENT

	Par Value	Book Value
Morris K. Jesup Fund.....	\$6,556,538.80	\$6,006,253.88
General Endowment Fund*.....	1,674,182.65	1,621,409.91
The Sage Fund.....	1,610,760.00	1,400,692.23
George F. Baker Fund.....	263,150.00	249,995.35
John D. Rockefeller, Jr., Fund.....	1,055,050.00	1,169,575.52
Special Endowment Funds:		
J. P. Morgan Fund.....	450,350.00	449,219.53
Jonathan Thorne Memorial Fund.....	26,700.00	24,923.05
Matilda W. Bruce Fund.....	11,000.00	11,000.00
Margaret Olivia Sage Fund.....	11,000.00	9,995.00
Physical Anthropology Fund.....	10,528.55	9,997.59
Anson W. Hard Library Fund.....	5,000.00	5,000.00
	<u>\$11,674,260.00</u>	<u>\$10,958,062.06</u>
Uninvested Cash:		
Morris K. Jesup Fund.....	\$14.29	
General Endowment Fund.....	6,688.78	
The Sage Fund.....	77.93	
John D. Rockefeller, Jr., Fund.....	718.22	
George F. Baker Fund.....	4.65	
	<u>7,503.87</u>	<u>7,503.87</u>
	<u>\$11,681,763.87</u>	<u>\$10,965,565.93</u>

TRUSTEES' BUILDING FUND

	Par Value	Book Value
Bonds.....	\$56,500.00	\$56,500.00
Cash.....	8,867.90	8,867.90
	<u>\$65,367.90</u>	<u>\$65,367.90</u>

*Contributors to the Permanent Endowment Fund, 1884-1924:

Auchincloss, Hugh.....	\$10,223.56	Warburg, Felix M.....	\$19,000.00	James, D. Willis.....	\$5,000.00
Baker, George F.....	250,000.00	Astor, W. W.....	1,000.00	Jones, Emma Chambers.....	1,000.00
Bridgham, Fanny.....	15,000.00	Babcock, Samuel D.....	5,000.00	Landon, Charles.....	5,000.00
Combe, Louisa.....	42,172.33	Baugh, Margaret L.....	10,000.00	Lanier, Charles.....	4,500.00
Constable, James M.....	25,000.00	Bishop, Cortlandt Field.....	500.00	Lawrence, Mrs. Samuel.....	500.00
Davis, Benjamin P.....	22,799.25	Bishop, David Wolfe.....	500.00	Loeb, Solomon.....	5,000.00
Douglas, James.....	100,000.00	Bishop, H. R.....	1,000.00	Matthiesson, F. O.....	1,000.00
Eno, Amos F.....	246,033.33	Bliss, George.....	1,000.00	Mitchell, Albert M. P.....	4,953.97
Harkness, Edward S.....	100,000.00	Bliss, Mrs. William H.....	5,000.00	Parsons, John E.....	1,000.00
Havenmeyer, H. O.....	25,000.00	Bondy, Emil C.....	10,000.00	Pyne, Percy R.....	2,500.00
James, Arthur Curtiss.....	26,750.00	Booth, Mary A.....	124.13	Rand, George C.....	100.00
Jesup, Morris K.....	1,225,000.00	Bowdoin, George S.....	5,000.00	Rhineland, Charles E.....	10,000.00
Jesup, Mrs. Morris K.....	5,000,000.00	Bradford, Mrs. A. A.....	1,000.00	Rockefeller, William.....	10,000.00
Juillard, A. D.....	100,000.00	Bruce, Miss Matilda W.....	10,000.00	Roebing, John A.....	1,000.00
Juillard, Helen C.....	50,000.00	Constable, Frederick A.....	2,000.00	Rogers, Mrs. Mary E.....	1,000.00
Kitching, Frank W.....	10,043.00	Cruikshank, James.....	95.25	Russ, Edward S.....	1,000.00
Mills, D. O.....	125,000.00	Davis, Mrs. J. C. Bancroft.....	50.00	Sands, William R.....	10,000.00
Morgan, J. Pierpont.....	325,000.00	Dodge, William E.....	5,000.00	Schermerhorn, Wm. C.....	5,000.00
Morgan, J. P.....	127,187.50	Dodge, W. E.....	10,000.00	Seligman, Henry.....	1,000.00
Ottendorfer, Oswald.....	10,000.00	Fiske, Mrs. Martha T.....	10,000.00	Southwick Mrs. Joseph.....	10.00
Pratt, George D.....	50,000.00	FitzGerald, Desmond.....	425.00	Swords, Mrs. James R.....	500.00
Pyne, Percy R. (No. 1).....	45,000.00	Forbes-Leith, A. J.....	1,000.00	Van Praag, Leonidas A.....	500.00
Rockefeller, John D., Jr.....	1,025,000.00	Gade, Frederika.....	4,956.72	Villard, Henry.....	5,000.00
Sage, Mrs. Russell.....	1,349,316.23	Goldenberg, Joel.....	1,900.00	Wilson, R. T.....	1,000.00
Sloane, William.....	25,000.00	Halsted, Miss L. P.....	100.00		
Stuart, Mrs. Mary.....	50,000.00	Hard, Anson W.....	5,000.00		\$10,776,209.60
Thorne, Pebebe Anna.....	30,000.00	Hitchcock, Miss S. M.....	5,000.00	Patronship Fees.....	23,000.00
Tilford, Charles E.....	25,070.37	Huntington, C. P.....	5,000.00	Fellowship Fees.....	6,000.00
Trevor, Mrs. Emily.....	30,098.90	Iden, Henry.....	10,000.00	Life Membership Fees.....	66,000.00
Vanderbilt, Cornelius.....	25,000.00	Iselin, Adrian.....	10,000.00		
Vanderbilt, William H.....	50,000.00	Jacobi, A.....	300.00		\$10,871,209.60

ENDOWMENT AND INVESTMENT ACCOUNT

Receipts, 1924

General Endowment Fund:

Balance.....	\$14,110.08	
Proceeds from Sale of Bonds.....	24,840.00	
Desmond FitzGerald Gift.....	425.00	
Mrs. Joseph Southwick Gift.....	10.00	
Bequest of Amos F. Eno.....	28,033.33	
Bequest of William Sloane.....	25,000.00	
Bequest of Charles E. Rhinelanders.....	1,000.00	
Membership Fees.....	7,600.00	
George F. Baker Fund, Balance.....	4.65	
John D. Rockefeller, Jr., Fund, Balance.....	152,072.72	
The Sage Fund:*		
Balance.....	\$104.86	
Fourth Payment by Executors.....	<u>24,560.00</u>	<u>24,664.86</u>
Total General Endowment.....		\$277,760.64

Special Endowment Funds:

Morris K. Jesup Fund, Balance.....	524.91
Interest on Credit Balances.....	<u>507.80</u>
	<u>\$278,793.35</u>

Disbursements, 1924

General Endowment Fund:

Purchase of Bonds.....	\$94,329.63	
John D. Rockefeller, Jr., Fund, Purchase of Bonds.....	151,354.50	
The Sage Fund:		
Purchase of Bonds.....	\$9,988.75	
Accrued Interest (to General Account).....	<u>14,598.18</u>	
		<u>24,586.93</u>
Total General Endowment.....		\$270,271.06

Special Endowment Funds:

Morris K. Jesup Fund, Purchase of Bonds.....	510.62
Interest on Credit Balances (to General Account).....	<u>507.80</u>
Cash on hand December 31, 1924.....	7,503.87
	<u>\$278,793.35</u>

*There were also received stocks to the amount of \$56,540, making a total of \$80,000 as the fourth payment on account of the 2-52 shares of the Residuary Estate of Margaret Olivia Sage, or a total of \$1,480,000.

CITY MAINTENANCE ACCOUNT*

Receipts, 1924

Capital Fund:

Cash on hand January 1, 1924.....	\$13,506.73
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Department of Parks, City of New York, 1923:

10. General Repairs and Replacements.....	1,493.27	
		\$15,000.00

Department of Parks, City of New York, 1924:

Salaries, Regular Employees.....	301,575.73
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Expenses for Other Than Personal Service:

1. Fuel Supplies.....	\$12,320.00	
2. Office Supplies.....	5,594.05	
3. Laundry, Cleaning and Disinfecting Supplies.....	1,540.00	
4. Motor Vehicle Supplies.....	924.00	
5. General Plant Supplies.....	2,464.00	
6. Wearing Apparel.....	1,155.00	
7. Office Equipment.....	385.00	
8. General Plant Equipment.....	577.50	
9. General Plant Materials.....	7,084.00	
10. General Repairs and Replacements..	2,483.25	
11. Telephone Service.....	1,135.75	
12. Fixed Charges and Contributions....	5,082.00	
		40,744.55

Total net receipts for the maintenance of all departments.....	\$342,320.28
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Interest on Credit Balances.....	425.29
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	<u>\$357,745.57</u>
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*The annual appropriation of the City can be used only for the maintenance of the Museum and is inadequate for this purpose. It cannot be used for the purchase of specimens or for the expenses of exploring and collecting expeditions. The deficiency in maintenance for 1924, amounting to \$249,977.35, has been met from the Trustees' General Account.

CITY MAINTENANCE ACCOUNT

Disbursements, 1924

Geology and Invertebrate Palæontology.....	\$3,841.62	
Mineralogy.....	2,709.90	
Mammalogy.....	5,349.52	
Ornithology.....	4,975.89	
Vertebrate Palæontology.....	5,652.07	
Anthropology.....	7,109.81	
Ichthyology.....	2,150.00	
Herpetology.....	1,950.00	
Lower Invertebrates.....	4,816.00	
Entomology.....	3,510.80	
Library.....	9,033.91	
Public Education.....	9,922.16	
Preparation and Exhibition.....	1,548.88	
Division of Printing.....	5,507.47	
Heating and Lighting.....	46,496.38	
Repairs and Installation.....	43,423.42	
General Supplies and Expenses.....	14,285.13	
Administration.....	170,037.32	
Total net disbursements for the maintenance of all departments.....		\$342,320.28
Interest on Credit Balances (to General Account).....		425.29
Capital Fund:		
Cash on hand December 31, 1924.....		15,000.00
		<u><u>\$357,745.57</u></u>

MORRIS K. JESUP FUND ACCOUNT*

Receipts, 1924

Trustees' Restricted Funds:

Cash on hand January 1, 1924.....		\$10,678.50
Income from Morris K. Jesup Fund.....	\$279,108.96	
Sale of Publications.....	2,336.62	
Sales and Exchanges.....	852.21	
Interest on Credit Balances.....	638.92	
		<u>282,936.71</u>

Total net receipts for the development of all departments..... \$293,615.21

Disbursements, 1924

Geology and Invertebrate Palæontology.....	\$12,981.53
Mineralogy.....	1,604.53
Mammalogy.....	17,789.09
Asiatic Exploration and Research Fund.....	7,625.00
Ornithology.....	14,626.34
Vertebrate Palæontology.....	44,332.98
President Osborn's Science Fund.....	6,223.19
Comparative Anatomy.....	8,396.70
Anthropology.....	32,814.74
Ichthyology.....	5,343.44
Dr. Dean's Research and Publication Fund.....	1,200.00
Herpetology.....	5,937.15
Lower Invertebrates.....	6,604.26
Entomology.....	7,504.83
Library.....	11,507.57
Comparative Physiology.....	29.36
Public Education.....	216.07
Preparation and Exhibition.....	80,283.06
Publications.....	7,386.54
Division of Printing.....	10,228.76
General Supplies and Expenses.....	103.64
Administration.....	166.66
Interest on Bank Loans.....	2,623.37

Total net disbursements for the development of all departments..... \$285,528.81

Cash on hand December 31, 1924†..... 8,086.40
\$293,615.21

*Disbursements of this account are made as the Board of Trustees may direct, for the purchase of specimens, for the expenses of field parties, and for the support of scientific work.

†The Treasurer's books show a balance on hand December 31, 1924, of \$8,086.40, which has been carried forward to 1925 to meet pledges and obligations contracted in 1924.

GENERAL ACCOUNT

Receipts, 1924

Income from General Endowment Fund.....	\$82,783.01	
Income from The Sage Fund.....	74,133.29	
Income from George F. Baker Fund.....	13,157.50	
Income from John D. Rockefeller, Jr., Fund.....	54,765.52	
Interest on Credit Balances.....	2,425.42	
Annual Members.....	37,930.00	
Sustaining Members.....	3,600.00	
Associate Members.....	6,565.50	
Sales and Exchanges.....	1,066.19	
Sale of Publications.....	6,843.75	
Subscriptions to Natural History.....	2,848.10	
Contributions of Trustees for General Purposes and Emergency Preparation:		
George F. Baker, Jr.....	\$9,500.00	
Frederick F. Brewster.....	3,092.59	
Cleveland E. Dodge.....	1,395.06	
Cleveland H. Dodge.....	5,580.26	
Walter Douglas.....	1,395.06	
Childs Frick.....	1,000.00	
W. A. Harriman.....	1,500.00	
Clarence L. Hay.....	1,395.06	
Adrian Iselin.....	1,500.00	
Walter B. James.....	697.54	
Roswell Miller.....	500.00	
Ogden Mills.....	7,000.00	
J. P. Morgan.....	27,962.97	
Henry Fairfield Osborn.....	2,395.06	
George D. Pratt.....	3,487.65	
Percy R. Pyne.....	3,487.65	
John B. Trevor.....	1,395.06	
Felix M. Warburg.....	3,500.00	
	<u>\$76,783.96</u>	
Contributions for General Purposes:		
Major L. Darwin.....	\$1.28	
Desmond FitzGerald.....	3.00	
	<u>4.28</u>	
Total net receipts for the development of all departments.....		\$362,906.52
Accrued Income from the Sage Fund, 1921.....	\$8,261.89	
Accrued Income from the Sage Fund, 1922.....	2,615.90	
Accrued Income from the Sage Fund, 1923.....	<u>2,615.90</u>	
		13,493.69
Contributions of Trustees for General Purposes for 1925:		
Childs Frick.....	\$4,750.00	
Frederick F. Brewster.....	<u>1,000.00</u>	
		5,750.00
Loans:		
Incidental Account, Group Life Insurance No. 2.....	\$1,856.86	
Incidental Account, Group Life Insurance No. 3.....	733.95	
Bursar's Account.....	<u>35,000.00</u>	
		37,590.81
Bank Loans:		
Proceeds of Notes held by the United States Trust Company of New York		250,000.00
		<u>\$669,741.02</u>

GENERAL ACCOUNT

Disbursements, 1924

Geology and Invertebrate Palæontology.....	\$5,091.96
Mineralogy.....	2,751.66
Mammalogy.....	8,629.13
Asiatic Exploration and Research Fund.....	1,151.91
Ornithology.....	9,637.83
Vertebrate Palæontology.....	9,420.81
Comparative Anatomy.....	3,000.82
Anthropology.....	11,708.48
Ichthyology.....	3,453.10
Herpetology.....	2,176.87
Lower Invertebrates.....	9,949.41
Entomology.....	2,716.16
Public Health.....	1,201.00
Library.....	16,075.70
Public Education.....	27,797.33
Preparation and Exhibition.....	2,959.14
Publications.....	21,667.49
Division of Printing.....	18,416.73
Heating and Lighting.....	19,614.89
Repairs and Installation.....	32,428.04
General Supplies and Expenses.....	53,099.86
Administration.....	68,479.79
Pension Fund.....	20,036.61
Group Life Insurance.....	5,149.92
Interest on Bank Loans.....	4,808.31

Total net disbursements for the development of all departments..... \$361,422.95

Deficit of 1923 Account..... 23,361.75

Loans:

Incidental Account.....	\$2,345.02
Bursar's Account.....	35,000.00

37,345.02

Balance December 31, 1924:

Proceeds of Notes held by the United States Trust Company of New York to meet overdrafts.....	*247,611.30
	<u>\$669,741.02</u>

*Balance of December 31, 1924, is the remainder of the Notes held by the
United States Trust Company of New York..... \$247,611.30

Loans Receivable:

Group Life Insurance advance.....	\$1,611.07
Disbursements made in anticipation of the Accrued Interest of the Sage Bequest during 1921, balance.....	4,486.39
Ditto for 1922.....	6,248.75
Ditto for 1923.....	776.06

13,122.27

\$260,733.57

Contributions of Trustees for General Purposes for 1925 (paid in 1924).....	\$5,750.00
Orders and Contracts outstanding of 1924 Account.....	4,983.57
Proceeds of Notes held by the United States Trust Company of New York.....	250,000.00

\$260,733.57

SPECIAL FUNDS ACCOUNT

Receipts, 1924

GEOLOGY AND INVERTEBRATE PALAEONTOLOGY:

James Douglas Geological Fund:

Balance.....		\$850.00
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MINERALOGY:

Matilda W. Bruce Fund:

Balance.....	\$650.96	
Interest.....	<u>660.00</u>	
		1,310.96

MAMMALOGY:

George S. Bowdoin Whale Model Fund:

Balance.....		1,000.00
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ASIATIC EXPLORATION AND RESEARCH:

Third Asiatic Expedition Fund 1924:

Balance.....	\$8,906.51	
Subscriptions.....	<u>58,451.00</u>	
		\$67,357.51
Third Asiatic Expedition Fund 1925, Subscriptions....	5,055.00	
" " " " 1926, " 	330.00	
" " " " 1927, " 	325.00	
" " " " 1928, " 	<u>325.00</u>	

(See listing of Subscriptions from 234 Members and Friends on pages 158-160 of this report.....)		73,392.51
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ORNITHOLOGY:

Crandall Oological Fund:

Balance.....		\$1,160.00
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Margaret Olivia Sage Fund:

Interest.....		427.88
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Whitney South Sea Expedition Fund:

Balance.....	\$1,571.23	
Harry Payne Whitney.....	<u>20,000.00</u>	
		21,571.23

Panama Bird Fund:

Balance.....	\$1,000.00	
Ludlow Griscom.....	<u>1,000.00</u>	
		2,000.00

Amazon Field Fund:

Balance.....	\$1,094.94	
Mrs. E. M. B. R. Naumberg.....	<u>1,000.00</u>	
		2,094.94

Ecuador Expedition Fund:

Louisa W. Case.....	\$100.00	
Marian Roby Case.....	100.00	
Mrs. Z. Chafee.....	100.00	
James B. Ford.....	500.00	
F. Gilbert Hinsdale.....	100.00	
Charles H. Taylor.....	<u>100.00</u>	
		<u>1,000.00</u>

		28,254.05
Carried Forward.....		\$104,807.52

SPECIAL FUNDS ACCOUNT

Disbursements, 1924

MINERALOGY:

Matilda W. Bruce Fund:

Purchase of Specimens.....	\$753.84
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ASIATIC EXPLORATION AND RESEARCH:

Third Asiatic Expedition Fund 1924:

Field Expenses in China.....	57,114.89
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ORNITHOLOGY:

Whitney South Sea Expedition Fund:

Field Expenses in South Sea Islands.....	\$18,505.93
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Panama Bird Fund:

Field Expenses.....	2,000.00
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Amazon Field Fund:

Purchase of Birds.....	219.85
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Ecuador Expedition Fund:

Field Expenses.....	400.00
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	<u>21,125.78</u>
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<i>Carried Forward</i>	\$78,994.51
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SPECIAL FUNDS ACCOUNT

Receipts, 1924

<i>Brought Forward</i>		\$104,807.52
VERTEBRATE PALAEONTOLOGY:		
Edward D. Cope Biography Fund:		
Balance.....	\$350.00	
Elizabeth W. Garrett.....	<u>100.00</u>	
		\$450.00
Pleistocene Faunal Life Scenes Fund:		
Balance.....		50.00
American Pliocene Fund:		
Balance.....	\$5,475.20	
Anonymous.....	<u>9,500.00</u>	
		14,975.20
Third Asiatic Field Fund:		
Balance.....		1,000.00
Western Field Fund:		
Balance.....	\$6,334.62	
Anonymous.....	<u>4,000.00</u>	
		10,334.62
Siwalik Preparation Fund:		
Mrs. Childs Frick.....	\$3,000.00	
Mrs. A. H. C. Frick.....	<u>5,000.00</u>	
		8,000.00
J. P. Morgan Fund:		
Transferred from Reserve.....		<u>19,815.05</u>
		54,624.87
COMPARATIVE ANATOMY:		
Evolution of Man Fund:		
Balance.....		\$26.10
Comparative Anatomy Fund:		
Balance.....		<u>937.28</u>
		963.38
ANTHROPOLOGY:		
East Asiatic Fund:		
Balance.....		\$788.49
Anthropology of the Southwest Fund:		
Balance.....		23.68
Physical Anthropology Fund:		
Interest.....		446.14
Migrations Research Fund 1924:		
Balance.....	\$422.06	
National Research Council.....	<u>2,755.50</u>	
		3,177.56
von Luschan Collection Fund:		
Felix M. Warburg.....		10,000.00
Archæology Fund:		
Charles L. Bernheimer.....		<u>250.00</u>
		14,685.87
ICHTHYOLOGY:		
Cleveland H. Dodge Ichthyology Fund:		
Balance.....		\$364.17
Fish Bibliography Fund:		
Balance.....	\$1,147.78	
Bashford Dean.....	<u>1,200.00</u>	
		<u>2,347.78</u>
		2,711.95
<i>Carried Forward</i>		\$177,793.59

SPECIAL FUNDS ACCOUNT

Disbursements, 1924

<i>Brought Forward</i>		\$78,994.51
VERTEBRATE PALÆONTOLOGY:		
American Pliocene Fund:		
Services of Preparators and Field Expenses.....	\$8,941.86	
Western Field Fund:		
Field Expenses.....	4,328.53	
J. P. Morgan Fund:		
Special Grant for Research and Publication Work and Preparation of Murals.....	<u>19,815.05</u>	
		33,085.44
 COMPARATIVE ANATOMY:		
Comparative Anatomy Fund:		
Special Services.....		937.28
 ANTHROPOLOGY:		
East Asiatic Fund:		
Purchase of Specimens.....	\$10.00	
Anthropology of the Southwest Fund:		
Field Expenses.....	23.68	
Physical Anthropology Fund:		
Purchase of Specimens.....	446.14	
Migrations Research Fund 1924:		
Special Services.....	2,043.15	
von Luschan Collection Fund:		
Purchase of Collection.....	10,000.00	
Archæology Fund:		
Field Expenses.....	<u>250.00</u>	
		12,772.97
 ICHTHYOLOGY:		
Cleveland H. Dodge Ichthyology Fund:		<u>11.00</u>
<i>Carried Forward</i>		\$125,801.20

SPECIAL FUNDS ACCOUNT

Receipts, 1924

<i>Brought Forward</i>			\$177,793.59
LOWER INVERTEBRATES:			
Angelo Heilprin Exploring Fund, Lower Invertebrates:			
Transferred from Reserve.....			1,500.00
ENTOMOLOGY:			
Entomological Fund:			
Balance.....	\$800.00		
Herbert F. Schwarz.....	200.00		
			1,000.00
LIBRARY:			
Anson W. Hard Library Fund:			
Interest.....			212.50
PUBLIC EDUCATION:			
Jonathan Thorne Memorial Fund:			
Interest.....	\$1,082.00		
School Fund:			
Department of Education of the City of New York:			
1923 Account.....	\$1,035.66		
1924 Account.....	3,675.42		
		4,711.08	
Motion Picture Library Fund:			
George D. Pratt.....	1,000.00		
			6,793.08
PREPARATION AND EXHIBITION:			
Emergency Preparation Fund:			
Members' Subscriptions, 1924.....	\$20,247.50		
Members' Subscriptions, 1925.....	1,562.50		
(See listing of 123 subscribing Members on pages 160-161 of this report) . .			21,810.00
PUBLICATIONS:			
Jesup North Pacific Expedition Publication Fund:			
Balance.....	\$321.65		
Museum Journal Fund:			
Herbert F. Schwarz.....	360.00		
		681.65	
Total net receipts for the development of specific departments			\$209,790.82
J. P. Morgan Fund Reserve:			
Balance.....	\$550.47		
Interest.....	22,629.50		
			23,179.97
Angelo Heilprin Exploring Fund Reserve:			
Balance.....	\$1,050.00		
Mr. and Mrs. Paul J. Sachs.....	500.00		
			1,550.00
INTEREST ON CREDIT BALANCES			1,452.73
			<u>\$235,973.52</u>

SPECIAL FUNDS ACCOUNT**Disbursements, 1924**

<i>Brought Forward</i>			\$125,801.20
LOWER INVERTEBRATES:			
Angelo Heilprin Exploring Fund, Lower Invertebrates:			
Field Expenses and Undersea Apparatus.....			1,500.00
ENTOMOLOGY:			
Entomological Fund:			
Field Expenses.....			100.00
LIBRARY:			
Anson W. Hard Library Fund:			
Purchase of Books.....			212.50
PUBLIC EDUCATION:			
Jonathan Thorne Memorial Fund:			
Education for the Blind.....		\$1,082.00	
School Fund:			
Loaning Slides to Public Schools:			
1923 Account.....	\$1,035.66		
1924 Account.....	<u>3,675.42</u>		
			4,711.08
Motion Picture Library Fund:			
Motion Picture Film.....		<u>1,000.00</u>	
			6,793.08
PREPARATION AND EXHIBITION:			
Emergency Preparation Fund, 1924:			
Preparation of Exhibits for Southeast Wing and Court Building. . . .			10,064.15
PUBLICATIONS:			
Jesup North Pacific Expedition Publication Fund:			
Special Services.....		\$321.65	
Museum Journal Fund:			
Special Illustrations for Natural History.....		<u>360.00</u>	
			681.65
Total net disbursements for the development of specific departments..			\$145,152.58
J. P. Morgan Fund Reserve:			
Transferred to J. P. Morgan Fund, Vertebrate Palæontology.....			19,815.05
Angelo Heilprin Exploring Fund Reserve:			
Transferred to Angelo Heilprin Exploring Fund, Lower Invertebrates			1,500.00
INTEREST ON CREDIT BALANCES:			
Transferred to General Account.....			1,452.73
Cash on hand December 31, 1924.....			68,053.16
			<u><u>\$235,973.52</u></u>

CORPORATE STOCK ACCOUNT

1924

Receipts:

Department of Parks, City of New York:

C. D. P. 3 G.....	\$3,786.75
C. D. P. 3 P.....	1,851.75
C. D. P. 3 Q.....	<u>22,344.75</u>

\$27,983.25

Interest on Credit Balances.....

4.73

\$27,987.98

Disbursements:

Payroll of Mechanics, etc.....	\$27,983.25
Interest on Credit Balances, Transferred to General Account.....	4.73

\$27,987.98

TRUSTEES' BUILDING FUND ACCOUNT

1924

Receipts:

Cash on hand January 1, 1924.....	\$5,903.48
Investment Fund:	
Sale of Securities.....	48,736.88
Income from Investment Fund.....	4,118.35
Interest on Credit Balances.....	186.98
	<u>\$58,945.69</u>

Disbursements:

Architects' Services.....	\$160.00
Closing Windows in Vertebrate Palæontology.....	15,677.84
Case Alterations Present Building.....	709.21
Emergency and Special Construction.....	4,732.77
Exhibition Cases for Present Building.....	1,354.50
Fireproofing Central Attic.....	919.00
Sandblasting Windows.....	784.08
Sandblasting Windows, Hall of Ocean Life.....	1,415.70
School Service Building.....	162.50
Southeast Wing and Court Building Changes.....	24,162.19
Cash on hand December 31, 1924.....	8,867.90
	<u>\$58,945.69</u>

INCIDENTAL ACCOUNT

1924

Receipts:

Cash on hand January 1, 1924.....	\$688.55
Received from Individuals and Societies.....	11,096.20
Group Life Insurance:	
Employees' Premium Payments.....	\$4,991.54
Dividend on Policy.....	288.00
Loans from General Account.....	<u>2,345.02</u>
	7,624.56
Interest on Credit Balances.....	34.87
	<u>\$19,444.18</u>

Disbursements:

Disbursements for Individuals and Societies.....	\$11,137.28
Group Life Insurance:	
Premiums.....	\$5,434.31
Loan Instalments paid General Account.....	<u>2,590.81</u>
	8,025.12
Interest on Credit Balances, Transferred to General Account.....	34.87
Cash on hand December 31, 1924.....	246.91
	<u>\$19,444.18</u>

All the foregoing accounts have been

Examined and Approved { WILLIAM AVERELL HARRIMAN
FREDERICK TRUBEE DAVISON } *Auditing Committee*
JOHN B. TREVOR

E. & O. E.

NEW YORK, December 31, 1924.

GEORGE F. BAKER, JR., *Treasurer*

V. MEMBERSHIP

PERCY R. PYNE, Secretary

The growing popularity of the Museum among our Members and their belief in the importance of its undertakings have been evidenced by their generous responses to two invitations for support.

The astounding and important discoveries of our Third Asiatic Expedition, under the leadership of Roy Chapman Andrews, in

Third Asiatic
Expedition
Fund

Mongolia, and the prospect of even greater scientific results made it imperative that this exploration should be extended for a longer period. When Mr.

Andrews returned to New York in the fall of 1923,

it was therefore decided to reorganize the work on the basis of continuing it for five years more. This would cost some \$250,000, and with the many demands upon the resources of the Museum for other purposes, such a large sum could not be appropriated for this expedition. Consequently, with the approval of the Trustees, Mr. Andrews addressed a letter to our Members, setting forth the aims and purposes of the Third Asiatic Expedition and inviting subscriptions to carry it on. The responses were prompt and generous. In all, 217 Members from all parts of the Union and from several foreign countries subscribed a total of \$19,354, which, combined with new subscriptions of \$225,646 from Trustees and other friends, makes a total of \$245,000 available for the next five years and thus insures the future work of the expedition.

Similarly, in order to keep faith with the Board of Estimate, which had erected two new building sections, Section 9, ASIATIC

Emergency
Preparation
Fund

HALL, and Section 10, HALL OF OCEAN LIFE,

the Trustees decided to concentrate the activities of the Museum on the preparation of the exhibitions to be shown in these new buildings. The regular

financial resources of the Museum were inadequate to meet this preparation program. Our needs were made known to our Members and again there was a most generous response. A total of \$35,125 was contributed by 123 Members. The fact that these subscriptions came from such distant points as Maine, California, Porto Rico, and Hawaii, and that seventeen states were represented in the list indicates that interest in the Museum is not merely local, but nation-wide. These contributions were placed in

a special Emergency Preparation and Exhibition Fund and have been used exclusively in the mounting of groups and specimens for the new building. Members may therefore feel that they have a personal share in this important phase of the Museum's work. To these Members the Trustees are especially grateful.

In addition to these special subscriptions, the Members have contributed, through their membership fees, \$55,695.50 for the general purposes of the Museum. Of these contributions, the receipts from Life Members and the higher classes of membership, amounting to \$7,600, have been added to the Permanent Endowment Fund, while the fees from Annual, Sustaining and Associate Members, totaling \$48,095.50, have been applied to the current income of the Museum. This substantial support on the part of our Members is an important factor in carrying forward the exhibition work of the Museum. Our Members are also rendering a valuable service by spreading abroad information of Museum activities and by making its work known among their friends.

At the close of the year 1924, there were 7,952 Members on our roll, and the wide interest in the Museum is indicated by the geographical distribution of these Members, in which every state in the Union, as well as forty-seven foreign countries, are represented.

GEOGRAPHICAL DISTRIBUTION OF MEMBERS IN UNITED STATES

Alabama.....	16	Michigan.....	136
Arizona.....	16	Minnesota.....	59
Arkansas.....	3	Mississippi.....	3
California.....	222	Missouri.....	38
Colorado.....	37	Montana.....	8
Connecticut.....	239	Nebraska.....	21
Delaware.....	19	Nevada.....	1
District of Columbia.....	77	New Hampshire.....	23
Florida.....	27	New Jersey.....	263
Georgia.....	26	New Mexico.....	8
Idaho.....	6	New York State (exclusive of	
Illinois.....	137	New York City).....	798
Indiana.....	26	New York City.....	3,907
Iowa.....	26	North Carolina.....	12
Kansas.....	10	North Dakota.....	12
Kentucky.....	7	Ohio.....	204
Louisiana.....	34	Oklahoma.....	7
Maine.....	26	Oregon.....	17
Maryland.....	59	Pennsylvania.....	384
Massachusetts.....	432	Rhode Island.....	59

South Carolina.....	17	Virginia.....	29
South Dakota.....	7	Washington.....	25
Tennessee.....	10	West Virginia.....	11
Texas.....	49	Wisconsin.....	34
Utah.....	4	Wyoming.....	5
Vermont.....	16	U. S. Possessions.....	26

IN FOREIGN COUNTRIES

Argentina.....	5	Italy.....	5
Australia.....	6	Japan.....	3
Bahamas.....	1	Malta.....	1
Belgium.....	4	Mexico.....	3
Bolivia.....	1	Natal.....	1
Brazil.....	4	Nepal.....	1
British Guiana.....	1	New Zealand.....	1
Burma.....	1	Nicaragua.....	2
Canada.....	43	Norway.....	3
Cape Colony.....	1	Panama.....	2
Chile.....	2	Poland.....	2
China.....	9	Samoa.....	1
Colombia.....	2	Scotland.....	1
Cuba.....	7	Serbia.....	1
Denmark.....	1	Siam.....	2
Ecuador.....	3	Spain.....	3
England.....	37	Sweden.....	3
Fiji.....	1	Switzerland.....	6
France.....	19	Syria.....	1
Germany.....	6	Transvaal.....	1
Greece.....	2	Trinidad.....	2
Holland.....	5	Venezuela.....	2
India.....	7	Yucatan.....	1
Ireland.....	1		

Members receive the Museum's popular illustrated magazine, *Natural History*, published bi-monthly, recording the advancement of natural science, scientific research, exploration, discovery and the development of museum exhibition and museum influence in education.

In the Members' Room, on the third floor, Members may read, rest or write letters during their visits to the Museum, and, through request of the attendant in this room, an instructor will meet members and conduct them to the most interesting exhibits.

Special lectures for Members are given during the year, and Members are welcome to other lectures given in our auditorium.

During the year eight lectures for Members and eight lectures on Saturday mornings for the children of Members were given in the Auditorium, while three special lectures were arranged to which all Members were invited. Every season tickets for these lectures are distributed to Members.

Continuous efforts are being made to increase the number of Members. It is a pleasure to report that during 1924, 1,130 new names were added to our roll, but as the loss through death and resignation amounted to 451, the net gain for the year was 679, which made our total membership 7,952 as noted above. Segregated by their respective classes our membership is as follows:

Founders.....	0	Honorary Life Members.....	51
Benefactors.....	13	Life Members.....	1,051
Associate Founders.....	11	Corresponding Members.....	22
Associate Benefactors.....	21	Sustaining Members.....	150
Patrons.....	121	Annual Members.....	4,068
Honorary Fellows.....	13	Associate Members (non-	
Fellows.....	58	resident)	2,373

NEW MEMBERS

The New Members elected during the year were as follows:

BENEFACTOR

CHILDS FRICK

ASSOCIATE BENEFACTOR

DR. BASHFORD DEAN

PATRONS

LUDLOW GRISCOM

CHARLES E. RHINELANDER*

ALBERT M. P. MITCHELL*

MRS. W. K. VANDERBILT

HONORARY FELLOW

PROF. WILLIAM M. DAVIS

FELLOWS

THOMAS BARBOUR

GUERDON S. HOLDEN

DR. HENRY H. COVELL

MRS. JAY C. MORSE

H. W. DE FOREST

KEITH SPALDING

DESMOND FITZGERALD

WILLIAM WILLIAMS

HONORARY LIFE MEMBERS

EDWIN H. BLASHFIELD

DON RAFAEL GRAJALES

CHARLES F. FORSYTH

DEMITRIOS PAPADIMITRIOU

ELGIN W. FORSYTH

JOSEPH RACK

DANIEL CHESTER FRENCH

DR. HENRI SCHOUTEDEN

A. R. WILCOX

*Deceased.

LIFE MEMBERS

FRANK E. AIKEN	JOHN P. GRIER
HERBERT L. ALDRICH	JOHN H. HALL, JR.
MRS. DANIEL BECKWITH	ARCHIBALD HARRISON
MRS. WILLIAM BELKNAP	FRANCIS L. HIGGINSON
HENRY J. BERNHEIM	MRS. JOHN HILLS
HARRY PAYNE BINGHAM	ARTHUR HOFHEIMER
JAMES D. BLACK	MRS. CHRISTIAN R. HOLMES
CHARLES C. BOLTON	M. D. HOWELL
J. L. BRADLEY	ELLIS STANLEY JOSEPH
HARRY BURRELL	DAVID G. JOYCE
MISS LOUISA W. CASE	MRS. CHARLES KAYE
ROBERT M. CATTS	WM. E. KEITH, M.D.
MRS. Z. CHAFEE	MRS. GEORGE KENNAN
W. F. CHANDLER	HORATIO G. LLOYD
MRS. CHARLES MERRILL CHAPIN	BENJAMIN LOWENSTEIN
MISS MARY CHENEY	JAMES MARSHALL
PAUL H. CHENEY	PHILIP G. MCFADDEN
RUSSELL COLGATE	WILLIAM P. MCPHEE
J. D. COX	ARTHUR N. MILLIKEN
H. M. CRANE	HOMER W. ORVIS
Z. MARSHALL CRANE	ARTHUR NEWTON PACK
WILLIAM H. CROSBY	JAMES W. PACKARD
JAMES G. CUTLER	OWEN SHOEMAKER PAXSON
WILLIAM SHEPHERD DANA	REV. ENDICOTT PEABODY
MISS MARY O'HARA DARLINGTON	R. A. F. PENROSE, JR.
ALVAH DAVISON	GEORGE F. PORTER
F. V. DU PONT	RALPH PULITZER
GEORGE EHRET, JR.	WILLIAM RENNULT
LEO FEIST	ROBERT S. ROBERTSON
T. R. FELL	LOUIS A. SCHRIENER
EDWIN A. FISHER	MRS. J. A. SCRYMSE
DESMOND FITZGERALD	C. SIDNEY SHEPARD
GEORGE C. FRASER	JOHN F. SHERIDAN
JOHN HEMMING FRY	J. CLINTON SPENCER
RADCLYFFE FURNESS	EDWARD DAVID WOODBERRY
WILLIAM GAMMELL	SPINGARN
HARRY W. GODDARD	MRS. J. E. SPINGARN
MRS. W. R. GRACE	A. B. SPRECKELS
HENRY WALDO GREENOUGH	MRS. JOHN WOOD STEWART

JOSEPH F. STIER	MRS. W. V. S. THORNE
FREDERICK STRAUSS	NORMAN F. TORRANCE
MRS. J. ANDREWS SWAN	DR. C. E. VAIL
CHARLES H. SWIFT	MRS. FRANK STEPHENSON VOSS
DR. MALCOLM H. TALLMAN	MISS BETTINA WARBURG
CHARLES H. TAYLOR	MRS. ELI WHITNEY

SUSTAINING MEMBERS

DR. JOSEPH H. ABRAHAM	L. NACHMANN
DAVID BLANKENHORN	HENRY B. NEWHALL
MRS. W. B. BOULTON	G. A. PFEIFFER
MISS E. MABEL CLARK	F. F. PRENTISS
MISS CLARA L. CRANE	ERNEST E. QUANTRELL
JOSEPH A. DUFFY	LANSING P. REED
EDWARD EPSTEAN	DR. EDWARD H. SQUIBB
WM. CARNEGIE EWEN	WM. RHINELANDER STEWART, JR.
FRED. P. GEYER	ROBERT G. STONE
FRANK JOHNSON	MISS SUSAN M. STURGES
CHAS. M. KOHN	H. E. WARD

DECEASED MEMBERS**PATRONS**

MRS. ALBERT S. BICKMORE	HENRY C. SWORDS
MRS. HENRY E. HUNTINGTON	JOEL WOLFE THORNE

HONORARY FELLOW

MR. HERBERT L. BRIDGMAN

FELLOW

GRANT B. SCHLEY

LIFE MEMBERS

JOHN ASPEGREN	DR. LOUIS HAUPT
AUGUST BELMONT	MRS. FRANK CAMPBELL
C. M. BERGSTRESSER	LITTLETON
WILLIAM GOULD BROKAW	W. H. MARSHALL
FRED. W. DEVOE	MARION McMILLIN
MRS. W. B. DINSMORE	MANTON B. METCALF
MISS ISABEL ROGERS EDGAR	JOHN M. MOREHEAD

ELKAN NAUMBURG
JOHN J. PIERREPONT
STEPHEN K. REED
CHAS. S. SHULTZ
HENRY R. TOWNE

ROBERT A. VANWYCK
JAMES N. WALLACE
MRS. SIDNEY WEBSTER
JOHN J. WILLIAMS
RICHARD H. WILLIAMS

TRUSTEES AND STAFF

- A complete list of Members will be found on pages 193 to 261.

At the Annual Meeting of the Trustees, February 4, 1924, Mr. Roswell Miller was elected to the Class of 1925, to fill the vacancy due to the death of Mr. Thomas De Witt Cuyler. Mr. Clarence L. Hay was elected to the Class of 1927, to fill the vacancy due to the resignation of Mr. Arthur Curtiss James. The Trustees whose terms expired at the Annual Meeting were elected to the Class of 1928, namely, Messrs. Cleveland H. Dodge, Archer M. Huntington, Felix M. Warburg, A. Perry Osborn, and George F. Baker, Jr.

Mr. Cleveland H. Dodge resigned as First Vice-President of the Board of Trustees, and Mr. George F. Baker was elected to that office.

It is with deep regret that we announce the death on September 27, 1924, of Doctor Edmund Otis Hovey, Curator of the Department of Geology. Doctor Hovey was sixty-two years of age and had been a member of the Museum's staff for over thirty years. He is mourned not only by the Trustees and his colleagues in the Museum, but by a wide circle of friends throughout the world. At a meeting of the Scientific Staff of the Museum, the following minute and resolution were unanimously adopted, which also express the sentiments of the Trustees with respect to Doctor Hovey's life work and services:

Doctor Hovey was appointed as Assistant Curator in the Department of Geology on January 1, 1894, and was second to Doctor Chapman in order of seniority among the curators of the Museum. He was appointed Associate Curator in 1901 and Curator in 1910.

His time in his earlier years at the Museum was largely given to the cataloguing and exhibition arrangements in the department. The catalogue of types and figured specimens of

fossils in the department collections, a volume of 500 pages, was completed and published in 1898-1901 in collaboration with Doctor Whitfield. Doctor Hovey's principal contribution in later years has been the series of relief maps illustrating various typical phases of physiographic geology. These maps, carefully studied and planned in advance, and executed with a high order of accuracy and scientific insight into the processes that they illustrate, are regarded as exceptionally instructive and reliable. Artistically and technically they are far above the ordinary type of relief map, constituting a permanent contribution of solid merit to the science of geology.

Editorial Service. Doctor Hovey was editor of The American Museum Journal (now *Natural History*) for the first ten years of its existence from 1900 to 1910, and continued up to the time of his death a valued adviser and contributor to its pages. He was editor of the Annals of the New York Academy of Sciences from 1908-1916, supervising the nine volumes published during those years. At the beginning of this year (1924) he undertook, with some reluctance, the editorship of the scientific publications of the Division of Geology, Palæontology and Mineralogy in the Museum. He had organized and initiated this editorial work and was busied with it in his last days.

Studies of Volcanoes. Doctor Hovey had for many years been especially interested in volcanic phenomena, had studied some of the volcanoes, living and extinct, of Europe, and in 1902, 1903 and 1908 spent considerable time in Martinique and St. Vincent, making a scientific study of the great outbreaks of Mont Pelé and the Soufrière. The preliminary results of this study were published in the American Museum Bulletin and in the Proceedings of the Vienna International Geological Congress. When the news of the utter destruction of St. Pierre arrived he took the first boat for the West Indies, leaving upon a few hours' notice, and, arriving at the islands while the eruption was still in full force, was an eyewitness of many of its most impressive and remarkable phenomena, and secured an important series of photographs and observations. His later visits enabled him to record the waning activities of the volcano and subsequent changes, and he was

planning to make a final visit next year to correct and check up various details and note the changes of twenty years before publishing a final memoir upon the eruptions.

Arctic Exploration. Doctor Hovey had long been interested in Arctic exploration, was a director of the Explorers' Club, and as chairman of the committee in charge of the Crocker Land Expedition of the Museum took an active part in its organization and equipment. A succession of misfortunes and difficulties which befell this expedition made it desirable for him to go personally upon the relief expedition sent out in 1915, and this in turn met with unexpected difficulties which enforced a prolonged stay of nearly two years in the camp at Etah. Since his return he had made a series of field trips in connection with the physiographic relief maps planned and under way, and at the time of his death was about to leave for a trip to southwestern Texas to study the details of the Van Horn model.

Secretarial Service. Doctor Hovey was for fifteen years (1907-1922) the secretary of the Geological Society of America, and was very largely concerned with advancing the growth and prosperity and maintaining the high standards of that great and influential association of working geologists. The high value placed by his associates upon his services to American geology was evinced in an address and loving cup presented upon the occasion of his retirement in 1922. He was also recording secretary of the New York Academy of Sciences from 1907-1916. Here also the value of his highly competent and efficient service was greatly appreciated by his fellow members. He was a regular attendant at the International Geological Congresses from 1903 until their temporary cessation during the war period, taking an unostentatious but always influential part in the discussions and proceedings of the congress. As delegate from the Museum he attended in 1920 and 1923 the Pan-Pacific Congresses in Hawaii and Australia respectively.

Doctor Hovey's wide personal acquaintance among geologists, and the respect entertained for his knowledge, experience and judgment, enabled him to do much to advance the influence of the American Museum both at home and abroad.

His colleagues have learned through many years of collaboration to value his straightforward honesty of mind and purpose, his unselfish devotion to the interests of the Museum and of science, his fairmindedness and temperate expression—and his death leaves us all with a deep sense of personal loss.

Be it therefore resolved that the scientific staff of the Museum desires to record its deep appreciation of Doctor Hovey's character and services and to mourn the passing of their colleague and friend as a heavy loss to the Museum, to science and to the large circle of his associates and steadfast friends.

During the year the following promotions and appointments were made in the Scientific Staff:

Frederic A. Lucas, Sc.D., was made Honorary
Staff Director.
Changes

George H. Sherwood, A.M., Executive Secretary,
was made Acting Director and Executive Secretary.

Robert Cushman Murphy, D.Sc., was promoted from Assistant to the Director to Assistant Director (in Scientific Correspondence, Exhibition and Labeling).

James L. Clark was promoted from Assistant to the Director to Assistant Director (in Full Charge of Preparation).

W. D. Matthew, Ph.D., was appointed Curator-in-Chief of the Department of Vertebrate Palæontology.

Frank M. Chapman, Sc.D., was appointed Curator-in-Chief of the Department of Ornithology.

Clark Wissler, Ph.D., was appointed Curator-in-Chief of the Department of Anthropology.

Roy C. Andrews, A.M., was promoted from Associate Curator of Mammals of the Eastern Hemisphere to Curator-in-Chief of Division IV (Division of Asiatic Exploration and Research).

George H. Sherwood, A.M., was appointed Curator-in-Chief of the Department of Public Education.

Ralph W. Tower, Ph.D., was appointed Curator-in-Chief of the Department of Library and Publications.

G. Kingsley Noble, Ph.D., was promoted from Associate Curator in Charge to Curator of the Department of Herpetology.

G. Clyde Fisher, Ph.D., was promoted from Associate Curator in the Department of Public Education to Curator of Visual Instruction in the Department.

Herbert Lang was promoted from Assistant Curator of African Mammals to Associate Curator of African Mammals.

S. H. Chubb was promoted from Assistant Curator in the Department of Comparative Anatomy to Associate Curator in the Department of Comparative and Human Anatomy.

Louis R. Sullivan, Ph.D., was promoted from Assistant Curator of Physical Anthropology to Associate Curator of Physical Anthropology.

Walter Granger was appointed Associate Curator in Palæontology in Division IV.

Frederick K. Morris, A.M., was appointed Associate Curator in Geology and Geography in Division IV.

H. C. Raven was appointed Assistant Curator in the Department of Comparative and Human Anatomy.

J. Alden Mason, Ph.D., was appointed Assistant Curator of Mexican Archæology.

Miss Mary Greig was promoted from Assistant to Assistant Curator in the Department of Public Health.

Clifford H. Pope was appointed Assistant in Zoology of Division IV.

Charles P. Berkey, Ph.D., was appointed Research Associate in Geology, Division IV.

Amadeus W. Grabau, S.D., was appointed Research Associate in Division IV.

Charles H. Townsend, Sc.D., was appointed Research Associate in the Department of Ichthyology.

Mrs. Elsie M. B. Naumburg was promoted from Research Assistant to Research Associate in Ornithology.

At the close of the year, Herbert F. Schwarz, A.M., who had filled the post of Editor of *Natural History* for four years, resigned in order that he might devote his time to his entomological studies. His resignation was accepted with regret.

LIST OF MEMBERS

December 31, 1924

FOUNDERS

This class of members is composed of the incorporators of the Museum

WILLIAM T. BLODGETT*
JOSEPH H. CHOATE*
ROBERT COLGATE*
CHARLES A. DANA*
A. G. PHELPS DODGE*
BENJAMIN H. FIELD*
WILLIAM A. HAINES*
ADRIAN ISELIN*

MORRIS K. JESUP*
J. PIERPONT MORGAN*
HENRY PARISH*
HOWARD POTTER*
THEODORE ROOSEVELT*
BENJAMIN B. SHERMAN*
D. JACKSON STEWARD*
ROBERT L. STUART*

JOHN DAVID WOLFE*

BENEFACTORS

By contribution of \$50,000 or upward to the Museum

GEORGE F. BAKER
JAMES M. CONSTABLE*
CLEVELAND H. DODGE
JAMES DOUGLAS*
AMOS F. ENO*
CHILDS FRICK
EDWARD S. HARKNESS
ARCHER M. HUNTINGTON
ARTHUR CURTISS JAMES
MORRIS K. JESUP*
MRS. MORRIS K. JESUP*
A. D. JUILLIARD*
MRS. A. D. JUILLIARD*

DARIUS OGDEN MILLS*
OGDEN MILLS
J. P. MORGAN
J. PIERPONT MORGAN*
HENRY FAIRFIELD OSBORN
GEO. D. PRATT
PERCY R. PYNE*
JOHN D. ROCKEFELLER, JR.
MRS. RUSSELL SAGE*
MRS. ROBERT L. STUART*
CORNELIUS VANDERBILT*
WM. H. VANDERBILT*
FELIX M. WARBURG

HARRY PAYNE WHITNEY

*Deceased

ASSOCIATE FOUNDERS*By contribution of \$25,000 to the Museum*

GEORGE S. BOWDOIN*	OGDEN MILLS
JAMES M. CONSTABLE*	J. P. MORGAN
CLEVELAND H. DODGE	OSWALD OTTENDORFER*
WILLIAM E. DODGE, 2D*	PERCY R. PYNE
CHILDS FRICK	WILLIAM ROCKEFELLER*
HENRY O. HAVEMEYER*	MISS PHEBE ANNA THORNE*
ARCHER M. HUNTINGTON	CHARLES E. TILFORD*
ADRIAN ISELIN	MRS. JOHN B. TREVOR*
ARTHUR CURTISS JAMES	CORNELIUS VANDERBILT, 1ST*
A. D. JUILLIARD*	FELIX M. WARBURG
CHARLES LANIER	HARRY PAYNE WHITNEY
	WILLIAM C. WHITNEY*

ASSOCIATE BENEFACTORS*By contribution of \$10,000 to the Museum*

HUGH AUCHINCLOSS*	ADRIAN ISELIN*
GEORGE F. BAKER	ADRIAN ISELIN
EMIL C. BONDY*	ARTHUR CURTISS JAMES
GEORGE S. BOWDOIN*	D. WILLIS JAMES*
FREDERICK F. BREWSTER	A. D. JUILLIARD*
JOSEPH H. CHOATE*	FRANK W. KITCHING*
ROBERT COLGATE*	MRS. FRANK W. KITCHING
THOMAS DEWITT CUYLER*	CHARLES LANIER
BENJAMIN P. DAVIS*	JOSEPH F. LOUBAT
HENRY P. DAVISON*	OGDEN MILLS
DR. BASHFORD DEAN	J. P. MORGAN
CLEVELAND H. DODGE	HENRY FAIRFIELD OSBORN
WILLIAM E. DODGE, 2D*	PERCY R. PYNE
MRS. WILLIAM E. DODGE*	JOHN D. ROCKEFELLER, JR.
MRS. JOSIAH M. FISKE*	WILLIAM ROCKEFELLER*
JAMES B. FORD	MRS. RUSSELL SAGE*
CHILDS FRICK	WM. R. SANDS*
HENRY C. FRICK*	JACOB H. SCHIFF*
MRS. HENRY C. FRICK	ROBERT L. STUART*
ANSON W. HARD*	JOHN B. TREVOR
ARCHER M. HUNTINGTON	MRS. JOHN B. TREVOR*
HENRY IDEN*	FELIX M. WARBURG
	HARRY PAYNE WHITNEY

*Deceased

PATRONS

By contribution of \$1,000 to the Museum

EDWARD D. ADAMS	ANDREW CARNEGIE*
MRS. CHARLES B. ALEXANDER	HAZEL DORIS CARTIER
JOHN ANDERSON*	DR. WALTER CHANNING*
JAMES ANGUS*	JOSEPH H. CHOATE*
HICKS ARNOLD*	JOHN J. CLANCY*
RICHARD ARNOLD*	B. PRESTON CLARK
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 Crocker, Miss Helen
 Crocker, William H.
 Crocker, W. T.
 Crockett, Mrs. Stuart
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 Cromwell, Lincoln
 Cromwell, Seymour L.
 Crosby, Maunsell S.
 Cross, George D.
 Cross, Miss M. R.
 Cross, Mrs. R. J.
 Cross, W. R.
 Crossley, G. R.
 Crow, Chas. S.
 Crozer, John P.
 Crozier, Maj-Gen. William
 Crump, Dr. Armistead C.
 Cuddihy, Arthur B.
 Cullman, Jos. F.
 Cunningham, Francis de L.
 Cunningham, W. de L.
 Curie, Chas.
 Curiel, H.
 Currie, Mark Douglas
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 Curtis, F. Kingsbury
 Curtis, G. Warrington
 Curtis, Mrs. James F.
 Curtis, Ronald Eliot
 Curtis, W. J.
 Curtiss, Franklin
 Curtiss, Roy
 Cushing, Howard G., Jr.
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 Cushman, James Stewart
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 Cutler, J. Warren
 Cutter, Ralph L.
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- Daily, George M.
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 Dale, Chester
 Dallett, Frederic A.
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 Danforth, Mrs. Francis J.
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 Daniel, Mrs. Robert W.
 Daniels, Lorenzo
 Daniels, Mrs. Lorenzo
 Danziger, Virginia
 Darlington, Clinton Pelham
 Dashew, Jacob
 Dater, John Grant
 Davenport, Chas. B.
 Davenport, Mrs. Ira
 Davenport, Wm. B.
 Davenport, Wm. R.
 Davey, Wm. Nelson
 Davidge, Wm. H.
 Davidson, De Witt A.
 Davie, Mrs. Preston
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 Davis, Gherardi
 Davis, John W. A.
 Davis, Leonard M.
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 Davis, R. C.
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 Davis, Warren J.
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 de Forest, Johnston
 de Forest, Lockwood
 de Forest, Robert W.
 de Forest, Mrs. Robert W.
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 Degener, Otto
 Degener, Paul A.
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 De Golyer, E.
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 Delafield, Lewis L., Jr.
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 De Lanoy, William C.
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 de Long Mrs George B.
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 Deming, L. C.
 Dempsey, Geo. C.
 Demuth, Leopold
 Denby, Edwin H.
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 Charles Halbert
 Denison, Lucile G.
 Denny, Mrs. Lucy W.
 Denton, Dr. Myron P.
 de Perigny, Comtesse
 Deppé, W. P.
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 De Sola, Solomon, D.D.S.
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 Detmer, Julian F.
 Deutsch, Lee
 De Vinne, T. B.
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 De Witt, Benjamin P.
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 Dick, Madeleine T.
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 Dominick, Mrs. George F., Jr.
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 Dommerich, L. W.
 Dommerich, O. L.
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 Douglas, Rev. Winfred
 Douglas, Wm. Harris
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 Douglass, Mrs. G. A.
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- Dunning, Dr. William B.
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 Dwight, P. D.
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 Eimer, August
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 Erdmann, Martin
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 Erstein, Benedict

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 Filley, Oliver D.
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 Fischer, Hermann, M.D.
 Fischer, T. Tasso
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 Fisher, Howell
 Fisher, Samuel H.
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 Flanagan, John R.
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 Fleitmann, William

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 Frank, Jerome W.
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 Frankel, Herbert
 Frankel, Jacob L.
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 Frankenstein, Edwin
 Frankfeld, B.
 Franklin, George S.
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 M.D.
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 Fraser, Miss J. K.
 Fraser, Miss S. Grace
 Fraser, Wm. A.
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 Frederick, Mrs. Leopold

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 Randolph
 Frothingham, Robert
 Frothingham, William I.
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 Fuld, Henry
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 Fulle, John H.
 Fuller, Mrs. Eugene
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 Fulton, Robert Edison
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 Galban, Eugenio
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 Gallatin, Albert
 Gallatin, Mrs. Albert

 Gallatin, Goelet
 Gallowhur, W. G.
 Gamble, James N.
 Gammell, R. H. Ives
 Gans, Nathan
 Gantz, Aaron
 Gardin, John E.
 Gardiner, Mrs. Robert A.
 Gardner, W. A.
 Garfunkel, Aaron
 Garrard, Miss Margaret H.
 Garrett, John W.
 Garrett, Miss Laura B.
 Garrett, Mrs. Thos., Jr.
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 Gartland, George E.
 Garvan, Mrs. F. P.
 Garver, John A.
 Gaston, Wm. G.
 Gatti-Casazza, Giulio
 Gavin, Robert O.
 Gawtry, Lewis B.
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 Geer, Walter
 Geigerman, Charles
 Geller, Frederick
 Gerrish, Frank Scott
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 Gibb, Dr. W. Travis
 Gibson, Miss Florence Wier
 Gibson, W. Frazer
 Gifford, E. Garfield
 Gifford, Walter S.
 Gilbert, Miss Ellen G.
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 Gilchrist, George R. E.
 Gill, Kermode F.
 Gillespie, Samuel H.
 Gilsey, Margaret
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 Gintzler, Morris
 Girden, B. B.
 Gladding, J. R.
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 Glazier, Henry S.
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 Glenn, John M.
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 Glyn, W. E.
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 Godfrey, Mrs. E. D.
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 Goldsmith, Mrs. H. B.
 Goldsmith, James A.
 Goldsmith, Mrs. Maurice
 Goldstone, Abraham¹ L.
 Goldwasser, I. Edwin
 Goldwater, Henry
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 Goodenough, Robert J.
 Goodfriend, Jacob
 Goodfriend, Meyer
 Goodhue, Chas. E.
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 Gordon, Walter R.
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 Gould, Harry
 Gould, Horace S.
 Gould, Lyttleton B. P.

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 Graham, Dr. John C.
 Graham, Miss M. D.
 Grandin, George Wilbert
 Grant, Adolph
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 Grasselli, C. A.
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 Borland
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 Greenstein, Dr. Harry
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 Greims, Mrs. Herbert
 Spencer
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 Grinnell, E. Morgan
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 Gross, James S.
 Gross, Moritz
 Grossmann, Mrs. Edward A.
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 Howard, M.D.
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 Gruenstein, B. M.
 Grundner, Mrs. M.
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 Gude, O. J.

Guernsey, Henry William
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 Guggenheim, Mrs. Simon
 Guggenheim, William
 Guggenheimer, Mrs. J. Cæsar
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 Gunari, Andrew P.
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 Hackett, Frank S.
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 Haggin, Mrs. Terah
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 Hall, Henry J. S.
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 Halsey, Harold V. W.
 Halsey, Herbert D.
 Halsey, Robert H.
 Halsey, R. T. H.
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 Hamerschlag, Royal P.
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 Alexander J.
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 Harlem Academy
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Healy, M. A.	Herzog, Paul M.	Hodenpyl, Annie P.
Heck, George C.	Herzog, Samuel A.	Hodenpyl, Anton G.
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Heckscher, Mrs. G. Maurice	Hess, Victor R.	Hodgdon, Frederick C.
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Heide, Henry, Jr.	Hewitt, Mrs. Lucy W.	Hoe, Mrs. Robert
Heide, Herman L.	Hewlett, Louis	Hoffman, Charles L.
Heide, William F.	Hewlett, Walter Jones	Hoffman, Charles W.
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 Hudson, Marjorie V. L.
 Huffman, Dr. Otto V.
 Hughes, Charles E., Jr.
 Huidekoper, Edgar
 Hull, Mrs. A. G.
 Hull, Miss Elizabeth A.
 Hulswit, Frank T.
 Humphrey, Martha K.
 Humphreys, Frederic E.
 Humphreys, Mrs. Geo. H.
 Hunt, Henry T.
 Hunt, Seth B.
 Hunt, Mrs. Thomas
 Hunt, W. Roger
 Hunter, Arthur M.
 Hunter, George Leland
 Hunter, Jeremiah
 Hunter, S. J.
 Hunter, Stephen C.
 Huntington, F. J.
 Huntington, Mrs. Francis C.
 Huntington, Mrs. R. P.
 Hüpfel, Adolph G.
 Hüpfel, Chris. G.
 Hüpfel, J. Chr. G.
 Hurd, Dr. Lee M.
 Hurd, R. M.
 Hurlbut, Miss Margaret C.
 Huron, George B.
 Hurst, Mrs. Albert Edward
 Hutcheson, Wm. A.

Hutchins, A. S.
 Hutchins, Mrs. R. G.
 Hutzler, George H.
 Huyler, C. D.
 Huyler, David
 Huyler, Frank DeK.
 Hyatt, A. M.
 Hyde, A. Fillmore
 Hyde, Mrs. Augustus L.
 Hyde, Mrs. Clarence M.
 Hyde, Courtney
 Hyde, E. Francis
 Hyde, Miss Hazel
 Hyde, Seymour Worrall
 Hyman, Abraham, M.D.

Ihlseng, Dr. Magnus C.
 Imboden, Harry M.
 Ingalls, Mrs. F. Abbott
 Ingalls, Fay
 Ingersoll, Mrs. Ernest
 Ingersoll, Jonathan
 Ingraham, Geo. L.
 Ingraham, Mrs. George
 Ingraham, Mrs. Phoenix
 Inman, John H.
 Innes, O. G.
 Inslee, Edwin W.
 Irwin, William Fletcher
 Isaacs, Stanley M.
 Iselin, C. Oliver
 Iselin, Mrs. C. Oliver
 Iselin, Miss Georgine
 Iselin, Lewis
 Iselin, Mrs. William E.
 Iselin, Wm. E.
 Isham, Dr. Mary Keyt
 Isham, William B.
 Isham, Mrs. Wm. B.
 Ising, Charles Eugene

Jackson, Mrs. C. D.
 Jackson, Francis DeMilt
 Jackson, Mrs. Frederic W.
 Jackson, Frederick W.
 Jackson, Mrs. Percy

Jackson, Robert A.
 Jackson, Samuel
 Jacobs, E. Louis
 Jacobus, John S.
 Jacoby, George W.
 Jaeckel, Albert F.
 Jaffray, Robert
 Jais, Jacob D.
 James, Ellerton
 James, Henry
 James, Mrs. Walter B.
 James, Mrs. Wortham
 Jameson, Mrs. Edwin C.
 Jamison, Dr. A. B.
 Jansen, Ed.
 Janvrin, Edmund R. P., M.D.
 Jarecky, Dr. Herman
 Jaretzki, Mrs. Alfred
 Jarvie, James N.
 Jarvis, N. S., M.D.
 Jefferson, John Percival
 Jenkins, A. C.
 Jenkins, Alfred W.
 Jenks, Mrs. Robert I.
 Jennings, Miss A. B.
 Jennings, Percy H.
 Jennings, Mrs. Percy Hall
 Jennings, Mrs. Philip B.
 Jennings, Robt. E.
 Jennings, Walter
 Jephson, George S.
 Jermain, Miss M. C.
 Jetter, J. Edward
 Jewett, George L.
 (In Memoriam)
 John, Robert
 Johnson, Mrs. Bradish
 Johnson, Evangeline B.
 Johnson, F. Elmer, M.D.
 Johnson, Gilbert H.
 Johnson, Leeds
 Johnson, Reginald M.
 Johnson, Mrs. S. Pitney
 Johnson, Thos. W.
 Johnson, Wilbur S.
 Johnson, Wm. C., M.D.
 Johnson, Mrs. Wm.

Templeton

Johnston, J. Herbert
 Johnston, Mrs. J. Herbert
 Johnston, Dr. Marius E.
 Jonas, Ralph
 Jones, Mrs. Adam Leroy
 Jones, A. H.
 Jones, Arthur J.
 Jones, Arthur W., Jr.
 Jones, Bassett
 Jones, Mrs. Cadwalader
 Jones, De Witt Clinton
 Jones, Mrs. Dwight A.
 Jones, Edwin Artimus
 Jones, Francis C.
 Jones, Frank Morton
 Jones, H. Bolton
 Jones, Mrs. Paul T.
 Jones, William B.
 Jones, William R.
 Jones, W. Strother
 Joseph, Mrs. John A., Jr.
 Josephthal, Louis M.
 Judson, William D.
 Julian, R. L.
 Jungbluth, Karl

Kachurin, Philip
 Kahle, Mrs. Julie
 Kahn, Arthur J.
 Kahn, Dr. Morton C.
 Kahn, Otto
 Kahn, Otto H.
 Kahn, Dr. Robert Johnstone
 Kahn, Walter N.
 Kahrs, J. Henry
 Kahrs, W. H., M.D.
 Kalbfleisch, Franklin H.
 Kallman, Max S.
 Calvin, Nathan
 Kane, Mrs. De Lancey
 Kane, Miss Sybil Kent
 Kann, N.
 Kaplan, Saml. M.
 Karsen, Frank E., Jr.
 Karsch, Bernard
 Kaskel, Max
 Kassing, Edwin S.

Kastor, Adolph
 Kathan, Reid A.
 Kaufmann, Charles B.
 Kaufmann, Ernst B.
 Kaufmann, H. M.
 Kaufmann, Irma H.
 Kaufmann, Julius
 Kaufmann, Max
 Kaufmann, Mrs. M. J.
 Kayser, Albert G.
 Kayser, Henry A.
 Keagey, Esther
 Kean, Mrs. Hamilton Fish
 Kean, John
 Kean, Robert Winthrop
 Keasbey, Frederick W.
 Keech, Mrs. Frank Browne
 Keeler, Mrs. Charles
 Bradley
 Keen, Barton L.
 Keene, Charles S.
 Keep, C. H.
 Keigwin, Rev. Dr. A. Edwin
 Keith, Henry M.
 Keith, Minor C.
 Keith, Mrs. Minor C.
 Kelchner, William W.
 Keller, Charles G.
 Keller, Joseph F.
 Keller, Morris
 Kelley, Augustus W.
 Kelley, Cornelius F.
 Kelley, Nicholas
 Kellogg, Mrs. Frederic R.
 Kellogg, L. D.
 Kellogg, Mrs. Morris W.
 Kellogg, Mrs. R. S.
 Kelly, Charles P.
 Kemmerer, M. S.
 Kemp, Prof. James F.
 Kempner, Elias
 Kennedy, Dr. Harris
 Kennedy,
 Mrs. H. Van Rensselaer
 Kennedy, James J.
 Kennedy, Mrs. John S.
 Kennerley, Mrs. M.
 Kennerly, M. M.

- Kent, Edwin C.
 Kent, G. H.
 Kenyon, John N.
 Keppel, David
 Kern, William M.
 Kerr, E. Coe
 Kerr, John B.
 Kerr, John Clapperton
 Kerrison, Dr. Philip D.
 Kerrison, Mrs. Philip D.
 Kessel, Leo, M.D.
 Keuffel, W. G.
 Keyes, Dr. E. L.
 Kibbee, W. B.
 Kieger, Emil L.
 Killeen, Edward V.
 Kilner, S. E.
 Kilsheimer, James B., Jr.
 Kimball, Mrs. C. W., Jr.
 Kimbel, Anthony
 Kimbel, Henry
 King, Mrs. Edward
 King, Herbert T.
 King, Miss Isabella C.
 King, James Gore
 King, Jerome A.
 Kingsford, Daniel P.
 Kingsford,
 Miss Margaret S.
 Kingsley, W. M.
 Kinney, Morris
 Kinney, Warren
 Kip, Clarence Van S.
 Kip, William F.
 Kip, W. Ruloff
 Kirby, Cornelia T.
 Kirby, Sarah L.
 Kirchberger, M.
 Kirkpatrick, John
 Kissel, Mrs. G. E.
 Kissel, W. Thorn
 Kitchel, Allan F.
 Kittredge, George W.
 Kittredge, S. Dana
 Klass, G. P.
 Klee, Sigmund
 Klein, D. Emil
 Klein, Mrs. Joseph J.
 Klein, Leo M.
 Kleinberger, François
 Klenke, William H.
 Klingenstein, Charles
 Kloh, Alphonse
 Klugman, Julius
 Knapp, Edward J.
 Knapp, Joseph P.
 Knapp, William Jared
 Knight, Mrs. J. P., Jr.
 Knoblauch, Geo. W.
 Knoedler, Roland F.
 Knowlton, Eben B.
 Kobbé, Frederick Wm.
 Koch, Wilhelm
 Koch, William F.
 Koehler, Robert Portner
 Koehn, Walter H.
 Koenig, Otto
 Kohler, Miss M. E.
 Kohn, Albert M.
 Kohn, Mrs. E. B. D.
 Kohn, Emil W.
 Kohn, Mrs. Walter T.
 Kohns, Lee
 Kohnstamm, Lothair S.
 Koles, Henry M., M.D.
 Konta, Alexander
 Kopetzky, Samuel J., M.D.
 Kops, Mrs. Max
 Korn, Robert
 Kosmak, Geo. W., M.D.
 Kovacs, Dr. Richard
 Krakeur, Arthur F.
 Krakeur, Jacques
 Krause, Holger E.
 Krauser, John F.
 Kremer, Mrs. William N.
 Kress, Claude W.
 Kress, R. H.
 Kridel, Alexander H.
 Kridel, Mrs. Samuel
 Kruttschnitt, Julius
 Kudlich, H. C.
 Kugelman, Julius G.
 Kuhirt, Geo. A.
 Kuhn, Arthur K.
 Kuhn, August
 Kuhn, Edward
 Kuhn, Julius
 Kuhn, Mrs. Walt
 Kursheedt, Roland S.
 Kurzman, Charles C.
 Kuser, Mrs. Anthony R.
 Kuser, John Dryden
 Kuttroff, Adolf
 Lacombe, E. Henry
 Ladd, William Sargent, M.D.
 Ladd, W. M.
 La Dow, Stanley V.
 LaFarge, O. H. P.
 Lagai, Dr. G.
 Lage, Frederico
 Lagemann, C.
 Lagowitz, Miss H. L.
 Lamarche, Mrs. Henry J.
 Lamb, Dr. Albert R.
 Lamb, Gilbert D.
 Lambelet, Mrs. H.
 Lambert, Adrian V. S.
 Lambert, Alexander
 Lambert, Samuel W.
 Lambert, Vitus C.
 Lamprecht, Theodore H.
 Lancashire, Mrs. J. H.
 Lanchner, Dr. S. H.
 Landon, Francis G.
 Landon, Henry Hutton
 Landsman, Samuel M., M.D.
 Lane, Mrs. Edward V. Z.
 Lane, James Warren
 Lane, Melvin
 Lane, Wolcott G.
 Lange, Gustav, Jr.
 Lange, Nancy C.
 Langeloth, Mrs. Jacob
 Langley, Mrs. William C.
 Langmann, Mrs. G.
 Langstadter, Aaron
 Langzettel, Mrs.
 Marion B. B.
 Lanier, Reginald B.
 Lapham, Mrs. John J.
 Lapham, Lewis H.

Lapsley, Anna Welsh
 la Rosa, Carlos, Jr.
 Lathers, Miss Ida
 Lathrop, Alanson P.
 Lauder, Mrs. Geo., Jr.
 Lauer, Edgar J.
 Lauscher, Mrs. Ad.
 Lauten, Henry G. F.
 Lavelle, M. J.
 Lawrence, Emlen N.
 Lawrence, Miss Margaret
 Lawrence School
 Lawrence, Townsend
 Lawrence, W. V.
 Lawton, William W.
 Layng, Mrs. Jas. D., Jr.
 Lea, Charles M.
 Leach, Mrs. Henry G.
 Leach, Henry Goddard
 Leale, Charles A., M.D.
 Leary, Mrs. George
 Leavitt, Mrs. Charles W.
 Leberman, Jacob
 Le Blanc, Alfred
 LeBloas, Jean
 Ledyard, Mrs. Lewis Cass
 Lee, Mrs. Arthur
 Lee, Charles H.
 Lee, Charles N.
 Lee, Frederic S.
 Lee, Ivy L.
 Lee, J. W., Jr.
 Lee, Dr. Marguerite T.
 Lee, Samuel
 Leewitz, Adolph
 Le Fevre, C. R.
 Lefferts, Mrs. Barent
 Lefferts, Marshall C.
 Legg, George
 Leggett, Clinton H.
 Lehmaier, James M.
 Lehmaier, Mrs. Louis A.
 Lehman, Arthur
 Lehman, Harold M.
 Lehman, I. Howard
 Lehman, Irving
 Leigh, R. Walter
 Leland, Mrs. Amory

Lemp, Louis
 Leo, Brother
 Leon, Henry
 Leonori, Charles L.
 Lerner, Michael
 Lerner, Samuel A.
 Le Roy, Mrs. E. A.
 LeRoy, Dr. Louis C.
 Lesser, Leon M., M.D.
 Lesser, Mrs. S. D.
 Lester, A. Edward
 Lester, George Bacon
 Leupp, Wm. H.
 Levenson, Edward, D.D.S.
 Leventritt, David
 Levi, Mrs. Albert A.
 Levi, Mrs. Carl
 Levi, Emil S.
 Levi, George
 Levi, Philip J.
 Levine, Edmund J.
 Levison, Benno
 Levy, B. E.
 Levy, Edgar A.
 Levy, Ephraim B.
 Levy, John
 Levy, Louis S.
 Levy, Moe
 Levy, Willy
 Lewengood, Miss Helen
 Lewis, Mrs. August
 Lewis, C.
 Lewis, Esther J.
 Lewis, Mrs. Eugene
 Lewis, Mrs. Frederic Elliott
 Lewis, John W Jr.,
 Lewis, Montgomery H.
 Lewis, Dr. Robert
 Lewis, Robert Parker
 Lewis, Wm. J., M.D.
 Lewisohn, Miss Irene
 Lewisohn, Sam A.
 Lewisohn, Mrs. Samuel A.
 Lexow, Mrs. Allan
 Liberta School
 Lichtenstein, Oscar R.
 Lichtenstein, Mrs. Paul

Lieb, Charles C., M.D.
 Lieb, J. W.
 Lieber, Dr. Hugo
 Liebmann, Mrs. Charles J.
 Liebmann, Samuel
 Lilienthal, Albert M.
 Lilienthal, Dr. Howard
 Lilienthal, Jos. L.
 Lillibridge, Harrison
 Limburg, Herbert R.
 Lincoln, Mrs. Lowell, Jr.
 Lindenmeyr, Fritz
 Lindsay, C. Seton
 Lindsey, Edward
 Lion, Oscar
 Lippincott, Miss M. T.
 Lisman, Frederick J.
 Lissauer, Robert
 Lissberger, Miss Alma L.
 Lissberger, Milton L.
 Littauer, Lucius N.
 Little, Bascom
 Littlefield, Chas. W.
 Litwin, Mrs. M. A.
 Livermore, Mrs. John R.
 Livermore, John Walton
 Livingston, Miss A. P.
 Livingston, Archibald R.
 Livingston, Henry S.
 Livingston, Philip
 Lloyd, Mrs. Francis G.
 Lobenstine, Mrs. Wm. C.
 Lobsenz, Jacob Munter, M.D.
 Lobsitz, Maurice
 Lockwood, Dr. George Roe
 Loeb, C. M.
 Loeb, J.
 Loeb, Mrs. Morris
 Loeb, Mrs. William, Jr.
 Loewenthal, Mrs. Julius
 Loewenthal, Walter
 Loewi, Hugo V.
 Long, Miss Emilie O.
 Long, Louis
 Loomis, C. C.
 Lord, Daniel M.
 Lorenz, Mrs. Leo
 Lorsch, Arthur

Lorsch, Henry
 Louderback, Arthur E.
 Lough, W. H.
 Lounsbery, Richard
 Lovett, Robert A.
 Lovett, R. S.
 Low, Ethelbert I.
 Low, Mrs. Seth
 Low, William Gilman, Jr.
 Lowenheim, Fredk.
 Lowenstein, Oscar
 Lowndes, M. E.
 Lowrey, Mrs. G. C. W.
 Lowther, Christopher M.
 Lowther, George
 Ludington, Charles H.
 Ludlow, Mrs. Banyer
 Ludlum, Albert C.
 Ludlum, C. A.
 Lueder, E. L.
 Lueders, George
 Lufkin, E. C.
 Luke, Adam K.
 Luke, David L.
 Lumb, Henry A.
 Lummis, Benjamin Rush
 Lundquist, Miss G.
 Luquer, Lea Shippen
 Lusk, Miss Anna H.
 Lustbader, Samuel Jr.
 Lybrand, William M.
 Lyeth, J. M. R.
 Lyeth, John C.
 Lyman, Grace Greenleaf
 Lyman, Robert H.
 Lyman, W. H.
 Lynch, Mrs. John H.
 Lynch, W. J. Turner
 Lyons, Howard J.

Maas, Milton A.
 Mabon, J. B.
 MacCracken, Mrs. George

Gore

MacCurdy, George Grant
 Macdonald, Rev. Wilson
 Macfarlane, Wm. M.

Mack, Arthur C.
 Mack, Arthur J.
 Mack, Fred. A.
 MacKee, Geo. M.
 Mackenzie, Kenneth K.
 Macleod, William P.
 MacMurray, C. F.
 Macy, W. Kingsland
 Madden, William Jay
 Mager, F. Robert
 Mainzer, Herbert R.
 Mainzer, Robert H.
 Mallet-Prevost, S.
 Mallory, Mrs. Charles
 Malone, L. Wm.
 Manchester, Percival
 Mandell, K.
 Mandlebaum, Dr. F. S.
 Manges, Dr. Morris
 Mannes, David
 Mansfield, Howard
 Mantle, J. G. C.
 Manville, H. Estelle
 Manz, Gustav
 Mapes, Eugene E.
 Marble, William A.
 Marbury, Miss Elisabeth
 Marekwald, A. H.
 Marcus, B. K.
 Marcus, Samuel
 Marcuse, Alexander J.
 Marcuse, Bernhard
 Markle, John
 Markle, Mrs. John
 Marsh, Arthur E.
 Marsh, Charles Capron
 Marshall, Charles A.
 Marshall, Charles C.
 Marshall, Robert P.
 Marshall, W. F.
 Marston, Edgar J.
 Marston, Edgar L.
 Martin, Bradley
 Martin, Mrs. Grinnell
 Martin, Robert W.
 Martin, Thomas W., M.D.
 Martin, Walton, M.D.
 Marvin, Langdon Parker

Masback, Robert J.
 Mason, Charles N.
 Mason, Miss Fanny P.
 Mason, Mrs. George Grant
 Mason, M. D.
 Massey, Mrs. George
 Massey, Miss Harriet F.
 Masters, Francis R.
 Masters, Sarah W.
 Mastin, Mrs. J. Edward
 Mather, Samuel
 Mathesius, Fredk., Jr.
 Matheson, Wm. J.
 Mathews, Dr. Frank S.
 Mathewson, Charles E.
 Maxwell, George T.
 Maxwell, Henry L.
 Maxwell, Howard W.
 May, Sir George
 May, George O.
 Mayer, Joseph L. B.
 Mayer, Josh. W.
 Mayer, Dr. Leo
 Mayer, M. R.
 Mayer, Nelson B.
 Mayer, Mrs. R. A. de Lima
 McAdoo, William
 McAfee, John Knox
 McAleenan, Joseph A.
 McAlpin, Dr. D. H.
 McAlpin, Kenneth R., M.D.
 McAlpin, Wm. W.
 McBride, Mrs. Herbert
 McBride, Thomas J.
 McBride, Wm. M.
 McCagg, Louis B.
 McCall, John C.
 McCarthy, J. M.
 McCarty, Harry C.
 McClure, Samuel G.
 McComas, The Rev. Jos. P.
 McCook, Philip J.
 McCormick, Miss Parker
 McCourt, James
 McCrea, W. S.
 McCreery, Henry Forbes
 McCulloh, Charles S.
 McCulloh, James S.

McCurdy, Robert H.	Weeks, Howard V.	Miller, J. E.
McCutchen, Chas. W.	Mehl, Henry	Miller, Mrs. Mabel P.
McDuffie, Marshall William	Meigs, Mrs. Ferris J.	Miller, Miss Margaret
McElheny, Victor K., Jr.	Meinhard, Morton H.	Miller, Nathan J.
McFadden, Mrs. W. A.	Meister, Albert	Miller, Roswell
McFarland, Warren C., M.D.	Melcher, John S.	Miller, Mrs. Roswell, Jr.
McGinley, J. R.	Mellen, Chase	Miller, Simon
McGraw, Stanley D.	Meloy, Andrew D.	Miller, William W.
McGregor, Robert	Mendes, Henry E.	Millett, Gardner W.
McIlhenny, E. A.	Menke, William	Millett, Miss Mary G.
McIlvaine, Tompkins	Mergentime, Mrs. Charles	Millett, Stephen C.
McIntyre, John G.	Merle-Smith, Van S.	Millhiser, Mrs. Clarence
McKay, R. G.	Merle-Smith, Mrs. Wilton	Milliken, Hugh K.
McKelvey, Charles W.	Merriam, Edwin W.	Mills, Dr. Adelaide
McKelvey, J. J.	Merriam, Henry F.	Mills, Frederic C.
McKelvy, Robert	Merrihew, George W.	Milne, Clyde
McKenney, Henry P.	Merrill, Edwin G.	Miner, Mrs. Charles
McKeown, Matilda J.	Merrill, John Lenord	Miner, Edward G.
McKernon, Dr. Jas. F.	Merrill, Mrs. Payson	Minford, Levis W.
McKim, John A.	Merritt, Dr. Arthur Hastings	Minot, Mrs. G.
McKim, Le Roy	Metcalf, Stephen O.	Minot, G. W.
McKinley, Lindsay P.	Metcalf, Mrs. Walter	Mitchell, Miss Addison
McKnight, Charles	Willson	Mitchell, A. M.
McKune, Clarence S.	Metcalf, Henry	Mitchell, C. E.
McLain, F. J.	Metzger, David	Mitchell, Mrs. John Murray
McLane, Mrs. Allan, Jr.	Meyer, Arthur S.	Mitchell, Wesley C.
McLane, Miss Elizabeth	Meyer, Mrs. Eugene, Jr.	Mitchell, Mrs. William
McLane, Miss Sophie	Meyer, Felix	Moffat, G. B.
Hoffman	Meyer, Harry H.	Moffatt, Mrs. R. Burnham
McLane, Thomas S.	Meyer, J. Edward	Moffit, Mrs. A. R.
McLaren, W. A.	Meyer, Dr. Julian J.	Mohlman, Mrs. John H.
McMahon, Rev. Joseph H.	Meyer, Max	Molleson, George A.
McManus, Edward F.	Meyer, Robert B.	Monaè-Lesser, Dr. A.
McMillan, Francis W.	Meyers, Edwin L.	Monaè-Lesser, Mozart
McNair, William	Mezes, S. E.	Montague, C. D.
McNall, Robert H.	Michalis, C. G.	Montgomery, A. Moore
McNaugher, David W.	Middlebrook, Frederic J.	Montgomery, Carleton
McNeir, George	Migel, J. A.	Montgomery, Charles S.
McNeir, Thomas S.	Milbank, Albert G.	Montgomery, Mrs.
McParlan, Dr. John P.	Millard, William J.	Henry Eglinton, 2d
McRoberts, Samuel	Miller, Mrs. Alice A.	Montgomery, Mrs. Lettie D.
McWilliams, Mrs. Josephine	Miller, Andrew J.	Montgomery, Robert H.
Mead, Carl A.	Miller, Mrs. Byron D.	Montross, N. E.
Mead, Charles N.	Miller, Mrs. Charles E.	Moody, Prof. Herbert R.
Mead, Mrs. E. Spencer	Miller, Clifford L.	Moore, Major Barrington
Mead, G. W.	Miller, Emanuel	Moore, Benjamin
Mead, Herbert, Jr.	Miller, Mrs. Henry Wise	Moore, Casimir de R.
Meeker, Henry E.	Miller, Mrs. H. R.	Moore, Mrs. Casimir de R.

Moore, Frederic P.
 Moore, Miss K. T.
 Moore, William A.
 Moot, Adelbert
 Moran, Chas.
 Morgan, Miss Anne
 Morgan, Mrs. Charles
 Morgan, E. D.
 Morgan, Shepard A.
 Morgan, W. Forbes, Jr.
 Morgan, Wm. Fellowes
 Morgan, Mrs. Wm. Fellowes
 Morgan, William O. P.
 Morgenthau, Henry
 Morgenthau, Mrs. Henry
 Morley, A. B.
 Morman, Mrs. Samuel A.
 Morrill, Amos
 Morris, Mrs. Dave H.
 Morris, Ira Nelson
 Morris, Joseph L.
 Morris, Lewis Spencer
 Morris, Louis M.
 Morris, Mrs. L. R.
 Morris, P. Randolph
 Morris, Theodore Wilson
 Morrison, A. Cressy
 Morrison, Mrs. Charles King
 Morrison, I. D.
 Morse, H. H.
 Morse, Perley
 Mortimer, Geo. T.
 Morton, Quincy L.
 Moschcowitz, Eli
 Moses, Mrs. E.
 Moses, Mrs. Henry L.
 Mosle, A. Henry
 Mosle, Max. A.
 Mosman, Philip A.
 Moss, Mrs. Frederick W.
 Mosson, Isidore
 Motley, Jas. M.
 Mott, Howard S.
 Mott, Mrs. J. L.
 Mott, Mrs. John B.
 Mott, Miss Marian
 Moulton, Miss Frances
 Mowry, Eugene C.

Moyer, Albert
 Muendel, Christina
 Muhlfeld, Frank J.
 Mulford, Edwin H.
 Mulford, Stockton
 Müller, Carl
 Müller, Mrs. Carl
 Muller-Schall, Fred.
 Mumford, William C.
 Mundy, Floyd W.
 Munn, Charles A.
 Munn, Dr. John P
 Munroe, Vernon
 Munsey, Frank A.
 Munson, C. W.
 Munson, S. L.
 Murphy, Charles F., Jr.
 Murphy, Deas, M.D.
 Murphy, Franklin
 Murphy, G. M.-P.
 Murphy, Henry Killam
 Murphy, James B.
 Murphy, Wm. C.
 Murray, F. W., M.D.
 Murray, J. Archibald
 Murray, R. D.
 Muschenheim, Fred. A.
 Myers, L.
 Myers, William S.
 Myers, Winter W.

Nadelman, Elie
 Nadelman, Mme. Elie
 Nagle, James Franklin
 Nash, Leo
 Nathan, Harold
 Nathan, Dr. Philip W.
 Naumburg, Aaron
 Naumburg, Walter W.
 Necarsulmer, Henry
 Neeser, John G.
 Nehring, Jules
 Neilson, Raymond P. R.
 Nesmith, James
 Neugass, Isidore
 Neuhoof, Dr. Harold
 Neustadt, Mrs. S.

New, Mrs. Sidney
 Newberry, Truman H.
 Newbold, Fredc. R.
 Newborg, M.
 Newborg, Sidney
 Newburger, Mrs. Lester M.
 Newcomb, H. T.
 Newcomb, Mrs. James E.
 Newcomb, James F.
 Newcomb, James G.
 Newhouse, Leo
 Newton, Mrs. Francis
 Newton, Rollin C.
 Nichols, Mrs. Chas. Walter
 Nichols, C. W.
 Nichols, Edward T.
 Nichols, Mrs. Edward T.
 Nichols, William B.
 Nicholson, John E.
 Nickerson, Hoffman
 Nicoll, Mrs. Benjamin
 Nicoll, Mrs. Fancher
 Nightingale, Miss Frances N.
 Nisbet, Dr. J. Douglas
 Niven, John Ballantine
 Noffsinger, Mrs. J. S.
 Nones, Walter M.
 Noonan, W. T.
 Norman, Mrs. Bradford
 Norris, Beverly Arden
 Norris, Charles
 North, George B.
 Norton, Mrs. Charles D.
 Norton, Mrs. N. R.
 Norton, W. P.
 Noyes, D. Raymond
 Nugent, Frank L.
 Nute, Mrs. John W.

Oakes, Geo. W. Ochs
 Oastler, Dr. F. R.
 Obermayer, Charles J.
 Obermeyer, Jos.
 O'Brien, Morgan J.
 Obrig, Mrs. Adolph
 Ochs, Adolph S.
 Offerman, John

- Ogden, Charles W.
 Ogden, Mrs. David B.
 Ogden, Geo. B.
 Ogint, Adam
 Ogle, Mrs. Ponsonby
 O'Gorman, Mrs. Richard
 Ohmes, Arthur K.
 Okey, Hazard
 Olcott, E. E.
 Oldroyd, Ida S.
 Olds, George S.
 Olin, S. H.
 Ollesheimer, Henry
 Olmsted, William Beach
 Olney, Elam Ward
 Olyphant, Robert
 Oman, Rear-
 Admiral J. W., U. S. N.
 O'Neil, Mrs. Matthew
 Opdycke, Mrs. Leonard E.
 Openhym, George J.
 Oppenheim, Laurent
 Oppenheimer, David E.
 Oppenheimer, Harry C.
 Oppenheimer, Julius
 O'Reilly, John B.
 Orr, William C.
 Orteig, Raymond
 Orvis, Mrs. Charles E.
 Orvis, Edwin W.
 Osborn, Mrs. Frederick H.
 Osborn, Mrs. William H.
 Osborn, Wm. H.
 Osterholt, Ehler
 Otheman, Mrs. Francis W.
 Otis, Charles
 Otis, Mrs. George L.
 Otis, Harold
 Oudin, Lucien
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 Overton, Frank
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INCORPORATION, CHARTER AND CONTRACT

AN ACT
TO INCORPORATE
THE AMERICAN MUSEUM OF NATURAL HISTORY
Passed April 6, 1869

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

SECTION 1. John David Wolfe, Robert Colgate, Benjamin H. Field, Robert L. Stuart, Adrian Iselin, Benjamin B. Sherman, William A. Haines, Theodore Roosevelt, Howard Potter, William T. Blodgett, Morris K. Jesup, D. Jackson Steward, J. Pierpont Morgan, A. G. P. Dodge, Chas. A. Dana, Joseph H. Choate and Henry Parish, and such persons as may hereafter become members of the Corporation hereby created, are hereby created a body corporate, by the name of "The American Museum of Natural History," to be located in the City of New York, for the purpose of establishing and maintaining in said city a Museum and Library of Natural History; of encouraging and developing the study of Natural Science; of advancing the general knowledge of kindred subjects, and to that end of furnishing popular instruction.*

SEC. 2. Said Corporation shall have power to make and adopt a Constitution and By-Laws, and to make rules and regulations for the admission, suspension and expulsion of its members, and their government, the number and election of its officers, and to define their duties, and for the safe keeping of its property, and, from time to time, to alter and modify such Constitution, By-Laws, Rules and Regulations. Until an election shall be held pursuant to such Constitution and By-Laws, the persons named in the first section of this Act shall be, and are hereby declared to be, the Trustees and Managers of said Corporation and its property.

SEC. 3. Said Corporation may take and hold by gift, devise, bequest, purchase or lease, either absolutely or in trust, for any purpose comprised in the objects of the Corporation, any real or personal estate, necessary or proper for the purposes of its incorporation.†

SEC. 4. Said Corporation shall possess the general powers, and be subject to the restrictions and liabilities, prescribed in the Third Title of the Eighteenth Chapter of the First Part of the Revised Statutes, and shall be and be classed as an educational corporation.*

SEC. 5. This Act shall take effect immediately.

STATE OF NEW YORK,
OFFICE OF THE SECRETARY OF STATE, } ss.:

I have compared the preceding with the original law on file in this office, and do hereby certify that the same is a correct transcript therefrom, and of the whole of said original law.

[L. s.]

Given under my hand and seal of Office at the City of Albany this fourteenth day of April, in the year one thousand eight hundred and sixty-nine.

D. WILLERS, JR., *Deputy Secretary of State.*

†Section 3. As amended by Chapter 303, Laws of 1898, of the State of New York, entitled 'An Act to amend chapter one hundred and nineteen, laws of eighteen hundred and sixty-nine, entitled 'An Act to incorporate the American Museum of Natural History,' relative to its charter."

*Sections 1 and 4. As amended by Chapter 162 of the Laws of 1909, entitled "An Act to amend chapter one hundred and nineteen of the laws of eighteen hundred and sixty-nine, entitled 'An Act to incorporate the American Museum of Natural History,' in relation to classifying said corporation and modifying its corporate purposes."

BOND ISSUES FOR THE CONSTRUCTION AND EQUIPMENT
OF THE AMERICAN MUSEUM OF NATURAL HISTORY

LEGAL ENACTMENTS OF 1921

BY THE LEGISLATURE

CHAPTER 618

AN ACT to amend the Greater New York Charter, in relation to
use of the proceeds of bond issues.

Became a law May 6, 1921, with the approval of the Governor.

ACCEPTED BY THE CITY

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

SECTION 1. Subdivision nine of section one hundred and sixty-
nine of the Greater New York charter, as re-enacted by chapter
four hundred and sixty-six of the laws of nineteen hundred and one,
and last amended by chapter nine hundred and sixty of the laws of
nineteen hundred and twenty, is hereby amended to read as
follows:

9. *****

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

§2. This act shall take effect immediately.

STATE OF NEW YORK }
OFFICE OF THE SECRETARY OF STATE } ss.:

I have compared the preceding with the original law on file in this office,
and do hereby certify that the same is a correct transcript therefrom, and of
the whole of said original law.

[SEAL]

Given under my hand and the seal of office of the Secre-
tary of State, at the City of Albany, this twenty-fifth
day of May in the year one thousand nine hundred
and twenty-one.

C. W. TAFT, *Second Deputy Secretary of State.*

**CONTRACT WITH THE DEPARTMENT OF PARKS
FOR THE OCCUPATION OF THE NEW BUILDING**

THIS AGREEMENT, made and concluded on the twenty-second day of December, in the year one thousand eight hundred and seventy-seven, between the DEPARTMENT OF PUBLIC PARKS OF THE CITY OF NEW YORK, the party of the first part, and the AMERICAN MUSEUM OF NATURAL HISTORY, party of the second part, witnesseth:

Whereas, by an Act of the Legislature of the State of New York, passed April 22d, 1876, entitled "An Act in relation to the powers and duties of the Board of Commissioners of the Department of Public Parks, in connection with the American Museum of Natural History, and the Metropolitan Museum of Art," the said party of the first part is authorized and directed to enter into a contract with the said party of the second part, for the occupation by it of the buildings erected or to be erected on that portion of the Central Park in the City of New York, known as Manhattan Square, and for transferring thereto and establishing and maintaining therein its museum, library and collections, and carrying out the objects and purposes of said party of the second part; and,

Whereas, a building contemplated by said act has now been erected and nearly completed and equipped in a manner suitable for the purposes of said Museum, as provided in the first section of the Act of May 15, 1875, known as Chapter 351, of the Laws of 1875, for the purpose of establishing and maintaining therein the said Museum, as provided by the said last named act, and by the Act of April 5, 1871, known as Chapter 290, of the Laws of 1871; and,

Whereas, it is desired as well by the said party of the first part, as by the said party of the second part, that, immediately upon the completion and equipment of said building, the said party of the second part should be established therein, and should transfer thereto its museum, library and collections, and carry out the objects and purposes of the said party of the second part;

Now, therefore, it is agreed by and between the said parties as follows, namely:

First.—That the said party of the first part has granted and demised and let, and doth, by these presents, grant, demise and let, unto the said party of the second part, the said buildings and the appurtenances thereunto belonging, to have and to hold the same so long as the said party of the second part shall continue to carry out the objects and purposes defined in its charter; or such other objects and purposes as by any future amendment of said charter may be authorized; and shall faithfully keep, perform, and observe the covenants and conditions herein contained on its part to be kept, performed and observed, or until the said building shall be surrendered by the said party of the second part, as hereinafter provided.

Secondly.—That neither the party of the first part, its successor or successors, nor the Mayor, Aldermen and Commonalty of the City of New York, shall be in any manner chargeable or liable for the preservation of the said building or the property of the party of the second part which may be placed therein, against fire, or for any damage or injury that may be caused by fire to the said property; but it is agreed that, damages as aforesaid excepted, the said party of the first part will keep said building, from time to time, in repair.

Thirdly.—That as soon after the completion and equipment of said building as practicable, said party of the second part shall transfer to, and place and arrange in said building, its museum, library and collections, or such portion thereof as can be properly displayed to the public therein, and shall have and enjoy the exclusive use of the whole of said building, subject to the provisions herein contained, and the rules and regulations herein prescribed, during the continuance of the term granted, or until a surrender thereof, as herein provided.

Fourthly.—That the exhibition halls of said building shall, on Wednesday, Thursday, Friday and Saturday of each week, and on all legal or public holidays, except Sunday, be kept open and accessible to the public, free of charge, from nine o'clock A. M. until half an hour before sunset, under such rules and regulations as the party of the second part shall from time to time prescribe; but on the remaining days of the week the same shall be only open for exhibition to such persons, upon such terms as the said party of the second part shall from time to time direct. But all

professors and teachers of the public schools of the City of New York, or other institutions of learning in said city, in which instruction is given free of charge, shall be admitted to all the advantages afforded by the said party of the second part, through its museum, library, apparatus, and collections, or otherwise, for study, research and investigation, free of any charge therefor, and to the same extent and on the same terms and conditions as any other persons are admitted to such advantages, as aforesaid.

Fifthly.—That the museum, library and collections, and all other property of said party of the second part, which shall or may be placed in said building, shall continue to be and remain absolutely the property of said party of the second part, and neither the said party of the first part nor the said the Mayor, Aldermen and Commonalty, shall by reason of said property being placed in said building, or continuing therein, have any right, title, property or interest therein; nor shall the said party of the second part, by reason of its occupation and use of said building under this agreement, acquire, or be deemed to have any right, title, property or interest in said building, except so far as expressly granted by this agreement.

Sixthly.—That the said party of the second part shall, on or before the first day of May, in every year, during the continuance of this agreement, submit to the said party of the first part, its successor or successors, a detailed printed report of the operations and transactions of the said party of the second part, and all its receipts and payments, for the year ending with the 31st day of December next preceding.

Seventhly.—That said party of the first part shall have, at all times, access to every part of the said building for general visitation and supervision, and also for the purpose of the performance of the duties devolved upon it by the laws of the State of New York, or of the City of New York. That the police powers and supervision of said party of the first part shall extend in, through and about said building. That the said party of the second part may appoint, direct, control and remove all persons employed within said building, and in and about the care of said building, and the museum, library and collections therein contained.

Eighthly.—That said party of the second part may, at any time, after the expiration of three, and before the expiration of

six, months from the date of the service of a notice in writing to said party of the first part, its successor or successors, or to the Mayor of the City of New York, of its intention so to do, quit and surrender the said premises and remove all its property therefrom; and upon and after such notice, the said party of the second part shall and will, at the expiration of the said six months, quietly and peaceably yield up and surrender unto the said party of the first part and its successors all and singular the aforesaid demised premises. And it is expressly understood and agreed by and between the parties hereto that if the said party of the second part shall omit to do, perform, fulfill or keep any or either of the covenants, articles, clauses and agreements, matters and things herein contained, which on its part are to be done, performed, fulfilled or kept, according to the true intent and meaning of these presents, then and from thenceforth this grant and demise shall be utterly null and void. And in such case it shall and may be lawful for said Department to serve or cause to be served on the said party of the second part a notice in writing declaring that the said grant hereinbefore made has become utterly null and void and thereupon the said party of the first part, its successor or successors (ninety days' time being first given to the said party of the second part to remove its property therefrom), many reënter, and shall again have, repossess and enjoy the premises aforementioned, the same as in their first and former estate, and in like manner as though these presents had never been made, without let or hindrance of the said party of the second part, anything here contained to the contrary notwithstanding.

Ninthly.—And it is further expressly understood and agreed, by and between the parties hereto, that this agreement may be wholly canceled and annulled, or, from time to time, altered, or modified, as may be agreed, in writing, between the said parties, or their successors, anything herein contained to the contrary in any wise notwithstanding.

In witness whereof, the party of the first part hath caused this agreement to be executed by their President and Secretary, pursuant to a resolution of the Board of Commissioners of said Department, adopted at a meeting held on the thirtieth day of January, in the year of our Lord one thousand eight hundred and seventy-eight; and the said party of the second part hath caused

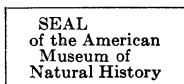
the same to be executed by their President, and their official seal affixed thereto, pursuant to a resolution of the Trustees of the American Museum of Natural History, adopted at a meeting held on the twelfth day of February, in the year of our Lord one thousand eight hundred and seventy-seven.

In presence of
D. PORTER LORD.

JAMES F. WENMAN,
*President Department of Public Parks
of the City of New York.*

WILLIAM IRWIN,
*Secretary Department of Public Parks
of the City of New York.*

ROBERT L. STUART,
*President American Museum of
Natural History.*



STATE OF NEW YORK
City and County of New York, } ss.:

On this 12th day of February, in the year 1878, before me personally came James F. Wenman, President of the Department of Public Parks of the City of New York, and William Irwin, Secretary of the said Department of Public Parks, with both of whom I am personally acquainted, and both of whom being by me duly sworn, said that they reside in the City and County of New York; that the said James F. Wenman is the President, and the said William Irwin is the Secretary of the said Department of Public Parks, and that they signed their names to the foregoing agreement by order of the Board of Commissioners of the said Department of Public Parks, as such President and Secretary.

[SEAL.] W. C. BESSON,
(73) *Notary Public N. Y. Co.*

STATE OF NEW YORK
City and County of New York, } ss.:

On this 12th day of February, in the year 1878, before me personally came Robert L. Stuart, the President of the American Museum of Natural History, with whom I am personally acquainted, who being by me duly sworn, said that he resides in the City and County of New York, that he is the President of the American Museum of Natural History, and that he knows the corporate seal of said museum, that the seal affixed to the foregoing agreement is such corporate seal, that it is affixed thereto by order of the Board of Trustees of said American Museum of Natural History, and that he signed his name thereto by the like order, as President of said Museum.

[SEAL.] W. C. BESSON,
(73) *Notary Public N. Y. Co.*

Recorded in the office of the Register of the City and County of New York in Liber 1426 of Cons., page 402, February 16, A. D. 1878, at 9 o'clock A. M., and examined.

Witness my hand and official seal,

FREDERICK W. LOEW,
Register.

[SEAL.]

NOTE.—July 25, 1892, by consent of the Trustees, section fourth was modified to enable the Trustees to open the Museum free to the public "throughout the year, excepting Mondays, but including Sunday afternoons and two evenings of each week."

June 29, 1893, by consent of the Trustees, section fourth was modified to enable the Trustees to open the Museum free of charge to the public "throughout the year for five days in each week, one of which shall be Sunday afternoon, and also two evenings of each week."

CONSTITUTION
OF THE
AMERICAN MUSEUM OF NATURAL HISTORY
IN THE CITY OF NEW YORK

REVISED AND AMENDED TO DECEMBER 31, 1924

ARTICLE I

This Corporation shall be styled THE AMERICAN MUSEUM OF NATURAL HISTORY.

ARTICLE II

The several persons named in the charter, and such others as they may add to their number, which shall not exceed twenty-five in all at one time, and in addition, the Mayor, the Comptroller, and the President of the Department of Public Parks, of the City of New York, for the time being, *ex-officio*, shall be the Trustees to manage the affairs, property and business of the Corporation.

The members of the Board of Trustees holding office at the time of the regular quarterly meeting of November, 1905, shall then, or at the first meeting of the Board thereafter, be divided by lot into five classes of five members each, to serve for the terms of one, two, three, four and five years respectively from the date of the annual meeting of February, 1906. The Board of Trustees at each annual meeting thereafter, or an adjournment thereof, shall by ballot, by a majority vote of the Trustees present at the meeting, elect five Trustees to supply the places of the class whose term expires at that meeting; said newly elected Trustees to hold office for five years or until their successors are elected. In case of a vacancy in the Board by death, resignation, disqualification or otherwise, the vacancy shall be filled by ballot, in like manner, by the Board of Trustees at any regular meeting or special meeting, for the unexpired term. No person shall be eligible for election as Trustee unless his name shall be presented by the Nominating Committee at a regular or special meeting of the Board previous to the meeting at which his name shall be acted upon. Written notice of such election and the vacancy to be filled shall be sent to the Trustees at least one week prior to said meeting.

ARTICLE III

The Trustees shall meet regularly, on the first Monday after the second day of every January, on the first Monday of May, and on the second Monday of November, at an hour and place to be designated, on at least one week's written notice from the Secretary, and shall annually, at the regular meeting in January, elect the officers and committees for the ensuing year. They shall also meet at any other time to transact special business on a call of the Secretary, who shall issue such call whenever requested so to do, in writing, by five Trustees, or by the President, and give written notice to each Trustee of such special meeting, and of the object thereof, at least three days before the meeting is held.

ARTICLE IV

SECTION 1. The officers of said Corporation shall be a President, a First Vice-President, a Second Vice-President, a Treasurer and a Secretary, who shall be elected from among the Trustees. These officers shall be elected by ballot, and the persons having a majority of the votes cast shall be deemed duly elected. They shall hold their offices for one year or until their successors shall be elected.

SEC. 2. The Board of Trustees shall appoint each year, in such manner as it may direct, the following Standing Committees: an Executive Committee, an Auditing Committee, a Finance Committee and a Nominating Committee. These Committees are all to be elected from the Trustees, and the members shall hold office for one year or until their successors shall be elected.

The Board of Trustees shall also have authority to appoint such other committees or officers as they may at any time deem desirable, and to delegate to them such powers as may be necessary.

The Board of Trustees shall have power to appoint a Director who, acting under the authority and control of the President, shall be the chief administrative officer of the Museum; but shall not be a member of the Board. He shall hold office during the pleasure of the Board.

ARTICLE V

SECTION 1. The President shall have the general supervision, direction and control of the affairs of the Corporation, and shall preside at all the meetings of the Museum and of the Trustees.

In his absence or inability to act, the First or Second Vice-President shall act in his place, or in the absence of these officers, a Trustee appointed by the Executive Committee.

SEC. 2. The Secretary shall be present, unless otherwise ordered by the Board, at all the meetings of the Museum and Trustees, of the Executive Committee and such other Committees as the Board may direct. He shall keep a careful record of the proceedings of such meetings, shall preserve the seal, archives and correspondence of the Museum, shall issue notices for all meetings of the Trustees and various committees, and shall perform such other duties as the Board may direct.

The Board of Trustees shall have power to appoint an Assistant Secretary, who, under its direction, shall perform the duties of the Secretary in his absence or inability to act. The Assistant Secretary shall be an administrative officer of the Museum and shall act under the direction of the President or the Secretary. He shall hold office during the pleasure of the Board.

SEC. 3. The Treasurer shall receive and disburse the funds of the Museum. He shall report in writing, at each regular meeting of the Trustees, the balance of money on hand, and the outstanding obligations of the Museum, as far as practicable; and shall make a full report at the annual meeting of the receipts and disbursements of the past year, with such suggestions as to the financial management of the Museum as he may deem proper.

The Board of Trustees shall have power to appoint an Assistant Treasurer, who shall perform such duties as it may direct, and who shall hold office during its pleasure.

SEC. 4. The accounts of the Museum shall be kept at the General Office, in books belonging to it, which shall at all times be open to the inspection of the Trustees.

ARTICLE VI

The Executive Committee shall consist of nine Trustees, the President, the Secretary and the Treasurer *ex-officio* and six others, to be appointed each year in the manner provided in Article IV. They shall have the control and regulation of the collections, library and other property of the Museum; and shall have power generally to conduct the business of the Museum,

subject to the approval of the Board. Five members of the Committee shall constitute a quorum for the transaction of business.

ARTICLE VII

The Auditing Committee shall consist of three Trustees. They shall have the books of the Museum duly audited, at least once in six months, by an authorized public accountant to be selected by them.

ARTICLE VIII

The Finance Committee shall consist of five Trustees, the Treasurer *ex-officio* and four others to be elected each year in the manner provided in Article IV. They shall have general charge of the moneys and securities of the Endowment and other permanent funds of the Museum, and such real estate as may become the property of the Corporation, with authority to invest, sell and reinvest the same, subject to the approval of the Board of Trustees.

Three members shall constitute a quorum.

ARTICLE IX

The Nominating Committee shall be composed of three Trustees, to whom shall be first submitted the names of any persons proposed as candidates for election to membership in the Board of Trustees. The Committee shall report on such candidates from time to time, as it may deem to be for the interest of the Museum. A fortnight before the annual meeting they shall prepare and mail to each member of the Board of Trustees a list of the candidates for officers and Trustees to be balloted for at the said meeting.

ARTICLE X

Nine Trustees shall constitute a quorum for the transaction of business, but five Trustees meeting may adjourn and transact current business, subject to the subsequent approval of a meeting at which a quorum shall be present.

ARTICLE XI

By-Laws may be made from time to time by the Trustees providing for the care and management of the property of the Corporation and for the government of its affairs, and may be

amended at any meeting of the Trustees by a vote of a majority of those present, after a month's notice in writing of such proposed amendment.

ARTICLE XII

The incorporators of The American Museum of Natural History shall be designated as Founders of the Museum.

Any person contributing or devising \$50,000 in cash, securities or property to the funds of the Museum may be elected a Benefactor of the Museum.

Any person contributing \$25,000 in cash, securities or property to the funds of the Museum, may be elected an Associate Founder of the Museum, who after being so elected shall have the right in perpetuity to appoint the successor in such associate foundership.

Any person contributing \$10,000 to the funds of the Museum may be elected an Associate Benefactor of the Museum, who after being so elected shall have the right in perpetuity to appoint the successor in such associate benefactorship.

Any person contributing \$1,000 to the funds of the Museum, at one time, may be elected a Patron of the Museum, who after being so elected shall have the right in perpetuity to appoint the successor in such patronship.

Any person contributing \$500 to the funds of the Museum, at one time, may be elected a Fellow of the Museum, who after being so elected shall have the right to appoint one successor in such fellowship.

No appointment of a successor shall be valid unless the same shall be in writing, endorsed on the certificate, or by the last will and testament.

Any person contributing \$100 to the funds of the Museum, at one time, may be elected a Life Member of the Museum.

Any person may be elected to the above degrees who shall have given to the Museum books or specimens which shall have been accepted by the Executive Committee, or by the President, to the value of twice the amount in money requisite to his admission to the same degree.

Benefactors, Associate Founders, Associate Benefactors, Patrons, Fellows and Life Members shall be elected by the Board of Trustees

or by the Executive Committee, and the President and Secretary shall issue diplomas accordingly under the seal of the Museum.

In recognition of scientific services rendered, the Trustees may also elect Honorary Fellows of the Museum in their discretion.

ARTICLE XIII

Any Trustee who shall fail to attend three consecutive regular meetings of the Board shall cease to be a Trustee, unless excused by the Board.

ARTICLE XIV

No alterations shall be made in this Constitution, unless at a regular meeting of the Trustees, or at a special meeting called for this purpose; nor by the votes of less than a majority of all the Trustees; nor without notice in writing of the proposed alterations, embodying the amendment proposed to be made, having been given at a previous regular meeting.

BY-LAWS

REVISED AND AMENDED TO DECEMBER 31, 1924

I

If any Trustee shall accept a salary from this Corporation he shall thereby be disqualified for the time being from acting as a Trustee thereof; provided, that the Board of Trustees shall have power to suspend the operation of this law in any special case.

II

Any vacancies occurring in the membership of the several committees during the interval between the regular meetings of the Board of Trustees may be filled at a regular meeting of the Executive Committee, until the next meeting of the Board.

III

The regular meetings of the Executive Committee shall be held on the third Wednesday of each month, but special meetings may be held at any other time on a two days' call issued by order of the President, or at the request of three of its members.

IV

All bequests or legacies, not especially designated, and all membership fees, excepting Sustaining, Annual and Associate Membership fees, shall hereafter be applied to the *Permanent Endowment Fund*, the interest only of which shall be applied to the use of the Museum as the Board shall direct.

V

SECTION 1. No indebtedness (other than for current expenses) shall be incurred by any committee, officer or employee of the Museum, except as provided for in the Constitution.

SEC. 2. No bills shall be paid unless approved by the Director or the Executive Secretary, and countersigned by one of the following named Trustees: President, First Vice-President, Second Vice-President, or Treasurer.

SEC. 3. The accounts of the Museum shall be under the care of a Bursar, who, on recommendation of the President and the Treasurer, shall be appointed by the Board of Trustees and be

under its direction. He shall give such bonds for the faithful performance of his duties as the Board may direct, and shall hold office during the pleasure of the Board. The Bursar, acting under the direction of the President or Treasurer, shall be the official representative of the Treasurer at the Museum, and as such shall be the head of the Treasurer's office there.

VI

The Board of Trustees shall have power to appoint, on recommendation of the Director, a Superintendent of Building and such other officers as may be deemed necessary, who, acting under the instruction of the Director or the Executive Secretary, shall have charge of the construction, maintenance, alterations and repairs of the buildings, and shall be responsible for their sanitary condition. They shall hold office during the pleasure of the Board.

VII

The Board of Trustees shall have power to appoint a Registrar, who, acting under the instruction of the Director or Executive Secretary, shall inspect all incoming and outgoing shipments, and shall attend to the details of matters relating to customs.

VIII

Benefactors, giving \$50,000, are each entitled to 1 Subscriber's Ticket, 10 Complimentary Season Tickets and 10 Tickets for a single admission.

Associate Benefactors, giving \$10,000, are each entitled to 1 Subscriber's Ticket, 10 Complimentary Season Tickets and 10 Tickets for a single admission.

Patrons, giving \$1,000, are each entitled to 1 Subscriber's Ticket, 5 Complimentary Season Tickets and 10 Tickets for a single admission.

Fellows, giving \$500, are each entitled to 1 Subscriber's Ticket and 10 Tickets for a single admission.

Life Members, giving \$100, are each entitled to 1 Subscriber's Ticket and 7 Tickets for a single admission.

Sustaining Members, paying \$25 yearly, are each entitled to 1 Subscriber's Ticket and 5 Tickets for a single admission.

Annual Members, paying \$10 yearly, are each entitled to 1 Subscriber's Ticket and 4 Tickets for a single admission.

Associate Members, paying \$3.00 yearly, are each entitled to 1 Subscriber's Ticket, admitting to the Members' Room, and 2 Tickets for a single admission; also to current copies of the Museum Journal and the Annual Report.

IX

The Board of Trustees hereby creates a class of honorary Members, without membership fee, to be designated as Corresponding Members. Upon recommendation of the Scientific Staff, any person interested in or actively engaged in scientific research may be elected by the Board of Trustees a Corresponding Member, such election being for a period of five years and subject to renewal. Corresponding Members shall be entitled to current numbers of *Natural History* and to a copy of such scientific publications of the Museum as they may desire for the prosecution of their researches.

NOTE.—A Subscriber's Ticket admits to the Members' Room, also to all Receptions and Special Exhibitions, and may be used by any member of the Subscriber's family.

The Single Admission Tickets admit the bearers to the Members' Room, and are issued to Subscribers for distribution among friends and visitors.

**FOR THE CONSTRUCTION AND EQUIPMENT OF
THE SOUTHEAST WING AND COURT BUILDING
OF THE AMERICAN MUSEUM OF NATURAL
HISTORY**

LEGAL ENACTMENTS OF 1921

BY THE BOARD OF ESTIMATE AND APPORTIONMENT

RESOLVED, By the Board of Estimate and Apportionment, that, pursuant to the provisions of section 169 of the Greater New York Charter, as amended by chapter 618 of the Laws of 1921, the Comptroller be and is hereby authorized to issue, in the manner provided by section 169 of the Greater New York Charter, serial bonds of The City of New York, in an amount not exceeding one million five hundred thousand dollars (\$1,500,000), at such rate of interest as the Commissioners of the Sinking Fund shall prescribe; the proceeds to the amount of the par value thereof to be used by the Department of Parks, Borough of Manhattan, for the construction and equipment of the southeast wing and court building of the American Museum of Natural History; the cost of general construction, estimated at approximately one million three hundred thousand dollars (\$1,300,000), to be financed by an issue of serial bonds, the principal thereof to mature in equal annual installments within a period not exceeding forty (40) years; the cost of plumbing, heating and ventilating, and electric work and fixtures, estimated at approximately one hundred and ninety thousand dollars (\$190,000), to be financed by an issue of serial bonds, the principal thereof to mature in equal annual installments within a period not exceeding fifteen (15) years; and the cost of furniture and equipment, estimated at approximately ten thousand dollars (\$10,000), to be financed by an issue of serial bonds, the principal thereof to mature in equal annual installments within a period not exceeding ten (10) years; said apportionment of the costs to be subject to modification if necessary, upon the awarding of the contracts for the several portions of the work; provided, however, that no encumbrance by contract or otherwise shall be made against these authorizations, nor shall bids upon contemplated contracts be advertised for until after approval by the Board of Estimate and Apportionment or its duly authorized representative of such expenditure, or of the plans, specifications, estimates of cost and forms of such contracts, nor shall any architect, engineer, expert or departmental employee be engaged or employed as a charge against such authorization, except after approval by said Board of such employment and of the fee or wage to be paid by preliminary and final contract voucher or budget schedule, unless in the case of departmental employees such employment is in accordance with schedules approved by said Board.

A true copy of resolution adopted by the Board of Estimate and Apportionment, December 28, 1921.

JAMES MATTHEWS,
Assistant Secretary.

Amended by the Board of Estimate and Apportionment, August 22, 1924, to provide for Case Construction and Equipment in the Southeast Wing and Court Building.

APPROPRIATION AND EXPENDITURES THEREON TO
DECEMBER 31, 1924

Receipts:

By direct appropriation (December 28, 1921, C.D.P. 3 G. H. and J.)	\$1,500,000.00
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Expenditures (including Contracts and Architects' Fees):

Contract No. 1, Construction and Electrical Work.....	\$1,107,685.61
Contract No. 2, Plumbing.....	24,977.33
Contract No. 3, Ventilating and Humidifying.....	19,600.00
Contract No. 4, Steam Heating and Fume Removal.....	67,897.74
Architects' Fees.....	22,521.38

	\$1,242,682.06
Furniture and Equipment.....	1,241.28

	\$1,243,923.34
Balance December 31, 1924.....	256,076.66

	\$1,500,000.00
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FOR EQUIPMENT AND CASE CONSTRUCTION OF THE AMERICAN MUSEUM OF NATURAL HISTORY

LEGAL ENACTMENTS OF 1922

BY THE BOARD OF ESTIMATE AND APPORTIONMENT

RESOLVED, By the Board of Estimate and Apportionment, that, pursuant to the provisions of section 169 of the Greater New York Charter, as amended, the Comptroller be and is hereby authorized to issue, in the manner provided by said section 169, serial bonds of The City of New York, in an amount not exceeding one hundred and ten thousand nine hundred and seventy-five dollars (\$110,975), at such rate of interest as the Commissioners of the Sinking Fund shall prescribe, the principal thereof to mature in equal annual installments within a period not exceeding two (2) years, the proceeds to the amount of the par value thereof to be used by the Commissioner of Parks, Borough of Manhattan, for construction and equipment in the existing building of the American Museum of Natural History; provided, however, that no encumbrance by contract or otherwise shall be made against this authorization nor shall bids upon contemplated contracts be advertised for, until after approval by the Board of Estimate and Apportionment or its duly authorized representative, of such proposed expenditure or of the plans, specifications, estimates of cost and forms of such contracts, nor shall any architect, engineer, expert or departmental employee be engaged or employed as a charge against such authorization except after approval by said Board of such employment and of the fee or wage to be paid by preliminary and final contract, voucher or Budget schedule, unless in the case of departmental employee, such employment is in accordance with schedule approved by said Board.

A true copy of resolution adopted by the Board of Estimate and Apportionment, April 7, 1922.

JAMES MATTHEWS,
Assistant Secretary.

APPROPRIATIONS AND EXPENDITURES THEREON TO DECEMBER 31, 1924

Receipts:

By direct appropriation (April 7, 1922, C.D.P. 3 K.).....	\$110,975.00
By direct appropriation (Aug. 14, 1924, C.D.P. 3 K.).....	10,000.00
	<hr/>
	\$120,975.00

Expenditures:

Mechanics' Payroll.....	\$31,096.00	
Contracts Paid and Awarded.....	78,095.20	
Materials.....	10,605.45	\$119,796.65
	<hr/>	
Balance December 31, 1924.....		\$1,178.35

FOR THE CONSTRUCTION AND EQUIPMENT OF THE SCHOOL SERVICE BUILDING OF THE AMERICAN MUSEUM OF NATURAL HISTORY

LEGAL ENACTMENTS OF 1922

BY THE BOARD OF ESTIMATE AND APPORTIONMENT

RESOLVED, By the Board of Estimate and Apportionment, that, pursuant to the provisions of section 169 of the Greater New York Charter, as amended, the Comptroller be and is hereby authorized to issue, in the manner provided by said section 169, serial bonds of The City of New York, in an amount not exceeding five hundred and seventy thousand dollars (\$570,000), at such rate of interest as the Commissioners of the Sinking Fund shall prescribe, the principal thereof to mature in equal annual installments within a period not exceeding fifteen (15) years, the proceeds to the amount of the par value thereof to be used by the Commissioner of Parks, Borough of Manhattan, for the construction and equipment of a School Service Building in the southwest Court of the American Museum of Natural History; provided, however, that no encumbrance by contract or otherwise shall be made against this authorization nor shall bids upon contemplated contracts be advertised for, until after approval by the Board of Estimate and Apportionment, or its duly authorized representative, of such proposed expenditure or of the plans, specifications, estimates of cost and forms of such contracts, nor shall any architect, engineer, expert or departmental employee be engaged or employed as a charge against such authorization except after approval by said Board of such employment and of the fee or wage to be paid by preliminary and final contract, voucher or budget schedule, unless in the case of departmental employees, such employment is in accordance with schedules approved by said Board.

A true copy of resolution adopted by the Board of Estimate and Apportionment, April 21, 1922.

JAMES MATTHEWS,
Assistant Secretary.

APPROPRIATIONS AND EXPENDITURES THEREON TO DECEMBER 31, 1924

Receipts:

By direct appropriation (April 21, 1922, C.D.P. 3 L.).....	\$570,000.00
By direct appropriation (July 13, 1923, C.D.P. 3 L.).....	121,800.00
	<u>\$691,800.00</u>

Expenditures (including Contracts and Architects' Fees):

Contract No. 1, Construction and Electrical Work.....	\$495,723.00
Contract No. 3, Plumbing.....	35,480.00
Contract No. 4, Steam Heating and Ventilating.....	62,175.00
Architects' Fees.....	33,051.00
	<u>\$626,429.00</u>
Balance December 31, 1924.....	65,371.00
	<u>\$691,800.00</u>

Receipts:

By direct appropriation (July 13, 1923, C.D.P. 3 M.).....	\$42,000.00
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Expenditures (including Contracts and Architects' Fees):

Contract No. 1, General Construction and Electrical Work.....	\$34,000.00
Contract No. 3, Plumbing.....	1,500.00
Contract No. 4, Steam Heating and Ventilating.....	2,500.00
Architects' Fees.....	2,081.00
	<u>40,081.00</u>
Balance December 31, 1924.....	<u>\$1,919.00</u>

FOR IMPROVEMENTS TO AND ADDITIONAL EQUIP- MENT FOR EXISTING BUILDING OF THE AMERICAN MUSEUM OF NATURAL HISTORY

LEGAL ENACTMENTS OF 1923

BY THE BOARD OF ESTIMATE AND APPORTIONMENT

RESOLVED, By the Board of Estimate and Apportionment, that pursuant to the provisions of section 169 of the Greater New York Charter, as amended, the Comptroller be and he is hereby authorized to issue, in the manner provided by said section 169 of the Charter, serial bonds of The City of New York in an amount not exceeding one hundred and forty-four thousand nine hundred and fifty dollars (\$144,950) at such rate of interest as the Commissioners of the Sinking Fund shall prescribe, the principal thereof to the amount of forty-five thousand four hundred and thirty-five dollars (\$45,435), to mature within a period not exceeding twenty-five (25) years, and to the extent of ninety-nine thousand five hundred and fifteen dollars (\$99,515) to mature within a period not exceeding fifteen (15) years, the proceeds to the amount of the par value thereof to be used by the Commissioner of Parks, Borough of Manhattan, for improvements to and additional equipment for existing building of the American Museum of Natural History; provided, however, that no expenditure by contract or otherwise shall be made against this authorization nor shall bids upon contemplated contracts be advertised for until after approval by the Board of Estimate and Apportionment, or its duly authorized representatives, of such expenditure, or of the plans, specifications, estimates of cost, and form of proposed contracts for said improvement; nor shall any architect, engineer, expert or departmental employee be engaged or employed as a charge against such authorization except after approval by said Board of such employment and of the fee or wage to be paid by preliminary and final contract, voucher or budget schedule, unless in case of departmental employees such employment is in accordance with schedules approved by said Board.

A true copy of resolution adopted by the Board of Estimate and Apportionment, June 29, 1923.

JAMES MATTHEWS,
Assistant Secretary.

APPROPRIATION AND EXPENDITURES THEREON TO DECEMBER 31, 1924

Receipts:

By direct appropriation (June 29, 1923, C.D.P. 3 P.), for
improvements to existing building \$45,435.00

Expenditures:

Mechanics' Payroll.....	\$1,854.00	
Contracts Paid and Awarded.....	19,282.00	
Materials.....	1,015.67	22,151.67

Balance December 31, 1924.....	\$23,283.33
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Receipts:

By direct appropriation (June 29, 1923, C.D.P. 3 Q.), for addi-
tional equipment for existing building \$99,515.00

Expenditures:

Mechanics' Payroll.....	\$22,740.75	
Contracts Paid and Awarded.....	23,751.31	
Materials.....	4,012.18	50,504.24

Balance December 31, 1924.....	\$49,010.76
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**ADDITIONAL FOR CONSTRUCTION AND EQUIP-
MENT OF SCHOOL SERVICE BUILDING
(CODE C.D.P. 3 L.)**

**ALSO FOR THE CONSTRUCTION OF INTERCOM-
MUNICATING PASSAGEWAYS
(CODE C.D.P. 3 M.)**

LEGAL ENACTMENTS OF 1923

BY THE BOARD OF ESTIMATE AND APPORTIONMENT

RESOLVED, By the Board of Estimate and Apportionment, that, pursuant to the provisions of section 169 of the Greater New York Charter, as amended, the Comptroller be and he is hereby authorized to issue, in the manner provided by said section 169 of the Charter, corporate stock of The City of New York in an amount not exceeding one hundred and sixty-three thousand eight hundred dollars (\$163,800) at such rate of interest as the Commissioners of the Sinking Fund shall prescribe, the principal thereof to mature within a period not exceeding fifteen (15) years, the proceeds to the amount of the par value thereof to be used by the Commissioner of Parks, Borough of Manhattan, as follows:

In addition to the appropriation heretofore made (Code C. D. P. 3 L.), for the construction and equipment of a school service building in the southwest court of the American Museum of Natural History.....	\$121,800.00
For the construction of intercommunicating passageways, American Museum of Natural History. (Code C. D. P. 3 M.)....	42,000.00

—provided, however, that no expenditure by contract or otherwise, shall be made against this authorization nor shall bids upon contemplated contracts be advertised for until after approval by the Board of Estimate and Apportionment, or its duly authorized representative, of such expenditure, or of the plans, specifications, estimates of cost, and form of proposed contracts for said improvement; nor shall any architect, engineer, expert or departmental employees be engaged or employed as a charge against such authorization except after approval by said Board of such employment and of the fee or wage to be paid by preliminary and final contract, voucher or Budget schedule unless in case of departmental employees such employment is in accordance with the schedules approved by said Board.

A true copy of resolution adopted by the Board of Estimate and Apportionment, June 29, 1923.*

JAMES MATTHEWS,
Assistant Secretary.

(Details of expenditures on page 284.)

*Amended July 13, 1923, substituting serial bonds in place of corporate stock.

FOR THE REPLACEMENT OF TWO ELEVATORS IN THE AMERICAN MUSEUM OF NATURAL HISTORY

LEGAL ENACTMENTS OF 1923

BY THE BOARD OF ALDERMEN

RESOLVED, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of forty thousand dollars (\$40,000), the proceeds whereof to be used by the Commissioner of Parks, Borough of Manhattan, for the purpose of providing funds for the replacement of two elevators in the American Museum of Natural History; all obligations contracted for hereunder to be incurred on or before December 31, 1923.

Adopted by the Board of Aldermen June 12, 1923. Three-fourths of all the members elected voting in favor thereof.

Approved by the Mayor June 20, 1923.

M. J. CRUISE,
Clerk.

Compared and Correct.

FOR THE REPLACEMENT OF TWO ELEVATORS IN THE AMERICAN MUSEUM OF NATURAL HISTORY

LEGAL ENACTMENTS OF 1923

BY THE BOARD OF ESTIMATE AND APPORTIONMENT

RESOLVED, That the resolution adopted by the Board of Aldermen on June 12, 1923, and approved by the Mayor on June 20, 1923, requesting an issue of special revenue bonds in the sum of forty thousand dollars (\$40,000), the proceeds whereof to be used by the Commissioner of Parks, Borough of Manhattan, for providing funds for the replacement of two elevators in the American Museum of Natural History, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment; and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York charter, to issue special revenue bonds of The City of New York to an amount not exceeding forty thousand dollars (\$40,000), redeemable from the tax levy of the year succeeding the year of their issue; all obligations contracted for hereunder to be incurred on or before December 31, 1923.

A true copy of resolution adopted by the Board of Estimate and Apportionment, July 13, 1923.

JAMES MATTHEWS,
Assistant Secretary.

APPROPRIATION AND EXPENDITURES THEREON TO DECEMBER 31, 1924

Receipts:

By direct appropriation (July 13, 1923, R.D.P. 21 J.)..... \$40,000.00

Expenditures:

Contracts Awarded..... 35,155.00

Balance on hand December 31, 1924..... \$4,845.00

FOR CONSTRUCTION AND EQUIPMENT IN THE
EXISTING BUILDING OF THE AMERICAN
MUSEUM OF NATURAL HISTORY, IN
ADDITION TO APPROPRIATIONS
ALREADY MADE FOR THE
PURPOSE
(CODE C.D.P. 3 K.)

LEGAL ENACTMENTS OF 1924

BY THE BOARD OF ESTIMATE AND APPORTIONMENT

RESOLVED, By the Board of Estimate and Apportionment, that, pursuant to the provisions of section 169 of the Greater New York Charter, as amended, the Comptroller be and is hereby authorized to issue, in the manner provided by said section 169, serial bonds of The City of New York, in addition to appropriations already made for the purpose, Code C.D.P. 3 K. in an amount not exceeding ten thousand dollars (\$10,000), at such rate of interest as the Commissioners of the Sinking Fund shall prescribe, the principal thereof to mature in equal annual installments within a period not exceeding two years, the proceeds to the amount of the par value thereof to be used by the Commissioner of Parks, Borough of Manhattan, for construction and equipment in the existing building of the American Museum of Natural History; provided, however, that no encumbrance by contract or otherwise shall be made against this authorization nor shall bids upon contemplated contracts be advertised for, until after approval by the Board of Estimate and Apportionment or its duly authorized representative, of such proposed expenditure or of the plans, specifications, estimates of cost and forms of such contracts, nor shall any architect, engineer, expert or departmental employee be engaged or employed as a charge against such authorization except after approval by said Board of such employment and of the fee or wage to be paid by preliminary and final contract, voucher or Budget schedule, unless in the case of departmental employee, such employment is in accordance with schedule approved by said Board.

A true copy of resolution adopted by the Board of Estimate and Apportionment, August 14, 1924.

PETER J. McGOWAN,
Secretary.

(Details of expenditure on page 283.)

NEW YORK STATE ROOSEVELT MEMORIAL

LEGAL ENACTMENTS OF 1924

CREATED BY CHAPTER 615, LAWS OF 1924

AN ACT

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

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

SECTION 1. As a tribute to the memory of Theodore Roosevelt there shall be erected, at a cost to the state of not exceeding two million five hundred thousand dollars, in the city of New York upon a site provided by the authorities of such city, adjacent to the American Museum of Natural History in such city, an education building, chiefly for the benefit of the youth of the state, which shall hereafter be known as and become the New York State Roosevelt Memorial. Such city is hereby authorized to dedicate to the state the site therefor.

§ 2. In such memorial, which shall hereafter be kept and maintained by the state of New York from funds hereafter appropriated, there shall be provided and installed such memorabilia relating to the life of Theodore Roosevelt as shall be selected and determined by the board of trustees constituted pursuant to the next section.

§ 3. The erection, construction and maintenance of such memorial shall be in charge and under the supervision of a board of state trustees consisting of not less than five nor more than seven citizens of the state of New York who shall be appointed by the governor and who shall serve for a period of three years, and until their successors are appointed. The governor and comptroller of the state shall be ex-officio members of such board in addition to those appointed. The trustees of such memorial shall receive no compensation for the performance of their duties under this act, but shall be paid their actual and necessary expenses incurred in connection therewith. Such trustees shall render an annual report of their operations to the legislature.

§ 4. The trustees shall select an architect or architects from a list admitted by the State Roosevelt Memorial Commission, and shall adopt plans for such construction on the recommendation of such commission.

§ 5. The state architect, acting under the instructions of the board of trustees, shall serve in a supervisory capacity during the erection of the memorial and shall make such inspections as are necessary for the proper construction of such memorial.

§ 6. The trustees shall have authority, within the limit of appropriations made therefor, to appoint and to employ such secretarial and other assistants as they may deem necessary to carry into effect the provisions of this act.

§ 7. The sum of two hundred and fifty thousand dollars (\$250,000), or so much thereof as may be necessary is hereby appropriated out of any moneys in the state treasury, not otherwise appropriated, to defray the expenses made necessary by this act during the year commencing July first, nineteen hundred and twenty-four. Such moneys shall be paid by the state treasurer on the warrant of the comptroller, upon vouchers verified by two members of the board of trustees and countersigned by the chairman.

§ 8. This act shall take effect immediately.

VII. PENSION AND INSURANCE

TWELFTH ANNUAL REPORT
OF THE
PENSION BOARD
OF
THE AMERICAN MUSEUM
OF NATURAL HISTORY

FOR THE YEAR 1924

OFFICERS AND MEMBERS OF THE PENSION BOARD

1924

Chairman
FELIX M. WARBURG

Vice-Chairman
RALPH W. TOWER

Treasurer
GEORGE F. BAKER, JR.

Secretary
GEORGE N. PINDAR

Trustee Members

F. TRUBEE DAVISON
WALTER B. JAMES

A. PERRY OSBORN
FELIX M. WARBURG

Employee Members

HARRY F. BEERS

GEORGE N. PINDAR

RALPH W. TOWER

Bursar
FREDERICK H. SMYTH

Counsel
LEWIS L. DELAFIELD

Consulting Actuary
S. HERBERT WOLFE

Medical Examiner
DANA W. ATCHLEY, M.D.

To the President and Trustees of The American Museum of Natural History and to the Subscribers to the Fund:

In accordance with the Rules and Regulations, I have the honor to submit herewith for your consideration the Twelfth Annual Report of the activities of the Pension Fund and of its financial operations for the fiscal year ending December 31, 1924.

THE operations of the Pension Board during the past year may in general be confined to two chief topics:

- (1) General Administration, including:
 - (a) Recommendations that all employees undergo a physical examination upon entering the service of the Museum, (b) Status of membership, and (c) Investments.
- (2) Recommendations for the revision of existing Rules and Regulations.

Heretofore the physical examination of employees has not been exacted until the Director indicated that the employee's services were satisfactory and he would become permanent in his relation to the work of the Museum. Under this system, it was often found that an employee was unable to pass the required examination satisfactorily, which was necessary in order to become a subscriber to the Pension Fund. This is in accordance with the provision that all permanent employees must contribute to the Pension Fund. When, upon examination, it developed that the applicant had some physical impairment which would prevent his participation in the Fund, it became necessary for him to seek other employment. This method was felt to be unfair, both to employer and to employee. To correct this difficulty, the Pension Board recommended to the Trustees that the Rules be changed to the extent that applicants for a position also present, with their credentials, a satisfactory health certificate. The Trustees accepted this recommendation, and it is worthy of mention that the exaction of this rule has served as a solution of many vexatious problems.

The composition of membership in the Fund is as follows: At the close of 1923 there were two hundred and eighty-five subscribing employees and eight pensioners. The end of the present year indicates a subscribing membership of two hundred and ninety-nine and seven pensioners. During the year there has occurred the death of one pensioner and of three subscribing employees, mention of whose particular service will be found in another part of this report.

In 1924, thirty-eight new employees entered the Fund. Forty-two physical examinations were made. Of this latter number, thirty-eight were able to meet the requirements. Medical and surgical treatment have been freely rendered to fifteen of our employees. Fortunately, very few major operations have been necessary, but a number of treatments for accidents have been given.

The attention of the Trustees of the Corporation is called to the desirability of placing at the disposal of the Pension Board endowed beds in the various hospitals of the city, and if this important privilege could be granted it would be a service well rendered and correspondingly appreciated.

In the Pension Report of February 1, 1924, the Treasurer reported an investment fund of the par value on December 31, 1923, of \$265,600.00 and a cash balance of \$12,581.36. During the year the Investment Committee thought it wise to dispose of all the Liberty Loan bonds in its possession, amounting to \$91,600.00 par value, with the result that from such sale \$92,810.74 was received. With the proceeds from this sale the Investment Committee secured a series of bonds which it considers entirely safe and bearing a slightly higher rate of interest, all of which further benefits the pension reserve funds. As a result, this reinvestment, together with the new investments made from the accumulations, presented, on December 31, 1924, a total invested fund of \$313,000.00 and a cash balance of \$13,076.53.

The second topic, the Revision of Rules, is one that has long been discussed, and also one that has engaged the careful study of our Counsel and Secretary for a considerable period, and we would take this opportunity to render to our Counsel, Mr. Lewis L. Delafeld, our grateful appreciation for the thought, the attention, the patience and the work he has given to secure for our institution a pension system that is recognized by all concerned as adequate and suitable to our needs. It would be amiss not to

mention that his accomplishment of these revisions is in the main due to an intimate knowledge of the working conditions surrounding our employees.

With the helpful aid of those having to do with the active administration of the Fund, Sections 4, 9, 12, 13, 16, 17, 18, 23, 25 and 26 of the present Rules have been recommended for revision to meet existing conditions in both the method of administration and the system of pension allowances. Briefly, the amendments and changes proposed may be summarized as follows:

Section 4. Includes the previously adopted amendment providing that, in the event that a subscriber has his salary reduced and desires to continue payments on his former salary rate, the Trustees of the Corporation will also continue to subscribe in such an amount.

Section 9. Provides that an employee entering the service of the Museum shall satisfactorily pass a physical examination at the time of his entrance into the service.

Section 12. Provides that in the event of the death of a subscribing employee who shall not otherwise be entitled to a gratuity according to the Rules, there shall be returned to his beneficiary the amount of his contributions to the Fund with simple interest.

Section 13. Provides that in the future, in the event of the death of an employee while in the service, the gratuity shall be based upon the employee's average annual salary during the last three years of employment rather than computed on the basis of the total contributions to the Pension Fund as heretofore, and the further provision for the method of computation of payment of death benefits for those employees who have rendered less than three years of service.

Section 16. In its proposed revised form this section constitutes the most vital change inasmuch as it provides a new scale of retirement allowances, together with the provision that hereafter employees of twenty-five years of service may retire regardless of their ages. A full understanding of this section requires a comparison with present Rules in order to have a definite knowledge of what the Pension Board has endeavored to bring about, and which it has long felt necessary in view of the changed living and working conditions.

Section 17. In its proposed form this section simply harmonizes with the proposed amendments in the previous section and in itself involves no change other than terminology.

Section 18. Revises the entire schedule of gratuities now in force payable to the beneficiaries of those employees who have been retired. Instead of a graduated scale extending over a period of ten years with a payment of 100% of the average annual salary if death occurs within the first year, decreasing 10% each succeeding year for ten years, it is proposed that if death occurs at any time during the first ten year period, a gratuity of 50% of the average annual salary will be paid, if during the next succeeding five years, then 25%.

Section 23 makes provision for the uniform computation of service and provides that in the determination of such, a service period of less than six months shall be disregarded, and a service period of more than six months shall be regarded as a full year.

Section 25 makes provision that in the event that the pension period of a subscriber shall have expired, the Pension Board may, if the conditions demand, extend the period of payment, with the provision, however, that such extension must be agreed upon as desirable by not less than six members of the Pension Board, and with the further provision that such extension of pension period will not constitute an undue charge against the Fund.

Section 26 has been revised in order to conform to the present rules of the Corporation providing for the number of Trustees necessary to recommend, or pass, any proposed amendment to the Rules.

All of these revisions are recommended by your Pension Board and are herewith submitted for adoption by the Trustees of the Corporation. We trust that, with due appreciation of the time and thought which the Pension Board has devoted to this matter, and with a full understanding of our financial condition, this Board, at its present full meeting, will feel warranted in adopting these recommendations to the end that the New Year will witness the accomplishment of a perfected system which, in its entirety, will prove beneficial to both employer and employee.

FELIX M. WARBURG,
Chairman.

New York, January 1, 1925.

STATEMENT OF MEMBERSHIP

1924

ACTIVE

Subscribing Employees, December 31, 1923.....	285
New Subscribers, January 1-December 31.....	38
	<hr/>
	323
Resignations.....	21
Deaths.....	3
	<hr/>
Membership December 31, 1924.....	299

RETIRED

Pensioned Employees 1924.....	8
Deaths.....	1
	<hr/>
Pensioned Employees December 31, 1924.....	7
	<hr/>
Total Membership, December 31, 1924.....	306

STATEMENT OF PENSION ALLOWANCES

Name	Yearly Amount	Date of Retirement	Period of Payment
H. Ernestine Ripley.....	\$416.00	Jan. 1, 1919	16 years
George A. Young.....	253.03	Feb. 1, 1919	15 years
Adam Hermann.....	988.00	Dec. 31, 1919	Life
James Kenney.....	406.16	Sept. 1, 1922	18 years
A. E. Anderson.....	250.00	Jan. 1, 1923	20 years
*Herman Langfelder.....	390.59	June 1, 1923	15 years, 9 months
James McGovern.....	458.62	Sept. 1, 1923	17 years, 3 months
George J. Beeth.....	515.54	Nov. 21, 1923	18 years, 9 months

*Deceased March 4, 1924.

Deceased

ALBERT HOELZLE

Albert Hoelzle, born in the City of New York on February 14, 1879, was one of the highly valued employees of the Museum. He brought to his position at the information desk during his twenty-four years of service there, an interest and tact that gave satisfaction to all. For a number of years, he performed his duties as assistant custodian of the Museum with the same ability. Very few, even of his close friends, at the Museum realized that for a long time before his death he was suffering from a physical impairment that must have taxed his cheerfulness sorely. In spite of this, however, the efficient service he rendered in his positions was so noteworthy that he was frequently commended by the officials of the Museum. His sudden passing away on August 20, 1924, has caused deep regret among the many friends he possessed.

BYRON E. HOOVER

Byron E. Hoover was born in Gouverneur, New York, on September 2, 1861. He entered the employ of the Museum in 1900 and for twenty-four years rendered efficient and most satisfactory service in the several departments to which he was assigned. Mr. Hoover possessed the rare faculty of making friends and his cheerful presence was always welcomed among the employees. In the Department of Anthropology, where he was employed for many years, his loyalty, painstaking care and knowledge of the material coming under his care, earned for him the esteem of the officials in charge. His unexpected death on November 12, 1924, occasioned a feeling of personal loss to a host of friends and among his co-workers.

Deceased

EDMUND OTIS HOVEY

Edmund Otis Hovey was born in New Haven, Connecticut, September 15, 1862. Dr. Hovey joined the Scientific Staff of the Museum in 1894, serving at first as Assistant Curator in Geology. In 1901 he became Associate Curator and in 1910 Curator, and occupied this position at the time of his death. During this long period of service in his chosen field of science, Dr. Hovey also most ably and efficiently served as the Editor of *Natural History* for ten years, Secretary of the New York Academy of Sciences for nine years and Secretary of the Geological Society of America for sixteen years, besides devoting time and energy to the promotion of church and civic affairs. Dr. Hovey was a man of scholarly attainments, ranking among the first in his field. He was possessed of a personality which endeared him to all with whom he came in contact, and had the gift of making and keeping friends. His sudden death, September 27, 1924, on the eve of his departure to take up new field work, left many colleagues, associates and friends who will ever cherish his memory.

HERMAN LANGFELDER

Herman Langfelder was born in Austria-Hungary August 26, 1857, and served for more than fifteen years as one of the Museum's capable attendants. He was respected by his co-workers and enjoyed the confidence of the official in charge of his department. Failing health compelled his retirement in 1923. After nearly a year of acute suffering, which he bore with fortitude and patience, he passed away March 4, 1924.

FINANCIAL STATEMENT
OF THE
PENSION FUND
OF THE
AMERICAN MUSEUM OF NATURAL HISTORY
1924

	Invested Funds		Book Value
	Par Value	Income	
Endowment Fund.....	\$1,258.37	\$50.34	\$1,140.39
Investment Fund.....	311,741.63	13,737.16	292,347.49
	<hr/>	<hr/>	<hr/>
Totals.....	\$313,000.00	\$13,787.50	\$293,487.88

STATEMENT OF INVESTED FUNDS

	Securities	Due	Rate of Int.	Annual Interest	Book Value	Interest Payable
\$15,000 00	Achison, Topeka & Santa Fe Ry. Co. Genl. Mtge.	1995	4%	\$600 00	\$13,278 75	Apr.-Oct.
10,000 00	Atlantic Coast Line R.R. Co. 1st Cons.	1952	4	400 00	8,940 00	Mar.-Sept.
10,000 00	Baltimore & Ohio R.R. Co. (Pittsburgh, Lake Erie & W. Va. System) Rfg. Mtge.	1941	4	400 00	8,194 75	May-Nov.
9,000 00	Baltimore & Ohio R.R. Co. 1st Mtge.	1948	4	360 00	7,818 50	Apr.-Oct.
5,000 00	" " " Rfg. & Genl. Mtge. Ser. "A"	1995	5	250 00	5,050 00	June-Dec.
10,000 00	Chicago & North Western Ry. Co. Genl. Mtge.	1987	4	400 00	8,982 50	May-Nov.
10,000 00	Chicago, Burlington & Quincy R.R. Co. (Illinois Div.)	1949	4	400 00	9,095 00	Jan.-July
10,000 00	" " " " Genl. Mtge.	1958	4	400 00	8,806 25	Mar.-Sept.
5,000 00	Chicago, Milwaukee & St. Paul R.R. Co. Genl. Mtge. Ser. "A"	2014	4½	225 00	4,668 75	Apr.-Oct.
5,000 00	Chicago & North Western Ry. Co. Genl. Mtge.	1987	5	250 00	5,007 50	May-Nov.
9,000 00	Cleveland Short Line Ry. Co. 1st Mtge.	1961	4½	405 00	8,703 50	Apr.-Oct.
10,000 00	Delaware & Hudson Co. 1st & Rfg. Mtge.	1943	4	400 00	8,927 50	May-Nov.
5,000 00	Great Northern Ry. Co. 1st & Rfg. Mtge. Ser. "A"	1961	4½	212 50	4,456 25	Jan.-July
5,000 00	Illinois Central R.R. Co. Rfg. Mtge.	1955	4	200 00	4,518 75	May-Nov.
10,000 00	" " " " "	1955	5	500 00	9,948 75	May-Nov.
10,000 00	Louisville & Nashville R.R. Co. Unified.	1940	4	400 00	9,126 25	Jan.-July
10,000 00	" " " " 1st & Rfg. Mtge. Ser. "B"	2003	5	500 00	10,268 75	Apr.-Oct.
10,000 00	Montana Central R.R. Co. 1st Mtge.	1937	5	500 00	10,006 25	Jan.-July
3,000 00	Corporate Stock of the City of New York	1927	4½	135 00	3,001 88	Jan.-July
5,000 00	New York Central & Hudson River R.R. Co. Rfg. & Imp. Mtge. Ser. "A"	2013	4½	225 00	4,706 25	Apr.-Oct.
20,000 00	New York Central R.R. Co. Rfg. & Imp. Mtge. Ser. "C"	2013	5	1,000 00	19,605 00	Apr.-Oct.
15,000 00	Norfolk & Western R.R. Co. 1st Cons. Mtge.	1996	4	600 00	13,701 00	Apr.-Oct.
5,000 00	Northern Pacific Ry. Co. Rfg. & Imp. Mtge. Ser. "A"	2047	4½	225 00	4,825 00	Jan.-July
7,000 00	" " " " " Ser. "C"	2047	5	350 00	6,884 25	Jan.-July
5,000 00	Oregon Short Line R.R. 1st Cons. Mtge. Stpd.	1946	5	250 00	5,045 00	Jan.-July
10,000 00	Pennsylvania R.R. Co. Genl. Mtge. Ser. "A"	1965	4½	450 00	9,496 25	June-Dec.
15,000 00	" " " " Ser. "B"	1968	5	750 00	15,083 25	June-Dec.
5,000 00	St. Louis, Peoria & Northwestern Ry. Co. 1st Mtge.	1948	5	250 00	4,957 50	Jan.-July
20,000 00	St. Paul, Minneapolis & Manitoba Ry. Co. Cons. Mtge.	1933	4½	900 00	19,542 50	Jan.-July
20,000 00	Southern Pacific R.R. Co. 1st Rfg. Mtge.	1955	4	800 00	17,827 00	Jan.-July
10,000 00	Union Pacific R.R. Co. 1st Mtge. R.R. & L. G.	1947	4	400 00	9,282 50	Jan.-July
10,000 00	" " " " Lien & Rfg. Mtge.	2008	4	400 00	8,740 00	Mar.-Sept.
5,000 00	" " " " "	2008	5	250 00	4,982 50	Mar.-Sept.
\$313,000 00				\$13,787 50	\$293,487 88	

PENSION FUND ACCOUNT

Receipts, 1924

Cash on hand January 1, 1924.....		\$12,581.36
Contributions of Subscribing Employees:		
Deductions of 3% from payrolls of		
City Maintenance Account.....	\$8,220.28	
General Account.....	5,224.75	
Morris K. Jesup Fund Account.....	5,066.94	
Special Funds Account.....	333.79	
Corporate Stock Account.....	525.27	
Museum Building Fund Account.....	37.10	
Incidental Account.....	.81	
	<hr/>	
	\$19,408.94	
Personal Contributions of Subscribing Employees	627.67	\$20,036.61
	<hr/>	
Contributions of Board of Trustees:		
To Equal Contributions of Subscribing Employees		20,036.61
Return of Contributions (Previously Refunded)....		496.55
Interest on Repayment of Contributions and Interest		1.02
Interest on Contributions (Refund).....		59.29
Income from Investment Fund.....	\$12,565.20	
Income from Endowment Fund.....	50.34	12,615.54
	<hr/>	
Interest on Credit Balances.....		191.22
		<hr/>
		53,436.84
Investment Fund:		
Sale of Securities.....		92,810.74
Bursar's Account.....		1,000.00
		<hr/>
		\$159,828.94
Examined and { A. PERRY OSBORN } Approved { F. TRUBEE DAVISON } <i>Auditing Committee.</i>		

PENSION FUND ACCOUNT

Disbursements, 1924

Return of Contributions.....	\$4,268.15	
Interest on Contributions Returned.....	342.45	
	<hr/>	\$4,610.60
Service Pensions "A".....	\$1,187.11	
Service Pensions "B".....	250.00	
Service Pensions "E".....	988.00	
Pensions in Event of Illness, Dismissal, etc.....	931.54	
Death Gratuities paid under Section 13.....	5,571.13	
Death Gratuities paid under Section 18.....	1,071.78	
	<hr/>	9,999.56
Expenses.....		50.00
		<hr/>
		\$14,660.16
Purchase of Securities:		
Investment Fund.....		131,092.25
Loan Account.....		1,000.00
Cash on hand December 31, 1924:		
Deposited with the United States Trust Com-		
pany of New York.....	\$12,076.53	
Deposited with the Colonial Bank (Bursar's		
Account).....	1,000.00	
	<hr/>	13,076.53
		<hr/>
		\$159,828.94
E. and O. E.	GEORGE F. BAKER, JR.,	
NEW YORK, December 31, 1924.	Treasurer.	

PENSION FUND—SPECIAL FUNDS ACCOUNT

Receipts, 1924

Welfare Fund:

Balance, January 1, 1924.....		\$71.47	
Transferred from General Account			
(Allowances from Trustees).....	\$193.84		
Transferred from Interest on Credit Balances.....	1.64		
		<u>195.48</u>	
			<u>\$266.95</u>
Interest on Credit Balances:			
Earnings to December 31, 1924.....			1.64
			<u>\$268.59</u>

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

PENSION FUND—SPECIAL FUNDS ACCOUNT

Disbursements, 1924

Welfare Fund.....	\$193.84
Interest on Credit Balances:	
Transferred to Welfare Fund.....	1.64
Cash on hand December 31, 1924:	
Deposited with United States Trust Company of New York.....	73.11
	<hr/>
	\$268.59

E. and O. E.

NEW YORK, *December 31, 1924.*

GEORGE F. BAKER, JR.,

Treasurer.

EDUCATIONAL AND ADMINISTRATIVE PUBLICATIONS

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report of the year 1921, issued in 1922,

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