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AMERICAN MUSEUM OF NATURAL HISTORY



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IRVING PRESS  
119 and 121 East Thirty-first Street  
New York



Science N.

7

THIRTY-NINTH ANNUAL REPORT  
OF  
THE AMERICAN MUSEUM  
OF NATURAL HISTORY

Central Park, New York City  
Seventy-seventh Street and Central Park West

Annual Report of the President  
Treasurer's Report                      List of Accessions  
Act of Incorporation  
Contract with the Department of Parks  
Constitution      By-Laws and List of Members  
  
For the Year 1907



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NEW YORK  
1908

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FOR 1908

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Standing Committees

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HERMON CAREY BUMPUS

### Assistant Secretary and Assistant Treasurer

GEORGE H. SHERWOOD

# SCIENTIFIC STAFF

FOR 1908

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## *DIRECTOR*

HERMON CAREY BUMPUS, Ph.D., Sc.D.

## *DEPARTMENT OF PUBLIC INSTRUCTION*

Prof. ALBERT S. BICKMORE, B.S., Ph.D., LL.D., Curator Emeritus

GEORGE H. SHERWOOD, A.B., A.M., Curator

## *DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALÆONTOLOGY*

Prof. R. P. WHITFIELD, A.M., Curator

EDMUND OTIS HOVEY, A.B., Ph.D., Associate Curator

## *DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY*

Prof. J. A. ALLEN, Ph.D., Curator

FRANK M. CHAPMAN, Curator of Ornithology

## *DEPARTMENT OF VERTEBRATE PALÆONTOLOGY*

Prof. HENRY FAIRFIELD OSBORN, A.B., Sc.D., LL.D., D.Sc., Curator

W. D. MATTHEW, Ph.B., A.B., A.M., Ph.D., Associate Curator

WALTER GRANGER, Assistant

BARNUM BROWN, A.B., Assistant

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Prof. BASHFORD DEAN, A.B., A.M., Ph.D., Curator of Fossil Fishes

LOUIS HUSSAKOF, B.S., Ph.D., Assistant

## *DEPARTMENT OF ANTHROPOLOGY*

CLARK WISSLER, A.B., A.M., Ph.D., Curator

HARLAN I. SMITH, Assistant Curator

GEORGE H. PEPPER, Assistant

CHARLES W. MEAD, Assistant

---

Prof. MARSHALL H. SAVILLE, Honorary Curator of Mexican Archæology

SCIENTIFIC STAFF FOR 1908—*Continued.*

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*DEPARTMENT OF ENTOMOLOGY*

WILLIAM BEUTENMÜLLER, Curator

*DEPARTMENT OF MINERALOGY AND CONCHOLOGY*

L. P. GRATACAP, Ph.B., A.B., A.M., Curator

GEORGE F. KUNZ, A.M., Ph.D., Honorary Curator of Gems

*DEPARTMENT OF BOOKS AND PUBLICATIONS*

Prof. RALPH W. TOWER, A.B., A.M., Ph.D., Curator

*DEPARTMENT OF INVERTEBRATE ZOOLOGY*

Prof. WILLIAM MORTON WHEELER, Ph.D., Curator

ROY W. MINER, A.B., Assistant Curator

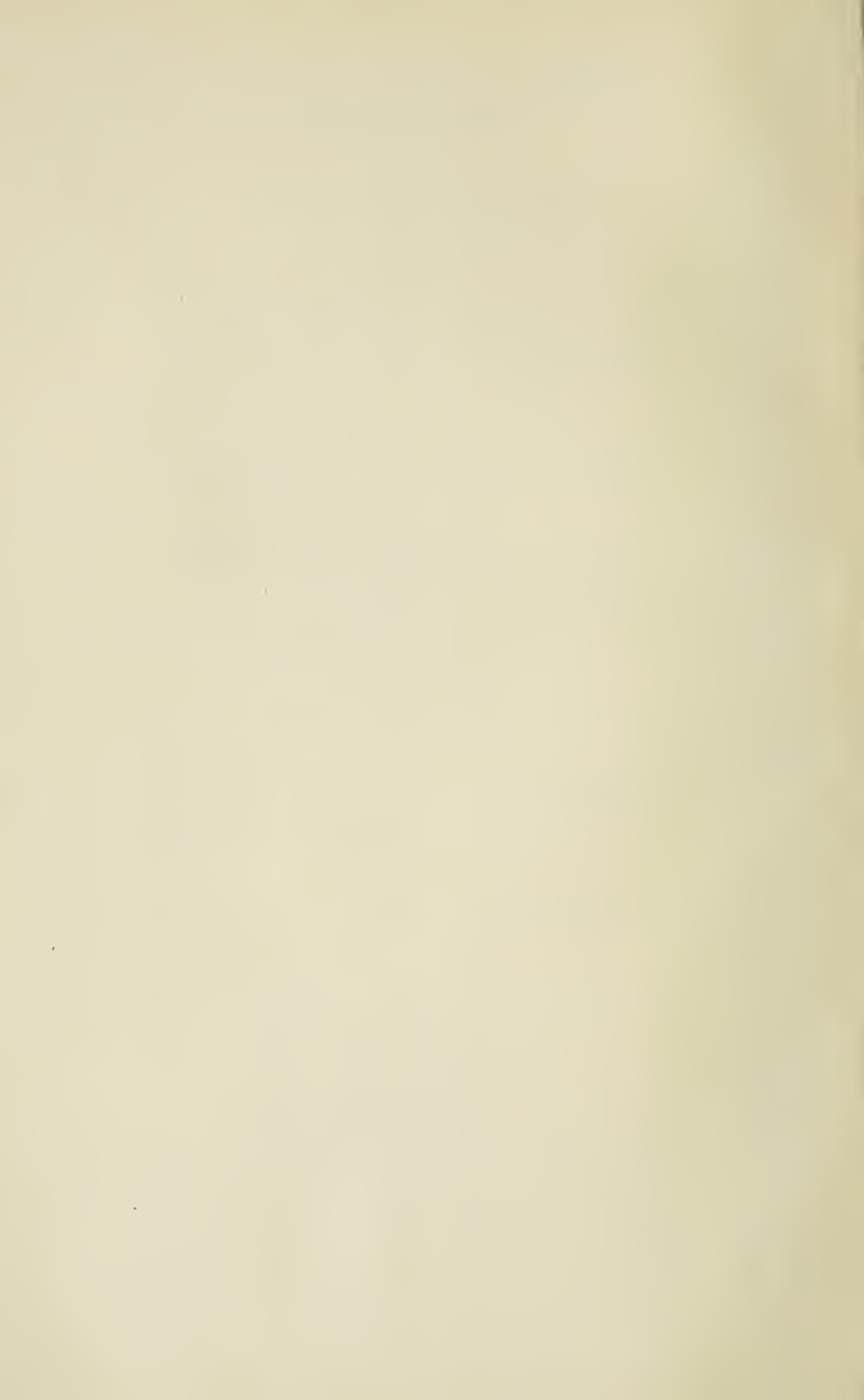
B. E. DAHLGREN, D.M.D., Assistant Curator

*DEPARTMENT OF PHYSIOLOGY*

Prof. RALPH W. TOWER, A.B., A.M., Ph.D., Curator

*DEPARTMENT OF MAPS AND CHARTS*

A. WOODWARD, Ph.D., Curator





# THIRTY-NINTH ANNUAL REPORT.

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

It is the sad duty of the President to open this report with the record of the death, on the morning of January 22, 1908, of Morris Ketchum Jesup, one of the original incorporators of the Museum in 1868, for forty years devoted to its promotion and welfare and for twenty-seven years its President.

The minute of the Board of Trustees, adopted at the Annual Meeting, February 10, 1908, is as follows:

As Trustees of The American Museum of Natural History, we record with profound sorrow the loss we have sustained in the death of

## MORRIS KETCHUM JESUP

As President for the last twenty-seven years, Mr. Jesup has guided the development of the Museum with rare ability and devotion and has become united to us by many warm ties of personal friendship. He carried into the office all of his finest qualities of character; he was sanguine, constructive, determined, trustful, appreciative and most kindly disposed toward those closely associated with him in the administration of the Museum. We realize now, even more clearly perhaps than when he was actually with us, his keen patriotism and controlling sense of the duties of citizenship, his idealism and his faith in the future development of our city and country.

A review of our minutes shows that Mr. Jesup was one of the original incorporators of the Museum, December 30, 1868; that he was elected a Trustee, February 1, 1869; that he became a Fellow in perpetuity, February 13, 1871; that he was elected First Vice-President, May 10, 1880; that he was elected President, February 14, 1881. He was an active member of all committees from the inception of the Museum, including the committee appointed to select the present site which has proved to be most advantageous. He was always actively engaged in furthering the interests of the Museum at the State

Capital, with the various City authorities and particularly in conferences with the Mayor and with the President of the Park Board. For many years he visited the Museum several days each week, and to within the last few years attended to all the details of administration.

This brief review of his official connection with us gives little idea of the real character and magnitude of his services; to attempt to record the history of his administration would be to write the history of the institution since 1881, when his name first appears as President.

Of all the many centers of his activities for public good the Museum was most constantly in his mind, closest to his heart and the recipient of his most generous gifts. Succeeding Mr. John David Wolfe and Mr. Robert L. Stuart, he assumed the presidency of the Museum at a time when the first impulse and enthusiasm of its establishment had slackened somewhat and it was evident that some one must assume the chief care and responsibility of leadership, financial, administrative and constructive.

His first annual report announced his determination to establish a collection showing both the natural history and the economic features of the woods and trees of North America. In 1897 he established the Jesup North Pacific Expedition, to maintain explorations in British Columbia, Alaska and Siberia and to publish the results of these explorations, the purpose of which was to determine, if possible, the migrations of the human races between the new and old worlds. He also maintained expeditions extending over a period of several years for the purpose of collecting important data regarding the vanishing tribes of North American Indians. He supported the Lumholtz expedition to northern Mexico (1890). In 1895 he subscribed to the Cope Collection of North American fossil mammals, and in 1902 he presented to the Museum the Cope Collection of fossil amphibians, reptiles and fishes. From time to time he contributed large sums for the development of the mineral collections. His lesser gifts are too numerous to mention, but we may single out among the more recent the New Zealand and Rio Negro ethnological and zoölogical collections. One of his most beautiful and characteristic gifts was a series of marble portraits of distinguished American men of science (1906). In 1904 he especially urged upon the Trustees the importance of raising the Permanent Endowment Fund and contributed \$200,000 therefor.

There were two grandly distinctive features of Mr. Jesup's plans and of his administration.

First, his desire to popularize science through the arrangement and exhibition of collections in such a simple and attractive manner as to render them intelligible to all visitors. To the same end of popular education he favored Sunday opening and the opening of the Museum evenings in order that working men and others closely occupied during the day might attend. The establishment of the public lectures under Professor Albert S. Bickmore, bringing the Museum into closer connection with the work of the State Department of Public Instruction, was one of the first features of his administration, and led to the general institution of public courses of lectures. He finally favored and put into practice the free opening of the Museum on every day of the week.

The second great feature of his administration was his recognition that at the foundation of popular science is pure science, and his determination, which increased with advancing years, that the Museum should be as famous for its scientific researches and explorations as for its popular exhibitions and educational work. His faith in the beneficent influence of science and in the work of scientific men was most remarkable in a man trained and educated solely for business. During the year 1907, the last year of his administration, with his sanction the Museum devoted nearly \$80,000 to the development of natural science through exploration, research and publication.

More than a quarter of a century ago, with prophetic vision, he saw that this Museum under proper direction would develop and finally become a center for scientific work, an effective agency for education, an instrument for the improvement of the people and an index of the culture of the community. To these ends he strove; and his simple statement announced at the conclusion of his labors, "I believe it to be to-day one of the most effective agencies which exist in the City of New York for furnishing education, innocent amusement and instruction to the people," was an expression of personal conviction in which we most heartily concur.

While we are mindful that his leadership has resulted in the establishment of this splendid institution, and that his noble bequest provides for the continuation of work already begun, we do not forget the responsibilities that his administration has imposed upon us. It is with regard for him, and with respect and cordial sympathy for the measures leading to public betterment which were clearly and wisely expressed in the terms of his bequest, that we are encouraged to assume the important obligations thus imposed.

The Museum has received testimonials of appreciation and sympathy from scientific institutions and associations both at home and abroad, including especially the following:

Scientific Staff of The American Museum of Natural History.

New York Academy of Sciences.

Audubon Society of the State of New York.

American Ethnological Society.

Linnæan Society of New York.

Peary Arctic Club.

Smithsonian Institution, Washington, D. C.

Field Museum of Natural History, Chicago, Ill.

Carnegie Museum, Department of the Carnegie Institute, Pittsburgh, Penn.

Senckenbergische Naturforschende Gesellschaft, Frankfurt a/Main, Germany.

Universidad de la Habana, Cuba.

These have been appropriately printed and distributed to learned bodies at home and abroad and to patrons and friends of the Museum. The following passages are from an appreciation of Mr. Jesup's services, which appeared in the leading American scientific journal, *Science*:

It may be said without reserve that Mr. Jesup was as full of enthusiasm for, and faith in, the cause of pure research as he was in that of popular education. During 1907, the last year of his administration, and with his sanction, the Museum spent at least \$80,000 for strictly scientific work. It is important to make this statement because the extent of the activities of the Museum in the field of pure science is not so widely known as it should be.

Two years ago the Trustees of the Museum invited Mr. Jesup to celebrate the twenty-fifth anniversary of his presidency of the institution. A loving cup beautifully designed in gold was presented to him, with inscriptions and symbols in allusion to those branches of science in which he had taken special interest. On one face of the cup reference was made to the forestry of North America; on another, his interest in vertebrate paleontology was indicated and his gift of the Cope Collection of fishes, amphibians and reptiles was mentioned; on the third face was a design symbolizing the work of the

Jesup North Pacific expeditions, the last and greatest of the enterprises toward which his efforts were directed. Two years have elapsed since this memorable meeting, at which the three surviving founders of the Museum, J. Pierpont Morgan, Joseph H. Choate and Mr. Jesup were present.

During the past year, because of failing strength, Mr. Jesup has not been able to take an active part in the management of the Museum, but its welfare has been one of the chief subjects of his thought and its progress one of the chief sources of happiness to him during his last illness.

#### BEQUEST TO THE MUSEUM.

Mr. Jesup in his will left a noble bequest to the Museum which will enable the Trustees to carry on those lines of work in which he was especially interested during his lifetime. The terms of the bequest are peculiarly interesting because they set forth fully his views as to the relations of the public and private support of the Museum; they are as follows:

I give and bequeath to The American Museum of Natural History in the City of New York One million dollars (\$1,000,000), to constitute a permanent fund, the principal to be invested and kept invested, and the income to be applied and appropriated to the general purposes of the Museum, other than alterations, additions, repairs or erection of buildings, the purchase of land or the payment of salaries, or for labor or for services of any kind, ordinarily considered under the item of maintenance.

I wish to explain that I have bequeathed this sum of One million dollars (\$1,000,000) to The American Museum of Natural History, and that I have made for it the other bequests and provisions contained in my Will because of the fact that I have been identified with the Museum from its Act of Incorporation to the present time. I have been its President since 1882. Since that time I have devoted a great part of my life, my time, my thoughts and my attention to its interests. I believe it to be to-day one of the most effective agencies which exist in The City of New York for furnishing education, innocent amusement and instruction to the people. It can be immensely increased in its usefulness by increasing its powers. The City of New York, under its contract with the Museum, is to provide buildings and to maintain them, but the buildings must be filled with specimens. This means that for the purpose, the necessary amount must come from



individual donors. It is in order that the means for this purpose may be helped, as the Museum must grow in additional buildings by the City, and in view of its great possibilities for the future, that I make for the Museum the bequests and provisions contained in my Will, relying upon the Trustees of the Museum to do their share, by looking after the investment of the funds, the use of its income and by carefully watching over, and wisely planning for the best interests of this great institution.

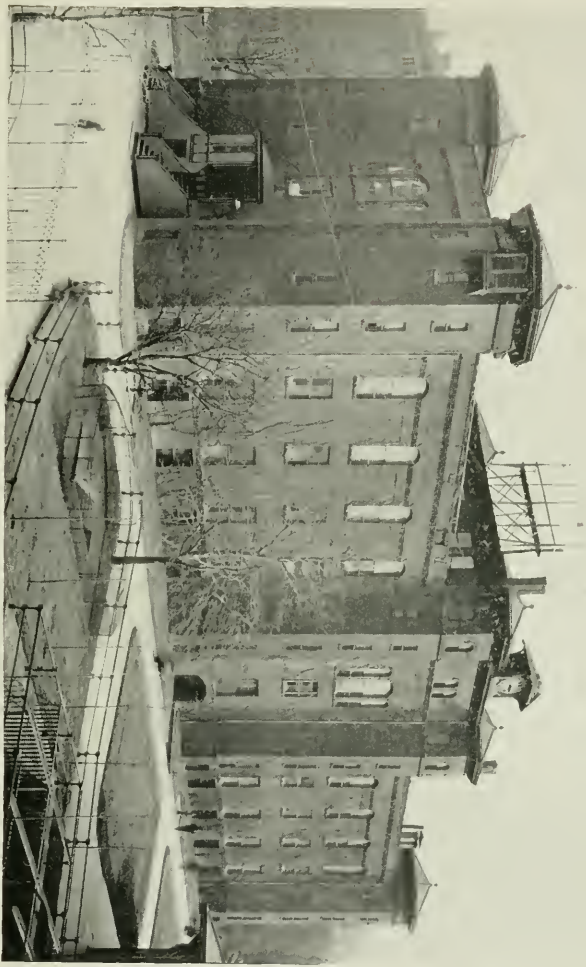
#### STATUS OF THE MUSEUM.

Under Mr. Jesup's administration, through his own gifts and with the generous coöperation of his fellow trustees, the Museum has gained a strong and sound foundation for its future line of development. A few comparative figures will be instructive. In 1881, the year Mr. Jesup assumed the presidency, the City Maintenance Fund was \$10,000; it is now \$160,000. The Permanent Endowment Fund was not then established; to-day it is \$2,047,750, including Mr. Jesup's bequest. The Special Fund gifts of that year were \$17,750; for 1907 they amounted to \$110,000. The Museum building has thus far cost the city \$4,838,000, a generous sum in itself but small in comparison with that often expended on public buildings. Owing to the wise expenditure of this fund, a total floor space of 438,859 square feet has been secured, and a total exhibition space of 262,236 square feet. This is to be compared with the 164,850 square feet of exhibition space in one of the best known national institutions abroad.

The total contributions to the collections and explorations of the Museum—since its foundation—amount to about \$3,000,000. These gifts added to the endowment amount to approximately \$5,000,000.

These material strides are no more important than the growth of the scientific and public educational spirit which pervades the Museum, the wide geographic extent of its exploration and the reputation it has gradually earned of being one of the foremost centers for the promotion of natural history.

Feb 1877



THE ARSENAL IN CENTRAL PARK. First Home of the Museum, 1870-1877





We now turn from this retrospect of a great administration to the operations of the past year.

## I. ADMINISTRATION, BUILDING, EDUCATION.

ADMINISTRATION.—Perhaps the most important change in the administration of the Museum has been the abolition of pay-days and the opening of the exhibition halls free to the public *every day in the year*. Since the founding of the Museum—now nearly forty years ago—certain days each week have been reserved for Members, pupils of the public schools, special students and artists. While this reservation was justifiable when the Museum was smaller, we should not forget that the Museum is a municipal institution, it is primarily for the public, and any regulation which interferes with the general enjoyment of its privileges is contrary to the spirit of its founders and opposed to the wishes of its supporters.

This action was taken in the belief that such a step would meet with the emphatic approval of our Members, for we were convinced that those who have contributed and are contributing towards the support of this institution are not actuated by selfish motives; they contribute because they believe in the work that the Museum is doing and because they derive pleasure from being associated with it. Only words of approval have been received.

It is gratifying to report on the extension of the cordial relations existing between the American Museum and sister institutions at home and abroad. In the spring the Museum participated in a celebration commemorating the 200th anniversary of the birth of Linnæus. In August it entertained the members of the Seventh International Congress of Zoölogy, among whom were representatives of many leading institutions of the old and new worlds.

During the year the Director made two trips abroad for the purpose of arranging with other institutions for exchanges and purchases. His visits have materially strengthened the cordial relations existing between the Museum and scientific societies in Europe.

**BUILDING.**—In spite of many delays excellent progress has been made by the contractors in the construction of the new wing on Columbus Avenue (South Section of the West Façade). About ninety-five per cent. has been completed and, if the financial conditions permit, the building will be finished early in 1908.

The ruling of the City authorities, whereby the cost of new construction and the building of new cases can be charged to the building fund, has resulted in the making of many needed improvements. Under this arrangement fourteen fire-proof storage rooms have been constructed in the attic of the North Wing, occupying space which heretofore has been practically useless; a hand elevator has been installed, making the storage rooms accessible, and the backs for ten of the habitat groups have been made.

At relatively little cost a trench has been dug connecting the Power House with the new wing and providing for the pipes and wires necessary to heat and light this part of the building.

The usual amount of repair work has been attended to, including the pointing up of the South Façade, the reconstruction of several sewer lines, the making of new connections with the water-mains, the installation of additional fire pumps, the construction of storage cases, cabinets, etc., and the repainting of 179,890 square feet of wall space.

**ATTENDANCE.**—There has been an increase in the attendance of visitors of more than twelve per cent. The number of visitors is well beyond the half-million mark, the total being 537,894. The children's lectures were attended by 26,312 pupils, while 2,233 were present at the special lectures given by Mrs. Roesler. The attendance at the public lecture courses was 35,068. The Members will be pleased to learn the extent to which the Museum is used by teachers and classes, not alone of the public and private schools of the City, but by many from neighboring towns and cities.

## PUBLIC EDUCATION.

DEPARTMENT OF PUBLIC INSTRUCTION.—There has been an ever increasing demand for the nature-study collections which the Museum loans to the public schools. To satisfy all these requests, it has been necessary to procure new material and to prepare additional collections. There are now 450 cabinets available for this purpose. The collections have been supplied to 325 schools, and the data furnished by the teachers show that 725,000 children have profited thereby.

The methods of distribution have been greatly facilitated through the purchase of an electric delivery wagon.

This method of supplying nature-study material to the schools has attracted considerable attention in other States, and several foreign educators have critically examined our collections and methods of distribution with a view to establishing a similar system in their own cities.

The growth of the Museum during the last few years has made it possible to accommodate large bodies of school children without interfering materially with the use of the exhibition halls by adults. Special students are now given laboratory facilities well removed from visitors, and artists continue to have every encouragement for their work in private rooms or in portions of the gallery temporarily partitioned off for their use.

Early in the year Mrs. Agnes Roesler was appointed as an instructor to meet Members and their friends, also classes of school children, and to accompany them through the halls, explaining the meaning of the various exhibits. The success of this personal instruction has been marked from the first. Three thousand persons have presented Members' cards, and Mrs. Roesler also has met regularly classes from the Normal College and given them illustrated lectures and laboratory instruction. The results obtained have proved so satisfactory that additional instructors will soon be needed.

Another important step in making the Museum of more practical educational value in the community has been the placing of exhibits in some of the branches of the New York

Public Library. Several collections have been arranged for this work, among which may be mentioned an Eskimo and a "Hiawatha" exhibit. Under advice from Miss Moore, the Supervisor of Children's Libraries, these collections have been placed temporarily in certain branch libraries. The results indicate that this work should be extended.

As usual the photographic work has been in charge of this department. Much routine work has been accomplished, which includes the making of many negatives and prints for publication and study, the supplying of photographs to newspapers and magazines and the cataloguing and filing of negatives, photographs and lantern slides.

The educational work of the Museum has been further extended by means of the lecture courses, consisting of more than 100 lectures. These include (1) a spring and a fall course to Members, (2) a special lecture to Members by Commander R. E. Peary, (3) a spring and a fall course for pupils of the public schools, (4) free lectures on public holidays and (5) three courses given in conjunction with the Board of Education of the City of New York.

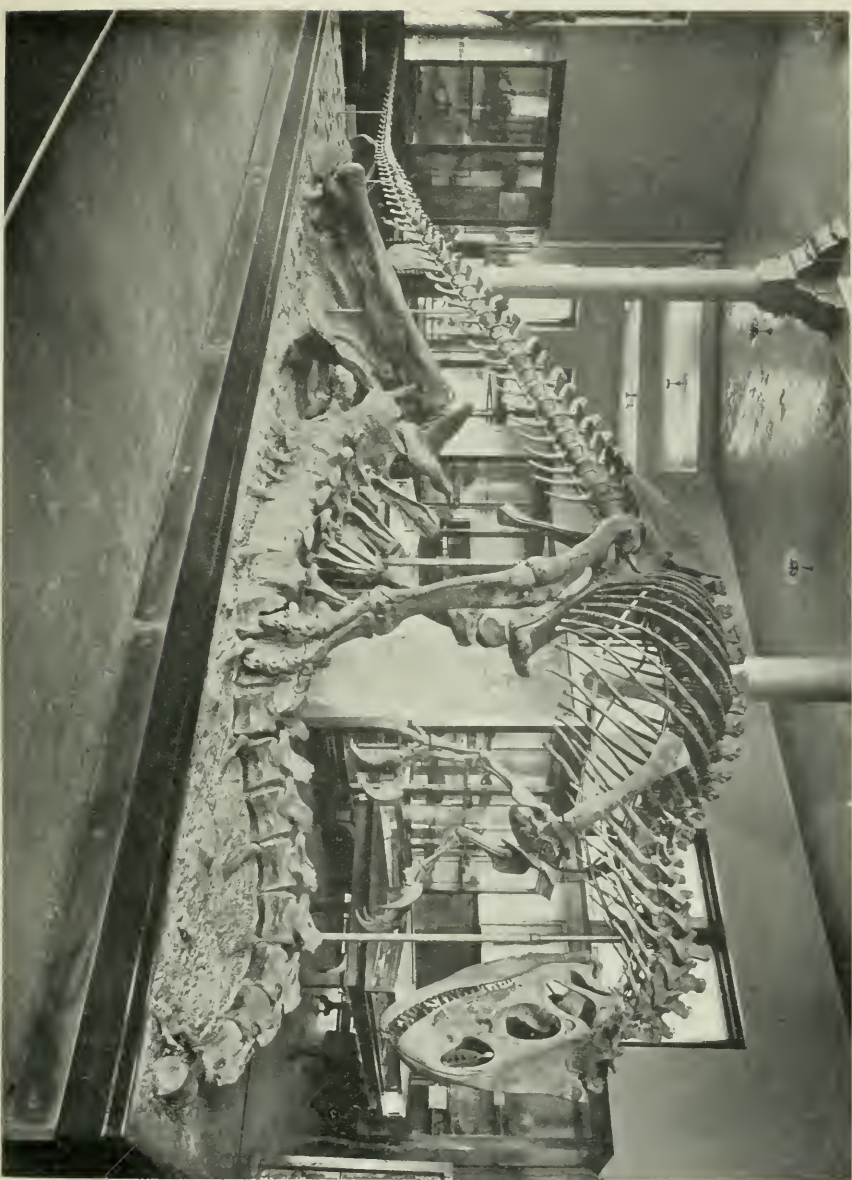
The following lectures to Members, relating to the field work which the Museum has done, were delivered by members of the scientific staff:

#### LECTURES TO MEMBERS.

February	21.—Bird Hunting with a Camera.....	Clinton G. Abbott
"	28.—Hunting Big Game in British East Africa....	Richard Tjäder
March	7.—Whales and Whaling.....	Frederic A. Lucas
"	14.—Earthquakes; Their Causes and Effects.	Edmund Otis Hovey
"	21.—Living with the Indians of the Plains.....	Clark Wissler
November	7.—Bird Studies in the Bahamas, the Southern States and Northwestern Canada.....	Frank M. Chapman
"	14.—The American Museum Expedition to the Fayûm.	Henry Fairfield Osborn
"	21.—A Month's Tour of the Yellowstone Park.	Edmund Otis Hovey
December	5.—An Unknown Field in American Archæology.	Harlan I. Smith
"	12.—The Fur Seal—Its History and Habits....	Frederic A. Lucas

#### SPECIAL LECTURE TO MEMBERS.

So many of the Members expressed a desire to hear Commander Peary that arrangements were made for him to



THE ALLOSARUS GROUP. An Allosaurus, a great Carnivorous Dinosaur, is feasting upon the carcass of a Brontosaurus, an immense Herbivorous Dinosaur





speak on May 14. His subject was "The Work of the Peary Arctic Club in 1905-1906 and the Plans for 1907-1908.

PUBLIC LECTURES ON HOLIDAYS.

New Year's Day, January 1.—The Home-Life of Flamingoes.

Frank M. Chapman

Washington's Birthday, February 22.—The Five American Nations:

Conquerors of the Snow, Forest, Mist, Desert and Plain.....

Harlan I. Smith

Thanksgiving Day, November 28.—A Month's Tour of the Yellow-

stone Park.....

Edmund Otis Hovey

Christmas Day, December 25.—Hiawatha's People.....

Harlan I. Smith

LECTURES FOR CHILDREN.

A spring course of lectures was given for pupils of the public schools and for the children of Members on Monday, Wednesday and Friday afternoons at four o'clock, as follows:

March	4	and	April	8.	—Along the Historic Hudson.....	G. H. Sherwood
"	6	"	"	10.	—Life in the Far North.....	H. I. Smith
"	8	"	"	12.	—New York City in Colonial Days.....	R. W. Miner
"	11	"	"	15.	—The American Indians of To-day.....	G. H. Pepper
"	13	"	"	17.	—Commercial Centers of Europe.....	E. O. Hovey
"	15	"	"	19.	—Natural Wonders of Our Country.....	R. W. Miner
"	18	"	"	22.	—Travels in South America.....	Barnum Brown
"	20	"	"	24.	—Farming in the United States.....	G. H. Sherwood
April	5	"	"	26.	—The Products of Our Mines.....	E. O. Hovey

A fall course was given, as follows:

October	28	and	November	18.	—Among the Filipinos.....	G. H. Sherwood
"	30	"	"	20.	—The Panama Canal.....	E. O. Hovey*
November	1	"	"	22.	—Our Native Birds and Their Habits,	F. M. Chapman
"	4	"	"	25.	—Early Days in New York City..	R. W. Miner
"	6	"	December	4.	—Forests and Their Dependent Indus-	A. C. Burrill
"	8	"	"	6.	—Historic Scenes in New England,	G. H. Sherwood
"	11	"	"	9.	—Peoples of the Earth.....	H. I. Smith
"	13	"	"	11.	—Scenes in Our Western States.	R. C. Andrews
"	15	"	"	13.	—Famous Rivers of the World..	R. W. Miner

\* On November 20, in the absence of Dr. Hovey, this lecture was delivered by Mr. G. H. Pepper.





*Saturday Evenings.*

A Course of Eight Lectures on "The Principles of General and Human Evolution," by Professor Henry E. Crampton.

- January 5.—Principles of Organic Evolution.  
" 12.—The Anatomical Evidence of Evolution.  
" 19.—Development as Evidence of Evolution.  
" 26.—The Evidence of Fossils.
- February 2.—The Method of Evolution.  
" 9.—The Evolution of the Human Species.  
" 16.—The Evolution of Human Races.  
" 23.—Evolution of Mind, of Society and of Ethics.
- A Course of Nine Lectures on "Electricity and Electrical Energy,"  
by Professor John S. McKay.
- March 2.—Relation of Electricity to Matter—The Electron Theory.  
" 9.—Relation of Electricity to Energy—An Electric Charge and an  
Electric Current.  
" 16.—Electric Currents, or Electricity in Motion.  
" 23.—Thermal Relations of Electric Currents.  
" 30.—Chemical Relations of Electric Currents.
- April 6.—Relation of Electric Currents to Magnetism.  
" 13.—Relation of Magnetism to Electric Currents.  
" 20.—Direct Current, Generators and Motors.  
" 27.—Alternating Currents and Alternating Current Machines.
- A Course of Seven Lectures on "The Life of Animals,"  
by Professor Samuel C. Schmucker (except as noted).
- October 5.—Crabs and Their Cousins.  
" 12.—Insect Changes.  
" 19.—A Family of Spinners (Spiders).  
" 26.—The Life Story of the Honey Bee. (Everett Lyon, Ph.D.)
- November 2.—Little Brothers of the Air (Birds).  
" 9.—Modern Mound Builders (Ants).  
" 16.—My Foster Children (Animals as Pets).
- A Course of Four Lectures on "Commercial Geography,"  
by Dr. J. Russell Smith.
- November 23.—The Story of a Steel Rail.  
" 30.—The Story of a Ton of Coal.
- December 7.—The Story of a Basket of Fruit.  
" 14.—The Story of a Piece of Board.

HOSPITALITY TO SCIENTIFIC SOCIETIES.

The lecture halls and conference rooms have been in constant demand by scientific societies and other organizations for various meetings. Whenever possible, and when consistent with the purposes of the Museum, these requests

have been granted. As usual the New York Academy of Sciences and Affiliated Societies have held their sessions at the Museum.

In the winter, under the auspices of the American Institute of Social Service, an exposition of devices for preventing accidents and for saving human life was held in the Siberian Hall; and later the International Kindergarten Union held an exhibition in the same hall, at which the results of kindergarten work were shown and kindergarten methods demonstrated.

The New York Library Club enjoyed the use of our Auditorium for its annual meeting. The same is true of the Society for the Protection of the Adirondacks.

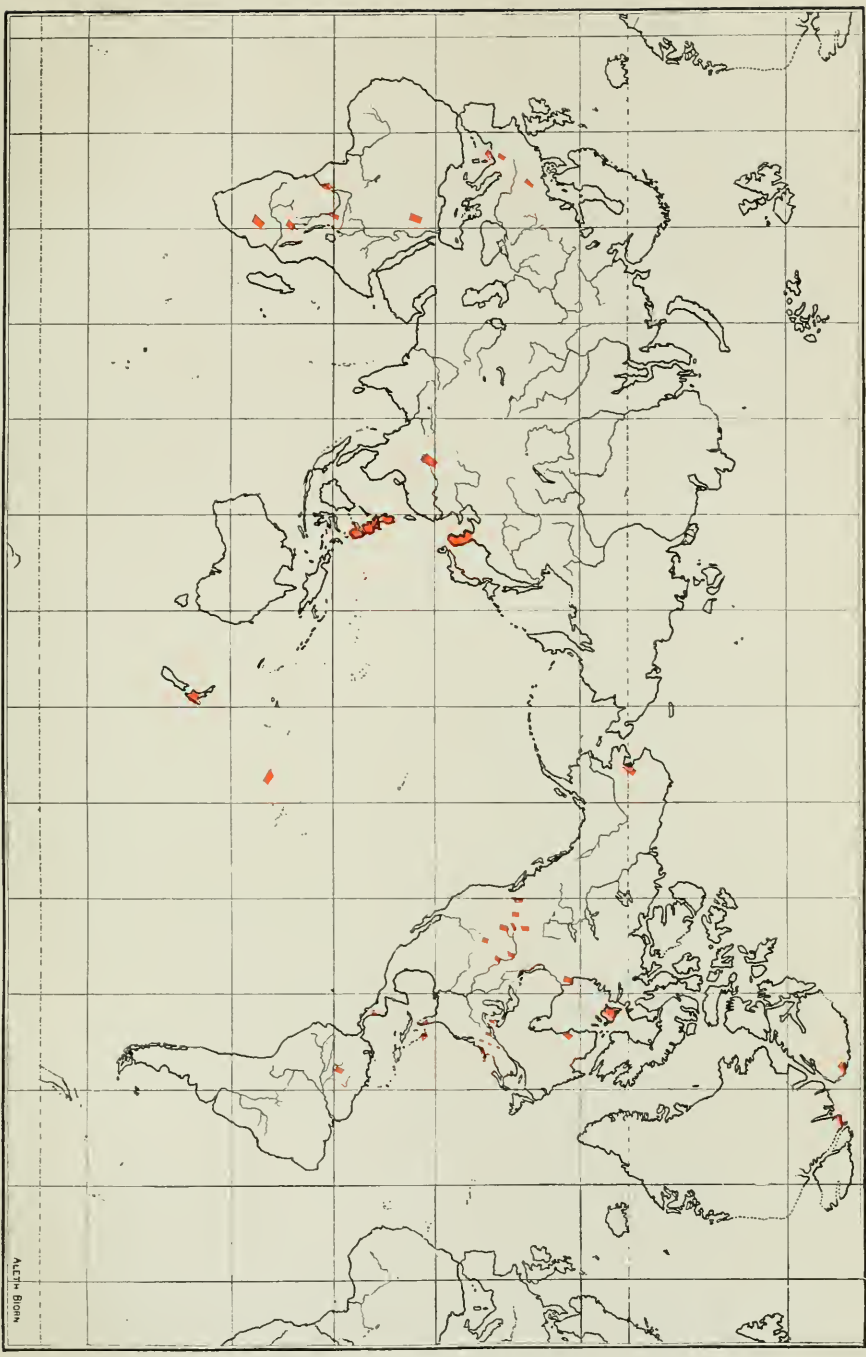
The following is a list of the societies and organizations that were the guests of the Museum during the year 1907:

- American Bison Society.
- American Ethnological Society.
- American Institute of Social Service.
- American Psychological Association, New York Branch.
- Anglers' Conference.
- Association for the Protection of the Adirondacks.
- Audubon Society of the State of New York.
- Classes from Normal College.
- Classes from the Young Women's Christian Association.
- International Kindergarten Union.
- Linnæan Society of New York.
- National Association of Audubon Societies for the Protection of Wild Birds and Animals.
- Natural Science Committee of the Associate Alumnae of the Normal College, New York City.
- New York Academy of Sciences.
- New York Entomological Society.
- New York Library Club.
- New York Microscopical Society.
- New York Mineralogical Club.
- New York Naturalists' Club.
- Physics Club of New York City.
- Seventh International Congress of Zoölogy.
- Torrey Botanical Club.
- West Side Natural History Society.

In May the Museum participated with the New York Academy of Sciences, the New York Botanical Garden, the

AREAS IN RED INDICATE THE REGIONS REACHED BY MUSEUM EXPEDITIONS OR FROM WHICH IMPORTANT COLLECTIONS

WORLD MAP



ALLEN BORN



New York Zoölogical Society and the Brooklyn Institute of Arts and Sciences in celebrating the 200th anniversary of the birth of Linnæus, the great Swedish naturalist. Exercises were held at the Museum on the morning of May 23, at which commemorative addresses were made and communications read from scientific societies both at home and abroad. A special exhibit showing the animals known to Linnæus was also prepared. Sessions were held in the afternoon at the Botanical Garden in the Bronx, and a bronze tablet was unveiled at the Linnæus bridge. The Zoölogical Park was then inspected, and evening receptions were held at the New York Aquarium and at the Brooklyn Institute.

During the visit of the members of the Seventh International Congress of Zoölogy to New York, they were entertained at the Museum. The exhibition halls and laboratories were thrown open to their inspection and luncheon was served in the Loubat Hall of Mexican Archæology. In the evening an informal reception was tendered to the visiting scientists and several of the curators spoke of the recent field explorations of the Museum, illustrating their remarks with lantern slides.

## II. COLLECTIONS, EXPLORATIONS AND EXHIBITIONS.

A geographic summary of the territory reached by all the Museum expeditions or from which large collections have been received is shown in the World Map on the opposite page.

During the past year the policy of exploration has been extended. In connection with its several scientific departments, the Museum has sent representatives or expeditions to the following States and foreign countries:

### *In United States.*

ALASKA.	LONG ISLAND.	NEW JERSEY.
FLORIDA.	NEW YORK.	NEBRASKA.
	SOUTH DAKOTA.	WYOMING.

### *In Foreign Countries.*

CANADA.	EGYPT.	KOREA.
BAHAMA ISLANDS.	GERMANY.	PHILIPPINE ISLANDS.
CHINA.	ITALY.	SWITZERLAND.

These explorations are sustained very largely through the gifts of special funds. Altogether, during the past three years, \$134,915.37 has been subscribed for these special purposes and for the mounting of specimens brought to the Museum.

### MINERALS.

DEPARTMENT OF MINERALOGY AND CONCHOLOGY.—Mr. J. Pierpont Morgan has again evidenced his interest in the development of the Gem Collection by his gift of a particularly fine example of crystallized gold, also of a jade boulder said to be the largest piece known.

Several important additions have been made to the general mineral collections through the aid of the Bruce Fund, as noted in the accession list.

Progress has been made in cataloguing the Bement Collection and this work is about half finished.

### LIVING MAMMALS AND BIRDS.

DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY.—Practically all the mammal collections have been catalogued, and similar work on the bird collections is well advanced.

The accessions for the year were 824 mammals and 2,445 birds and included a number of very important additions.

Through the generosity of Mr. George S. Bowdoin, the Museum secured the two fine examples of the North Atlantic Right Whale, which were captured on the south shore of Long Island. A complete set of whalebone was taken with one of the whales, and it is the intention to mount this specimen with the whalebone in place. The Cetacea Collection has been further enriched by a number of scale models of various species of whales, executed by Mr. James L. Clark.

Mr. Roy C. Andrews has been transferred to this department and is making excellent progress with the work. He superintended the construction of the life-size model of the Sulphurbottom Whale and also had charge of the preparation of the Amagansett whales.

The collection made by Messrs. Richard Tjäder and Herbert Lang in British East Africa, and presented in part by Mr. Samuel Thorne, comprises 178 mammals and 232 birds and includes large series of many species of antelopes and monkeys and fine specimens of such large mammals as the giraffe, rhinoceros, wart-hog, lion, etc.

Another noteworthy addition was three specimens of the very rare *Solenodon paradoxus*, secured through the personal contribution of Mr. Morris K. Jesup.

The mammals recently collected by Commander Peary in the Arctic have been presented to the Museum by the Peary Arctic Club. This collection contains a large series of musk-oxen and of the Peary White Caribou, the latter now for the first time represented by complete specimens.

As usual a number of valuable animals has been received from the New York Zoölogical Society and from the Central Park Menagerie, and we gratefully acknowledge the many courtesies thus extended.

Besides supervising the routine work of the department, the Curator has edited the *Bulletin*, which forms a volume of more than one thousand pages. He has also carried on his scientific studies and has published three papers.

Progress has been made in the preparation of habitat groups of North American birds, which have been provided by the contributors to the North American Ornithology Fund.

The following were contributors to this fund during the year.

John L. Cadwalader.	F. Aug. Schermerhorn.
H. B. Hollins.	Mrs. Harriet L. Schuyler.
Mrs. Morris K. Jesup.	Mrs. John B. Trevor.
Henry Clay Pierce.	Mrs. Robert Winthrop.

Three new habitat groups, namely, the Wild Turkey, Condor, and Egret or White Heron, have been finished and the work on several others is well advanced. To continue his field studies and to procure material for additional groups, Mr. Chapman made two expeditions during the year. In the spring he visited Florida in search of the ivory-billed woodpecker; the Bahamas, where he collected and studied the



man-of-war bird and the booby, and South Carolina, where he secured data and material for the White Heron Group, one of the most attractive yet constructed. The cruise among the Bahama Islands was made in the "Physalia," the boat of the Carnegie Laboratory at Dry Tortugas, in command of Dr. Alfred G. Mayer, who personally accompanied Mr. Chapman and facilitated his work in every way possible. In South Carolina the breeding haunts of the egrets were found on the private preserves of the Santee Club. Mr. Chapman was greatly assisted by the officers of the Club, especially by Mr. Ludwig A. Beckman, the Chief Warden, who placed conveyances, boats, etc., at his disposal and contributed much to the success of the expedition.

In this connection we wish to acknowledge the many courtesies extended to the Museum party both by the Carnegie Institution and the Santee Club.

During the summer months Mr. Chapman, accompanied by Louis Agassiz Fuertes as artist, went to Saskatchewan to study the nesting habits of the wild goose, and later the Canadian Rockies were visited, where specimens were collected and studies made for the Ptarmigan Group.

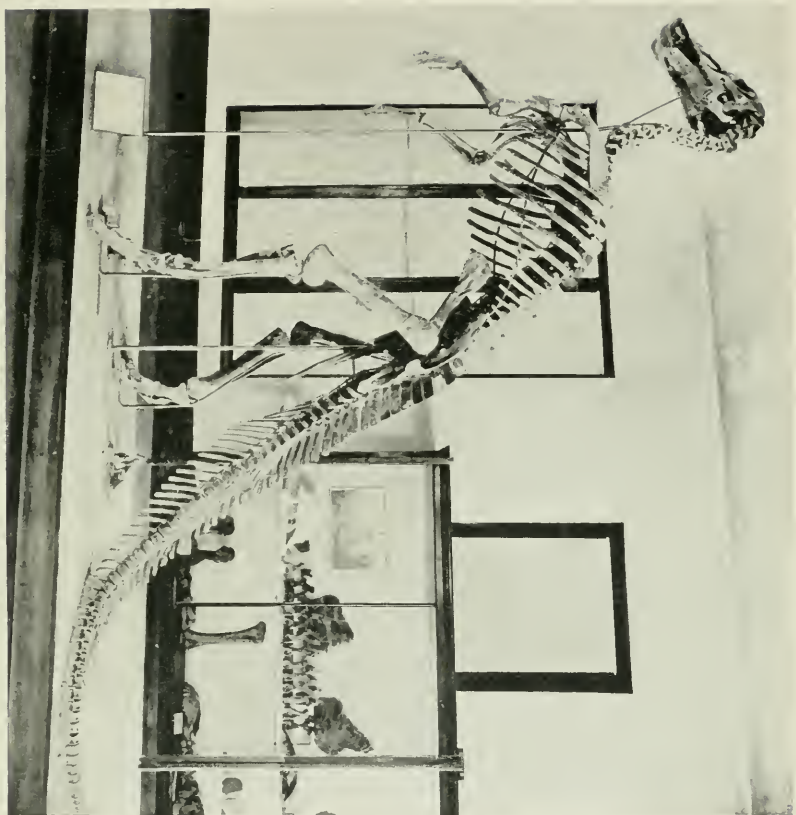
#### LIVING REPTILES AND FISHES.

The Assistant Curator, Mr. Roy W. Miner, has devoted much attention to the development of the fish collections. The corridor forming the approach to the laboratories in the North Wing has been assigned to the department, and here the fishes have been installed. The exhibition collection comprises mounted specimens, casts and colored plates of the various families of fishes, which are accompanied by full descriptive labels and form a good nucleus for an adequate representation of this group of interesting and useful animals.

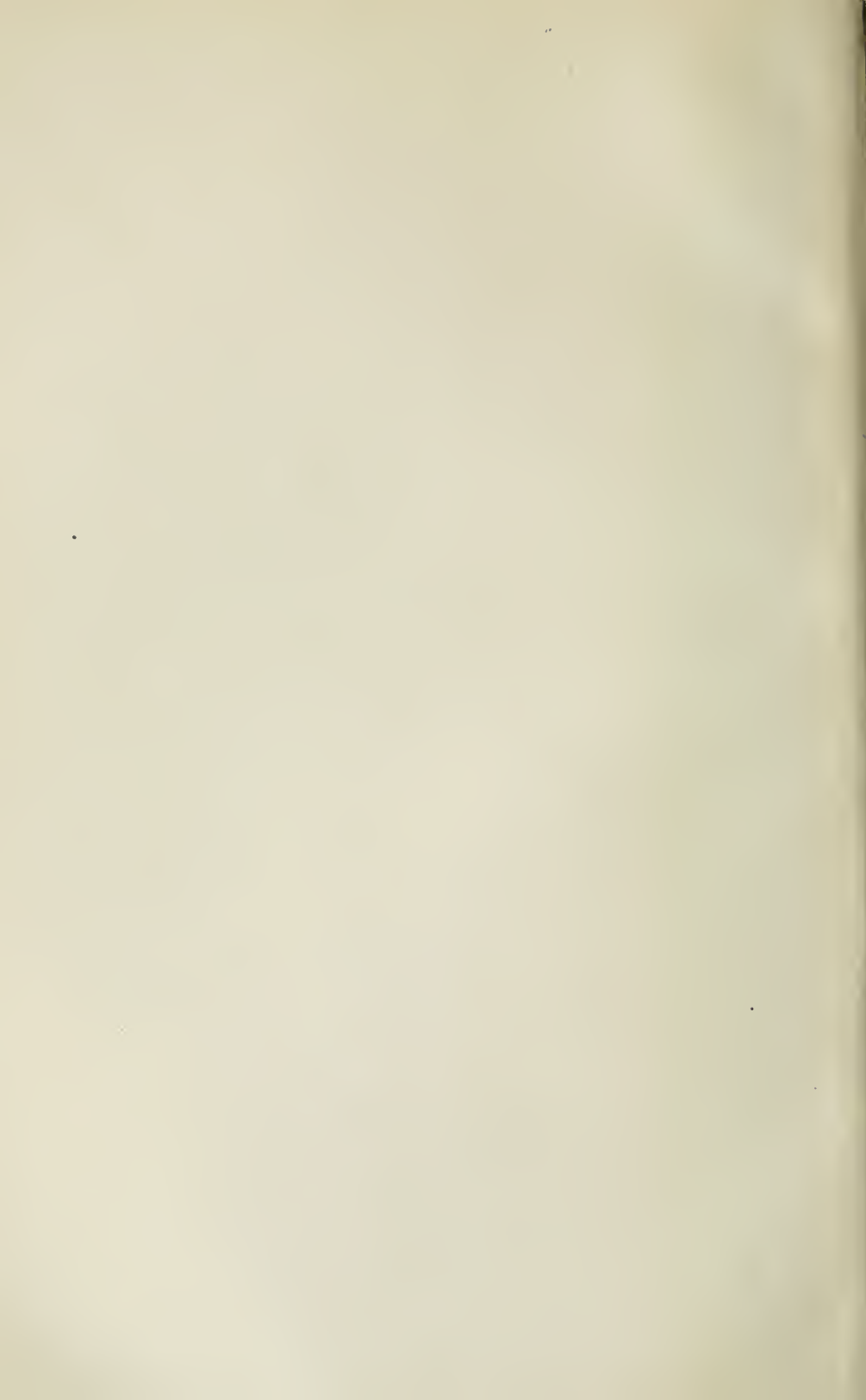
#### EXTINCT MAMMALS, BIRDS, REPTILES AND FISHES.

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.—In preparation for the visit of the International Congress of Zoölogists, in the month of August, many of the collections of





TRACHODON. The Gigantic Duck-billed Dinosaur of Cretaceous Time



mammals and reptiles were rearranged and several new specimens were placed on exhibition, also a new system of labeling was introduced, thereby making the collections more intelligible both from an educational and scientific point of view. The entire collections of extinct vertebrates in this department contain about 20,000 specimens. Among the most important additions to the exhibition series were the skeletons of the Carnivorous Dinosaur *Allosaurus*, and of the Duck-billed Dinosaur *Trachodon*, both specimens of which are from the Cope Collection presented by Mr. Morris K. Jesup. In mounting these skeletons an attempt has been made to represent characteristic features of the life-history and environment of these extinct monsters, so far as they are positively known. Thus the *Allosaurus* is mounted in the attitude of devouring the carcass of *Brontosaurus*. One *Trachodon* skeleton has been mounted representing the characteristic attitude of the animal when feeding; a second, nearly ready for exhibition, represents the animal looking out for danger. These two skeletons will be combined on a base made to illustrate the plants, shells, etc., among which these beasts lived.

The Warren Mastodon, presented by Mr. J. Pierpont Morgan, has been remounted and attracts much attention. Among other specimens which have been prepared and added to the collections may be mentioned the skull and jaws of *Tyrannosaurus*, a portion of a skeleton of *Naosaurus*, or the Ship-Lizard, part of a skeleton of *Camarasaurus*, the Shawan-gunk Mastodon skull and the skeleton of the Arab horse "Nimr."

Through the generosity of Mr. Morris K. Jesup, an expedition was sent into the Fayûm desert of northern Egypt under the leadership of Curator Osborn, who was accompanied by Messrs. Granger and Olsen of the department staff, to search for the fossil remains of the ancestors of the elephant. This resulted in the discovery of a number of animals previously unknown to science. In all more than 500 specimens were secured, of which the skulls, jaws, palates, etc., of *Meritherium* and *Palæomastodon*, illustrating the early stages of the ancestry of the elephant, are most important. The collection

also contains incomplete skulls and parts of skeletons of the rare *Arsinoitherium*. Professor Osborn's work was greatly facilitated by the Egyptian Government, through Lord Cromer and Captain H. G. Lyons, Director of the Survey of Egypt, and the courtesies extended are gratefully acknowledged.

During the summer Mr. L. S. Quackenbush was sent to Alaska to search for mammoth remains. He collected considerable material and secured data of importance in carrying out future work in this region. This expedition was made possible through the generosity of Mr. Percy R. Pyne and Mr. J. Pierpont Morgan, Jr.

The third expedition was to the fossil beds of South Dakota and Wyoming, in charge of Mr. Albert Thomson, and was aided through subscriptions of Mr. Frank K. Sturgis and Mr. Arthur Curtiss James. An interesting collection was obtained.

Noteworthy acquisitions, through gift and purchase, are a remarkably fine skeleton of an *Ichthyosaurus*, with the fins and tail well preserved and showing the outlines of the body, and a skeleton of *Hesperornis*, one of the toothed birds of the Cretaceous Period. A fossil horse from the Lower Miocene has been presented by Mr. Frank K. Sturgis.

In addition to the unusual amount of work put into the exhibition hall, the Curator and his staff have devoted considerable time to research.

#### EXTINCT FISHES.

Under the administration of Professor Bashford Dean, assisted by Dr. Louis Hussakof, this collection is rapidly growing in scientific importance and is attracting increasing public interest.

Through the aid of a fund subscribed annually by Mr. Cleveland H. Dodge, it has been possible to make a number of additions to the collections and to carry on field work.

The exhibition collection of fossil fishes has been rearranged and new material added, including colored casts representing

typical forms and examples of extant species. The most notable specimen mounted was the *Titanichthys*, the veritable monster of the Devonian Age. Important work has been accomplished in classifying, labeling, arranging and cataloguing the study collections, in which there are no less than 200 types and 300 figured specimens. An illustrated catalogue of the collection of type specimens has been prepared.

#### LIVING INVERTEBRATES—SYNOPTIC COLLECTION.

DEPARTMENT OF INVERTEBRATE ZOÖLOGY.—So many collections are placed in the custody of this department that the mere routine work of cataloguing and preserving the new material has taken considerable of the time of the Curator and his assistants; nevertheless, several important installations have been made.

The collections in the Synoptic Hall are being developed. The most important addition is a series of models showing the larval, pupal and adult stages (both male and female) of the Malarial Mosquito. The models, which have been prepared by Dr. B. E. Dahlgren, represent the insect enlarged 75 diameters or more than 400,000 times its normal bulk. These are further supplemented by a series of twenty models showing the malarial organism and its development in the human blood and in the tissues of the mosquito.

Dr. Dahlgren also has completed, or has in preparation, a number of models which will greatly improve the synoptic collection.

Dr. Wheeler spent the summer abroad, where he continued his studies of the Formicidæ, did collecting and effected many exchanges. He visited the Azores, Gibraltar, Italy and various parts of Switzerland and Germany. From all these localities he obtained important collections of ants. While in Switzerland he was the guest of Professor Auguste Forel, the most eminent of living myrmecologists, who presented to the Museum a large and valuable collection of ants, consisting of 3,519 specimens and representing 1,385 species, of which 788 are types.

A large number of fossil ants has been collected by Professor T. D. A. Cockerell at Boulder, Colorado.

The Curator has published six papers during the year and other experts have published eight papers based on material in our collections, making a total of fourteen contributions which have been issued by the department during the year.

### LIVING MOLLUSCAN SHELLS.

DEPARTMENT OF MINERALOGY AND CONCHOLOGY.—Attention has been given to cataloguing the shell collections. Doubleday, Page & Company, through their representatives, have made extensive use of these collections for study and illustration, the data secured to be used in their forthcoming book on shells.

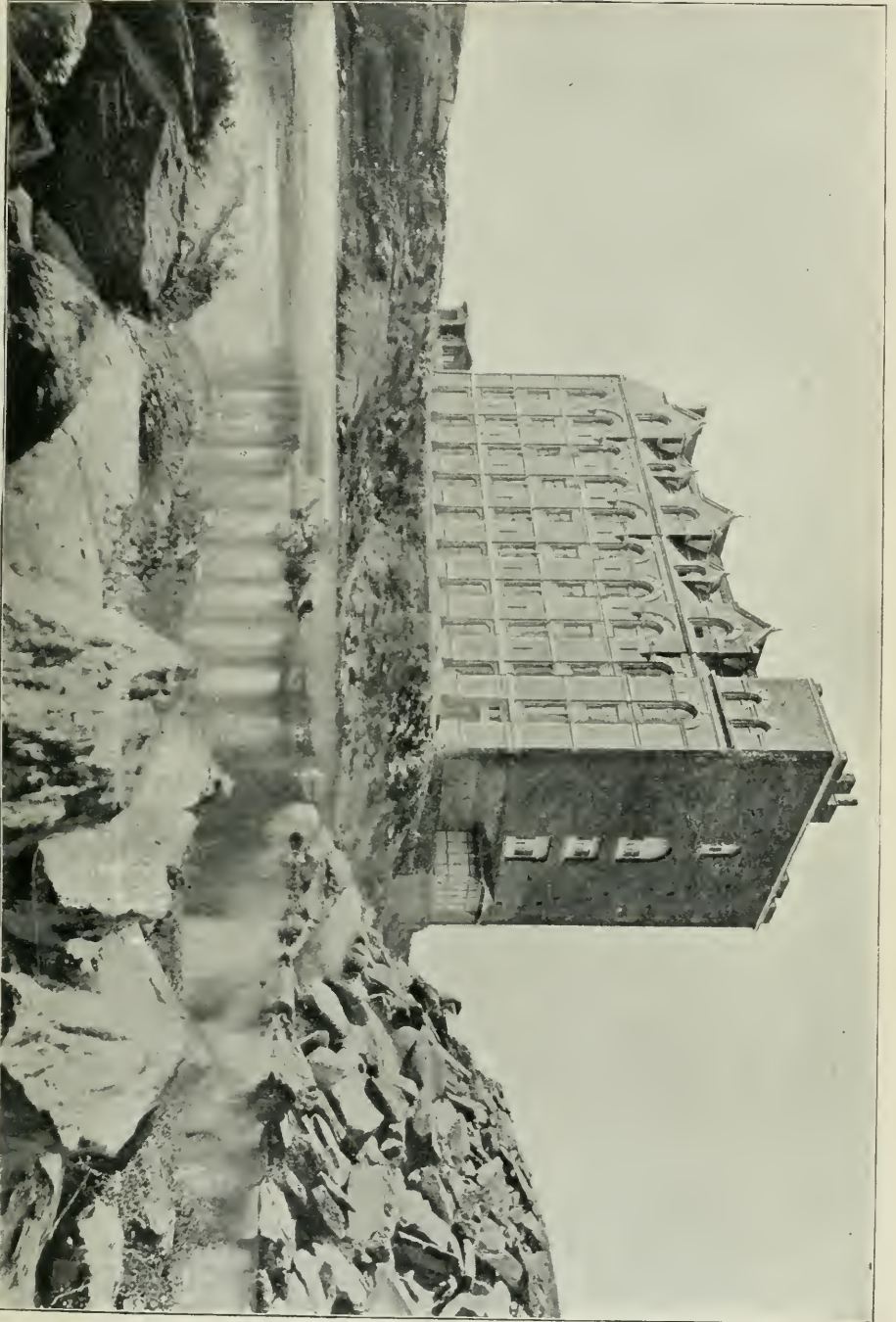
### INSECTS.

DEPARTMENT OF ENTOMOLOGY.—The mere mounting and labeling of the new material received in this department has consumed considerable time. In all 9,225 specimens have been treated in this way. In addition 3,500 specimens have been numbered and catalogued. The material collected by the Curator in the Black Mountains of North Carolina, during 1906, has been assorted and a large portion of it identified. Certain of the exhibition collections have been rearranged, and all have been thoroughly cleaned. An observation hive, containing a swarm of Carnolinian bees, has attracted much attention in the exhibition hall.

The most noteworthy acquisition was an extremely valuable collection of Central American beetles, comprising more than 4,000 specimens and representing 1,679 species, presented to the Museum by Dr. F. D. Godman, the well-known scientist and editor of *Biologia Centrali-Americana*. The collection is of unusual importance, as it is part of the material upon which these publications are based.

Twelve papers, relating to the insects in our collection, have been published by the Curator or other entomologists.





The Museum. North Transept. The first portion of the Museum and a part of Manhattan Square as they appeared in 1877-1889





## EXTINCT INVERTEBRATES.

DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALÆONTOLOGY.—The Curator and his assistant have continued the cataloguing and labeling of the extensive collection of invertebrate fossils. Also certain of the exhibition collections have been thoroughly cleaned and improved.

Among the acquisitions should be mentioned a collection of fossils from Grant Land, presented by Messrs. C. A. Wardwell and Charles Percy, both members of the recent Peary Expedition. Mr. Walter Granger and Mr. Barnum Brown also have made valuable contributions to the department.

The Curator has prepared three articles which are appearing in the *Bulletin*.

The principal portion of the time of Dr. Hovey, the Associate Curator, has been devoted to the preparation and editing of the *American Museum Journal* and of the Museum series of Guide Leaflets. This journal has been issued monthly from October to May, instead of quarterly, as formerly, and the Guide Leaflets are now issued independent of it. Dr. Hovey has also assisted in the Members' lectures, the holiday lectures and the children's courses. He has prepared and published one article in the *Bulletin* and a Guide Leaflet to the meteorite collection in the foyer.

## LIVING AND EXTINCT RACES OF MEN.

DEPARTMENT OF ETHNOLOGY.—The collections in this department have been greatly enriched through the addition of new material of great scientific value and of much general interest. Early in the year the Director opened negotiations with the authorities of the Congo Free State, and arrangements were made whereby the Belgian Government is to present to the Museum extensive ethnological collections illustrating the customs, culture and development of the natives of the Congo. Three shipments, containing more than 2,000 specimens, have already been received.

A unique collection of tattooed heads of the Maori, the natives of New Zealand—a collection of great scientific

interest and importance — was presented by Mr. Morris K. Jesup.

By gift also of Mr. Jesup the department received a remarkably fine collection of feather-work from Rio Negro in South America.

It is through the generosity of Messrs. Percy R. Pyne, Cleveland H. Dodge and Arthur Curtiss James that the Museum has secured a large ethnological collection made by Mr. Richard Douglas in Barotseland, South Africa. This collection consists of about 5,000 specimens illustrating the basketry, weaving, pottery, musical instruments, weapons, etc., of the natives. This gift is especially acceptable, as our collections heretofore have been deficient in African material.

Under the direction of Mr. Harlan I. Smith, a number of changes were made in the archæological collections and several loan exhibits were prepared for use in the children's rooms of the public libraries.

In June Miss M. L. Kissel was appointed to take up the investigation and care of the basketry collection now in the Museum. She has examined and determined the technique of a large part of the collection and, in connection with this work, has visited museums in Chicago, Washington and Philadelphia. The results of her investigations will be published later.

During the absence of the Curator much of the administrative work has devolved upon Mr. Charles W. Mead. In this capacity he has rendered efficient service and has prepared several articles for the *Museum Journal*.

Several lines of field work were started during the summer. From June to August Mr. Smith explored the southern part of Wyoming, which, from an archæological point of view, is an entirely new field. Mr. Smith secured specimens and important data which will form the basis of a paper on the archæology of Wyoming. Dr. R. H. Lowie spent the months of July to October among the Northern Plains Indians. He visited the Blackfoot Reservation at Gleichen, Alberta, the "Stoney" Assiniboine at Morley, the Cree Reservation at Hobbema and the Crow Reservation in Montana. Dr. Lowie procured many specimens and much data on the social and

ceremonial organization, religious observances and general culture of these Indians. This information and the collections will furnish material for three scientific papers upon the Indians of the Northern Plains. Many of the gaps in the local archæological collections have been filled through the work of Mr. Alanson Skinner, who has explored a number of village sites on Staten Island, in New Jersey and in the western part of New York State.

Besides the members of the staff who have been engaged in field work, several investigators in various parts of the world have been contributing to the department. Dr. C. C. Vinton has continued to collect information and specimens in Korea for the Museum. Dr. J. R. Walker is progressing with his work among the Dakota. Captain George Comer is now in the Arctic with a commission to collect specimens and notes, as in former years, and Professor Howard Richards is making collections in China.

In the spring Professor Marshall H. Saville retired as Curator of Mexican Archæology and the custody of the Mexican collection was transferred to this department. Professor Saville accepted an appointment as Honorary Curator of Archæology and has rendered valuable assistance to the Curator in many ways.

From May to October Mr. George H. Pepper was given leave of absence to take up some work in South America under the direction of Mr. George G. Heye. Since his return he has continued his study of the Pueblo Bonito and has made considerable progress with his manuscript.

One memoir, three *Bulletin* articles and three numbers of the first volume of the Anthropological Papers, making a total, exclusive of plates, of about 750 pages, have been published under the direction of this department.

Under the special fund established by Mr. Jesup, the publication of the investigations of the Jesup North Pacific Expedition has been continued, the following parts having been completed during the year:

Vol. II, Part VI. "Archæology of the Gulf of Georgia and Puget Sound." By Harlan I. Smith.

Vol. VII, Part II. "The Chukchee: Religion." By W. Bogoras.

## DEPARTMENT OF PHYSIOLOGY.

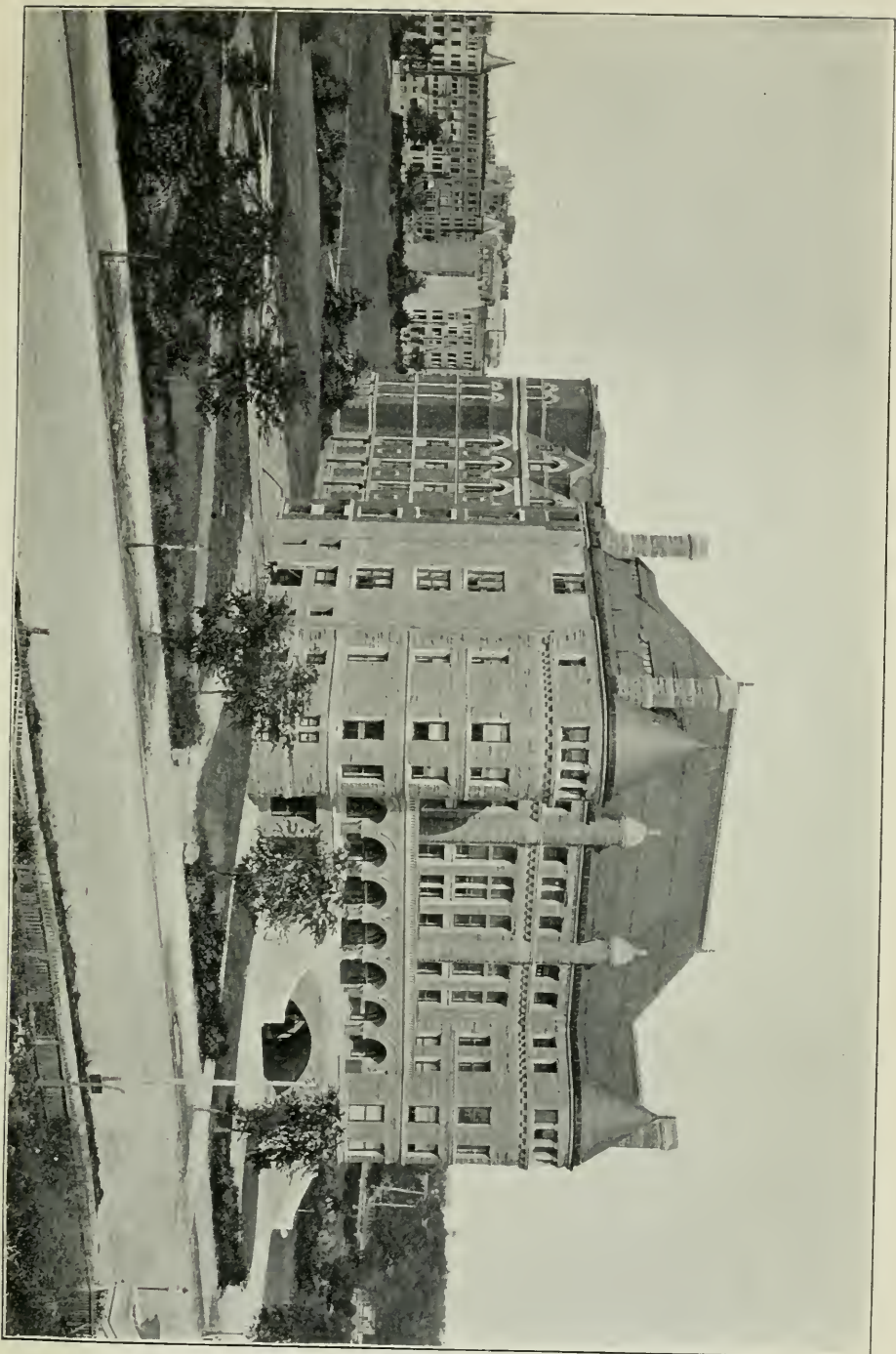
The handling of the animals received in the flesh and the preparation of skeletons have formed the chief work of this department during the year. By the digestion method, 78 skeletons, 64 skulls and 21 sternums have been cleaned and added to the study collections. Among these are included the skeletons of the two North Atlantic Right Whales caught at Amagansett, Long Island. Two hundred and forty-six specimens have been received in the flesh.

## JESUP COLLECTION OF NORTH AMERICAN WOODS.

Early in the year Mr. A. C. Burrill was appointed an assistant and has given his attention to the Jesup Collection of North American Woods. The storage specimens have been overhauled, classified and made available for reference or use. The catalogue of the entire collection has been revised and all data regarding it has been assembled. In all there are 3,092 specimens, of which 505 are on exhibition. The exhibition collection has been improved by regrouping the specimens and by adding many artificial sprays of fruits and flowers. A number of colored transparencies has greatly increased the general attractiveness of the hall.

## LIBRARY.

DEPARTMENT OF BOOKS AND PUBLICATIONS. — As the Museum extends the scope of its scientific work and its explorations, the importance of a well-equipped library will be readily understood. It has been the aim of Professor Tower, the Curator, to build up an exhaustive library of natural history, rather than a large general library. The success of his efforts is attested by the increasing number of students and investigators who visit the Museum to consult our books and publications. While there still remain many gaps in the series of periodicals and volumes needed, excellent progress has been made in procuring such works. Several valuable and important acquisitions have been secured through



The Museum. Central Section of the South Façade, 1889-1893





correspondence and exchange. Among these may be mentioned a complete file of the publications of the Vienna Academy of Sciences, of the Deutsche Entomologische Gesellschaft and of the Berlin Entomologische Verein.

Arrangements have been made whereby the New York Microscopical Society makes its headquarters at the Museum, and the Society has permanently deposited its library with the Museum. This library contains many important publications which were wanting in our files.

All gifts and exchanges have been duly acknowledged. The department has received during the year 1,931 volumes and 723 pamphlets, making the working library at the close of 1907 number 36,597 books and 18,455 pamphlets.

The reference catalogue has been increased by the intercalation of 15,250 cards received from the *Concilium Bibliographicum*, and a like number has been distributed to the series on deposit.

#### PUBLICATIONS.

During the past year the sum of \$13,627.63 was devoted to publication. The edition of the *Memoirs*, and also of the *Bulletin*, was 600. Of these publications, one hundred copies each were sent to the great scientific centers of the world, and one hundred were mailed to specialists at the request of authors. The remainder has been reserved for exchanges and sales and to complete sets of the Museum publications.

Following is a list of the scientific publications of the Museum issued in 1907, as received by the Curator for distribution:

##### DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALÆONTOLOGY.

###### *Bulletin*, Volume XXIII.

Edmund Otis Hovey. "A Geological Reconnaissance in the Western Sierra Madre of the State of Chihuahua, Mexico." (Pages 401-442, plates xviii-xxxv, with 13 text figures and 1 map.)

R. P. Whitfield. "Notice of an American Species of the Genus *Hoploparia* McCoy, from the Cretaceous of Montana." (Pages 459-462, plate xxxvi.)

R. P. Whitfield. "Remarks on and Descriptions of New Fossil Unionidæ from the Laramie Clays of Montana." (Pages 623-628, plates xxxviii-xlii.)

## DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY.

*Bulletin*, Volume XXIII.

J. A. Allen. "The Types of the North American Genera of Birds." (Pages 279-354.)

J. A. Allen. "The *Bæolophus bicolor-atricristatus* Group. (Pages 467-481.)

## DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.

*Bulletin*, Volume XXIII.

Barnum Brown. "The Hell Creek Beds of the Upper Cretaceous of Montana." (Pages 823-845, with 8 text figures.)

E. C. Case. "Description of the Skull of *Bolosaurus striatus* Cope." (Pages 653-658, plate xlvi, with 5 text figures.)

E. C. Case. "The Character of the Wichita and Clear Fork Divisions of the Permian Red Beds of Texas." (Pages 659-664, with 2 text figures.)

E. C. Case. "Additional Description of the Genus *Zatrachys* Cope." (Pages 665-668, with 6 text figures.)

Earl Douglass. "New Merycoidodonts from the Miocene of Montana." (Pages 809-822, with 9 text figures.)

James Williams Gidley. "Revision of the Miocene and Pliocene Equidæ of North America." (Pages 865-934.)

Oiver P. Hay. "Descriptions of Seven New Species of Turtles from the Tertiary of the United States." (Pages 847-863, plate liv, with 20 text figures.)

L. Hussakof. "*Zebrasoma deani*, a Fossil Surgeon-fish from the West Indies." (Pages 125 and 126, plate vii.)

W. D. Matthew. "A Lower Miocene Fauna from South Dakota." (Pages 169-219, with 26 text figures.)

H. F. Osborn. "Tertiary Mammal Horizons of North America." (Pages 237-253, with 3 text figures.)

H. F. Osborn. "A Mounted Skeleton of the Columbian Mammoth (*Elephas columbi*)." (Pages 255-257, with 1 text figure.)

H. F. Osborn. "Points of the Skeleton of the Arab Horse." (Pages 259-263, with 3 text figures.)

H. F. Osborn. "A Mounted Skeleton of *Naosaurus*, a Pelycosaur from the Permian of Texas." (Pages 265-270, plates ix and x, with 3 text figures.)

## DEPARTMENT OF INVERTEBRATE ZOOLOGY.

*Bulletin*, Volume XXIII.

T. D. A. Cockerell. "An Enumeration of the Localities in the Florissant Basin, from which Fossils were obtained in 1906." (Pages 127-132, with 2 text figures.)

T. D. A. Cockerell. "Fossil Dragonflies from Florissant, Colorado." (Pages 133-139, with 3 text figures.)

T. D. A. Cockerell. "On a Collection of Australian and Asiatic Bees." (Pages 221-236.)



T. D. A. Cockerell. "Some Fossil Arthropods from Florissant, Colorado." (Pages 605-616, with 6 text figures.)

T. D. A. Cockerell. "Some Coleoptera and Arachnida from Florissant, Colorado." (Pages 617-621.)

Newton Miller. "The Fishes of the Motagua River, Guatemala." (Pages 95-123, with 6 text figures.)

James G. Needham. "Supplemental Descriptions of Two New Genera of *Æschninae*." (Pages 141-144, with 3 text figures.)

Alexander G. Ruthven. "A Collection of Reptiles and Amphibians from Southern New Mexico and Arizona." (Pages 483-603, with 22 text figures.)

William Morton Wheeler. "The Polymorphism of Ants, with an Account of Some Singular Abnormalities Due to Parasitism." (Pages 1-93, plates i-vi.)

William Morton Wheeler. "A Collection of Ants from British Honduras." (Pages 271-277, plates xi and xii.)

William Morton Wheeler. "The Fungus-growing Ants of North America." (Pages 669-807, plates xlix-liii, with 31 text figures.)

DEPARTMENT OF ENTOMOLOGY.

*Bulletin*, Volume XXIII.

William Beutenmüller. "Notes on and Descriptions of New Forms of *Catocala*." (Pages 145-151.)

William Beutenmüller. "New Species of Gall-producing *Cecidomyiidae*." (Pages 385-400, plates xiii-xvii.)

William Beutenmüller. "Notes on a few North American *Cynipidae*, with Descriptions of New Species." (Pages 463-466, plate xxxvii.)

William Beutenmüller. "The North American Species of *Rhodites* and their Galls." (Pages 629-651, plates xliii-xlvii, with 4 text figures.)

William Beutenmüller. "New Forms of *Catocala*." (Pages 935-940.)

W. D. Kearfott. "Microlepidoptera from the Black Mountain Region of North Carolina, with Descriptions of New Species." (Pages 153-167, plate viii.)

James A. G. Rehn. "Records and Descriptions of Australian Orthoptera." (Pages 443-457, with 11 text figures.)

*The American Museum Journal*, Volume VII, published in eight numbers, with the following Guide Leaflets:

Edmund O. Hovey. "The Meteorites in the Foyer of The American Museum of Natural History." (Leaflet No. 26, December, pages 1-10, with 16 text figures.)

Charles W. Mead. "Peruvian Mummies." (Leaflet No. 24, pages 1-24, with 10 text figures.)

"Pioneers of American Science. An Account of the Exercises Held, and the Addresses Delivered, at The American Museum of Natural History, December 29, 1906." (Leaflet No. 25, pages 1-26, with 11 text figures.)

The summary of the acquisitions of maps and charts for the year is as follows:

By Donation.....	Atlases	0.....	Maps	38
" Exchange.....	"	4.....	"	142
" Purchase.....	"	0.....	"	1

**III. MEMBERSHIP.**

The interest and support accorded to the work of the Museum by its Members have been most gratifying. Receipts from membership are used to enrich the collections and to extend the educational work of the institution, and it is hoped that this source of income may be greatly increased.

The names of 209 new members have been enrolled, but as the loss through death and resignation totals 123, the net gain is 86. On January 1, 1908, there were 2,124 Members, divided into classes as follows: Patrons, 100; Fellows, 39; Life Members, 353; Annual Members, 1,632.

**NEW MEMBERS.**

The following persons were elected Patrons:

PROF. AUGUSTE FOREL,	GEORGE B. McCLELLAN,
JAMES R. KEENE,	HERMAN A. METZ,
COM. C. A. M. LIEBRECHTS,	SAMUEL THORNE.

MRS. ROBERT WINTHROP was elected a Fellow.

The following persons were elected Life Members:

MISS FLORENCE AUDUBON,	DR. ALEX. C. HUMPHREYS,
MISS MARIA R. AUDUBON,	MARY SUTTON MACY, M.D.
JOHN BIGELOW,	E. P. MATHEWSON,
T. W. BLAKE,	J. F. FREIRE MURTA,
CORNELIUS N. BLISS, JR.,	JOHN TREADWELL NICHOLS,
EDWARD C. BOHDE,	HENRY J. ROBINSON,
B. H. BUXTON,	F. L. ST. JOHN,
JAMES A. CHURCH,	MORTIMER M. SINGER,
HENRI DECKERT DE LA	*SAMUEL SLOAN,
MEILLAIE,	CHARLES E. SLOCUM,
MRS. HENRY DRAPER,	M.D., LL.D.,
E. H. GARY,	FRANK K. STURGIS,
WILLIAM D. GUTHRIE,	COL. JOHN WEIR.

\* Deceased.

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DECEASED TRUSTEES, BENEFACTORS AND  
MEMBERS.

In addition to the loss sustained by the Museum through the decease of Mr. Jesup, the institution has suffered a serious loss in the death, on December 4, 1907, of MR. HENRY O. HAVEMEYER, a member of the Board of Trustees since the year 1898. In appreciation of the interest of Mr. Havemeyer in the Museum, the Trustees adopted the following minute at their Annual Meeting, February 10, 1908:

Through the death of Mr. H. O. Havemeyer, The American Museum of Natural History has lost a warm friend and able supporter.

Mr. Havemeyer was elected a Trustee the ninth of May, 1898. He took an active interest in the development of the Museum, always expressed himself as desirous of taking his share in its many scientific enterprises and from the time of his election contributed generously.

In 1903 he was one of five trustees who presented to the Museum the Pampean Collection of Professor Edward D. Cope; and in 1904 he was a generous contributor to the Permanent Endowment Fund.

The Trustees of The American Museum of Natural History, at this their annual meeting, desire to make permanent record of these signs of Mr. Havemeyer's public spirit, to express their sense of loss and to extend to the members of his family their most sincere sympathy.

Through the death of MR. D. WILLIS JAMES on September 13, 1907, the Museum has lost another of its most liberal benefactors and friends. Mr. James was a generous supporter of the work of the institution, and served on the Board of Trustees from February 11, 1889, to January 16, 1903, when he felt obliged to resign.

We regret to announce the death of the following Members during the year 1907:

*Fellows.*

CHARLES T. BARNEY,                      SAMUEL N. HOYT.

*Life Members.*

GEN. J. WATTS DE PEYSTER,	TRENOR L. PARK,
NORMAN W. DODGE,	GEORGE C. RAND,
AMBROSE K. ELY,	JAMES O. SHELDON,
MRS. W. A. HAINES,	GARDINER SHERMAN,
EDWARD LUCKEMEYER,	SAMUEL SLOAN,
ALEXANDER MAITLAND,	A. B. TOWNSEND,
JAMES MORRIS,	MRS. JOSEPH M. WHITE.

#### IV. FINANCIAL ADMINISTRATION.

FINANCES.—As has been customary for several years the financial transactions have been carried in three separate accounts, designated as the City Maintenance Account, contributed by the City, and two accounts contributed by or through the Trustees, Members and friends of the Museum, namely, the General Account and the Special Funds Account (formerly called the Endowment and Investment Account). The details of the receipts and disbursements, thus classified, will be found in the Treasurer's Report, pages 49 to 57 inclusive. All books and vouchers of these accounts have been duly examined and certified by the Audit Company of New York. A few statements may help in making the details of this report clear.

CITY MAINTENANCE ACCOUNT.—For the maintenance of the Museum the City has appropriated \$160,000, a sum \$10,000 less than the appropriation for 1906. The opening of the Museum free to the public on every day of the week; the care of new exhibition halls, and the extension of the



THE MUSEUM. South Façade. Exterior completed in 1899





educational work with the public schools have so increased the cost of maintenance that the reduced contribution of the City has been insufficient to meet the running expenses. On this account there has been the large deficit of \$26,828.52, which has been met by contributions of the Trustees. This diversion of the gifts of Trustees and of endowment funds to maintenance purposes is a direct loss to the City and to the public because it retards the growth of the collections and the enrichment of the exhibition halls.

TRUSTEES GENERAL ACCOUNT.—The chief items of income of the General Account have been the interest on the Permanent Endowment, \$48,317.50; receipts from Life Membership, \$1,900, and receipts from Annual Membership, \$15,300, the total net receipts having been \$83,244.27.

Inasmuch as the money from the City cannot be used for the purchase of specimens, for publications or for exploring expeditions, the funds of the General Account have to be applied to these purposes. It will be seen, therefore, that for the normal growth of the institution a large increase of the General Fund is urgently needed.

TRUSTEES SPECIAL FUNDS ACCOUNT.—In former reports this account has been designated as the "Endowment and Investment Account," but the name has been changed to "Special Funds Account," as it consists wholly of funds contributed for *special purposes*. Not infrequently friends of the Museum become interested in some particular kind of work, for instance, the bird groups, exploring for fossils, etc., and desire their contributions to be applied to specific purposes. In such cases, the funds provided are deposited in the Special Funds Account and disbursements are made therefrom in accordance with the wishes of the contributors.

The subscriptions for special purposes have been very generous, amounting to \$66,488.63 for the year. Had it not been for this substantial support by friends of the Museum, it would have been necessary to abandon important field



explorations and to lose rare collections of much scientific and popular interest which probably never would have been secured for New York.

TRUSTEES PERMANENT ENDOWMENT.—Two important additions have been made to the Permanent Endowment during the year: from Mrs. John B. Trevor, who has long been a generous supporter of the Museum's work, was received \$10,000, making the total of the John B. Trevor Fund \$25,000; by the bequest of Benjamin P. Davis (a Member of the Museum for nine years), \$25,000 was added to the endowment, payment being made in stocks and cash. These substantial contributions increase the par value of the Permanent Endowment to \$1,047,750, the interest on which, \$48,317.50, constitutes the chief source of income of the General Account.

It is on this income that the Museum is largely dependent for its development, and the increase of the Permanent Endowment is imperative if the Museum is to retain the position that it now holds among scientific institutions both in this country and abroad.

Very respectfully yours,

HENRY FAIRFIELD OSBORN, *President.*

April, 1908.

# FINANCIAL STATEMENT

1907

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## *PERMANENT ENDOWMENT.\**

General Fund.....	\$996,750 00
John B. Trevor Fund.....	25,000 00
Josiah M. Fiske Fund.....	10,000 00
Matilda W. Bruce Fund.....	11,000 00
Solomon Loeb Fund.....	5,000 00
	<hr/>
	\$1,047,750 00
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\*The interest on the Permanent Endowment is the chief source of income of the General Account.

*CITY MAINTENANCE ACCOUNT.*

RECEIPTS.

Capital Fund, January 1, 1907.....	\$15,000 00
Department of Parks.....	\$160,000 00
Transfer from General Account to meet deficit.....	<u>26,828 52</u>
<b>Total receipts for the maintenance of all departments.....</b>	<b>186,828 52</b>
Interest on Credit Balances.....	140 65
Loans.....	6,050 00

	<u>\$208,019 17</u>
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Examined and Approved. { ANSON W. HARD,  
 GEORGE G. HAVEN,  
 GUSTAV E. KISSEL. } *Auditing Committee.*

*CITY MAINTENANCE ACCOUNT.\**

DISBURSEMENTS.

Geology and Invertebrate Palæontology.....	\$7,495 59
Mammalogy and Ornithology.....	8,143 15
Mineralogy and Conchology.....	2,559 90
Vertebrate Palæontology.....	14,802 67
Anthropology .....	12,493 47
Entomology.....	2,483 10
Invertebrate Zoölogy.....	7,698 24
Library.....	10,363 01
Physiology.....	2,794 44
Public Instruction.....	3,883 97
Preparation and Exhibition.....	14,680 58
General Supplies and Expenses.....	7,425 89
Heating and Lighting. ....	20,988 09
Repairs and Installation.....	17,738 15
Administration .....	53,278 27
<b>Total disbursements for the maintenance of all departments.....</b>	<b>\$186,828 52</b>
Interest on Credit Balances transferred to General Account.....	140 65
Loans.....	6,050 00
Cash on hand December 31, 1907.....	15,000 00
	<u>\$208,019 17</u>

CHARLES LANIER, *Treasurer.*

[E. & O. E.]

NEW YORK, *December 31, 1907.*

\*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.

GENERAL ACCOUNT.

RECEIPTS.

Cash on hand January 1, 1907.....		\$4,995 90
Petty Cash Fund Capital.....		1,200 00
Interest on Permanent Endowment.....	\$48,317 50	
Interest on Credit Balances.....	775 40	
Life Members:		
T. W. Blake.....	\$100 00	
John Bigelow.....	100 00	
Henri Deckert de la Meillaie.....	100 00	
E. H. Gary.....	100 00	
Henry J. Robinson.....	100 00	
James A. Church.....	100 00	
Cornelius N. Bliss, Jr.....	100 00	
Mrs. Henry Draper.....	100 00	
Dr. Alex. C. Humphreys.....	100 00	
Mary Sutton Macy, M.D.....	100 00	
B. H. Buxton.....	100 00	
Colonel John Weir.....	100 00	
Samuel Sloan.....	100 00	
Mortimer M. Singer.....	100 00	
F. L. St. John.....	100 00	
William D. Guthrie.....	100 00	
John T. Nichols.....	100 00	
Edward C. Bohde.....	100 00	
Charles E. Slocum, LL.D.....	100 00	
	<hr/>	1,900 00
Annual Members.....	15,300 00	
Henry F. Osborn, for support of the Department of Vertebrate Palæontology.....	2,000 00	
Admission Fees.....	113 00	
Sale of Specimens.....	1,391 54	
Sale of Publications.....	351 84	
Deficit:		
Contribution of Morris K. Jesup toward deficit.....	\$5,000 00	
Advance by Bank to carry deficit ...	8,094 99	
	<hr/>	13,094 99
Total receipts for the development of all departments.....		\$83,244 27
Patron: John B. Trevor.....		1,000 00
Reimbursements.....		6,539 79
Loan Account.....		5,000 00
		<hr/>
		\$101,979 06

Examined and Approved. { ANSON W. HARD,  
GEORGE G. HAVEN,  
GUSTAV E. KISSEL. } *Auditing  
Committee.*

GENERAL ACCOUNT.\*

DISBURSEMENTS.

Geology and Invertebrate Palæontology.....	\$836	17	
Mammalogy and Ornithology.....	9,847	59	
Mineralogy and Conchology.....	51	50	
Vertebrate Palæontology.....	9,502	52	
Anthropology.....	7,267	25	
Entomology.....	310	80	
Invertebrate Zoölogy.....	1,614	73	
Library.....	5,211	78	
Physiology.....	119	97	
Public Instruction.....	4,350	25	
Preparation and Exhibition.....	2,105	11	
Publications.....	13,627	63	
General Supplies and Expenses.....	8,757	89	
Interest on Loans... ..	348	25	
<b>Total disbursements for the development of all departments.....</b>			<b>\$63,951 44</b>
Transferred to City Maintenance Account to bal- ance deficit.....			26,828 52
Transferred to Special Funds Account :			
For Permanent Endowment.....	1,000	00	
For Tjäder Collection.....	4,000	00	
For Morris K. Jesup, Special Loan.....	5,000	00	10,000 00
Petty Cash Fund Capital :			
Cash on hand December 31, 1907.....			1,200 00
			<u>\$101,979 96</u>

CHARLES LANIER, *Treasurer.*

[E. & O. E.]  
NEW YORK, December 31, 1907.

\* 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 AMERICAN MUSEUM OF NATURAL HISTORY

SPECIAL FUNDS ACCOUNT.

RECEIPTS.

MAMMALOGY AND ORNITHOLOGY :

North American Ornithology Fund:			
Balance from 1906.....	\$38 16		
John L. Cadwalader.....	500 00		
H. B. Hollins.....	250 00		
Mrs. Morris K. Jesup.....	150 00		
Henry Clay Pierce.....	500 00		
F. Aug. Schermerhorn.....	500 00		
Mrs. Harriet L. Schuyler.....	250 00		
Mrs. John B. Trevor.....	100 00		
Mrs. Robert Winthrop.....	250 00	\$2,538 16	
Cetacea Fund:			
Balance from 1906.....	\$1,094 83		
George S. Bowdoin.....	3,000 00	4,094 83	
Mrs. Frank K. Sturgis Fund, balance.....		331 53	
Tjäder Collection:			
Samuel Thorne.....	\$6,000 00		
General Account.....	4,000 00	10,000 00	
Solenodon Fund: Morris K. Jesup.....		350 00	\$17,314 52

MINERALOGY:

Matilda W. Bruce Fund:			
Balance from 1906.....	\$133 60		
Interest.....	660 00	\$793 60	793 60

VERTEBRATE PALÆONTOLOGY:

Egyptian Expedition Fund:			
Balance from 1906.....	\$904 48		
Morris K. Jesup.....	1,188 60	2,093 08	
Sysonby Fund:			
Balance from 1906.....		1,930 84	
Morris K. Jesup Fund.....		1,472 28	
Diplodocus Fund.....		2,639 03	
Fossil Fish Exploration Fund:			
Cleveland H. Dodge.....		1,000 00	
Horse Exploration Fund:			
Arthur Curtiss James.....	\$500 00		
Frank K. Sturgis.....	250 00	750 00	
Alaskan Mammoth Exploration Fund:			
Percy R. Pyne.....	\$750 00		
J. Pierpont Morgan, Jr.....	750 00	1,500 00	11,385 23

ANTHOPOLOGY:

Hyde Exploration Fund: B. T. B. Hyde.....	\$1,200 00		
African Collections, balance.....		8 26	
Wm. Demuth Collection, balance.....		54 17	
Ethnological Research Fund, balance.....		47 55	
East Asiatic Fund, balance.....		3,901 75	
Berlin North American Fund, balance.....		123 50	
Morris K. Jesup Fund, balance.....		335 11	
Board of Missions Fund, balance.....		840 00	
Mural Decoration Fund: Arthur Curtiss James.....		3,000 00	
Carried forward.....	\$9,510 34	\$29,493 35	



*SPECIAL FUNDS ACCOUNT.*

DISBURSEMENTS.

MAMMALOGY AND ORNITHOLOGY:

North American Ornithology Fund.....	\$2,538 16	
Cetacea Fund.....	4,094 83	
Mrs. Frank K. Sturgis Fund.....	9 75	
Tjäder Collection.....	10,000 00	
Solenodon Fund.....	350 00	
	<u>          </u>	\$16,992 74

MINERALOGY:

Matilda W. Bruce Fund.....		759 35
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VERTEBRATE PALÆONTOLOGY:

Egyptian Expedition Fund.....	2,093 08	
Sysonby Fund.....	1,284 96	
Morris K. Jesup Fund.....	1,472 28	
Diplodocus Fund.....	2,639 03	
Fossil Fish Exploration Fund.....	370 66	
Horse Exploration Fund.....	750 00	
Alaskan Mammoth Exploration Fund.....	1,461 60	
	<u>          </u>	10,071 61

ANTHROPOLOGY:

Hyde Exploration Fund.....	\$1,200 00	
African Collections.....	8 26	
Wm. Demuth Fund.....	16 00	
Ethnological Research Fund.....	47 55	
East Asiatic Fund.....	227 25	
Berlin North American Fund.....	45 00	
Morris K. Jesup Fund.....	335 11	
Mural Decoration Fund.....	3,000 00	
South African Ethnological Fund.....	5,000 00	
Maori Collection.....	6,088 00	
Amazon Collections.....	3,000 00	
	<u>          </u>	18,967 17

ENTOMOLOGY:

Hoffman Entomological Fund.....		47 50
<i>Carried forward</i> .....		<u>          </u>
		\$46,838 37

*SPECIAL FUNDS ACCOUNT.*

RECEIPTS—*Continued.*

<i>Brought forward</i> .....	\$9,510 34	\$29,493 35
<b>ANTHROPOLOGY—Continued:</b>		
South African Ethnological Fund:		
Percy R. Pyne.....	\$2,500 00	
Cleveland H. Dodge.....	1,250 00	
Arthur Curtiss James.....	<u>1,250 00</u>	5,000 00
Maori Collection:		
Morris K. Jesup.....		6,088 00
Amazon Collections:		
Morris K. Jesup.....		3,000 00
Benin Ivories:		
Archer M. Huntington.....	<u>500 00</u>	24,098 34
<b>ENTOMOLOGY:</b>		
Hoffman Entomological Fund, balance.....		150 00
<b>FORESTRY:</b>		
Jesup Collection North American Forestry:		
Morris K. Jesup.....		500 00
<b>PUBLICATIONS:</b>		
Jesup North Pacific Expedition Publications:		
Balance from 1906.....	\$1,246 94	
Morris K. Jesup.....	<u>9,000 00</u>	10,246 94
<b>Total receipts for the development of specific departments</b>		<b>\$66,488 63</b>
<b>INVESTMENT FUND:</b>		
Balance from 1906.....	\$1,000 00	
Mrs. John B. Trevor.....	10,000 00	
*Bequest of Benjamin P. Davis.....	19,049 25	
General Account, John B. Trevor (Patronship).....	1,000 00	
Refund.....	<u>377 36</u>	31,426 61
MORRIS K. JESUP FUND, SPECIAL.....		5,000 00
MORRIS K. JESUP, SPECIAL LOAN.....		5,000 00
<b>INTEREST ON CREDIT BALANCES:</b>		
Earnings to December 31, 1907.....		634 75
		<u>\$108,549 99</u>

Examined and Approved. { ANSON W. HARD,  
                                  { GEORGE G. HAVEN, } *Auditing*  
                                  { GUSTAV E. KISSEL. } *Committee.*

\*The bequest of Benjamin P. Davis includes, in addition to this cash item, 50 shares of Capital Stock of the Pennsylvania Railroad Company, par value \$2,500.00, and 25 shares of Capital Stock of the American Surety Company, par value \$1,250.00.

*SPECIAL FUNDS ACCOUNT.\**

DISBURSEMENTS—*Continued.*

<i>Brought forward</i> .....	\$46,838 37
FORESTRY:	
Jesup Collection North American Forestry .....	1,783 27
PUBLICATIONS:	
Jesup North Pacific Expedition Publications .....	9,413 98
Total disbursements for the development of specific departments .....	<u>\$58,035 62</u>
INVESTMENT FUND:	
Permanent Endowment .....	31,020 00
MORRIS K. JESUP FUND, SPECIAL:	
General Account .....	5,000 00
Interest on Credit Balances, transferred to General Account .....	634 75
Cash on hand December 31, 1907 .....	\$13,859 62
<hr/>	
	<u>\$108,549 99</u>

[E. & O. E.]

CHARLES LANIER, *Treasurer.*

NEW YORK, *December 31, 1907.*

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\*In this account are carried all moneys given to the Museum for specific purposes and not intended for the endowment.

# LIST OF ACCESSIONS, 1907.

## DEPARTMENT OF PUBLIC INSTRUCTION.

### BY GIFT.

- WILLIAM H. BARTLETT, New Bedford, Mass.  
1 Photograph of Whaling Ships.
- WALTER L. BEASLEY, New York City.  
3 Photographs of *Diplodocus*.
- MRS. F. COLEMAN, New York City.  
1 Piece of fossil-bearing rock.
- W. A. COURTNEY, New York City.  
110 Slides of Ceylon, with manuscript.
- T. E. DONNE, Wellington, New Zealand.  
38 Photographs of Maori carvings.
- RICHARD DOUGLAS, New York City.  
32 Photographs of African mammals.  
5 " " African scenery.  
26 " " Madeira.
- ESTATE OF DR. JAMES GOODWILLIE, New York City.  
2 Polished Walrus tusks.  
1 Whale-tooth.
- JOHN HUGHES, New York City.  
7 Negatives. Views in Museum.
- MRS E. LEVY, New York City.  
Mounted Eagle with Squirrel.
- E. P. MATHEWSON, Anaconda, Mont.  
1 Photograph of Coyote.
- NEW YORK BOTANICAL GARDEN, New York City.  
7 Slides of Jamaica, W. I.
- RIO DE JANEIRO TRAMWAY, LIGHT AND POWER COMPANY  
Rio de Janeiro, Brazil.  
1 Photograph of Brazilian Sloth.
- GUSTAV SCHNEIDER, Basel, Switzerland.  
2 Photographs of Gorillas.
- MRS. C. F. A. TALBOT, New York City.  
California birds (mounted).

JOHN B. TREVOR, New York City.

Vitascope, plates and stand.

UNITED STATES GEOLOGICAL SURVEY, WASHINGTON, D. C.

20 Slides of San Francisco.

BY PURCHASE.

17 Slides of Kingston, Jamaica.

9 Slides of San Francisco, Calif.

10 Slides of San Francisco, Calif.

20 Slides of Panama.

4 Photographs of Blackfish.

DEPARTMENT OF GEOLOGY AND INVERTEBRATE  
PALÆONTOLOGY.

BY GIFT.

BARNUM BROWN, New York City.

20 Hamilton fossils from Sherburne Falls, Chenango County, N. Y.

W. H. C. CHANDLER, New York City.

Gold-bearing Iron Pyrites.

RICHARD DOUGLAS, New York City.

Gold-bearing Talc from South Rhodesia, South Africa.

A. S. DWIGHT, New York City.

Rhyolite from Sombrerete, Zacatecas, Mexico.

D. T. DYER, Collinsville, Conn.

Gold- and Silver-bearing Zinc Ore from Collinsville, Conn.

E. O. HOVEY, New York City.

Graphite Ore and associated rocks from Lake George, N. Y.

Specimens from Pennsylvania R. R. excavation.

C. D. LEVY, Eatontown, N. J.

1 Symmetrical Quartzite Pebble from Eatontown, N. J.

JOHN A. MANLEY, New Brunswick, N. J.

Banded Trap from Miramar, Costa Rica.

ERNEST C. MARGRANDER, New York City.

Basaltic Breccia from Culebra Cut, Panama Canal.

NORTH CAROLINA GRANITE CORPORATION (through A. S. Alger).

Eight-inch cube of Granite.

CHARLES PERCY, Sr., and G. A. WARDWELL, of the Peary Arctic Expedition.

125 Semi-fossil Shells from Cape Sheridan and Lincoln Bay, North Greenland.

ROBERT S. TOWNE, New York City.

Drill-cores from Hudson River tunnels, Pennsylvania R. R.

G. A. WARDWELL, Peary Arctic Expedition.

30 Coal Measure fossils from Lat. 82°, 27' north of Greenland.

By PURCHASE.

2 *Radiolites maximus*.

1 *Haploscapa excentrica*.

2 *Ostrea congesta*.

1 Lot of Hamilton Group fossils.

1 Slab bearing *Neuropteris loschii*.

1 " " *Sigillaria volzii*.

1 " " of Spheroidal Granite from Hardwick, Vt.

1 " " Napoleonite from Island of Corsica.

1 " " Porphyritic Granite from Carnsaw, England.

1 " " Ophicalcite from Moriah, N. Y.

THROUGH MUSEUM EXPEDITIONS.

60 Fossil plants from Fort Union Group, Montana; 1 specimen of *Hoploparia browni* from Fort Pierre Group, Montana; Dike Rock from Smoke Butte, Montana. Collected by Mr. Barnum Brown.

55 Middle Eocene fossils and 1 specimen of fossil crab from Egypt; 40 semi-fossil shells from Lake Mœris, Egypt. Collected by Mr. Walter Granger.

DEPARTMENT OF MAMMALOGY AND  
ORNITHOLOGY.

MAMMALS.

By GIFT.

BARNUM AND BAILEY COMPANY, Bridgeport, Conn.

1 African Elephant.

WILLIAM BARTELS, New York City.

1 Hyæna Dog.

W. H. BERGTOLD, M.D., Denver, Colo.

1 Brown Bat (*Vespertilio fuscus*).

DIMITRO BILYCK, New York City.

1 Sea Lion.

J. R. BLACKBURNE, M.D., New York City.

2 Maltese Terriers.

- GEORGE S. BOWDOIN, New York City.  
2 North Atlantic Right Whales, taken on south shore of Long Island, N. Y.
- JOHN R. BRADLEY, New York City.  
1 Young Walrus, 1 skull of Ringed Seal, 1 head of Mountain Sheep.
- A. E. BUTLER, New York City.  
1 Cotton-tail Rabbit.
- N. S. BUXTON, Johnstown, Ohio.  
1 Least Weasel.
- MRS. EDWARD CORFITZEN, New York City.  
1 Common Mole.
- GEORGE CROCCO, New York City.  
3 Woodchucks.
- W. T. DAVIS, New Brighton, S. I.  
1 Field Mouse.
- DEPARTMENT OF PARKS, New York City.  
2 Black Apes, 19 Monkeys (various species), 1 Black Leopard,  
1 Leopard cub, 1 Lion cub, 1 Hyæna, 1 Ferret, 1 Wolf, 1 Gray  
Fox, 1 Black Bear, 1 Polar Bear, 2 Sea Lions, 3 Aoudads,  
1 White-tailed Gnu, 2 Indian Antelopes, 1 Cebu calf, 1 Bison calf,  
1 Philippine Buffalo, 1 young Wapiti, 1 Llama.—Total, 43 speci-  
mens received in the flesh from the Central Park Menagerie.
- REV. D. STUART DODGE, New York City.  
8 Specimens from Assam, India. Collected under direction of Dr. G.  
G. Crozier.
- C. A. FINLEY, Wilkesbarre, Pa.  
1 Whippet Dog.
- G. DWIGHT FRANKLIN, New York City.  
1 *Peromyscus* skeleton.
- MRS. EMMA GAESSER, New York City.  
1 Griffon Broxellion Cat.
- MRS. F. C. GOODWIN, New York City.  
1 Marmoset.
- J. S. HANNIGAN, New York City.  
1 Black-and-tan Terrier.
- A. H. HEINRICH, Baldwin, N. Y.  
1 Star-nosed Mole, from Long Island, N. Y.
- ADAM HERMANN, New York City.  
1 Brown Bat.
- MORRIS K. JESUP, New York City.  
1 Specimen of *Solenodon paradoxus*.



MRS. C. F. KETCHUM, New York City.  
2 House Cats.

HERBERT LANG, New York City.  
2 Elephant-teeth, 6 pairs of Antelope horns, 1 Impala head.

HON. MASON MITCHELL, U. S. Consul, Chungking, China.  
18 Specimens of large mammals from the Chinese border of Tibet,  
including the Himalayan Goral, Takin, Serow, Bear, and 3 species  
of *Felis*.

R. C. MURPHY, Mount Sinai, N. Y.  
1 Common Mole, 1 Short-tailed Shrew.

NEW YORK ZOÖLOGICAL SOCIETY, New York City.

1 Chimpanzee, 1 Orang-utan, 2 Baboons, 1 Mandrill, 3 Mangebeys,  
1 Mona Monkey, 1 Pig-tailed Monkey, 2 Lemurs, 1 Nubian Lion,  
3 Lion cubs, 1 Tiger (Prince), 1 Clouded Leopard, 1 Serval,  
3 Ocelots, 1 Margay Cat, 1 Malay Cat, 1 Hyæna, 1 Red Fox,  
1 South American Fox, 1 Wolf, 2 Dingoes, 1 American Badger,  
1 Otter, 1 Fisher, 1 Mink, 1 Wolverine, 1 Civet Cat, 1 Ichneu-  
mon, 2 Paradoxures, 1 Polar Bear, 1 Black Bear, 2 Bear cubs,  
2 Raccoons, 1 Crab-eating Raccoon, 1 Kinkajou, 6 Harbor Seals,  
3 Sea Lions and 2 Sea Lion cubs, 1 Caribou, 1 Sambar Deer,  
1 Axis Deer, 1 Barasingha Deer, 1 Virginia Deer, 1 Muntjac,  
1 Rocky Mountain Sheep, 2 Persian Wild Goats, 1 Ibex,  
1 Leucoryx, 1 Four-horned Antelope, 1 Bison calf, 2 Zebras,  
1 Tapir, 1 Beaver, 1 Capybara, 1 Sloth, 1 Kangaroo.—Total,  
78 specimens received in the flesh from the New York Zoölogical  
Park and the New York Aquarium.

NORTH AMERICAN ORNITHOLOGICAL FUND.

16 Small mammals from British Columbia and Alberta, collected by  
Mr. Frank M. Chapman.

J. T. NICHOLS, New York City.  
1 Porpoise skull, (*Tursiops* sp.), 1 Porpoise skeleton (*Largeno-  
rhynchus* sp.), from the South Pacific.

PEARY ARCTIC CLUB, New York City.  
160 Large mammals from Arctic America, collected by Commander  
R. E. Peary, U. S. N.

MRS. MARTHA REYNOLDS, New York City.  
1 Maltese Terrier.

CHARLES DE RHAM, Cold Spring Harbor, N. Y.  
1 Mole (albino).

J. G. PHELPS STOKES, New York City.  
2 Tusks of Narwhal.

SAMUEL THORNE, New York City.

- 174 Specimens, from British East Africa, mostly large, including Monkeys, Antelopes, Giraffes, Elephants, Lions, etc. Collected by the Tjäder Expedition.

BY EXCHANGE.

- 31 Small mammals from Colorado.

BY PURCHASE.

- 1 Sea otter; 2 *Solenodon paradoxus*: 55 specimens from Central China; 8 skins, with skeletons, and 3 heads from Africa; 18 specimens from Borneo, including 8 Orangs; 113 small mammals from Nicaragua; 25 specimens from Venezuela.

BIRDS.

BY GIFT.

PAUL D. BERGEN, Shan-tung, China.

- 52 Small birds from China.

EDGAR BURKE, Morristown, N. J.

- 1 Tufted Titmouse.

JAMES CHAPIN, New Brighton, N. Y.

- 19 Small birds and 7 bird sternums.

JAMES CLARK, New York City.

- 1 Great Blue Heron.

HOWARD CLEAVES, New York City.

- 1 Hermit Thrush.

EDWARD CORFITZEN, New York City.

- 1 Osprey sternum.

E. B. COWAN, New York City.

- 1 Parrot.

DEPARTMENT OF PARKS, New York City.

- 14 European Swans, 3 Black Swans, 3 Ducks, 1 Snow Goose, 1 Egyptian Goose, 1 Chinese Goose, 1 Canada Goose, 1 Herring Gull, 1 Woodcock, 9 Pheasants, 2 Peacocks, 2 Golden Eagles, 2 Horned Owls, 8 Cockatoos, 16 Parrots, 5 Paroquets, 2 Macaws, 1 Magpie.—Total, 73 specimens received in the flesh from the Central Park Menagerie.

REV. D. STUART DODGE, New York City.

- 88 Specimens from Assam, India. Collected under the direction of Dr. G. G. Crozier.

WILLIAM DUTCHER, New York City.

26 Weaver Birds.

G. DWIGHT FRANKLIN, New York City.

9 Small birds and 10 sternums of birds.

EDWARD HÜPPER, New York City.

1 American Crow.

S. H. MILLER, Miller's Place, N. Y.

1 Herring Gull.

HON. MASON MITCHELL, U. S. Consul, Chungking, China.

1 Crossoptilon Pheasant.

NEW YORK ZOÖLOGICAL SOCIETY, New York City.

1 Ostrich, 1 Cassowary, 1 Loon, 1 Black Stork, 1 Blue Heron,  
1 White Heron, 1 Pheasant, 1 King Vulture.—Total, 8 specimens  
received in the flesh from the New York Zoölogical Park and  
the New York Aquarium.

JOHN T. NICHOLS, New York City.

1 South American Rail.

NORTH AMERICAN ORNITHOLOGICAL FUND.

125 Specimens, collected in the Bahamas, South Carolina, British  
Columbia and Saskatchewan, by Mr. Frank M. Chapman, for  
Museum Bird Groups.

HON. THEODORE ROOSEVELT, Oyster Bay, N. Y.

1 Yellow-throated Warbler, from Long Island, N. Y.

EDGAR F. STEAD, Christchurch, N. Z.

1 Penguin skin from New Zealand.

SAMUEL THORNE, New York City.

232 Specimens from British East Africa. Collected by the Tjäder  
Expedition.

Miss S. E. WALTHER, Venezuela.

1 Prairie Horned Lark.

#### BY EXCHANGE.

201 Specimens from Central and South America; 145 specimens from  
Japan; 96 specimens, chiefly from North America.

#### BY PURCHASE.

502 Specimens from Nicaragua; 117 specimens from Colombia;  
273 specimens from California.

#### THROUGH LOCAL COLLECTING.

30 Specimens from northern New Jersey; 86 specimens from Long  
Island, N. Y.

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.

BY GIFT.

MADISON GRANT, New York City.

Tooth of Mammoth from the Seward Peninsula, Alaska.

JAMES R. KEENE, New York City.

Skeleton of the race-horse "Sysonby."

H. K. BUSH-BROWN, Newburgh, N. J.

Lumbar vertebræ of half-arab foal, and photograph of racehorse Elmer Wilkes.

PERCY R. PYNE and J. P. MORGAN, JR., New York City.

Collection of remains of Alaskan Mammoth.

CHARLES SHELDON, New York City.

Hoof phalanx of a fossil horse from Chandelar Lake, Alaska.

FRANK K. STURGIS, New York City.

Skeleton of a three-toed horse and other valuable specimens from the Lower Miocene of Wyoming.

BY EXCHANGE.

GEOLOGICAL MUSEUM OF BUCHAREST, Roumania (through Professor G. Stefanescu).

Cast of fore foot of *Dinotherium gigantissimum* from the Upper Miocene of Roumania.

BY PURCHASE.

Skeleton of *Ichthyosaurus* from the Jurassic slate quarries of Württemberg, Germany.

Casts of cranium of *Pithecanthropus*, from the Pleistocene of Java, and of skulls and jaws of *Simocyon primigenius* and *Ictitherium robustum*, from the Pliocene of Greece.

Upper and lower jaws, limb and foot bones of a species of *Blastomeryx* from the Lower Miocene of Wyoming.

Lower jaw of a Mammoth from the Big Bone Lick region of Kentucky.

Skeleton of *Hesperornis* from the Cretaceous chalk of Kansas, and a series of teeth of an undescribed species of Peccary, also other specimens from the Upper Miocene of Kansas.

THROUGH MUSEUM EXPEDITIONS.

FAYÛM TERTIARY BEDS OF EGYPT.

500 Specimens of fossil vertebrates, chiefly mammalia, with some crocodilia and a few chelonia; the most important of these are the skulls, jaws, palates, etc., of *Mærittherium* and *Palæomastodon*; various parts of the skeleton of *Arsinoitherium*; two fine skulls of creodonts and numerous more fragmentary specimens of creodonts, hyracoids, Artiodactyls, etc.

LOWER MIOCENE OF SOUTH DAKOTA AND NEBRASKA.

Collection of valuable specimens of the known fauna of this horizon and two or three new types.

PLEISTOCENE OF ALASKA.

Collection of fossils from Alaska, including especially skin and hair of the Mammoth.

DIVISION OF FOSSIL FISHES.

BY GIFT.

FRANK M. CHAPMAN, Englewood, N. J.

Interneural bone of *Chaetodipterus faber*.

DR. JOHN M. CLARKE, Albany, N. Y.

Cast of ventral plate of *Glyptaspis abbreviata* East.

CLEVELAND H. DODGE FUND.

Collection of fossil fishes from the Lithographic Stones (Jurassic), Germany; also 7 noteworthy specimens of fossil fishes from the Trias, Württemberg, Germany. Selected by Prof. E. Fraas of Stuttgart from the collections of B. Hauff of Holzmaden.

Collection of fossil fishes (Jurassic), Solnhofen, Germany.

Specimen of the primitive *Cephalaspis*.

DR. C. R. EASTMAN, Cambridge, Mass.

Cast of type specimen of *Dipterus uddeni*; also numerous specimens of *Ptyctodus*, *Rhynchodus* and *Synthetodus*.

EDWIN KIRK, New York City.

Specimen of *Ptyctodus* from the Hamilton of Michigan.

BY PURCHASE.

5 Specimens of fishes (extant forms).

8 Specimens of fossil fishes from the Upper Devonian of Canada.

THROUGH MUSEUM EXPEDITIONS.

FAYÛM TERTIARY BEDS OF EGYPT.

13 Specimens, including Sharks' teeth, early Saw-fishes and Siluroid spines.

## DEPARTMENT OF ETHNOLOGY.

BY GIFT.

- F. A. BERTOLD, New York City.  
1 Fur coat and 1 pair of fur trousers and boots from Eskimo of Alaska.
- BARNUM BROWN, New York City.  
1 Basket from Patagonia.
- WILLIAM DEMUTH, New York City.  
Collection of pipes and smoking utensils from different localities.
- DÉPARTEMENT DE L'INTÉRIEUR, État Indépendant du Congo.  
Large ethnological collection from Congo Free State.
- THEO. DWIGHT, New York City.  
1 Metate and grinder from Arizona.
- LIEUT. G. T. EMMONS, Princeton, N. J.  
1 Basket from Yakutat, 1 bag from Tahltan Indians, and 1 copper bird (blanket ornament) from Nass River.
- Miss ADELE M. FIELDE, Seattle, Wash.  
1 Frame of twenty Chinese pictures.
- CHARLES H. FLINT, New York City.  
6 Pieces of feather-work and 1 bundle of poisoned darts from the Upper Amazon, S. A.
- DR. JAMES GOODWILLIE, New York City.  
1 Dagger from Malay Peninsula.
- DR. FREDERIC GRIFFITH, New York City.  
1 Model of Chief's barge, from Niger Delta; 2 cocoanut bowls from Philippine Islands and 1 pair of chop-sticks from China.
- GEORGE G. HEYE, New York City.  
1 Bow with string from Pacific Islands.
- G. K. HOLLISTER, New York City.  
1 Large tappa cloth from Hawaiian Islands.
- MORRIS K. JESUP, New York City.  
Large ethnological collection of 500 specimens from Indians of Caiarý-Uaupeú, Amazonas, Brazil.  
Collection of tattooed Maori heads from New Zealand.
- GEORGE A. KING, Lawrence, Mass.  
1 Grooved axe from Massachusetts.
- EDWARD J. KNAPP, New York City.  
11 Masks from Point Hope, Alaska.
- DR. E. A. LE SOUËF, New York City.  
1 Stone axe from Victoria, Australia.
- Mrs. NILES ROSS MARTIN, New York City.  
1 Satchel with strap from Colombia, S. A.

- E. P. MATHEWSON, Anaconda, Mont.  
3 Stone implements from Bowie, Arizona.
- Mrs. J. J. MAYHAN, New York City.  
1 Indian jacket from Dakota Indians.
- W. S. MacCOLLESTER, New York City.  
1 Rug of leopard skin, 1 patka made of squirrel skin and 1 bag made of reindeer skin, from Kings Island, Alaska.
- PAUL C. MILLER, Chicago, Ill.  
3 Lower hand-millstones from Wyoming.
- MR. RALPH M. MUNROE, Cocoanut Grove, Florida.  
3 Shell celts from Florida.
- DR. FRANCIS C. NICHOLAS, New York City.  
5 Pieces of black pottery from Colombia, S. A.
- MISS DOROTHY REED, New York City.  
1 Sioux scalp.
- M. F. SAVAGE, New York City.  
26 Boxes of matches from different localities.
- Mrs. C. SCHEUER, New York City.  
1 Pagoda.
- Mrs. PHILIP SCHUYLER, New York City.  
1 Black pottery whistle and 1 decorated pottery vessel from Mexico.
- Mrs. LOUIS SCOTT, New York City.  
1 Feather blanket from Alaska.
- DR. L. L. SEAMAN, New York City.  
4 Skulls from Philippine Islands.
- ERNEST SCHERNIKOW, New York City.  
1 Stone hammer (hafted) and part of wooden handle from Atacama, Chile.
- H. W. SETON-KARR, Wimbledon, England.  
74 Palæolithic implements from Districts of Poondi and Gazupet, India, and 71 stone implements from Fayûm Desert, Egypt.
- MR. HENRY SIEGEL, New York City.  
1 Frame with models of Philippine weapons.
- HARLAN I. SMITH, New York City.  
13 Pieces of silver work from a grave at Green Point, Michigan.
- Mrs. MARY H. TAFT, New York City.  
60 Photographs of Indians of Peru and Bolivia.
- CASPAR WHITNEY, New York City.  
1 Quill pouch from Cree Indians.  
9 Specimens from Malay Peninsula.
- MISS T. WILBOUR, New York City.  
1 Stone idol, "God of Wisdom," from Benares, India.



MRS. VIOLA GEBHART WISSELER, New York City.

16 Decorated objects from the Plains Indians.

WOMEN'S NATIONAL RELIEF ASSOCIATION, New York City.

1 Attu basket.

THROUGH MUSEUM EXPEDITIONS.

1,322 Ethnological specimens from Central Africa. Collected by Mr. Richard Douglas.

803 Ethnological specimens from the Iroquois Indians. Collected by Mr. M. R. Harrington.

61 Ethnological specimens from the Indians of Canada. Collected by Dr. R. H. Lowie.

295 Archæological specimens from New York State. Collected by Mr. Alanson Skinner.

122 Archæological specimens from Wyoming. Collected by Mr. Harlan I. Smith.

212 Ethnological specimens from British East Africa. Collected by Mr. Richard Tjäder.

235 Ethnological specimens from Korea. Collected by Dr. C. C. Vinton.

BY EXCHANGE.

ACADEMY OF NATURAL SCIENCE, St. Petersburg, Russia.

129 Specimens of neolithic pottery from Russia.

DR. J. J. EDWARDS, Bartholomew County, Indiana.

17 Archæological specimens from Bartholomew County, Indiana.

DR. PAUL EHRENREICH, Berlin, Germany.

73 Photographs from Bororo Indians.

LIEUT. G. T. EMMONS, Princeton, N. J.

1 Tubular pipe from British Columbia.

FREE MUSEUM OF LIVERPOOL, Liverpool, England.

100 Specimens from New Guinea and Central Africa.

PROF. E. H. GIGLIOLI, Florence, Italy.

25 Archæological specimens from Europe and South America.

PROF. DAVID VON HANSEMANN, Berlin, Germany.

Series of brain casts of eminent German savants, and skull and jaws of palæolithic men.

STÄDTISCHES VÖLKER-MUSEUM, Frankfurt-a/M., Germany.

Ethnological specimens from New Guinea.

UNIVERSITY OF CALIFORNIA, Berkeley, Calif.

27 Ethnological specimens from Guatemala.

BY PURCHASE.

12 Ethnological specimens from Prince Albert Land and Siberia.

23 Ethnological specimens from Upper Amazon, South America, and Benin, Africa.

- 1 Olla and contents from Diegueño Indians of California.  
 1 Saddle-band of porcupine quill-work from the Dakota Indians.  
 Models of two Iroquois houses and 7 specimens from the Ojibwa.  
 8 Plaster figures from Africa.  
 1 Stone image from the Society Islands.  
 2 Decorated buffalo robes from Sioux Indians.  
 1 Feather scarf from the Maori of New Zealand.  
 173 Ethnological specimens from the South Sea Islands.

## DEPARTMENT OF ENTOMOLOGY.

## BY GIFT.

DR. WILLIAM BARNES, Decatur, Ill.

- 1 *Catocala frederici* from Texas.  
 3 " *desdemona* from Arizona.  
 1 " *illecta* from Illinois.  
 1 " *andromache* from Arizona.  
 1 " *sappho* from Illinois.

DR. HERMAN BOSCH, New York City.

- 1 *Callosomia calleta* from Mexico.  
 1 *Attacus jorulla* " "

PROF. W. E. BRITTON, New Haven, Conn.

- 1 *Catocala ilia* from Maine.  
 2 " *coelebs* from Maine.  
 1 " *præclara* from Maine.  
 1 " *briseis* from Maine.  
 2 *Semiophora youngi* from Maine.  
 6 *Conservula anodonta* from Maine.  
 2 *Eutolype rolandi* from Connecticut.

PROF. T. D. A. COCKERELL, Boulder, Colo.

A number of Insects from Colorado.

MORRIS K. JESUP, New York City.

- 2,600 Butterflies, Bees, Wasps, Beetles, etc., from Rio Caiarý-Uaupè,  
 State of Amazonas, Brazil.

HENRI DECKERT DE LA MEILLAIE, Nantes, France.

- 1 *Catocala adultera* from Siberia.  
 2 " *puerpera*, var. *pallida*, from Kuldja, Asia.  
 1 " *remissa* from Kashgarie, Asia.  
 3 " *optima* from Merv, Russia.  
 3 " *neglecta* from Aksu, Asia.  
 2 " *deuteronympha* from Amur, Siberia.  
 1 " *desiderata* from Ili, Asia.  
 1 " *contemnenda* from Aksu, Asia.  
 2 " *astimobilis* from Siberia.

CHARLES R. ELY, Washington, D. C.

- 4 *Catocala badia* from Connecticut.  
 6 " *dejecta* " "  
 6 " *gracilis* " "  
 1 " *tristis* " "  
 3 " *præclara* " "  
 1 " *cordelia* " "  
 1 " *connubialis* from Connecticut.  
 2 " *coccinata* " "  
 7 " *micronympha* from "

DR. E. P. FELT, Albany, N. Y.

- Cotypes of *Lasioptera hibisci* Felt.  
 " " " *convolvuli* Felt.  
 " " *Asphondylia diervilleæ* Felt.  
 " " *Dasyneura canadensis* Felt.  
 " " *Rhabdophaga populi* Felt.

F. DU CANE GODMAN, London, England.

An important collection of Beetles from Mexico and Central America, containing upwards of 4,000 specimens, representing 1,679 species

JOHN J. GREEN, Farmingdale, N. Y.

Nest of Hornet (*Vespa maculata*).

J. A. GROSSBECK, New Brunswick, N. J.

- 6 *Eupithecia multistrigata* from Utah.  
 1 Cotype *Stenaspilates flavisaria* Gross. from Arizona.  
 1 *Cleora formosata* from Utah.  
 3 *Aleis obliquaria* from Arizona.

J. G. GRUNDEL, Alma, California.

- 4 *Catocala irene* from Santa Cruz Mountains, California.

F. HAIMBACH, Philadelphia, Pa.

- 2 *Pyromorpha fusca* from Huachuca Mountains, Arizona.  
 3 *Mamestra distincta* from Pennsylvania.  
 2 *Gracilaria superbifrontella* from Pennsylvania.  
 1 *Eucosma adamantana* from Lucaston, N. J.  
 2 *Euarmonia angleseana* from Holly Beach, N. J.  
 2 *Epinotia haimbachiana* from Pennsylvania.

E. FIRMSTONE HEATH, Cartwright, Canada.

- 50 Specimens of *Catocala* from Manitoba, Canada.

SAMUEL V. HOFFMAN, New York City.

- 64 Butterflies from Africa.

GEORGE J. KELLER, Newark, N. J.

- 1 *Catocala eratægi* from Manitoba, Canada.  
 3 " *manitoba* " " "  
 4 " *faustina* " Utah.

- DR. G. LAGAI, New York City.  
8 *Catocala electilis* from Mexico.
- HERBERT LANG, New York City.  
A collection of Insects from Athi Plains, Africa.
- G. A. MCTAVISH, Moorea, Tahiti.  
A small collection of Insects from Tahiti.
- W. DEW. MILLER, Plainfield, N. J.  
Insect-galls from New Jersey.
- H. H. NEWCOMB, Boston, Mass.  
2 *Hepialus argenteomaculatus* from Massachusetts.
- RAYMOND C. OSBURN, New York City.  
1 *Xylota barbata*.  
2 *Criorhina kincaidi*.  
3 *Sericomyia chaleopyga*.  
1 *Pigrita montigena*.  
1 *Volucella fascialis*.
- S. A. ROHWER, Boulder, Colo.  
A few Insect-galls from Colorado.
- DR. HENRY SKINNER, Philadelphia, Pa.  
1 Cotype *Plusiotis beyeri* from Arizona.  
2 *Elaphidion apacheanus* " "  
2 *Prionus heros* from Arizona.  
4 *Aphodius larvæ* " "  
4 *Lycostomus sanguineus* from Arizona.  
2 *Cicindela formosa* var. *manitoba* from Aweme, Canada.  
2 " *limbata* from Aweme, Canada.
- MRS. CHARLES N. TAINTOR, New York City.  
Nest of Hornet (*Vespa maculata*).
- ALBERT THOMSON, New York City.  
A number of Insects from South Dakota.
- WILLIAM WASSMUTH, Brooklyn, N. Y.  
1 *Catocala unijuga* from Long Island.  
1 " *cara* " " "  
2 *Arctia arge* " " "
- DR. WILLIAM M. WHEELER, Bronxville, N. Y.  
A collection of Insects from Europe.  
Cotypes of *Attaphila fungicola* Wheeler from Austin, Texas.  
A collection of Insects from Porto Rico.

## BY PURCHASE.

- A valuable collection of Bark-lice (Coccidæ).  
300 Specimens of Tiger Beetles (Cicindelidæ).

- 700 Specimens of Cuban insects.
- 56 Specimens of *Catocala* from Utah.
- 14 Nests of Wasps, Ants and Termites.
- Observation hive and swarm of honey-bees.

DEPARTMENT OF MINERALOGY AND CONCHOLOGY.

MINERALOGY.

BY GIFT.

THE MATILDA W. BRUCE FUND.

- 43 Specimens of minerals, including Autunite, Baddelyite, Beryl, Cobaltite, Copper (crystallized), Dyscrasite, Eglestonite, Helandite, Humite, Malachite, Menaccanite, Molybdite, Polybasite, Quartz (pseudomorph), Gypsum (Selenite), Tantalite, Terlinguaite, Thalenite, Thorianite, Uraninite.

W. A. BUCKNER, Hot Springs, Ark.

- Infusorial Clay from Arkansas.

F. A. CANFIELD, Dover, N. J.

- 1 Specimen of Lead (native) from Sweden.

DR. JOHN H. CASWELL, New York City.

- 15 Specimens of minerals from Chile, South America, including Amaranthite, Coquimbite, Copiapite, Fibroferrite, Hohmannite and Roemerite.

ALBERT S. COFFIN, New York City.

- 6 Specimens from deep building excavations on New York Island, including Manhattan Schist, Quartzite, Granite, Kaolinized Granite and Ripidolite.

FRANTZ DJORUP, Chicago, Ill.

- 1 Specimen of Magnesite from Austria.

RICHARD DOUGLAS, New York City.

- 1 Specimen of Malachite from Africa.

A. RADCLIFFE DUGMORE, Newfoundland, N. J.

- 2 Specimens of Pyrite (concretionary) from England.

LEWIS FALLAMEL, Bedford, N. Y.

- 1 Specimen of Cyrtolite from Westchester County, N. Y.

MICHAEL R. HAAS, New York City.

- 13 Specimens of Erubescite (Bornite) from New York Island.

HANCE ASBESTOS COMPANY (through S. W. Fairchild), New York City.

- 2 Specimens of Asbestos (Chrysotile), associated with Serpentine, from the Grand Cañon, Colorado.

- B. E. HOOVER, New York City.  
1 Specimen of Talc (compact) from Fowler, N. Y.
- FREDERICK F. HUNT, New York City.  
1 Specimen of Asbestos (Chrysotile) from Grand Cañon, Colorado.  
2 Specimens of Serpentine from Grand Cañon, Colorado.
- BARNEY KLEPPER, New York City.  
2 Specimens of Chalk Flint from England.
- DR. GEORGE F. KUNZ, New York City.  
1 Specimen of Actinolite from Vermont.
- F. T. LACEY, New York City.  
1 Specimen of Travertine from Caledonia, N. Y.
- DR. W. G. LEVISON, Brooklyn, N. Y.  
1 Specimen of Gold Ore from excavations on New York Island.
- J. PIERPONT MORGAN, New York City.  
1 Specimen (of extraordinary beauty) of Crystallized Gold in Crystallized Quartz from California.  
3 Masses of Jade (Nephrite) from New Zealand.
- J. F. FREIRE MURTA, Minas Geraes, Brazil.  
380 Specimens from Minas Geraes, Brazil, including Tourmaline (fragments), Yellow Beryl, Aquamarine (Beryl) and cut Tourmalines, Topazes and Beryls.
- NEW YORK STATE MUSEUM, Albany, N. Y. (through Miss Pauline Sterling and Prof. H. P. Whitlock).  
Group of large colored Calcite crystals from Sterlingbush, St. Lawrence County, N. Y.
- THE PEARY EXPEDITION (1905).  
12 Parcels of stone fragments collected at various points in the North.
- ALBERT H. PETEREIT, New York City.  
1 Specimen of crucible contents, with plates of artificial Ruby (Corundum), and 1 specimen of Chalcedony (pseudomorph), from Westphalia, Germany.
- B. G. PRATT COMPANY, New York City.  
1 Specimen (large, 250 lbs.) of Limonite from Tennessee.
- L. S. QUACKENBUSH, New York City.  
1 Specimen of placer Tin (Cassiterite) from Alaska.
- DR. L. D. RICKETTS, Cananea, Mexico.  
2 Specimens of colored Stalactite (Calcite), cut and polished, from Arizona.
- R. H. SELLERS, New York City.  
Specimens of Cinnabar from California.

BY EXCHANGE.

C. H. JONES, New York City.  
100 Small Sphalerite groups and crystals in Limestone from Tiffin, Ohio.

PROF. D. S. MARTIN, Brooklyn, N. Y.  
5 Specimens of Achroite (Tourmaline) from San Diego County, California.

OTTO F. PFORDTE, Rutherford, N. J.  
46 Specimens of minerals, including Erythrite, Fluorite (Chlorophane), Limonite (altered Pyrite), Niccolite (with Silver), Pentlandite, Pyrrhotite, Smaltite (with Silver) and vein formation (cut and polished).

J. MILTON RHOADES, Edge Hill, Pa.  
7 Specimens of Menaccanite (lamellar Ilmenite) from Pennsylvania.

PROF. T. WADA, Tokio, Japan.  
30 Specimens of minerals from Japan, including Andalusite, Chalcopyrite, Danburite, Fluorite, Fergusonite, Garnet, Hyalite, Jamesonite, Limonite, Magnetite, Naegite, Opal, Orthoclase, Quartz, Rhodochrosite, Reinite and Witherite.

BY PURCHASE.

1 Specimen of Sphalerite and 1 specimen of Rutile from New York Island (property of the New York Mineralogical Club).

CONCHOLOGY.

BY GIFT.

EDWARD BIERSTADT (deceased), through Mrs. M. A. Bierstadt, New York City.

505 Specimens of Shells, comprising 179 species.

F. A. CANFIELD, Dover, N. J.  
11 Specimens of Shells from Cuba.

A. DA COSTA GOMEZ, Brooklyn, N. Y.  
7 Specimens of Shells from Venezuela.

WALTER GRANGER, New York City.  
4 Specimens of *Helix desertorum* Forsk from Egypt.

C. DAYTON GWYER, Brooklyn, N. Y.  
5 Specimens of Shells.

JAS. W. JUDD, Brooklyn, N. Y.  
20 Specimens of *Campeloma decisa* Say from Michigan.

GNEOMAR von KROCKOW, Brooklyn, N. Y.  
Small collection of Bivalves and Univalves from various parts of the world.



ENRIQUE LEINADO, New York City.

50 Specimens of *Liguus virginicus* Linn. from San Domingo.

DR. T. H. McCOY, Chicago, Ill.

2 Specimens of *Cypræa spadicea* Sow. from California.

THE MISSIONARY SOCIETY (through the Department of Ethnology).

A small collection of Shells, comprising 48 species and 83 specimens collected by Rev. J. C. Davison, Nagasaki, Japan.

GEORGE H. PEPPER, New York City.

43 Specimens of Shells from Ecuador.

BY EXCHANGE.

GÉNÉRAL DE LAMOTHE, Paris, France.

Collection of Land Shells from Algiers, Africa, consisting of 156 specimens.

MAXWELL SMITH, New York City.

A collection of Marine and Fresh-water Bivalves and Univalves (261 specimens) from various parts of the world.

BY PURCHASE.

18 Specimens of Shells, comprising 7 species.

## DEPARTMENT OF INVERTEBRATE ZOÖLOGY.

### INVERTEBRATES.

BY GIFT.

ANONYMOUS.

1 Mantis-shrimp.

W. H. ARNTON, New York City,

2 Land Crabs from the Bahamas and 2 Tarantulas.

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

1 Lot of *Cerion* Shells from Watlings Island, Bahamas.

A. C. BURRILL, New York City.

1 Lot of Ants, Termites and Scorpions from Kansas and Oklahoma.

PROF. J. H. COMSTOCK, Ithaca, N. Y.

8 Fragments of Tully Limestone containing borings of a Rock-boring Mite.

DR. B. E. DAHLGREN, New York City.

Various Invertebrates from Sweden.

E. A. FORD, Kamerun, West Africa.

Various Myriapods, Arachnids and Insects.

PROF. AUGUSTE FOREL, Yvorne, Switzerland.

1 Collection of Ants, containing 3,519 specimens, representing 1,385 species, subspecies and varieties, including 788 type specimens, from all parts of the world.

- HENRY R. FREELAND, New York City.  
Various Shells, Corals, etc.
- GEORGE G. HEYE, New York City.  
Various Insects from Manabi, Ecuador.
- GEORGE B. KEAN, Boston, Mass.  
1 Cast of Lobster Claw.
- PROF. K. B. LEHMANN, Würzburg, Germany.  
3 Cave Pseudoscorpionids from Hungary.
- MISS MAHONEY, New York City.  
1 Millepede from Liberia, West Africa.
- WILLIAM H. MARDOCK, New York City.  
1 Centipede from the Amazon River, Brazil.
- W. DEW. MILLER and JAMES CHAPIN, New York City.  
Nematodes from intestine of water-snake.
- MORRIS K. JESUP, New York City.  
49 Myriapods, Crustaceans and Worms, and 1 lot of Ants from Rio Caiary-Uaupes, State of Amazonas, Brazil.
- McKESSON & ROBBINS, New York City.  
3 Specimens of *Euplectella speciosissima*.
- COM. R. E. PEARY, U. S. N.  
Various Crustaceans, Spiders, Insects and Parasitic Worms from Kane Basin, Lincoln Bay and Grant Land, Arctic America.

## BY PURCHASE.

- 1 Collection of internal parasites, containing 41 specimens, representing 29 species.
- 5 Specimens of *Ascaris lumbricoides* from the stomach of a child.  
Insect larvæ infesting the horn of a Grant's Antelope.
- Series (30 species) of the mollusk *Paludina*, showing development of the genus according to Neumayr.
- A collection of 238 species of palæarctic European Myriapods (760 specimens).
- 3 Dry specimens of *Cambarus immunitis* Hagen.
- 1 Lot of Myriapods and Arachnids from Santiago de Cuba.
- 1 " " " " " " " " Moorea, Tahiti.
- 1 Tape-worm (*Tænia saginata*) from human intestine.
- 1 Lot of Ants, Myrmecophiles, Myriapods and Arachnids, embracing 723 specimens.
- 1 Nest of *Azteca* in Cecropia log and 2 nests of *Comitennis striatus* from Santa Catharina, Brazil.
- 5 Specimens of *Peripatus novo-zelandica*.

## THROUGH MUSEUM EXPEDITIONS.

- Whale-lice (Isopods) attached to piece of whale's hide. Collected by Mr. James L. Clark at Amagansett, L. I.
- 3 Crabs and 1 Snail from the Athi Plains, British East Africa. Collected by Mr. Herbert Lang.
- 1 Lot of Myriapods from Black Mountains of North Carolina. Collected by Mr. William Beutenmüller.
- 1 Lot of Myriapods from New York Botanical Garden. Collected by Mr. D. Fiske.
- 1 Lot of *Cerion* shells (11 species) from Florida and the Bahamas. Collected by Messrs. Frank M. Chapman and J. D. Figgins.
- 1 Lot of Invertebrates from Mt. Sinai, L. I. Collected by Mr. Robert C. Murphy.
- 1 Lot of European Ants, consisting of many thousands of specimens and embracing nearly all the known European species. Collected by Dr. William M. Wheeler.
- 1,358 Fossil Insects, including 1,194 Fossil Ants from Florissant, Colo. Collected by Prof. T. D. A. Cockerell.
- Various Myriapods from New York and New Jersey. Collected by Mr. R. W. Miner.

## REPTILES AND BATRACHIANS.

## By Gift.

- AMERICAN MINISTER at Monrovia, Liberia.  
1 Boa-constrictor's skin from Monrovia, Liberia.
- A. C. BURRILL, New York City.  
1 Frog from Oklahoma.
- SELWYN BYWATER, New York City.  
1 Rattlesnake's skin from Chihuahua, Mexico.
- CHARLES CHRISTMAN, New York City.  
1 Lot of Salamanders from Mountain Home, Pa.
- LEO DEEG, New York City.  
1 Lot of Snakes and Salamanders from vicinity of New York and from S. Württemberg, Germany.
- HARRY DENNISON and WALTER TUNICK, New York City.  
1 Salamander from Brazil.
- E. A. FORD, Kamerun, West Africa.  
1 Lot of Reptiles and Batrachians.
- A. HERRMAN, New York City.  
82 Exotic Lizards from various localities.
- GEORGE G. HEYE, New York City.  
1 Cœcilian, 1 Legless Lizard and 2 Snakes from Manabi, Ecuador.

MORRIS K. JESUP, New York City.

38 Reptiles and Batrachians from Rio Caiary-Uaupés, State of Amazonas, Brazil.

W. DEW. MILLER, New York City.

4 Batrachians and 1 Milk Snake from Freeport, L. I., and Tappan, N. Y.

W. DEW. MILLER and JAMES CHAPIN, New York City.

1 Water-snake from Hackensack, N. J.

NEW YORK ZOÖLOGICAL SOCIETY, New York City.

115 Reptiles and Batrachians from various localities.

#### BY PURCHASE.

2 *Hyla andersoni* and 4 *Rana virgatipes* from Lakehurst, N. J.

5 Snakes from Sandusky, Ohio.

9 Chameleons, 1 Monitor's skull and 1 Snake from British East Africa.

12 Flying Lizards from Nias, near Sumatra.

1 Skull of Indian Gavial from India.

#### THROUGH MUSEUM EXPEDITIONS.

1 Snake from Pike County, Pa. Collected by Mr. G. Dwight Franklin.

Various Snakes and Batrachians from Mt. Sinai, L. I. Collected by Mr. Robert C. Murphy.

2 Snakes and 4 Lizards from the Bahamas. Collected by Mr. Frank M. Chapman.

1 Lot of Reptiles from the Fayûm, Egypt. Collected by Mr. Walter Granger.

1 Lot of Batrachians from New Jersey. Collected by Messrs. Gneomar von Krockow and D. Fiske.

#### FISHES.

##### BY GIFT.

CARL A. GIESE and NED W. GIESE, New York City.

1 Scute from Sturgeon.

MORRIS K. JESUP, New York City.

29 Fishes from Rio Caiary-Uaupés, State of Amazonas, Brazil.

DR. C. W. F. MUENCHEHOFE, New York City.

1 *Prionotus carolinus*.

NEW YORK ZOÖLOGICAL SOCIETY (through New York Aquarium),  
New York City.

26 Fishes, including several Sharks, from various localities.

J. T. NICHOLS, New York City.

Collection of Marine Fishes from Atlantic and Pacific Oceans, including 20 Hawaiian Fishes.

COM. R. E. PEARY, U. S. N.

Various Fishes from Lincoln Bay, Kane Basin and Grant Land, Arctic America.

BY PURCHASE.

1 Lamprey from Sandusky, Ohio.

2 Specimens of *Saccobranchus singio* from India.

THROUGH MUSEUM EXPEDITIONS.

1 Lot of Fishes from Mt. Sinai, L. I. Collected by Mr. Robert C. Murphy.

Various Fishes from Pike County, Pa. Collected by Mr. G. Dwight Franklin.

1 Skate from Jamaica Bay, L. I. Collected by Mr. J. T. Nichols.

6 Specimens of *Semotilus atromaculatus* from Black Mountains, North Carolina. Collected by Mr. Wm. Beutenmüller.

PLANTS.

THROUGH MUSEUM EXPEDITIONS.

30 Specimens of Fossil Plants from Florissant, Colo. Collected by Prof. T. D. A. Cockerell.

DEPARTMENT OF MAPS AND CHARTS.

BY GIFT.

MEXICO OBSERVATORIO METEOROLOGICO, Central Mexico.

1 Map.

MINISTER OF THE SURVEY DEPARTMENT, Africa.

1 Map.

PROF. MARSHALL H. SAVILLE, New York City.

2 Maps.

DEPARTMENT OF ETHNOLOGY.

34 United States Geological Survey Sheets on Connecticut.

BY EXCHANGE.

UNITED STATES GEOLOGICAL SURVEY, Washington, D. C.

142 Maps and 4 Atlases.

BY PURCHASE.

Map of the United States.

# INCORPORATION.

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## AN ACT

TO INCORPORATE THE

## AMERICAN MUSEUM OF NATURAL HISTORY,

Passed April 6, 1869.

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*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 and recreation.

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





# CONTRACT

## WITH THE DEPARTMENT OF PUBLIC PARKS

FOR THE OCCUPATION OF THE NEW BUILDING.

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THIS AGREEMENT, made and concluded on the twenty-second day of December, in the year one thousand eight hundred and seventy-seven, between the DEPARTMENT OF PUBLIC PARKS OF THE CITY OF NEW YORK, the party of the first part, and the AMERICAN MUSEUM OF NATURAL HISTORY, party of the second part, witnesseth:

*Whereas*, by an Act of the Legislature of the State of New York, passed April 22d, 1876, entitled "An Act in relation to the powers and duties of the Board of Commissioners of the Department of Public Parks, in connection with the American Museum of Natural History, and the Metropolitan Museum of Art," the said party of the first part is authorized and directed to enter into a contract with the said party of the second part, for the occupation by it of the buildings erected or to be erected on that portion of the Central Park in the City of New York, known as Manhattan Square, and for transferring thereto and establishing and maintaining therein its museum, library and collections, and carrying out the objects and purposes of said party of the second part; and,

*Whereas*, a building contemplated by said act has now been erected and nearly completed and equipped in a manner suitable for the purposes of said Museum, as provided in the first section of the Act of May 15, 1875, known as Chapter 351, of the Laws of 1875, for the purpose of establishing and maintaining therein the said Museum, as provided by the said last-named act, and by the Act of April 5, 1871, known as Chapter 290, of the Laws of 1871; and,

*Whereas*, it is desired as well by the said party of the first part, as by the said party of the second part, that, immediately upon the completion and equipment of said building, the said party of the second part should be established therein, and should transfer thereto its museum, library and collections, and carry out the objects and purposes of the said party of the second part;

Now, therefore, it is agreed by and between the said parties as follows, namely:

*First.*—That the said party of the first part has granted and demised and let, and doth, by these presents, grant, demise and let, unto the said party of the second part, the said buildings and the appurtenances thereunto belonging, to have and to hold the same so long as the said party of the second part shall continue to carry out the objects and purposes defined in its charter; or such other objects and purposes as by any future amendment of said charter may be authorized; and shall faithfully keep, perform, and observe the covenants and conditions herein contained on its part to be kept, performed and observed, or until the said building shall be surrendered by the said party of the second part, as hereinafter provided.

*Secondly.*—That neither the party of the first part, its successor or successors, nor the Mayor, Aldermen and Commonalty of the City of New York, shall be in any manner chargeable or liable for the preservation of the said building or the property of the party of the second part which may be placed therein, against fire, or for any damage or injury that may be caused by fire to the said property; but it is agreed that, damages as aforesaid excepted, the said party of the first part will keep said building, from time to time, in repair.

*Thirdly.*—That as soon after the completion and equipment of said building as practicable, said party of the second part shall transfer to, and place and arrange in said building, its museum, library and collections, or such portion thereof as can be properly displayed to the public therein, and shall have

and enjoy the exclusive use of the whole of said building, subject to the provisions herein contained, and the rules and regulations herein prescribed, during the continuance of the term granted, or until a surrender thereof, as herein provided.

*Fourthly.*—That the exhibition halls of said building shall, on Wednesday, Thursday, Friday and Saturday of each week, and on all legal or public holidays, except Sundays, be kept open and accessible to the public, free of charge, from nine o'clock A.M. until half an hour before sunset, under such rules and regulations as the party of the second part shall from time to time prescribe; but on the remaining days of the week the same shall be only open for exhibition to such persons, upon such terms as the said party of the second part shall from time to time direct. But all professors and teachers of the public schools of the City of New York, or other institutions of learning in said city, in which instruction is given free of charge, shall be admitted to all the advantages afforded by the said party of the second part, through its museum, library, apparatus, and collections, or otherwise, for study, research and investigation, free of any charge therefor, and to the same extent and on the same terms and conditions as any other persons are admitted to such advantages, as aforesaid.

*Fifthly.*—That the museum, library and collections, and all other property of said party of the second part, which shall or may be placed in said building, shall continue to be and remain absolutely the property of said party of the second part, and neither the said party of the first part nor the said 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 con-

tinuance of this agreement, submit to the said party of the first part, its successor or successors, a detailed printed report of the operations and transactions of the said party of the second part, and all its receipts and payments, for the year ending with the 31st day of December next preceding.

*Seventhly.*—That said party of the first part shall have, at all times, access to every part of the said building for general visitation and supervision, and also for the purpose of the performance of the duties devolved upon it by the laws of the State of New York, or of the City of New York. That the police powers and supervision of said party of the first part shall extend in, through and about said building. That the said party of the second part may appoint, direct, control and remove all persons employed within said building, and in and about the care of said building, and the museum, library and collections therein contained.

*Eighthly.*—That said party of the second part may, at any time, after the expiration of three, and before the expiration of six, months from the date of the service of a notice in writing to said party of the first part, its successor or successors, or to the Mayor of the City of New York, of its intention so to do, quit and surrender the said premises and remove all its property therefrom; and upon and after such notice, the said party of the second part shall and will, at the expiration of the said six months, quietly and peaceably yield up and surrender unto the said party of the first part and its successors all and singular the aforesaid demised premises. And it is expressly understood and agreed by and between the parties hereto that if the said party of the second part shall omit to do, perform, fulfill or keep any or either of the covenants, articles, clauses and agreements, matters and things herein contained, which on its part are to be done, performed, fulfilled or kept, according to the true intent and meaning of these presents, then and from thenceforth this grant and demise shall be utterly null and void. And in such case it shall and may be lawful for said Department to serve or cause to be served on the said party of the second part a notice in writing declaring that the said

grant hereinbefore made has become utterly null and void and thereupon the said party of the first part, its successor or successors (ninety days' time being first given to the said party of the second part to remove its property therefrom), may reënter, and shall again have, repossess and enjoy the premises aforementioned, the same as in their first and former estate, and in like manner as though these presents had never been made, without let or hindrance of the said party of the second part, anything here contained to the contrary notwithstanding.

*Ninthly.*—And it is further expressly understood and agreed, by and between the parties hereto, that this agreement may be wholly canceled and annulled, or, from time to time, altered, or modified, as may be agreed, in writing, between the said parties, or their successors, anything herein contained to the contrary in anywise notwithstanding.

*In witness whereof*, the party of the first part hath caused this agreement to be executed by their President and Secretary, pursuant to a resolution of the Board of Commissioners of said Department, adopted at a meeting held on the thirtieth day of January, in the year of our Lord one thousand eight hundred and seventy-eight; and the said party of the second part hath caused the same to be executed by their President, and their official seal affixed thereto, pursuant to a resolution of the Trustees of the American Museum of Natural History, adopted at a meeting held on the twelfth day of February, in the year of our Lord one thousand eight hundred and seventy-seven.

In presence of  
D. PORTER LORD.

JAMES F. WENMAN,  
*President Department of Public Parks  
of the City of New York.*

WILLIAM IRWIN,  
*Secretary Department of Public Parks  
of the City of New York.*

ROBERT L. STUART,  
*President American Museum of  
Natural History.*

SEAL  
of the American  
Museum of  
Natural History

STATE OF NEW YORK,                    }  
 City and County of New York,       } ss. :

On this 12th day of February, in the year 1878, before me personally came James F. Wenman, President of the Department of Public Parks of the City of New York, and William Irwin, Secretary of the said Department of Public Parks, with both of whom I am personally acquainted, and both of whom being by me duly sworn, said that they reside in the City and County of New York ; that the said James F. Wenman is the President, and the said William Irwin is the Secretary of the said Department of Public Parks, and that they signed their names to the foregoing agreement by order of the Board of Commissioners of the said Department of Public Parks, as such President and Secretary.

[SEAL.]

W. C. BESSON,  
 (73) *Notary Public N. Y. Co.*

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STATE OF NEW YORK,                    }  
 City and County of New York,       } ss. :

On this 12th day of February, in the year 1878, before me personally came Robert L. Stuart, the President of the American Museum of Natural History, with whom I am personally acquainted, who being by me duly sworn, said that he resides in the City and County of New York, that he is the President of the American Museum of Natural History, and that he knows the corporate seal of said museum, that the seal affixed to the foregoing agreement is such corporate seal, that it is affixed thereto by order of the Board of Trustees of said American Museum of Natural History, and that he signed his name thereto by the like order, as President of said Museum.

[SEAL.]

W. C. BESSON,  
 (73) *Notary Public N. Y. Co.*

Recorded in the office of the Register of the City and County of New York in Liber 1426 of Cons., page 402, February 16, A. D. 1878, at 9 o'clock A.M., and examined.

Witness my hand and official seal,

[SEAL.]

FREDERICK W. LOEW,  
*Register.*

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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.

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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, 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 who shall not be a "Patron" of the Museum, unless by a unanimous vote of a quorum of the Board, nor be



eligible 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 quarterly, on the second Monday of every February, May, August and 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 quarterly meeting in February, 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 I. The officers of said Corporation shall be a President, a First Vice-President, a Second Vice-President, a Treasurer and a Secretary. The President and Vice-Presidents shall be elected from among the Trustees. The Treasurer and Secretary may or may not be chosen from such 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, 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.

#### ARTICLE V.

SECTION 1. The President shall have a general supervision and direction over 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.

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.

SEC. 3. The Treasurer shall receive and disburse the funds of the Museum. He shall report in writing, at each quarterly 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.

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.

These accounts shall be under the care of an Assistant Treasurer, who 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.

SEC. 5. The offices of Secretary and Assistant Treasurer may be held by the same person.

#### ARTICLE VI.

The Executive Committee shall consist of nine Trustees, of whom the President, First and Second Vice-Presidents and Treasurer, in case he be a Trustee, shall be four, and five other members 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 to purchase, sell and exchange specimens and books, to employ agents, to regulate the manner and terms of exhibiting the Museum to the public, and generally to carry out in detail the directions of the Trustees; but the Executive Committee shall not incur any expense or liability for the Museum exceeding two thousand dollars at one time, or exceeding in all ten thousand dollars, in the interval between the quarterly meetings of the Trustees, without the express sanction of the Trustees. 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.

No bills shall be paid unless approved, in writing, by the President, the Chairman of the Executive Committee, or the Director.

#### ARTICLE VIII.

The Finance Committee shall consist of four Trustees, including the Treasurer in case he be a Trustee. 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.

## 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 five candidates to be elected by ballot at the said meeting.

## ARTICLE X.

The President shall be a member, *ex-officio*, of all standing committees.

## ARTICLE XI.

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 XII.

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 XIII.

The contribution of \$1,000 or more to the funds of the Museum, at any one time, shall entitle the person giving the same to be a Patron of the Museum, who shall have the right in perpetuity to appoint the successor in such patronship.

The contribution of \$500, at one time, shall entitle the person giving the same to be a Fellow, who 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.*

The contribution of \$100, at one time, shall entitle the person giving the same to be a Life Member.

Any person may be elected by the Trustees to either of 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, and the President and Secretary shall issue diplomas accordingly under the seal of the Museum.

The Trustees may also elect Honorary Fellows of the Museum in their discretion.

#### ARTICLE XIV.

Any person who has held the office of President for ten or more successive years may be elected by the Trustees as Honorary President for life.

#### ARTICLE XV.

No alterations shall be made in this Constitution, unless at a regular quarterly 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 alteration, embodying the amendment proposed to be made, having been given at a regular meeting.

## BY-LAWS.

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### I.

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 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.

[NOTE.—A Subscriber's Ticket admits to the laboratories and parts of the Museum not open to the public, 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 laboratories and parts of the Museum not open to the public, and are issued to Subscribers for distribution among friends and visitors.]

### II.

Any Trustee who shall fail to attend three consecutive Regular Quarterly Meetings of the Board shall cease to be a Trustee, unless excused by the Board.

### III.

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. Any desired additional expenditure shall first receive the approval of the Board of Trustees.

### IV.

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.

## V.

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.

## VI.

All bequests or legacies, not especially designated, 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.

## VII.

At such times as it may be impracticable to obtain the services of the members of the Auditing Committee, the members of the Executive Committee may act in their place and stead.



FOR THE EQUIPPING AND FINISHING OF THE  
BUILDING AND THE CONSTRUCTION OF  
ADDITIONS THERETO.

LEGAL ENACTMENTS OF 1905.

BY THE BOARD OF ALDERMEN.

AN ORDINANCE providing for an issue of Corporate Stock in the sum of five hundred thousand dollars (\$500,000), to provide means for the equipping and finishing of The American Museum of Natural History in Manhattan Square, Borough of Manhattan, and the construction of additions thereto.

Be it ordained by the Board of Aldermen of the City of New York as follows:

SECTION 1. The Board of Aldermen hereby approves of and concurs in the following resolution adopted by the Board of Estimate and Apportionment March 16, 1905, and authorizes the Comptroller to issue Corporate Stock of The City of New York to the amount and for the purposes therein specified:

"*Resolved*, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended by chapter 409 of the Laws of 1904, the Board of Estimate and Apportionment hereby approves of the issue of Corporate Stock of The City of New York, to an amount not exceeding five hundred thousand dollars (\$500,000), to provide means for the equipping and furnishing of The American Museum of Natural History in Manhattan Square, Borough of Manhattan, and the construction of additions thereto, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue Corporate Stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding five hundred thousand dollars (\$500,000), the proceeds whereof to be applied to the purposes aforesaid."

Adopted by the Board of Aldermen April 11, 1905, a majority of all the members elected voting in favor thereof.

Approved by the Mayor April 18, 1905. (Signed) P. J. SCULLY, *Clerk*.

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Contracts awarded to December 31, 1906.

For the erection of Fire Lines, Sprinkler System, Fire Escapes, etc.

Contract awarded R. J. F. Gerstle Company, November 26, 1905, \$19,838.

Completed January 11, 1907.

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For the erection and completion of a New Wing, to be known as the South Wing of the West Façade, and a Permanent Cellar Passageway running therefrom in northerly and easterly direction.

Contract awarded Guidone & Galardi, May 22, 1906, \$325,000.

APPROPRIATIONS AND EXPENDITURES MADE THEREON  
TO DECEMBER 31, 1907.

APPROPRIATION:

By Direct Appropriation.....	\$500,000 00	
Premium on Sale of Bonds.....	4,153 42	
		\$504,153 42

EXPENDITURES:

Museum Orders.....	\$25,023 64	
Carpenters' Payroll, etc.....	26,353 54	
Cady, Berg & See.....	6,935 71	
R. J. F. Gerstle Co.....	19,838 00	
Charles Volz, Architect's Fees....	991 89	
Guidone & Galardi,		
Payments to Dec. 31, 1907...	203,125 00	
Charles Volz, Architect's Fees	13,203 09	
Total Expenditures to Dec. 31, 1907,	\$295,470 87	

OUTSTANDING CONTRACTS:

Guidone & Galardi, balance.....	\$121,875 00	
Charles Volz, balance.....	3,046 91	124,921 91
		420,392 78
Available Balance Dec. 31, 1907.....		\$83,760 64

# LIST OF MEMBERS.

## PATRONS.

EDWARD D. ADAMS.  
JOHN ANDERSON.\*  
JAMES ANGUS.\*  
HICKS ARNOLD.\*  
RICHARD ARNOLD.\*  
WILLIAM H. ASPINWALL.\*  
JOHN JACOB ASTOR.\*  
WILLIAM WALDORF ASTOR.  
HUGH AUCHINCLOSS.\*  
BENJAMIN AYMAR.\*  
MRS. GUY ELLIS BAKER.  
A. H. BARNEY.\*  
D. N. BARNEY.\*  
JAS. GORDON BENNETT.  
FREDERICK BILLINGS.\*  
HEBER R. BISHOP.\*  
GEORGE BLISS.\*  
GEORGE T. BLISS.\*  
MISS SUSAN DWIGHT BLISS.  
WILLIAM T. BLODGETT.\*  
ROBERT BONNER.\*  
M. C. D. BORDEN.  
J. A. BOSTWICK.\*  
GEORGE S. BOWDOIN.  
GEORGE DEXTER BRADFORD.\*  
ALEX. H. BROWN, M.P.  
JAMES BROWN.\*  
MISS MATILDA W. BRUCE.  
HERMON C. BUMPUS.  
JOHN L. CADWALADER.  
JOSEPH H. CHOATE.  
EDWARD CLARK.\*  
JONAS G. CLARK.\*  
JAMES B. COLGATE.\*  
ROBERT COLGATE.\*  
FREDERICK A. CONSTABLE.\*  
MRS. FREDERICK A. CONSTABLE.  
JAMES M. CONSTABLE.\*  
GEORGE C. COOPER.\*  
PETER COOPER.\*  
AUSTIN CORBIN.\*  
ALEXANDER I. COTHEAL.\*  
JOHN D. CRIMMINS.  
JOHN J. CROOKE.

\* Deceased.

CORNELIUS C. CUYLER.  
W. M. DONGAN DE PEYSTER.  
L. P. DI CESNOLA.\*  
A. G. PHELPS DODGE.  
CLEVELAND H. DODGE.  
WILLIAM E. DODGE, 1st.\*  
WILLIAM E. DODGE, 2d.\*  
MRS. WILLIAM E. DODGE.  
ANDREW E. DOUGLASS.\*  
JOSEPH W. DREXEL.\*  
D. G. ELLIOT.  
MRS. M. SCHUYLER ELLIOT.  
JAMES R. ELY.  
Lieut. G. T. EMMONS, U.S.N.  
BENJAMIN H. FIELD.\*  
CYRUS W. FIELD.\*  
CYRUS W. FIELD, Jr.\*  
A. J. FORBES-LEITH.  
Prof. AUGUSTE FOREL.  
WILLIAM T. GARNER.\*  
ELBRIDGE T. GERRY.  
ROBERT W. GOELET.  
LUDWIG MAX GOLDBERGER.  
JOHN A. C. GRAY.\*  
WILLIAM A. HAINES.\*  
ANSON W. HARD.  
OLIVER HARRIMAN.\*  
HENRY O. HAVEMEYER.\*  
THEODORE A. HAVEMEYER.\*  
GEORGE G. HAVEN.  
GEORGE A. HEARN.  
ABRAM S. HEWITT.\*  
MRS. ABRAM S. HEWITT.  
VeryRev. E. A. HOFFMAN, D.D., LL.D.\*  
MRS. EUGENE A. HOFFMAN.  
SAMUEL V. HOFFMAN.  
ARCHER M. HUNTINGTON.  
C. P. HUNTINGTON.\*  
MRS. C. P. HUNTINGTON.  
B. H. HUTTON.\*  
B. T. BABBITT HYDE.  
Dr. FREDERICK E. HYDE.  
FREDERICK E. HYDE, Jr.  
JAMES H. HYDE.

ADRIAN ISELIN.\*  
 ADRIAN ISELIN, JR.  
 ARTHUR CURTISS JAMES.  
 D. WILLIS JAMES.\*  
 CHARLES M. JESUP.  
 MORRIS K. JESUP.  
 Mrs. MORRIS K. JESUP.  
 H. J. JEWETT.\*  
 J. TAYLOR JOHNSTON.\*  
 A. D. JUILLIARD.  
 JAMES R. KEENE.  
 GUSTAV E. KISSEL.  
 CHAS. G. LANDON.\*  
 CHARLES LANIER.  
 JAMES LENOX.\*  
 ADOLPH LEWISOHN.  
 Com. C. A. M. LIEBRECHTS.  
 JOSEPH F. LOUBAT.  
 SETH LOW, LL.D.  
 JOHN B. MARCOU.  
 PHILIPPE MARCOU.  
 EDWARD MATTHEWS.  
 FRANCIS O. MATTHIESSEN.\*  
 GEORGE B. MCCLELLAN.  
 Dr. EDGAR A. MEARNS, U.S.A.  
 HERMAN A. METZ.  
 D. O. MILLS.  
 J. PIERPONT MORGAN.  
 J. PIERPONT MORGAN, Jr.  
 HENRY FAIRFIELD OSBORN.  
 WM. CHURCH OSBORN.  
 Mrs. WM. H. OSBORN.\*  
 OSWALD OTTENDORFER.\*  
 JOHN E. PARSONS.  
 GEORGE FOSTER PEABODY.  
 Dr. WM. PEPPER.\*  
 I. N. PHELPS.\*  
 S. WHITNEY PHENIX.\*  
 HENRY CLAY PIERCE.  
 HENRY W. POOR.  
 PERCY R. PYNE.\*  
 PERCY R. PYNE.  
 J. HAMPDEN ROBB.  
 COLEMAN T. ROBINSON.\*  
 JOHN D. ROCKEFELLER.  
 JOHN D. ROCKEFELLER, Jr.

WM. ROCKEFELLER.  
 Col. ARCHIBALD ROGERS.  
 THEODORE ROOSEVELT.  
 WM. SCHAUS.  
 WILLIAM C. SCHERMERHORN.\*  
 JACOB H. SCHIFF.  
 HENRY SELIGMAN.  
 JESSE SELIGMAN.\*  
 EDWARD M. SHEPARD.  
 BENJAMIN B. SHERMAN.\*  
 WM. D. SLOANE.  
 JAMES BAKER SMITH.\*  
 CATHERINE L. SPENCER.\*  
 FREDERIC W. STEVENS.  
 D. JACKSON STEWARD.\*  
 A. T. STEWART.\*  
 JAMES STOKES.\*  
 J. G. PHELPS STOKES.  
 ALEXANDER STUART.\*  
 ROBERT L. STUART.\*  
 Mrs. ROBERT L. STUART.\*  
 APPLETON STURGIS.\*  
 Dr. ELIZABETH M. STURGIS.  
 Mrs. FRANK K. STURGIS.  
 JOHN T. TERRY, Jr.  
 Rev. RODERICK TERRY, D.D.  
 Mrs. F. F. THOMPSON.  
 EDWIN THORNE.  
 JOEL WOLFE THORNE.  
 JONATHAN THORNE.\*  
 JONATHAN THORNE.  
 Miss PHEBE ANNA THORNE.  
 SAMUEL THORNE.  
 VICTOR CORSE THORNE.  
 JOHN B. TREVOR.\*  
 JOHN B. TREVOR.  
 Mrs. JOHN B. TREVOR.  
 C. VANDERBILT.\*  
 GEO. W. VANDERBILT.  
 HAROLD GARRISON VILLARD.  
 HENRY VILLARD.\*  
 EDWIN H. WEATHERBEE.  
 WILLIAM C. WHITNEY.\*  
 RICHARD T. WILSON.  
 Miss C. L. WOLFE.\*  
 JOHN D. WOLFE.\*

\* Deceased.

## FELLOWS.

JOHN ALSTYNE.\*  
 SAMUEL P. AVERY.\*  
 CHARLES T. BARNEY.\*  
 THOMAS BARRON.\*  
 CORTLANDT FIELD BISHOP.  
 DAVID WOLFE BISHOP.  
 GEORGE BLISS.\*  
 ROBERT S. BREWSTER.  
 STEWART BROWN.\*  
 WM. LANMAN BULL.  
 JOHN L. CADWALADER.  
 JAMES C. CARTER.\*  
 CHARLES W. CASS.\*  
 GEORGE W. CASS.\*  
 Prof. CHAS. F. CHANDLER.  
 Mrs. GEO. W. COLLORD.  
 HANSON K. CORNING.\*  
 Mrs. RICHARD P. DANA.\*  
 ALFRED B. DARLING.\*  
 WM. EARL DODGE, 4th.  
 ABRAM DUBOIS.\*  
 CYRUS W. FIELD, Jr.\*  
 JOSIAH M. FISKE.\*  
 H. M. FLAGLER.  
 ROBERT GORDON.  
 GEORGE G. GRAY.\*  
 CHARLES W. GRISWOLD.\*  
 JAMES B. HAGGIN.  
 F. R. HALSEY.  
 Miss LAURA P. HALSTED.  
 WM. H. HARBECK.\*  
 SAMUEL HAWK.\*  
 Very Rev. E. A. HOFFMAN, D.D., LL.D.\*  
 H. B. HOLLINS.  
 MEREDITH HOWLAND.\*  
 SAMUEL N. HOYT.\*  
 D. B. IVISON.\*  
 CHARLES M. JESUP.  
 AYMAR JOHNSON.  
 JAMES H. JONES.

GOUVERNEUR KEMBLE.\*  
 ROBERT LENOX KENNEDY.\*  
 WHEATON B. KUNHARDT.  
 Prof. WILLIAM LIBBEY, JR.  
 A. A. LOW.\*  
 HENRY G. MARQUAND.\*  
 SAMUEL F. B. MORSE.\*  
 RICHARD MORTIMER, JR.  
 LEVI P. MORTON.  
 FRANCIS CHILD NICHOLAS, Ph.D.  
 LLOYD PHENIX.  
 PHILLIPS PHENIX.  
 HENRY W. POOR.  
 HOWARD POTTER.\*  
 O. B. POTTER.\*  
 Dr. WILLIAM W. RADLOFF.  
 MARSHALL O. ROBERTS.\*  
 JOHN D. ROCKEFELLER.  
 C. V. S. ROOSEVELT.\*  
 F. AUGUSTUS SCHERMERHORN.  
 H. M. SCHIEFFELIN.\*  
 Mrs. HARRIET L. SCHUYLER.  
 PHILIP SCHUYLER.\*  
 ELLIOTT F. SHEPARD.\*  
 JOHN SLOANE.\*  
 JOHN SNEDEN.\*  
 CHARLES D. STICKNEY.  
 Mrs. FRANK K. STURGIS.  
 RUTHERFORD STUYVESANT.  
 JOHN T. TERRY.  
 LEWIS S. THOMPSON.  
 JAMES THOMSON.\*  
 TIFFANY & CO.  
 LUCIUS TUCKERMAN.\*  
 H. MCK. TWOMBLY.  
 Gen. EGBERT L. VIELE, U.S.A.\*  
 THOS. A. VYSE, JR.  
 SAMUEL WILLETS.\*  
 Mrs. ROBERT WINTHROP.  
 R. A. WITTHAUS, M.D.

\* Deceased.

## LIFE MEMBERS.

ERNEST KEMPTON ADAMS.\*  
 C. R. AGNEW.  
 G. B. AGNEW.  
 JOHN E. ALEXANDRE.  
 Admiral ALEXIEFF.  
 RICHARD H. ALLEN.  
 BERNARD G. AMEND.  
 Mrs. BLANCHE L. ANDREWS.  
 CONSTANT A. ANDREWS.  
 FRANCIS R. APPLETON.  
 Mrs. MARTIN ARCHER-SHEE.  
 S. T. ARMSTRONG, M.D.  
 B. G. ARNOLD.\*  
 JOHN JACOB ASTOR.  
 J. T. ATTERBURY.  
 HUGH D. AUCHINCLOSS.  
 Miss FLORENCE AUDUBON.  
 Miss MARIA R. AUDUBON.  
 SAMUEL P. AVERY.\*  
 SAMUEL P. AVERY, Jr.  
 Mrs. JAMES C. AYER.\*  
 Miss E. AYMAR.  
 JAMES A. BAILEY.\*  
 JAS. MUHLENBERG BAILEY.  
 JOSEPH C. BALDWIN.  
 DAVID BANKS.  
 HENRY I. BARBEY.\*  
 Mrs. P. HACKLEY BARHYDT.  
 THOMAS BARING.  
 FORDYCE BARKER, M.D.\*  
 Miss CORA F. BARNES.  
 JOHN S. BARNES.  
 J. O. BARTHOLOMEW.\*  
 W. H. BEADLESTON.\*  
 GEORGE E. BELCHER, M.D.\*  
 BERTRAND F. BELL.  
 C. M. BELL, M.D.\*  
 DENNISTOUN M. BELL.  
 AUGUST BELMONT.  
 THEODORE BERDELL.\*  
 JOHN E. BERWIND.  
 SAMUEL R. BETTS.  
 Mrs. ALBERT BIERSTADT.  
 JOHN BIGELOW.  
 FREDERICK BILLINGS.

Miss MARY M. BILLINGS.  
 T. W. BLAKE.  
 Miss CATHERINE A. BLISS.  
 CORNELIUS N. BLISS.  
 CORNELIUS N. BLISS, Jr.  
 GEORGE BLUMENTHAL.  
 EDWARD C. BOHDE.  
 A. K. BOLAN.  
 GEORGE C. BOLDT.  
 FREDERICK G. BOURNE.  
 Mrs. WM. H. BRADFORD, Sr.  
 HENRI M. BRAEM.\*  
 BENJAMIN BREWSTER.  
 GEORGE S. BREWSTER.  
 WILLIAM BREWSTER.  
 CHAS. P. BRITTON.  
 ADDISON BROWN.  
 FRANK G. BROWN.\*  
 GEORGE H. BROWN.\*  
 GEO. MCKESSON BROWN.  
 JAMES M. BROWN.\*  
 J. HULL BROWNING.  
 Miss MATILDA W. BRUCE.  
 DAVID L. BRUCE-BROWN.  
 R. L. BURTON.  
 JOSEPH BUSHNELL.  
 THOMAS C. BUSHNELL.\*  
 B. H. BUXTON.  
 JOHN L. CADWALADER.  
 Mrs. ALEX. CAMERON.  
 Miss KATHARINE L. CAMMANN.  
 CHAS. M. CAULDWELL, M.D.  
 ISAAC P. CHAMBERS.\*  
 C. W. CHAPIN, Jr.  
 Mrs. GEO. H. CHATILLON.  
 HENRY CHAUNCEY.  
 J. E. CHILDS.  
 HUGH J. CHISHOLM.  
 E. DWIGHT CHURCH.  
 FREDERIC E. CHURCH.\*  
 JAMES A. CHURCH.  
 LESTER B. CHURCHILL.  
 AUGUSTUS L. CLARKSON.  
 BANYER CLARKSON.  
 GEORGE C. CLAUSEN.

\*Deceased.

CHAS. D. CLEVELAND.  
 TREADWELL CLEVELAND.  
 HENRY CLEWS.  
 W. R. COE.  
 CHARLES L. COLBY.\*  
 W. W. COLE.  
 BIRD S. COLER.  
 EDWARD COLGATE.\*  
 WILLIAM COLGATE.  
 Miss GEORGETTE T. A. COLLIER.  
 Miss ELLEN COLLINS.  
 SAMUEL D. COLLINS.  
 GEORGE W. COLLORD.  
 Mrs. WILLIAM COMBE.  
 FRED. H. COMSTOCK.  
 WASHINGTON E. CONNOR.  
 CHARLES H. CONTOIT.\*  
 WM. L. CONYNGHAM.  
 HENRY H. COOK.\*  
 EDWARD COOPER.\*  
 THEODORE COOPER.  
 JOHN J. CORNING.  
 Mrs. SALLY MORRIS CORY.  
 ALEX. I. COTHEAL.\*  
 Miss ELLEN H. COTHEAL.  
 DAVIES COXE, M.D.  
 S. D. COYKENDALL.  
 ZENAS CRANE.  
 FREDERIC CROMWELL.  
 JAMES CRUIKSHANK.\*  
 CHAS. M. DA COSTA.\*  
 A. DALRYMPLE.\*  
 BENJAMIN P. DAVIS.\*  
 EDMUND W. DAVIS.  
 CHAS. STEWART DAVISON.  
 HENRY J. DAVISON.\*  
 THOMPSON DEAN.\*  
 E. J. DE COPPET.  
 GEORGE B. DE FOREST.  
 S. DEJONGE.  
 ALBERT DELAFIELD.  
 HENRI DECKERT DE LA MEILLAIE.  
 EUGENE DELANO.  
 J. H. DE MOTT.\*  
 WILLIAM DEMUTH.

Gen. J. WATTS DE PEYSTER.\*  
 HENRY A. C. DE RUBIO.  
 F. W. DEVOE.  
 ANTHONY DEY.  
 W. B. DICKERMAN.  
 J. W. DIMICK.  
 CLEVELAND H. DODGE.  
 NORMAN W. DODGE.\*  
 PETER DOELGER.  
 PETER DONALD.  
 E. J. DONNELL.\*  
 JAMES DOUGLAS.  
 ANDREW E. DOUGLASS.\*  
 Mrs. HENRY DRAPER.  
 Miss ETHEL DU BOIS.  
 WILLIAM A. DU BOIS.  
 R. G. DUN.\*  
 WM. BUTLER DUNCAN.  
 EDWARD K. DUNHAM.  
 JAMES H. DUNHAM.\*  
 GEO. ELSWORTH DUNSCOMBE.  
 THOMAS T. ECKERT, Jr.  
 Mrs. DAVID S. EGGLESTON.  
 GEORGE EHRET.  
 CARL EICKEMEYER.  
 SAMUEL ELLIOTT.  
 AMBROSE K. ELY.\*  
 AMOS F. ENO.  
 Dr. HENRY C. ENO.  
 WM. P. ENO.  
 ALLEN W. EVARTS.  
 Mrs. ERNEST A. FAIRCHILD.  
 EDWARD J. FARRELL.  
 Rev. Dr. HENRY FERGUSON.  
 CORTLANDT DE PEYSTER FIELD.  
 JOHN FITCH.\*  
 WM. L. FLANAGAN.\*  
 Prof. A. E. FOOTE.\*  
 JAMES B. FORD.  
 JAMES FRASER.\*  
 C. LINCOLN FREE.  
 FRANCIS P. FREEMAN.\*  
 SETH BARTON FRENCH.  
 GEORGE GARR.\*  
 E. H. GARY.

\*Deceased.



I. E. GATES.  
 WILLIAM H. GEBHARD.\*  
 THEODORE K. GIBBS.  
 PARKE GODWIN.\*  
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 Elliott, Mrs. George  
 Ellis, John W.  
 Ellis, Wm. D.  
 Ellis, W. H.  
 Ely, Frederick G.  
 Emanuel, John H., Jr.  
 Embury, Miss Emma C.
- Emery, Charles G.  
 Emmet, C. Temple  
 Emmet, Miss Lydia F.  
 Emmet, Robert Temple  
 Engler, Ad.  
 Eno, John Chester  
 Erbsloh, R.  
 Erdmann, Martin  
 Erstein, Leopold  
 Ettlinger, Louis  
 Evans, Richard  
 Evans, William T.
- Fabbri, Ernesto G.  
 Fahnestock, H. C.  
 Faile, Chas. V.  
 Fairchild, Benjamin T.  
 Fairchild, Charles S.  
 Fairchild, S. W.  
 Fargo, James C.  
 Farnham, Mrs. H. P.  
 Farragut, Loyall  
 Fatman, Morris  
 Fay, Sigourney W.  
 Fearons, George H.  
 Ferguson, Alfred L.  
 Ferguson, Mrs. Farquhar  
 Ferris, Frank A.  
 Field, Wm. B. Osgood  
 Fischer, T. Tasso  
 Fischer, William H.  
 Fisher, L. G.  
 Fisher,  
     Mrs. May Valentine  
 Flagler, Harry Harkness  
 Flint, Dr. Austin, Jr.  
 Flint, Chas. R.  
 Flower, A. R.  
 Flower, Frederick S.  
 Fohr, Franz  
 Follmer, Charles J.  
 Foos, Mrs. Lamar  
 Foot, Miss Katharine  
 Fordyce, Dr. John A.  
 Forster, Wm.  
 Forsyth, Robert

- Foster, Edward W.  
 Foster, J. Hegeman  
 Foster, Scott  
 Frankenberg, W. V.  
 Frankfield, A.  
 Fraser, Alfred  
 Fraser, Mrs. Geo. S.  
 Fraser, Miss J. K.  
 Freedman, Andrew  
 French, Daniel C.  
 French, S. A.  
 Fried, Samson  
 Friedlander, Louis  
 Fries, Miss Emilie  
 Frissell, A. S.  
 Frye, Jed  
 Fuld, Felix  
 Fuller, Mrs. Eugene  
 Furst, Arnold S.
- Gade, W. F.  
 Gannon, F. S.  
 Gardin, John E.  
 Gardiner, James T.  
 Gartland, George E.  
 Garver, John A.  
 Gaunt, James  
 Gawtry, H. E.  
 Gay, Joseph E.  
 Geer, George J.  
 Geer, Robert C.  
 Geer, Walter  
 Gerard, Victor  
 Gerrish, Frank Scott  
 Gibney, V. P.  
 Gilbert, Clinton  
 Gillies, Edwin J.  
 Gillies, John S.  
 Gilmore, W. S.  
 Glatz, Charles  
 Glazier, Henry S.  
 Goadby, W. H.  
 Goddard, F. N.  
 Godfrey, Mrs. E. D.  
 Godkin, Mrs. E. L.  
 Goebel, Lewis S.
- Goldschmidt, Geo. B.  
 Goldschmidt, S. A.  
 Goodchild, John  
 Goodfriend, Jacob  
 Goodfriend, Meyer  
 Goodhue, Charles E.  
 Gottheil, Paul  
 Gould, Chas. W.  
 Gould, Edwin  
 Gould, Miss Helen M.  
 Grace, Mrs. L. A.  
 Graham, Robert Dun  
 Grant, R. Suydam  
 Graves, Wm. Leon  
 Greeff, Bernhard, Jr.  
 Greeff, Ernest F.  
 Greenhut, Benedict J.  
 Greenwood, Isaac J.  
 Greer, Charles  
 Gregory, Charles  
 Gregory, Chas. E.  
 Gregory, E. C.  
 Griffin, Mrs. W. P.  
 Griffith, Daniel J.  
 Griggs, George  
 Grinnell, George Bird  
 Griscom, C. A., Jr.  
 Griswold, Chester  
 Griswold, Mrs. Chester  
 Guggenheim, Simon  
 Guggenheim, William  
 Guinzburg, A. M.  
 Gulliver, William C.  
 Gundlach, C.  
 Gutmann, Carl
- Haber, Louis I.  
 Hague, James D.  
 Haines, Charles D.  
 Haines, Henry F.  
 Hale, Thomas  
 Hall, Mrs. John H.  
 Hall, W. H.  
 Halls, William, Jr.  
 Halsey, Frederick A.  
 Halsey, John R.
- Halsey, R. T. H.  
 Halsted, James M.  
 Halsted, Miss Mary M.  
 Hamburger, L.  
 Hamburger, Samuel B.  
 Hamersley, Miss K. L.  
 Hamersley, Louis G.  
 Hamilton, E. Horace  
 Hamilton, Miss E. S.  
 Hamlen, Dr. Geo. D.  
 Hammond, James B.  
 Hance, John A.  
 Hansen, Martin C.  
 Harbeck, Chas. T.  
 Hard, Mrs. Anson W.  
 Hardenbergh, T. E.  
 Harding, H. M.  
 Hardley, J. Wheeler  
 Hare, J. Montgomery  
 Harkness, Edward S.  
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 Harris, Mrs. Robert  
 Hartley, Mrs. Marcellus  
 Hartshorn, Stewart  
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 Hasslacher, Jacob  
 Hastings, Thos. S.  
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 Havemeyer, J. C.  
 Havemeyer, John F.  
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 Hawke, Madison G.  
 Hawley, Edwin  
 Hazen, George H.  
 Hecht, George J.  
 Hecksher, John G.  
 Hedges, James  
 Hedges, Job E.  
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 Heineman, Moses

- Heinsheimer, L. A.  
 Heinze, Arthur P.  
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 Hendricks, Francis  
 Hendricks, Harmon W.  
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 Herbert, William  
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 Hershheim, Joseph  
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     Miss Amelia B.  
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     Miss Augusta D.  
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 Howell, M. D.  
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 Hoyt, Gerald L.  
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     John J., M.D.  
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 Humphreys, George H.  
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 Iselin, Wm. E.  
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 Kemp, Edward

- Kemp, Mrs. Edward  
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 Kenyon, William H.  
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 Kimball, Alfred R.  
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 Kimbel, Henry  
 King, Edward  
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 Kohn, Theo. A.  
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     Woodbury G., Jr.  
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 le Duc, Mrs. Janvier  
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 Legg, George  
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 Leigh, B. W.  
 Leighton, George B.  
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 Lemp, Louis  
 Leshner, A. L.  
 Leupp, Wm. H.  
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 Levi, Albert A.  
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 Levi, Emil S.  
 Levine, Julius  
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 Levy, Mitchell A. C.  
 Lewis, Frederic E.  
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 Lewisohn, Albert  
 Libbey, O. B.  
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 Lisman, Frederick J.  
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 Livingston, Wm. S.  
 Lloyd, Francis G.  
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 Locke, Charles E.  
 Lockman, John T.  
 Lockwood, W. B.  
 Loeb, James  
 Loewi, Valentine  
 Loewy, Benno  
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 Lord, Mrs. Geo. deForest  
 Loring, D. A.  
 Lorsch, Henry  
 Louis, Chas. H.  
 Lounsbury, R. P.  
 Lovejoy, A. B.  
 Low, C. Adolphe  
 Low, Ethelbert I.  
 Lowell, Miss C. Russell  
 Löwengard, Otto  
 Ludington, C. H.  
 Ludlow, James B.  
 Lueder, A.  
 Lummis, Benjamin R.  
 Lummis, Wm.  
 Lusk, Miss Anna H.  
 Lüttgen, Walther  
 Lyall, Arthur V.  
 Lyman, Henry D.  
 Lyon, Ralph  
  
 Maas, Gustavus

- Mabon, J. B.  
 MacDougall, George R.  
 Mack, Arthur J.  
 Mack, J. W.  
 Mackay, G. D.  
 Mackenzie, Duncan E.  
 Mackey, Oscar T.  
 MacVeagh, Charles  
 Macy, F. H., Jr.,  
 Macy, George H.  
 Macy, Wm. H., Jr.  
 Mager, F. Robert  
 Mahl, Wm.  
 Mallory, Charles  
 Manierre, Charles E.  
 Mann, W. D.  
 Mansbach, E.  
 Mansfield, Howard  
 Marbury, Miss E.  
 Marc, Theophilus M.  
 Mark, Jacob L.  
 Markle, John  
 Markoe, J. W.  
 Marling, Alfred E.  
 Marlor, Henry S.  
 Maron, Otto  
 Marsh, C. P.  
 Marsh, J. A.  
 Marshall, Charles H.  
 Marston, Edgar L.  
 Marston, Edwin S.  
 Martin, E. Howard  
 Martin, W. M.  
 Martin, Wm. V.  
 Martinez, M. R.  
 Marvin, Charles D.  
 Massey, George  
 Mastin, J. Edward  
 Matheson, Wm. J.  
 Mathews, Frank S.  
 Mathews, Thomas  
 Maxwell, John R., Jr.  
 Mayer, Marcus  
 Maynard, George W.  
 McAleenan, Henry A.  
 McAlpin, Dr. D. H., Jr.
- McAlpin, George L.  
 McBean, Duncan D.  
 McCagg, Louis B.  
 McCosh, Dr. A. J.  
 McCready, Mrs. C. A.  
 McGovern, James  
 McGraw, James H.  
 McIndoe, Peter W.  
 McIntyre, Ewen  
 McIntyre, John G.  
 McKelvey, J. J.  
 McKenney, Henry P.  
 McKenzie, Angus  
 McKeon, John C.  
 McKibbin, Gilbert H.  
 McKim, Rev. Haslett  
 McKim, John A.  
 McLane, Jas. W., M.D.  
 McLean, George H.  
 McMahan, Rev. Jos. H.  
 McNaughton, Alex.  
 McWilliams, D. W.  
 Meigs, Titus B.  
 Melcher, John S.  
 Mellen, C. S.  
 Meloy, Andrew D.  
 Meredith, Wm. T.  
 Merriam, James S.  
 Messenger, H. J.  
 Meyer, Dr. Alfred  
 Meyer, Amandus  
 Meyer, George A.  
 Meyer, Harry J.  
 Meyer, Robert B.  
 Meyer, Thomas C.  
 Meyn, Heinrich  
 Middleton, A. D.  
 Milbank, Joseph  
 Milburn, John G.  
 Mildeberger, Mrs. John  
 Milholland, John E.  
 Miller, A.  
 Miller, D. S.  
 Miller, Geo. Macculloch  
 Miller, Peyton F.  
 Mills, John T., Jr.,
- Mitchell, Alfred  
 Mitchell, A. M.  
 Mitchell, Cornelius B.  
 Mitchell, John J.  
 Mitchill, Miss M. E.  
 Moffat, George Barclay  
 Montross, N. E.  
 Moore, Mrs. W. D.  
 Moore, W. H. Helme  
 Morewood, George B.  
 Morgan, Miss Annie T.  
 Morgan, Miss Caroline L.  
 Morgan, George H.  
 Morgan, Miss Ursula J.  
 Morgenthau, Henry  
 Morgenthau, Mrs. M. L.  
 Morningstar, J.  
 Morris, Mrs. A. Newbold  
 Morris, Miss E. Van C.  
 Morris, Henry Lewis  
 Morris, John  
 Morris, Theo. Wilson  
 Morrison, Edward A.  
 Morrison, George A.  
 Morse, James R.  
 Morton, Quincy L.  
 Mott, Henry C.  
 Müller, Carl  
 Muller, Mrs. Clemens  
 Müller, Robert, Jr.  
 Mulry, Thomas M.  
 Munsey, Frank A.  
 Munson, C. W.  
 Murray, F. W., M.D.  
 Murray, J. Irvin, Jr.  
 Murtha, Thomas F.  
 Muschenheim, Wm. C.  
 Myers, Chas. A.  
 Myers, J. G.  
 Myers, L.  
 Myers, Theodore W.
- Nash, E. S.  
 Nash, Wm. A.  
 Nathan, Frederick  
 Nathan, Harmon H.

- Nelson, Mrs. S. B.  
 Neuburger, David  
 Neustadt, S.  
 Newbury, Andrew J. B.  
 Newton, James S.  
 Nichols, George L.  
 Nichols, John W. T.  
 Nichols, Seth  
 Ninick, Mrs. A. K.  
 Norris, Henry D.  
 Norris, Henry S.  
 North, Thomas M.  
 Norton, Ex.  
 Notman, George  
 Noyes, Mrs. Henry D.  
 Nugent, Frank L.  
 Nunn, Richard J., M.D.
- Oakes, Francis J.  
 Obermeyer, Jos.  
 Oberndorf, David  
 O'Brien, J. M.  
 Obrig, Adolph  
 Ochs, Adolph S.  
 Oettinger, P. J.  
 Ogden, Robert C.  
 Olcott, E. E.  
 Olcott, F. P.  
 Olcott, Geo. M.  
 Oldham, J. L.  
 Olds, E. A., Jr.  
 Olin, S. H.  
 Ollive, Thos. S.  
 Olyphant, R. M.  
 Olyphant, Robert  
 Opdycke, Mrs. Emerson  
 Oppenheimer, Dr. H. S.  
 O'Rourke, John F.  
 Orr, Wm. C.  
 Ortgies, John  
 Orvis, Edwin W.  
 Osterholt, Ehler  
 Ottinger, Marx  
 Ottman, Louis  
 Oudin, Lucien  
 Owens, Wm. W.
- Paddock, Charles H.  
 Paddock, Eugene H.  
 Page, Wm. H.  
 Painter, H. McM.  
 Palmer, John S.  
 Palmer, N. F.  
 Palmer, S. S.  
 Parker, Forrest H.  
 Parker,  
     Mrs. Henrietta M.  
 Parker, Robert A.  
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 Parrish, James C.  
 Parsell, Henry V. A.  
 Parsons, Mrs. Edwin  
 Parsons, Herbert  
 Parsons, Schuyler L.  
 Paterson, R. W.  
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 Paton, Wm. Agnew  
 Patterson, Edward  
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 Pearson, F. S.  
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 Pell, Stephen H. P.  
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 Penniman, George H.  
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 Peoples, W. T.  
 Perkins, George W.  
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 Perry, Chas. J.  
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 Peters, Edward McClure  
 Peters, Samuel T.  
 Peterson,  
     Frederick, M.D.  
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 Pfender, W. S.  
 Phelps, Mrs. Anson G.
- Phelps, Geo. B.  
 Philbrick, E. C.  
 Philipp, Philip B.  
 Phillips, Guy  
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 Pickering, Henry G.  
 Pickhardt, Carl  
 Piel, Gottfried  
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 Pierce, Robert Morris  
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 Piva, Celestino  
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 Platzek, M. Warley  
 Plaut, Albert  
 Plaut, Joseph  
 Plympton, Gilbert M.  
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 Pope, Sylvester  
 Porter, Eugene H.  
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 Post, Abram S.  
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 Purdy, Wm. Macneven  
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- Pyle, Jas. Tolman  
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 Richard, Oscar L.  
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 Robertson, R. H.  
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 Rogers, Allen Merrill  
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 Roosevelt, W. Emlen  
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 Rowell, George P.  
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 Schafer, Samuel N.  
 Schaller, Otto  
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 Seligman, George W.  
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     Mrs. Theodore  
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 Wilson, Henry R.  
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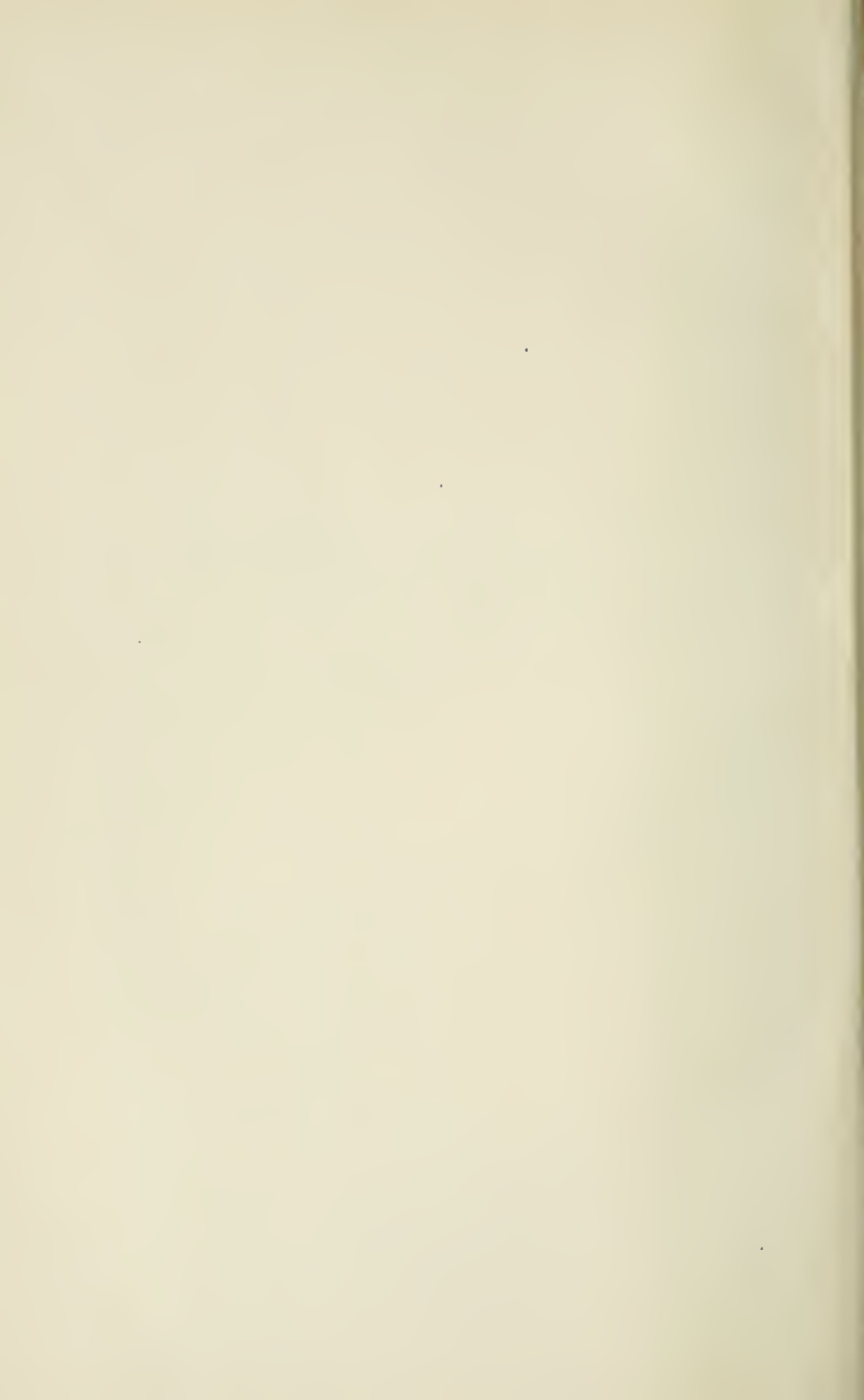
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| Wing, John D.         | Wood, Mrs. John D.   | Young, Edward L.     |
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THE AMERICAN MUSEUM OF  
NATURAL HISTORY

INCORPORATED IN 1869





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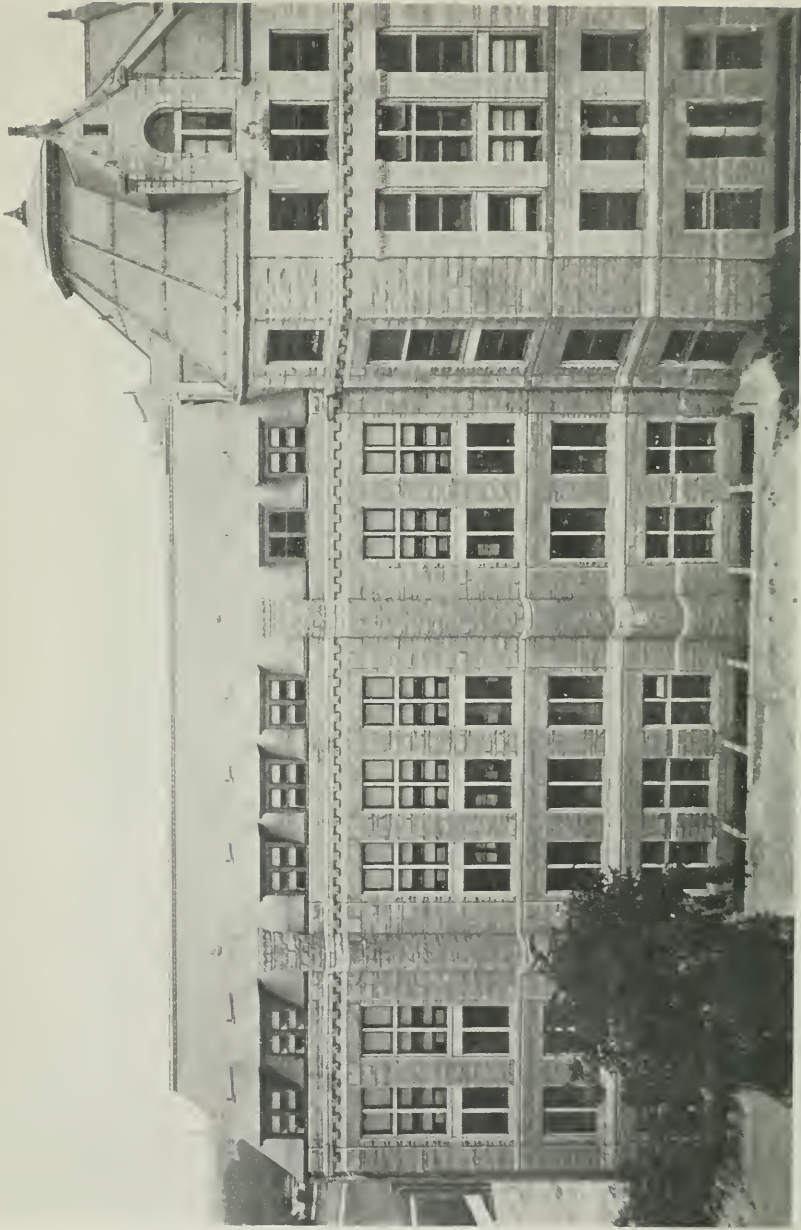
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FORTIETH ANNUAL REPORT  
OF  
THE AMERICAN MUSEUM  
OF NATURAL HISTORY

FOR THE YEAR 1908

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Annual Report of the President  
Treasurer's Report                      List of Accessions  
   Act of Incorporation  
Contract with the Department of Parks  
Constitution                      By-Laws and List of Members



NEW YORK  
ISSUED MAY 1, 1909

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FOR 1909

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GEORGE F. KUNZ, A.M., Ph.D., Honorary Curator of Gems

SCIENTIFIC STAFF FOR 1909—*Continued*

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A WESTERN GREBE COLONY. Reproduced from studies made at Crane Lake, Saskatchewan, by Frank M. Chapman and Louis Agassiz Fuytes. (North American Ornithology Fund)



## FORTIETH ANNUAL REPORT

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*To the Trustees and Members of The American Museum of Natural History, and to the Municipal Authorities of the City of New York:*

The President submits herewith a report of the progress of the Museum during the year 1908.

Forty years ago\* the Museum was incorporated and thirty-three† years ago the Trustees entered upon the development of an institution of national scope on Manhattan Square, a location ideally suited to the purpose. Under the successive administrations of John David Wolfe and Robert L. Stuart, and especially under the creative mind of Morris K. Jesup, the original conception of the Museum has constantly widened, until now the two grand objects for which it should exist are firmly established, namely:

1. PUBLIC EDUCATION IN NATURAL SCIENCE
2. RESEARCH, EXPLORATION, PUBLICATION

Our system of education (pp. 18 to 26), in the Museum Exhibition and Lecture halls, and through what may be called *Museum Extension* to the Schools and Libraries, has reached 1,674,272 adults and young during the past year. It more than justifies the expenditure of the public funds devoted to the erection and maintenance of the building. But the life and spirit of education are all drawn from the same source, namely, the scientific work of the Museum. Without this incessant activity of its own, which is entirely supported by private funds, the Museum would be dependent on other scientific bodies, whereas, it is a living center which, without exaggeration, may be said to reach every part of the world. To support this twofold object, our present Endowment Fund of \$2,048,156.61 must be increased to \$5,000,000, and, within a few years, to a larger sum.

The future *scope of exhibition* is a matter which has been given very careful thought during the past year and will soon

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\* April 6, 1869  
† April 22, 1876

be presented in a special report. All museums appear to have begun, like ours, with collections of minerals and of stuffed mammals and birds. We have now grown into the broader spirit that the part of the Museum is to join with the entire educational system of the city and country by presenting for objective teaching *all of Nature in all its aspects, including the native and prehistoric races of men.* Only where history and art begin our part ceases and that of the Museum of Art begins. It is thus within the province of an ideal Natural History Museum to include the following subjects and divisions of science, as stated in an elementary way:

THE HEAVENS. Astronomy, The Solar System, Meteorites, etc.

THE EARTH. Geography, Physiography, Geology and Mineralogy.

THE SEA. Thalassography, Chemistry and Physics of the Sea.

LIFE. The Present (Zoölogy) and Past (Palæontology) History of Animal Life on the Earth.

FORESTRY AND FOREST CONSERVATION. This, with the Jesup Wood Collection, is the only invasion of the science of Botany.\*

MAN. Present and Past History of Man (Anthropology—Ethnology and Archæology of the Non-historic Races); also the life history of the lower animals and plants which peculiarly affect man.

Beginnings have been made in several of these newer subjects, not heretofore embraced in the plans of Museums of Natural History, such as Astronomy (see p. 18) and Geography, and the amount of service which these exhibitions have rendered to the public encourages their entry as part of the great plan of the development of the Museum during the next twenty years. Berlin has a Museum entirely devoted to Thalassography. Physical Geography is a subject which will connect both with the life exhibitions of the Museum and with the studies of the school.

The *exhibition methods* of the Museum are frankly and chiefly for public and higher education. The average visitor,

---

\* A science belonging properly to the New York Botanical Garden

the school, the college and the university student are constantly in the mind of the Director and of each Curator in the arrangement of the exhibition halls. The needs of the specialist are also met so far as practicable, but the investigator, who must compare and study large numbers of duplicate specimens, is referred to the reserve and study collections, which are absolutely open to all duly qualified persons.

## I. ADMINISTRATION AND EDUCATION

Although since the foundation of the Museum the City has contributed generously for its support, it has been without direct official representation on the Board. The Trustees desire that the City officials should have a more intimate knowledge of the methods of administration and of the plans for the future. Accordingly the Constitution has been so amended that henceforth the Mayor of the City of New York, the Comptroller and the President of the Department of Public Parks are *ex-officio* members of the Board.

Every effort has been made to continue the policy and to expand the work that was wisely begun by the founders of the Museum and so ably conducted by those who have directed its growth. The fact that other cities are now establishing museums of science and education similar to the American Museum, and are frequently sending delegates to investigate its methods, plan and scope, are reasons for our belief in the real value to the community of an institution of this character.

As a fitting memorial to the late President Jesup, for his untiring devotion to the interests of the Museum, the Trustees are having prepared a marble statue of heroic size, which is to be placed in the Foyer. The statue is being executed by the sculptor, Mr. William Couper, and its cost has been met by the personal contributions of the Trustees and other friends.

**BUILDING.**—The new wing on Columbus Avenue (South Section of the West Façade) was finished early in June and was duly accepted by the City.

Early in the year plans and specifications were prepared for the construction of a service roadway on the Columbus Avenue side of the new wing, but owing to the unavailability

of the balance of the building appropriation, the contract has not been let. The need of this roadway is imperative and it should be the first piece of new construction undertaken, as, under present conditions, the delivery of our coal and heavy freight is both difficult and expensive.

For the better protection of the buildings and collections, two fire alarm boxes, giving direct connection with Fire Headquarters, have been installed, one at the Bureau of Information, the other in the Lecture Hall, and a system of night-watchmen's telephones has been put in operation. Telephones have been installed in remote parts of the building and at all important intermediate centers. The watchmen in their rounds are required to report by telephone to the Central Office according to a definite schedule.

### PUBLIC EDUCATION

ATTENDANCE.—For the first time in the history of the Museum the attendance has exceeded the million mark, 1,043,582 visitors having been recorded for the year. While the International Tuberculosis Exhibition, held during December, was largely responsible for this increase in the attendance, the number of visitors that came to the Museum for other purposes was greater than in any preceding year and indicates a steady growth of popular interest in the institution.

PUBLIC LECTURES.—The Lectures given under the auspices of the Board of Education, the New York Academy of Sciences and Affiliated Societies and other organizations were attended by 82,718; the pupils attending the special talks given by Mrs. Roesler numbered 3,576.

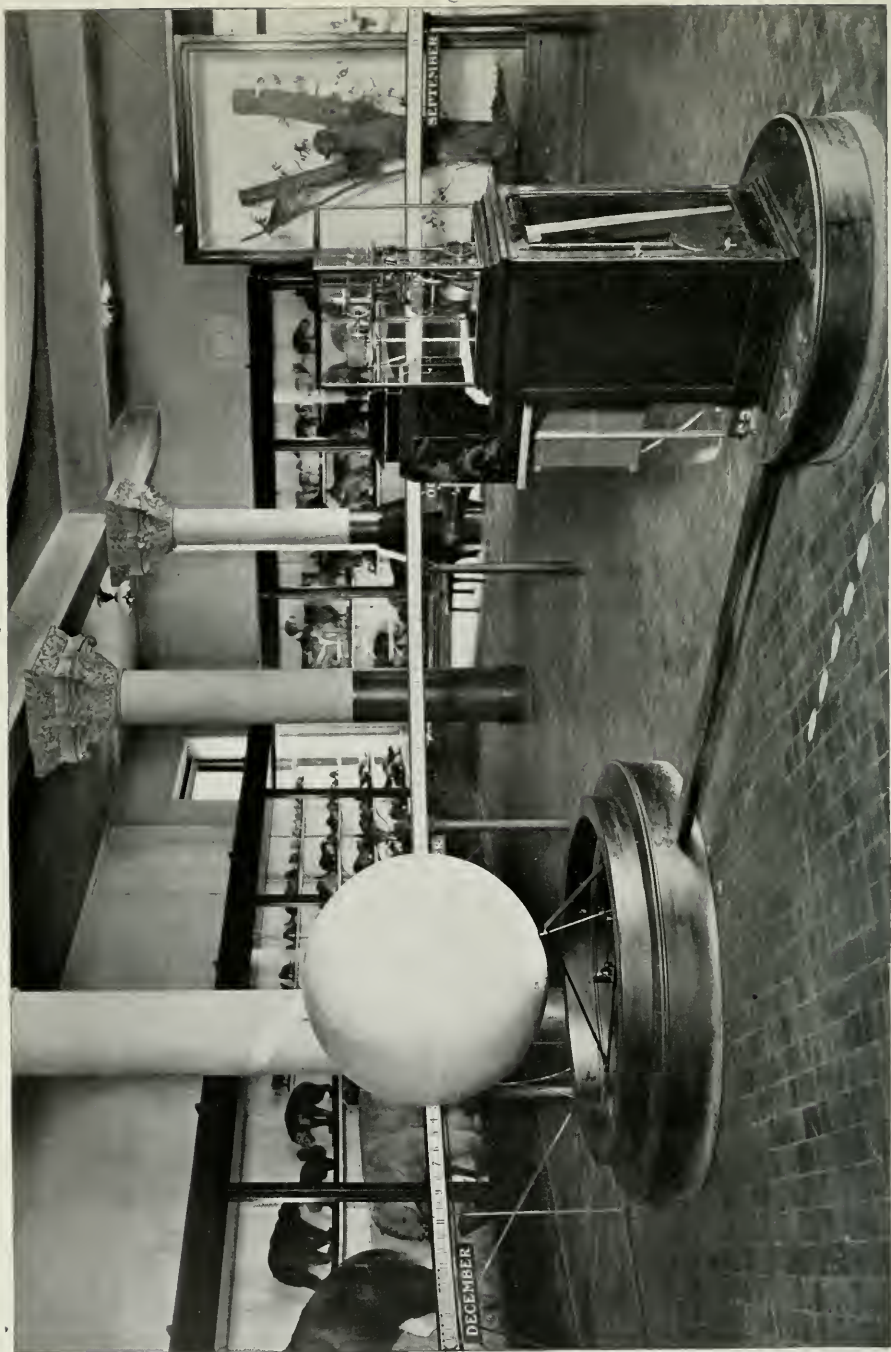
The attendance at the two courses of regular lectures for school children was 22,931 pupils.

The teachers of the public and private schools are utilizing more and more the general exhibition collections in order to illustrate their lessons in history, geography and science. The records show that 10,387 pupils visited the Museum in this connection.

ASTRONOMIC EXHIBITS.—In a previous report mention was made of an installation in the Foyer of the Museum representing the Solar System. This exhibit has been so modified







CENTRAL HALL OF MAIN FLOOR. Mechanical device illustrating the diurnal and annual motions of the Earth

that its general interest and instructive value have been much increased. The sun is represented by an illuminated globe three inches in diameter, while minute incandescent bulbs of proper comparative size are suspended at relative distances from the sun and correspond to the various planets. The orbit of each planet is shown by means of a thin metal strip, on which is indicated the space traversed by the earth for each day of the year.

On the second floor has been placed a model illustrating the diurnal and annual movements of our planet. The light and heat of the sun are represented by a strong beam of light focused on the earth by means of a stereopticon lantern. The earth is shown by a globe four feet in diameter, which makes a yearly revolution in its orbit, following the months indicated on a railing which lies in and marks the plane of the ecliptic. The earth, moreover, rotates on its own axis, making one revolution a day. Clockwork, regulated by a pendulum that swings once every second, controls the movements of the model and the directions of rotation and revolution. The location of the earth in its orbit on any day of the year and the inclination of the earth's axis are represented as they occur in the heavens.

These two exhibits are an attempt to illustrate a branch of science which heretofore has not been included within the scope of the Museum, but the interest taken in the models by the general visitor and the practical use made of them by teachers are sufficient evidence that in the future development of the Museum this work might be extended and a hall devoted exclusively to the science of cosmology.

MUSEUM EXTENSION TO THE SCHOOLS.—This work is carried on under our Department of Public Instruction. By many teachers the nature-study collections, regularly distributed by the Museum, are regarded as indispensable adjuncts to their equipment for teaching, and when it is taken into consideration that the collections are loaned only on application of the teacher, the following statistics may be taken as an indication of the direct utility of this branch of work.

During the year, 484 cabinets have been in circulation; practically every month 383 schools in Greater New York



have been supplied, and a total of 575,801 pupils have used the collections. Besides filling the requests of the regular schools, each of the vacation schools (27 in number) has been supplied with these collections, 54,889 children having been reached in this way.

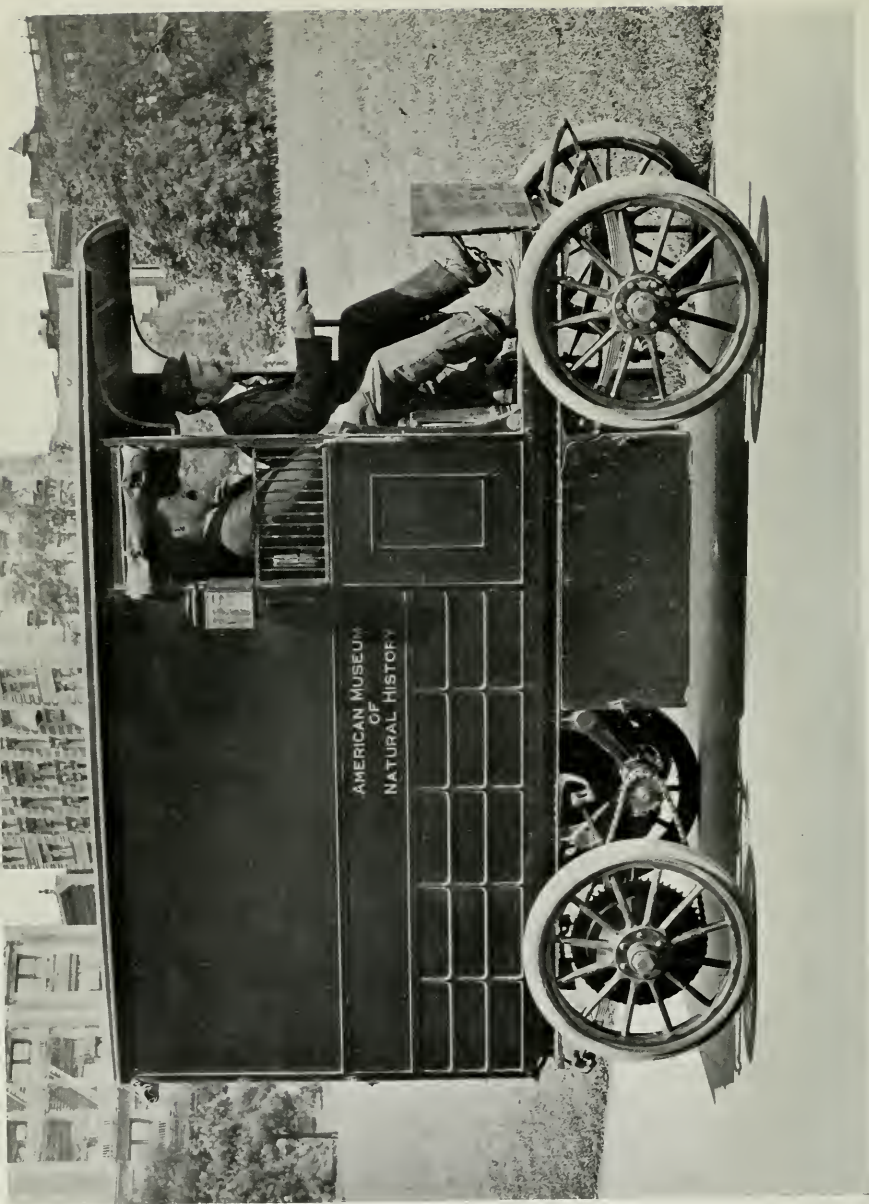
Of more than passing interest is the system of placing small but attractive collections in some of the branch libraries, made as an experiment last year through coöperation with Miss Moore, Supervisor of Children's Libraries.

The collections are designed to stimulate the reading of good books relating to the subjects which the specimens are intended to illustrate. The material is selected with due regard to the general character of the district in which the library is located. The results in some instances have been most striking. An Eskimo exhibit was placed in a branch library on the lower West Side. In less than four weeks the calls for Arctic books increased from 0 to 400. We desire to extend this work.

Increased demands have been made upon the time of the Instructor of the Museum. A large number of Members and their friends has visited the laboratories and work-rooms under her guidance, and frequent appointments have been made with visiting classes to examine and study the general collections. Special lectures on zoölogy and botany have been prepared by her and delivered to pupils of the Normal College and high schools of the City. During the summer, as representative of the Museum, Mrs. Roesler attended the conference of the Museums Association of Great Britain, held at Ipswich, England, at which she presented a paper on "The Work of an Instructor in The American Museum of Natural History."

More than 205 lectures have been delivered at the Museum during the year. These include (1) a spring and a fall course to Members; (2) a series of Talks to Members; (3) a spring and a fall course for the pupils of the public schools; (4) free lectures on public holidays; (5) a course of Jesup Lectures, given under the auspices of Columbia University, and (6) three courses given in conjunction with the Board of Education of the City of New York.





AUTO ELECTRIC TRUCK. Used in the transportation of the Circulating Collections loaned to the Public Schools of Greater New York

The following lectures to Members were delivered by members of the scientific staff and others:

LECTURES TO MEMBERS

- |          |   |                          |
|----------|---|--------------------------|
| March    | 5.—A Year with the Eskimo at the Mouth of the Mackenzie River.....  | V. Stefánsson            |
| "        | 12.—Addresses in connection with the Exhibition of Congestion of Population in New York City :<br>Physiographic and Economic Causes for the Growth of Cities..... | Jeremiah W. Jenks        |
|          | Town Planning.....  | Charles Mulford Robinson |
|          | The Effect of Taxation upon Distribution of Population.....   | Lawson Purdy             |
| "        | 19.—The Grandeur of the Canadian Alps, or Mountaineering in a New Switzerland.....  | Charles E. Fay           |
| "        | 26.—The Applicability of Color Photography by the Lumière Process to Scientific Work.....   | W. P. Hay                |
| April    | 2.—The Propagation and Domestication of American Game Birds.....  | Clifton F. Hodge         |
| "        | 9.—Queer Methods of Transportation.....   | O. P. Austin             |
| November | 12.—Kilauea in Action—A Visit to Hawaii's Famous Volcano.....   | William A. Bryan         |
| "        | 19.—Florida Bird Life.....  | Frank M. Chapman         |
| December | 3.—Tahiti and the Society Islands.....  | Henry E. Crampton        |
| "        | 10.—Some Native Trees, Their Flowers and Fruits.....  | Nathaniel L. Britton     |
| "        | 17.—Whale Hunting with a Camera.....  | Roy C. Andrews           |

SPECIAL LECTURES TO MEMBERS

A series of informal talks to Members, in regard to the methods of collecting, preserving and preparing material and specimens, was given by members of the scientific staff, in the spring, as follows:

- |          |   |                  |
|----------|---|------------------|
| February | 24.—The Habitat Groups of Birds.....                                    | Frank M. Chapman |
| March    | 2.—Methods in Making Artificial Flowers and Leaves....                  | J. D. Figgins    |
| "        | 9.—Collections Illustrating the Indians of the Plains....               | Agnes L. Roesler |
| "        | 16.—The Local Mammal Collection—Wild Animals Found About New York.....  | R. C. Andrews    |
| "        | 23.—Animal Sculpture—How Animals are Mounted.....                       | James L. Clark   |
| "        | 30.—The Jesup Collection of North American Forestry—Our Native Trees .. | R. W. Miner      |

## PUBLIC LECTURES ON HOLIDAYS

New Year's Day, January 1.—An Ornithologist's Travels in the West,	Frank M. Chapman
Washington's Birthday, February 22.—Mines, Quarries and "Steel Construction".....	Louis P. Gratacap
Thanksgiving Day, November 26.—Mt. Pelé, Martinique, in 1902, 1903 and 1908.....	Edmund Otis Hovey
Christmas Day, December 25.—Whale Hunting with a Camera,	Roy C. Andrews

## LECTURES FOR CHILDREN

The lectures for pupils of the public schools and for the children of Members were continued during the spring as follows:

March 9 and 30.—New York City in Colonial Days.....	R. W. Miner
" 11 " April 1.—The Work of Water.....	E. O. Hovey
" 13 " " 3.—The Industries of the United States....	R. W. Miner
" 16 " " 6.—Life Among Our Indians.....	G. H. Pepper
" 18 " " 8.—Egypt and Her Neighbors.....	Walter Granger
" 20 " " 24.—Methods of Transportation, Past and Present,	H. I. Smith
" 23 " " 27.—Scenes in the British Isles.....	R. W. Miner
" 25 " " 29.—Life in Our Western States.....	Barnum Brown
" 27 " May 1.—The Japanese and How They Live.	R. C. Andrews*

A fall course was given as follows:

October 26 and November 16.—New York City—Past and Present,	R. W. Miner
" 28 " " 18.—Commercial Centers of Europe.	E. O. Hovey
" 30 " " 20.—Scenes from Pole to Pole....	R. C. Andrews
November 2 " " 23.—Our South American Neighbors,	Walter Granger
" 4 " December 2.—Hiawatha's People.....	H. I. Smith
" 6 " " 4.—Industries of the United States.	R. W. Miner
" 9 " " 7.—Among the Filipinos. ....	R. C. Andrews
" 11 " " 9.—Physical Geography from Pictures,	E. O. Hovey
" 13 " " 11.—Home Life of American Birds,	F. M. Chapman†

\*On May 1, owing to the absence of Mr. Andrews, this lecture was delivered by Mr. Harlan I. Smith.

†On December 11, owing to the absence of Mr. Chapman, this lecture was delivered by Mrs. Agnes L. Roesler.

COLUMBIA UNIVERSITY LECTURES

*In coöperation with the Museum*

A series of lectures on Light was arranged by Columbia University and delivered as follows (Dr. Richard C. Maclaurin, lecturer):

- November 18.— I. Object of Course. Newton's Experiments and Contributions to Optical Theory.  
 " 25.— II. Colour Vision and Colour Photography.  
 December 2.—III. Dispersion and Absorption of Light. Recent Theories.  
 " 9.—IV. Spectroscopy. Applications to chemistry and astronomy.  
 " 16.— V. Polarisation, with some applications to chemistry and molecular physics.

Course continued in January and February, 1909.

BOARD OF EDUCATION LECTURES

*In coöperation with the Museum*

*Tuesday evenings*

- January 7.—The Picturesque Rhine.....Francis L. Strickland  
 " 14.—Historic Castles, Chateaux and Cathedrals of France,  
 Mrs. Helen Rhodes  
 " 21.—Spain.....John C. Bowker  
 " 28.—Isles of Fantasy (the Azores, Madeira and the Canaries),  
 John C. Bowker  
 February 4.—France. Her History Written in Stone.....Louis F. Berry  
 " 11.—The Highlands and Islands of Scotland...Clinton G. Abbott  
 " 18.—The Homes of the Poets.....Sutton Fletcher  
 " 25.—Fighting the Polar Ice (the Story of the Ziegler Polar Expedition of 1903, 1904, 1905, by its Commander),  
 Anthony Fiala  
 March 3.—Our Own City (Modern New York,—Its growth, commercial interests, social and civic life, and future expansion),  
 John B. Creighton  
 " 10.—Density and Distribution of Nationalities. (Addresses arranged in coöperation with the Conference on the Problems of Congestion of Population.)  
 The Housing Problem.....Robert W. de Forest  
 Moral Standards and Family Life in Tenements..Felix Adler  
 Ellis Island, the Door to the United States..Robert Watchorn  
 The School as a Social Center.....Henry M. Leipziger  
 " 17.—Literary and Historic Shrines of Boston and Vicinity,  
 Isaac F. Smith  
 " 24.—The Mississippi Valley and the Southern States..S. T. Willis  
 " 31.—Through the Canadian Rockies.....John Jay Lewis



*Report of the President*

- April 7.—Down the St. Lawrence from Niagara to the Sea,  
Edward Justus Parker
- “ 14.—Oklahoma, the Land of Now. . . . . Elias W. Thompson
- “ 21.—Wonderful Washington and Its Metropolis, Seattle,  
Alfred W. Martin
- “ 28.—Hunting Wolves on Snow Shoes. . . . . James A. Cruikshank
- October 6.—The Songs and Basketry of the North American Indians,  
Mr. and Mrs. William B. Humphrey
- “ 13.—The Historic Hudson. . . . . Kenneth Bruce
- “ 20.—Alaska of To-day. . . . . Frederick M. Brooks
- “ 27.—The New South. . . . . Philander P. Claxton
- November 3.—Newfoundland. . . . . Charles Everett Beane
- “ 10.—The Texan and His State. . . . . R. Cornelius Raby
- “ 17.—The City of Mexico . . . . . Isaac F. Smith

A Course of Four Lectures on “The Twentieth Century  
South America,” by Charles M. Pepper.

- “ 24.—Panama to Patagonia.
- December 1.—Argentine, the World's Wheatfield.
- “ 8.—The Vastness of Brazil.
- “ 15.—Colombia and the Andes.

*Saturday Evenings*

A Course of Nine Lectures on “Electricity and Magnetism,”  
by Professor Ernest R. von Nardroff.

- January 4.—Magnetism.
- “ 11.—Electricity at Rest.
- “ 18.—The Electric Current : Its Chemical Effects.
- “ 25.—The Electric Current : Its Heating Effects.
- February 1.—The Electric Current : Its Magnetic Effects.
- “ 8.—The Electric Current : Its Inductive Effects.
- “ 15.—Cathode Rays and Roentgen Rays.
- “ 22.—Wireless Telegraphy.
- “ 29.—Radium.

A Course of Nine Non-Technical Lectures on “Achievements of  
Science and Modern Scholarship,” to be delivered by Professors  
in the various departments of Columbia University.

- March 7.—Geology. . . . . James Furman Kemp
- “ 14.—Physics. . . . . Ernest F. Nichols
- “ 21.—Biology . . . . . Edmund B. Wilson
- “ 28.—Zoölogy . . . . . Henry E. Crampton
- April 4.—Botany . . . . . Herbert Maule Richards
- “ 11.—History . . . . . James Harvey Robinson
- “ 18.—Sociology . . . . . Franklin Henry Giddings
- “ 25.—Metaphysics. . . . . Frederick J. E. Woodbridge
- May 2.—Ethics. . . . . John Dewey



A Course of Six Lectures on "Chemical Elements and Compounds,"  
by Professor Charles Baskerville.

- October 3.—Hydrogen and Oxygen.  
" 10.—Carbon and Its Compounds.  
" 17.—Nitrogen and Its Compounds.  
" 24.—Sulphur and Its Compounds.  
" 31.—Phosphorous and Its Compounds.  
November 7.—Sodium, Potassium, Calcium and Their Compounds.

A Course of Six Lectures on "The Metallurgy of Iron and  
Steel," by Professor Bradley Stoughton.

- " 14.—The Metallurgy of Iron and Steel.  
" 21.—The Making of Iron.  
" 28.—The Making of Steel.  
December 5.—The Uses of Iron and Steel in Machine Shops and Bridges  
and Other Great Engineering Structures.  
" 12.—The Rolling and Forging of Iron and Steel.  
" 19.—The Heat Treatment of Steel.

## HOSPITALITY TO SCIENTIFIC SOCIETIES

The Museum is yearly becoming more generally recognized as a center for the gathering of the various scientific societies of the city and country, and its lecture halls and conference rooms have been in almost continuous demand.

In the spring, the halls on the ground floor of the west wing were used for an exhibition prepared under the direction of the Committee on the Congestion of Population in New York City.

The Members of the Fourth International Fishery Congress were the guests of the Museum on September 28, and the foreign delegates were most emphatic in their praise of the work which this institution is doing.

In November, the two halls on the ground floor, east, were placed at the disposal of the New York Horticultural Society for its first annual flower exhibition. Various species of roses, chrysanthemums, pinks and orchids were shown and the exhibition proved most popular and attractive.

By far the most important of these special exhibits was that of the "International Tuberculosis Congress," given under the joint auspices of the Committee on the Prevention of Tuberculosis of the Charity Organization Society and the Board of Health of the City of New York. This exhibition,

originally given in Washington, D. C., occupied five of our large halls, and was a most complete exposition of the methods of checking the great white plague. The opening exercises were held November 30, at which the Mayor, Commissioner Darlington and others spoke, and from that time till January 17, 1909, the exhibit was open to the public. The widespread interest in this exhibit was phenomenal. The total attendance for the seven weeks was 753,954, and the largest attendance in any one day was 63,256.

It speaks well for the efficiency of the staff of the Museum that these enormous crowds were handled without a single case of disorder. During the last two weeks of the exhibition, by special arrangement with the Superintendent of Schools, pupils of the high schools to the number of 40,000 were brought to the Museum and every effort was made to render their visit profitable.

The following societies and organizations were guests of the Museum in 1908:

- American Bison Society
- American Ethnological Society
- American Institute of Mining Engineers
- American Nature Study Society, New York City Section
- American Psychological Association, New York Branch
- Audubon Society of the State of New York
- Charity Organization Society
- Committee on Congestion of Population in New York City
- Concilium Bibliographicum
- Eastern Art Teachers Association
- Fourth International Fishery Congress
- Horticultural Society of New York
- Linnæan Society of New York
- National Association of Audubon Societies for the Protection of Wild Birds and Animals
- Natural Science Committee of the Associate Alumnae of the Normal College
- New York Academy of Sciences
- New York Entomological Society
- New York Microscopical Society
- New York Mineralogical Club
- Playground Association of America
- School Garden Association of New York
- Torrey Botanical Club
- West Side Natural History Society





THE INTERNATIONAL TUBERCULOSIS EXHIBITION. Held at the Museum November 30, 1908, to January 17, 1909  
Total attendance, 753,954

## II. COLLECTIONS, EXPLORATIONS AND EXHIBITIONS

EXPLORATIONS.—It is through expeditions and field agents that many of the most important additions are made to the collections. It is obvious, therefore, that it is our duty to maintain field parties although this involves a heavy draft on our resources. Fortunately there are a number of friends who have volunteered to assist the Museum in this way. During the past year the Museum has had representatives in the following localities:

### *In United States*

ALASKA	IDAHO	NORTH DAKOTA
COLORADO	MONTANA	TEXAS
FLORIDA	NEBRASKA	WYOMING

### *In Foreign Countries*

ALBERTA, CANADA	KERGUELEN ISLAND	SASKATCHEWAN, CANADA
ARCTIC AMERICA	KOREA	SOCIETY ISLANDS
BAHAMA ISLANDS	LABRADOR	SOLOMON ISLANDS
CHINA	NEW ZEALAND	SOUTH SHETLAND ISLANDS
HUDSON BAY	NICARAGUA	VANCOUVER, B. C.
INDIA	PHILIPPINE ISLANDS	FRENCH WEST INDIES

## MINERALS

DEPARTMENT OF MINERALOGY.—The extent of the Bement Collection of Minerals, presented by Mr. J. Pierpont Morgan a few years ago, is so great that the acquisition of other large collections has become unnecessary because of the consequent duplication of material already on hand. In order, however, to maintain the high standard of excellence established by this collection, it is necessary to purchase from time to time exceptional specimens of rare form and examples of new species. It is to this end that the income of the Bruce Fund is applied, and through its aid 95 separate species and varieties have been added to the cabinet during the past year. A larger endowment of this department is needed.

Two gifts deserve special mention: an unusual specimen of Polybasite from Arizpe, Sonora, Mexico, the locality well known for its silver ores, which was presented by the President and Directors of the Minas Pedrazzini Mining Company;

and, from the same locality, but constituting an independent donation, admirable examples of Argentite and Stephanite, presented by Mr. Edward L. Dufourcq.

The cataloguing of the Bement collection has been pushed forward as rapidly as the routine work would permit. To date, more than 13,000 cards have been written. The catalogue is frequently consulted by visiting mineralogists.

## MAMMALS AND BIRDS

DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY.—The study collections of mammals and birds have been enriched and remain in safe condition readily accessible for use. The mammals are thoroughly catalogued and considerable progress has been made with the new systematic catalogue. The registration of the birds added in recent years to the study collection has advanced, and in the exhibition hall a number of new habitat groups has been installed.

Mr. Chapman visited southern Florida early in the year for further material for bird groups, and secured, in addition to material for important groups, a fine series of moving pictures of the Brown Pelican and other birds.

Mr. Roy C. Andrews spent several months at Vancouver Island and on the coast of Alaska collecting cetacean material, and had excellent opportunities for studying fresh examples of several species of whales, of which he took thousands of measurements and many photographs. He also was successful in obtaining photographs of the animals in life.

Dr. Rudolph M. Anderson left early in April for a long period of exploration in the Mackenzie basin and along the Arctic coast. The first instalment of his collection of mammals and birds has already reached the Museum.

Mr. William B. Richardson has continued his explorations in Nicaragua, and has sent to us during the year several large collections of both mammals and birds.

The acquisitions during the year include 1,034 mammals and 1,626 birds.

Mrs. Morris K. Jesup has been the principal benefactor of this department during the year. She has defrayed the entire cost of the Museum's expeditions to British Columbia, to the



Arctic, to Nicaragua and to Nebraska. Among her gifts should be mentioned a fine specimen of sea otter, a condor, skeletons of the gorilla and elephant, two examples of the rare *Solenodon* and two collections of mammals.

Other donations to be noted are an antelope and a rare Bush Pig, both mounted, and a skin of a Grant Zebra, all from British East Africa, presented by Mrs. Armar D. Saunderson; a collection of 41 small mammals from California, presented by Dr. Joseph Grinnell; 50 small mammals from Nebraska, presented by Captain M. L. Crimmins, U. S. A., and 59 small mammals from Kashmir, northern India, presented by Colonel A. E. Ward. This department has also received many valuable specimens in the flesh from the New York Zoölogical Society and the Central Park Menagerie. About 200 North American mammals have been added by exchange.

In the present connection special mention should be made of the group of Paradise Birds recently placed on exhibition, numbering 46 species and 75 specimens, the gift of Mrs. Frank K. Sturgis.

The papers contributed by this department to the *Bulletin* during the past year are 11 in number, aggregating 274 pages, illustrated with 16 plates (one colored) and 72 text figures.

The Museum publications edited by the Curator consist of one part of the *Memoirs* (Part IV of Vol. IX), and Volume XXIV and Part 1 of Volume XXV of the *Bulletin*.

#### LIVING REPTILES AND FISHES

The reptiles and fishes of recent time have been placed temporarily in the care of the Department of Invertebrate Zoölogy and the installation of the exhibition collections in the corridor of the north wing has been continued under the direct supervision of the Assistant Curator, Mr. Roy W. Miner. Much attention has been given to the labeling of the specimens which has been developed along two lines:

1. A series of popular, individual labels adapted to the requirements of the general public.
2. A series of group labels adapted to students.



Mr. Miner participated in the Fourth International Fishery Congress held in Washington in September, and he was awarded a prize for his paper on the Exhibition of Fishes.

The principal additions to the collections have been the casts, models and mounted skins (more than forty in number) prepared by Mr. G. Dwight Franklin. The excellence of Mr. Franklin's work is attested by the fact that he was awarded the prize offered by the Fourth International Fishery Congress for the best method of preparing fishes for exhibition.

We especially wish to acknowledge the many courtesies extended by the New York Aquarium.

#### EXTINCT MAMMALS, BIRDS, REPTILES AND FISHES

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.—Several changes have been made in the exhibition series, the most important being the complete rearrangement of the exhibits illustrating the Evolution of the Horse. The Museum now possesses not only the earliest known example of the horse, but the most extensive and complete series of specimens illustrating its evolution; indeed, its collections are larger than the combined collections of all other institutions in the world.

The collections are arranged in two sections, viz.: Evolution of the Horse in Nature, and the Evolution of the Horse under Domestication.

Three mounted skeletons have been added to the first section during the year, the four-toed *Orohippus*, the three-toed *Mesohippus bairdi* and *Mesohippus intermedius*.

The second section contains skeletons of the horse and man, Arab Stallion, Draught Horse, and the Shetland Pony, to which has been added the skeleton of the famous race-horse "Sysonby" presented to the Museum by Mr. James R. Keene and prepared at his expense.

A notable event was the departmental reception and tea given on the afternoon of November 12, to which Mr. Keene and other prominent horse lovers were invited to see the first exhibition of "Sysonby."

Several additions have been made to the exhibition series in the Dinosaur Hall. The Duck-billed Dinosaur or





SKELETON OF THE RACE-HORSE "SYSONBY." Presented by James R. Keene. Prepared and mounted by S. H. Chubb

*Trachodon* mount, with two skeletons and with base designed to illustrate the environment, has been finished. This splendid group and the *Allosaurus* mount mark a step forward in methods of exhibiting fossil vertebrates and add greatly to the realistic effect and teaching quality of the fossil skeletons.

Progress has been made in the installation of the Permian fossils, which will represent a third great division in the history of the earth, the age of Amphibians, no less distinct and remarkable in the character of its life and environment than the age of Reptiles or the age of Mammals.

Two unusually rare and valuable acquisitions have been received as the gift of Mrs. Morris K. Jesup. One is a specimen of the "fish lizard," *Ichthyosaurus*, from the quarries of Holzmaden, Germany, which shows the character of the entire integument, and a specimen of the toothed bird, *Hesperornis*, found in the Cretaceous of western Kansas.

Other important additions have been received through field parties.

Four expeditions were sent out during the year, all of which, with the exception of the Alaskan expedition, were maintained by the contributions of Mrs. Morris K. Jesup.

Mr. Barnum Brown conducted an expedition to central Montana to search for dinosaur remains. Several important beds of fossils were located and a number of valuable specimens secured, among which a fine skull and skeleton of the *Tyrannosaurus* and a skull of *Triceratops* are of special mention.

Dr. W. D. Matthew and Mr. Albert Thomson visited the Lower Miocene beds in Sioux County, Nebraska, with satisfactory results. The material obtained included six articulated skeletons of *Stenomylus*, several skeletons of *Merycochærus*, various skulls and parts of skeletons of horses, camels, rhinoceroses, oreodonts and deer.

The discovery in 1907 of mammoth remains in Alaska by Mr. L. S. Quackenbush made it desirable to send him again to this locality and the work was continued through the generosity of Mr. J. P. Morgan, Jr., and Mr. Percy R. Pyne, who defrayed the cost of this expedition. Mr. Quackenbush brought back additional parts of the mammoth specimen discovered in 1907, including the lower jaw, tusks and various bones of

the skeleton, much hair, skin and dried flesh; also parts of skeletons of bison, moose, caribou and horse.

The fourth expedition was to the Permian beds of Texas, in charge of Dr. E. C. Case of the University of Michigan. A fine skull of *Diadectes* and several skulls and parts of skeletons of primitive reptiles and amphibians were secured.

Research work has been carried on by the members of the staff, as circumstances permitted, and the papers published will be found listed under the report on publications.

### EXTINCT FISHES

The efforts of the Curator, Dr. Bashford Dean, have been devoted chiefly to improvements in the exhibition hall. The material has been relabeled and several restorations have been prepared and placed on view. Among these are pictures of the fishes of Ohio during the Devonian Age, prepared by a Japanese artist after reconstructions by Dr. Dean.

The arrangement and classification of the study collections have been continued and considerable work has been done on a bibliography of fishes. Various fishes have been purchased with funds provided by Mr. Cleveland H. Dodge, and about forty specimens from the Old Red Sandstone of Scotland were secured through exchange with the Royal Scottish Museum of Edinburgh.

### LIVING INVERTEBRATES—SYNOPTIC COLLECTION

DEPARTMENT OF INVERTEBRATE ZOÖLOGY.—It was with keen regret that we announced the resignation of Dr. William Morton Wheeler, who, as Curator of this department for the past six years, rendered most efficient service in its organization and development. Because of the character of his researches and his standing as an investigator, his departure will remain a distinct loss to the Museum and to those associated in scientific work in this neighborhood. While Dr. Wheeler has been appointed to the professorship of Economic Entomology in Harvard University, we are glad to announce that he will continue to be identified with the work of the Museum, having honorary curatorship over one of the divisions of insects.

The Museum is fortunate in having secured Dr. Henry E. Crampton to take charge of the department. Dr. Crampton is a graduate of Columbia University and for several years has held the Chair of Zoölogy at Barnard College. He has had wide experience as a teacher; he is familiar with museum methods, and is well known as an investigator and writer. He assumed his duties January 1, 1909.

The scientific staff of the department has been further strengthened by the following appointments: Dr. Frank E. Lutz, a research assistant in the Carnegie Institution at Cold Spring Harbor, Long Island, as an Assistant Curator; Dr. Alexander Petrunkevitch as Honorary Curator of Arachnida, and Dr. Aaron L. Treadwell as Honorary Curator of Annulata.

During the interim the affairs of the department were in charge of Mr. Roy W. Miner, the Assistant Curator, who discharged his manifold duties most efficiently.

The attention of the staff has been largely devoted to the exhibition collections. The installation has been designed to present a bird's-eye view of the animal kingdom and to emphasize the relationship existing between the groups. Many of the animals are so small that it is practically impossible to demonstrate their structure by preserved specimens, but by making carefully prepared enlarged models it is possible to give the visitor an accurate idea of their structure and of their relations to one another and to man.

The principal additions to the exhibition series have been the models prepared by Dr. B. E. Dahlgren and his assistants. These include models of the anatomy of certain parasites; the anatomy of the common lobster, and a series of models showing the development of the egg in the Ascidians.

The offices of the department and many of the study collections have been transferred to the rooms on the fifth floor of the new west wing.

In the spring, Dr. Dahlgren and Mr. H. Mueller visited the Bahama Islands in search of material intended for use in the reproduction of a coral reef. They made extensive studies of several reefs and secured a large number of choice specimens, including an exceptionally fine example of a madreporé coral which measures ten feet in length and weighs nearly two tons.



The Curator, Dr. Wheeler, spent the month of July in the Casco Bay region of Maine, where he continued his studies of the Formicidæ. His results are published in the *Bulletin*.

A third expedition was sent to Colorado under Mr. Gneomar von Krockow to collect fossil insects and leaves. While circumstances prevented him from carrying out the original plans, his industry resulted in the addition to the Museum's collections of fifty reptiles, amphibia and fishes, 250 vials of insects, and other invertebrates.

Professor Filippo Silvestri, of Portici, Italy, spent several weeks of study at the Museum and later collected in New York and in certain of the western states. The Museum is to receive a duplicate set of the specimens he secured.

In spite of the demands of routine work, the Curator and his staff have continued their researches, and during the year 18 papers have been published.

### MOLLUSCAN SHELLS

DEPARTMENT OF CONCHOLOGY.—The only notable accession to the conchological collection was an interesting series of shells from the Philippine Islands, obtained through exchange with the Frankfort Museum of Germany. The collection numbers 4,330 specimens, representing 477 species and varieties carefully identified and comprising many cotypes.

### INSECTS

DEPARTMENT OF ENTOMOLOGY.—The larger portion of the Curator's time has been devoted to selecting the unarranged material of North American Coleoptera, cleaning and remounting the same and providing the specimens with proper labels. About 9,000 specimens have been treated in this manner. The collections have been poisoned and freed from museum pests.

Among the important accessions should be mentioned a collection of ants presented by Dr. William Morton Wheeler, one of the three largest collections of Formicidæ in existence. It contains many types and cotypes and nearly every species is represented by long series of specimens—in fact, the collection represents such a large portion of the family Formicidæ that all future additions can be readily intercalated.



Five articles written by the Curator have been published or are in press, and several are in process of preparation.

### EXTINCT INVERTEBRATES

DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALÆONTOLOGY.—The laborious task of cataloguing and labeling the many specimens in this department has been constantly pushed forward by the Curator. More than 400 new labels have been typewritten, about 100 of which bear citations.

Visiting scientists have made frequent use of the collections during the year, among whom may be mentioned Mr. J. E. Hyde of the Ohio Geological Survey, Dr. R. Ruedemann and Mr. Kirk of the New York State Museum, Miss Elvira Wood of Columbia University, Dr. William S. Prouty of the Maryland Geological Survey and Professor W. A. Parks of Toronto University.

Under the direction of the Associate Curator, Dr. Edmund Otis Hovey, the whole catalogue of the geological collections has been standardized, and all the specimens received during the year have been accessioned. Among the acquisitions particular mention may be made of a series of graphite in its crude and manufactured form, the gift of the Dixon Crucible Company. By exchange we have received a beautifully polished and etched section of the Gibeon iron meteorite and samples illustrating the mill work done on the copper ores at Butte, Montana.

In April, Dr. Hovey, accompanied by his wife as volunteer assistant, again visited the Lesser Antilles to continue his comparative studies of the volcanoes of this region. Besides the scientific data bearing on the geological formation of the country, Dr. Hovey secured a large number of important photographs and many specimens of volcanic material.

Much of the Associate Curator's time has been occupied with the editorship of the *Museum Journal*, of which eight numbers have been issued, including 130 pages, 42 half-tones and 1 colored plate.

### LIVING AND EXTINCT RACES OF MEN

DEPARTMENT OF ANTHROPOLOGY.—Progress has been made in the revision of the collections for public exhibition. The

general plan of development contemplates a brief type exhibit for each of the ten main culture areas in North America. As these exhibits are designed primarily for the general visitor, the subject is not treated exhaustively. A beginning in this method of installation was made last year in the Eskimo exhibit and in that of the Indians of the Plains. To the latter has been added this year a section on food and hunting.

In the Eskimo Hall, three of the mural paintings, provided through the generosity of Mr. Arthur Curtiss James and executed by Mr. Frederick W. Stokes, have been completed and put in place. The introduction of these paintings marks a new departure in the treatment of the Museum's exhibition halls and is in the nature of an experiment.

The installation of the North American culture type exhibit for the Indians of California has been completed and the arrangement of the California basketry is nearly finished.

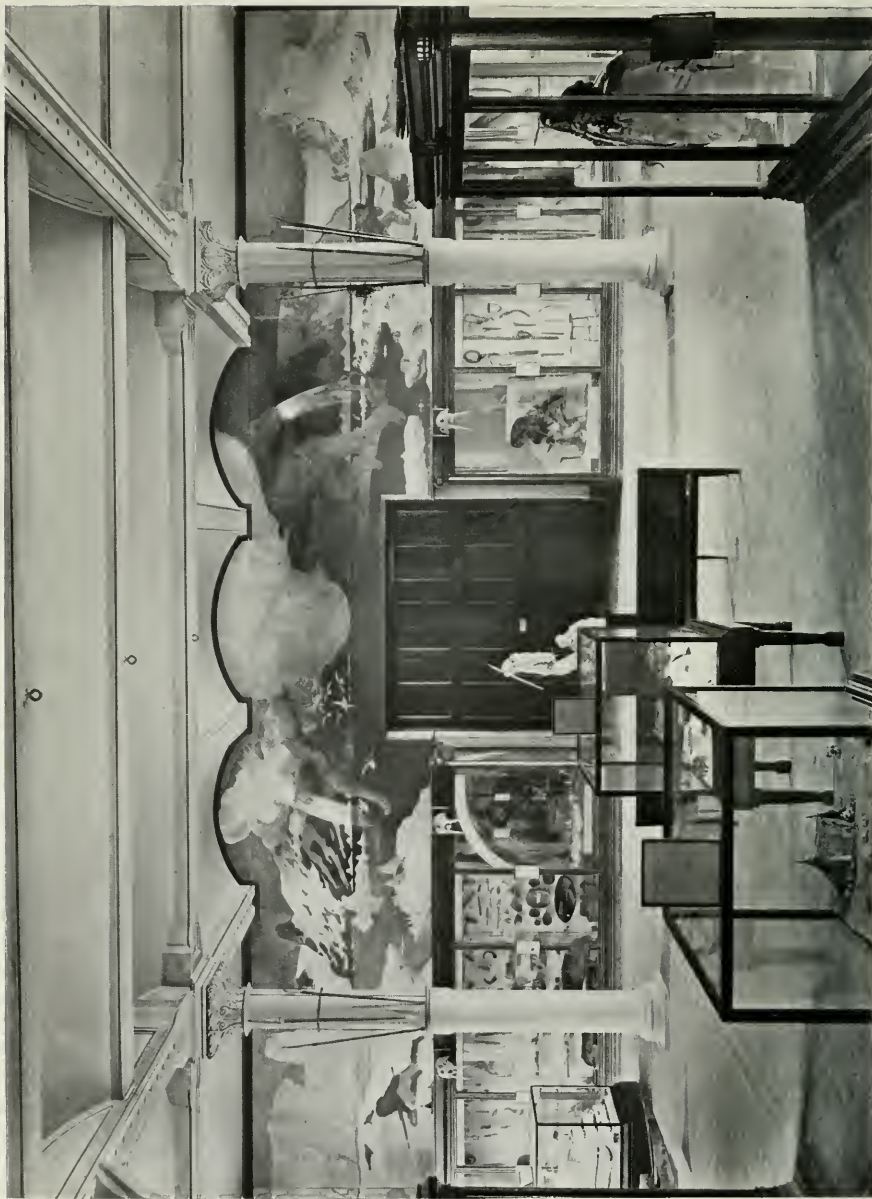
Several collections from the Northwest Coast have been transferred to the Hall of North American Archæology, where they more properly belong. The final plan of this hall is to present in as concise a form as possible the general archæology of North America with the exception of Mexico and the Southwest.

The cataloguing and classifying of the four large ethnological collections from the Congo, which have been presented to the Museum by His Majesty King Leopold of Belgium, have been completed and a general plan for the installation of this rich material has been formulated.

In connection with the coming Hudson-Fulton Celebration, a special exhibit illustrating local archæology and the culture of the Indians formerly living in Manhattan and vicinity is being prepared. This work is being done by Mr. Alanson Skinner under the supervision of Dr. Wissler.

The proper accessioning and cataloguing of the quantity of material in this department is no small task, but this important work has been pushed forward as rapidly as circumstances permitted. The card catalogue is now practically complete for the Philippine Islands, the Islands of the Pacific Ocean, and for North American ethnology. In this part of the catalogue there are about forty thousand cards.





MURAL DECORATIONS IN THE HALL OF NORTH AMERICAN ETHNOLOGY. Executed by Frederick W. Stokes  
Gift of Arthur Curtiss James

The handling and arrangement of the study and storage collections have been greatly facilitated by the completion of the storage rooms in the attic of the new west wing. These rooms, especially designed for this purpose, are insect, dust and fire-proof, can be fumigated whenever desirable, and render the material very accessible for inspection and study.

There have been several large and important collections received as gifts during the year. Of special mention are a collection from the Fiji Islands, containing over two thousand specimens, and a collection from the Andaman Islands, which includes a fine example of the "Ghost House" and various specimens of basketry, pottery and weapons. Both of these accessions are the gift of Mrs. Morris K. Jesup.

Mr. Henry Booth presented about five thousand specimens, representing the archæology of Dutchess County, New York. Another important gift was a collection of the casts of hard palates, presented by Dr. Walter Channing, which has provided the data for a paper on the subject written by Doctors Channing and Wissler.

Six expeditions have been sent into the field in the interest of this department, all of which have been maintained through the generous contributions of Mrs. Morris K. Jesup.

In April, Mr. V. Stefánsson, accompanied by Dr. R. M. Anderson, left for the Arctic, via the Mackenzie River, for ethnological work along the shores of the Beaufort Sea and among the islands east of the mouth of the Mackenzie. They plan to be in the field for two or three years.

Mr. Harlan I. Smith again visited eastern and northern Wyoming to continue his archæological survey in this region. He discovered a large prehistoric quarry and secured important data relative to the prehistoric races.

The third expedition was to James Bay and western Labrador, under Mr. Alanson Skinner. It is our first expedition into this field, and Mr. Skinner found a type of culture most interesting to the American student.

Another region not heretofore investigated, and not previously represented in our collections, is the great Athapascan area in the far northwest of Canada. Dr. R. H. Lowie entered this field and obtained very satisfactory results. He



secured data regarding the mythology and prehistoric culture of the Chippewyan Indians. He also continued his studies of the Assiniboine Indians at Fort Belknap, Montana.

H. J. Spinden spent the summer among the Nez Percé Indians (Idaho) where he made a very complete collection of myths and tales, together with notes upon their general culture. His excavations also yielded excellent collections.

Rev. Gilbert L. Wilson worked among the Hidatsa Indians in North Dakota. He secured a small but interesting collection showing primitive agricultural implements and household utensils.

In addition to the above, several volunteer workers have been looking after the interests of the Museum.

Honorable Mason Mitchell, U. S. Consul to Chung-king, China, has sent in a number of valuable ethnological specimens.

Dr. C. C. Vinton is operating in Korea; Captain George Comer in Hudson Bay; Mr. G. A. McTavish in Tahiti; Mr. T. E. Donne in New Zealand, and Dr. Hugh M. Smith secured a number of valuable specimens during his sojourn in the Philippines.

In spite of the heavy drafts for routine work made on the time of the departmental staff, the research work and publications have progressed satisfactorily. Five articles have been contributed to the *Anthropological Papers*, and several minor papers by members of the staff have appeared in other publications.

#### DEPARTMENT OF PHYSIOLOGY

We regret that continued ill health obliged Dr. C. W. F. Muenchehofe to retire from the department in June, and we gladly record our appreciation of the excellent work which he accomplished and of the faithful service that he rendered while a member of the staff.

Mr. Adolph Elwyn has been assigned to work in this department, and later in the year Mrs. Louise Stevens Bryant was engaged to assist in the osteological work.

During the year, 84 skeletons and 1,361 skulls have been cleaned and added to the study collection. Among these are skeletons of an elephant and a rhinoceros.







SOUTH SECTION OF WEST FAÇADE. Gallery showing fire-proof rooms for study and storage collections

A total of two hundred and five animals has been received, summarized as follows:

Central Park Menagerie.....	133
New York Zoölogical Society.....	31
New York Aquarium.....	10
Other sources.....	31
	<hr/>
	205

In this connection we wish to acknowledge the many courtesies extended to the Museum by the Director and staff of the New York Zoölogical Park, of the New York Aquarium and of the Central Park Menagerie.

#### JESUP COLLECTION OF NORTH AMERICAN WOODS

The preparation of artificial sprays, showing flowers and fruits of the native trees in their natural size and colors, has been continued as material could be secured. Thirty-five specimens have been added to the exhibition series during the year. Recently Miss Mary C. Dickerson has been engaged as an assistant in this department and has done considerable work towards preparing guide leaflets for the hall. It is intended to still further improve the collection by the addition of photographs and transparencies.

#### LIBRARY

The charter given to the founders of the Museum provided for the establishing and maintaining of a Library of Natural History. Partly through a mutually advantageous arrangement with the New York Academy of Sciences, but chiefly through the assiduous efforts of the Curator in arranging exchanges and in making judicious purchases, the Museum now possesses a library of science which is second to none in this city and is among the leading scientific libraries of America. While the library has had this most encouraging growth, there are, of course, many rare and important works on natural science which the Museum has not yet been able to secure, and there is, perhaps, no branch of the Museum's

work in which additional appropriations are more urgently needed and where the expenditure of additional funds would yield larger returns for science than here.

The department has received during the year 1,870 volumes and 1,025 pamphlets, and has classified and catalogued 2,632 separata and 1,348 volumes. The subscription to the *Concilium Bibliographicum* has been continued, and 11,868 cards have been intercalated in the reference catalogue. A like number has been distributed to the series on deposit.

### PUBLICATIONS

The sum expended by the Museum in 1908 for its publications, in addition to regular salaries, was \$20,103.23, an amount indicative of the extent of the researches of the Museum staff.

A full list of the scientific publications of the Museum issued in 1908, as received by the Curator for distribution, follows:

#### DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALÆONTOLOGY

##### *Bulletin*, Volume XXIV

R. P. Whitfield. "Notes and Observations on Carboniferous Fossils and Semifossil Shells, brought Home by Members of the Peary Expedition of 1905-1906." (Pages 51-59, plates i-iv.)

#### DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY

##### *Bulletin*, Volume XXIV

J. A. Allen. "A List of the Genera and Subgenera of North American Birds, with their Types, according to Article 30 of the International Code of Zoölogical Nomenclature." (Pages 1-50.)

J. A. Allen. "Pennant's 'Indian Zoölogy.'" (Pages 111-116.)

J. A. Allen. "The North Atlantic Right Whale and its Near Allies." (Pages 277-330, plates xix-xxiv, with 1 text figure.)

J. A. Allen. "The Peary Caribou (*Rangifer pearyi* Allen)." (Pages 487-504, with 12 text figures.)

J. A. Allen. "Notes on *Solenodon paradoxus* Brandt." (Pages 505-518, plates xxviii-xxxiii, with 9 text figures.)

J. A. Allen. "Mammalogical Notes." (Pages 579-589, with 4 text figures.)

J. A. Allen. "Mammals from Nicaragua." (Pages 647-670, with 12 text figures.)

Roy C. Andrews. "Notes upon the External and Internal Anatomy of *Balæna glacialis* Bonn." (Pages 171-182, with 6 text figures.)

Roy C. Andrews. "Description of a New Species of *Mesoplodon* from Canterbury Province, New Zealand." (Pages 203-216, with 1 plate and 5 text figures.)

W. DeWitt Miller. "A Review of the Manikins of the Genus *Chiroxiphia*." (Pages 331-344, plate xxv, colored.)

John Treadwell Nichols. "Notes on Two Porpoises Captured on a Voyage into the Pacific Ocean." (Pages 217-220, plate xiv, with 3 text figures.)

## DEPARTMENT OF VERTEBRATE PALÆONTOLOGY

*Bulletin*, Volume XXIV

Barnum Brown. "The Ankylosauridæ, a New Family of Armored Dinosaurs from the Upper Cretaceous." (Pages 187-202, with 20 text figures.)

E. C. Case. "Notes on the Skull of *Lysorophus tricarinatus* Cope." (Pages 531-533, with 4 text figures.)

Walter Granger. "A Revision of the American Eocene Horses." (Pages 221-264, plates xv-xviii, with 5 text figures.)

W. D. Matthew. "A Four-horned Pelycosaurian from the Permian of Texas." (Pages 183-185, with 1 text figure.)

W. D. Matthew. "Osteology of *Blastomeryx* and Phylogeny of the American Cervidæ." (Pages 535-562, with 15 text figures.)

H. F. Osborn. "New Fossil Mammals from the Fayûm Oligocene, Egypt." (Pages 265-272, with 6 text figures.)

H. F. Osborn. "New or Little Known Titanotheres from the Eocene and Oligocene." (Pages 599-617, with 21 text figures.)

*Bulletin* XXV, Part I

L. Hussakof. "Catalogue of the Type and Figured Specimens of Fossil Vertebrates in The American Museum of Natural History. I. Fishes." (Pages 1-103, plates i-vi, with 49 text figures.)

*Memoirs*, Volume IX, Part IV

Barnum Brown. "The Conard Fissure, A Pleistocene Bone Deposit in Northern Arkansas: with Descriptions of Two New Genera and Twenty New Species of Mammals." (Pages 155-208, plates xiv-xxv, with 3 text figures.)

## DEPARTMENT OF INVERTEBRATE ZOÖLOGY

*Bulletin*, Volume XXIV

Charles T. Brues. "Two Fossil Phoridæ from the Miocene Shales of Florissant, Colorado." (Pages 273-276, with 2 text figures.)

T. D. A. Cockerell. "Fossil Insects from Florissant, Colorado." (Pages 59-70, plate v.)

T. D. A. Cockerell. "The Fossil Flora of Florissant, Colorado." (Pages 71-110, plates vi-x.)

S. A. Rohwer. "A Fossil Larrid Wasp." (Pages 519-520.)

S. A. Rohwer. "On the Tenthredinoidea of the Florissant Shales." (Pages 521-530, with 1 text figure.)

S. A. Rohwer. "The Tertiary Tenthredinoidea of the Expedition of 1908 to Florissant, Colorado." (Pages 591-595, with 1 text figure.)

S. A. Rohwer. "A Fossil Mellinid Wasp." (Page 597.)

Filippo Silvestri. "Myriopoda from Porto Rico and Culebra." (Pages 563-578, with 11 text figures.)

William Morton Wheeler. "The Ants of Porto Rico and the Virgin Islands." (Pages 117-158, plates xi-xii.)

William Morton Wheeler. "The Ants of Jamaica." (Pages 159-164.)

William Morton Wheeler. "Ants from Moorea, Society Islands." (Pages 165-168.)

William Morton Wheeler. "Ants from the Azores." (Pages 169-170.)

William Morton Wheeler. "Honey Ants, with a Revision of the American Myrmecocysti." (Pages 345-398, with 28 text figures.)

William Morton Wheeler. "The Ants of Texas, New Mexico and Arizona." (Pages 399-486, plates xxvi-xxvii.)

William Morton Wheeler. "The Ants of Casco Bay, with Observations on Two Races of *Formica sanguinea* Latreille." (Pages 619-646.)

DEPARTMENT OF ANTHROPOLOGY

*Bulletin*, Volume XV, Part II

Franz Boas. "The Eskimo of Baffin Land and Hudson Bay." (Pages 374-570, plates v-x, with 98 text figures.)

*Anthropological Papers*, Volume I

Walter Channing and Clark Wissler. "The Hard Palate in Normal and Feeble-minded Individuals." (Pages 283-350, plates xiv-xxii, with 8 text figures and 19 tables.)

M. R. Harrington. "Iroquois Silverwork." (Pages 351-370, plates xxiii-xxix, with 2 text figures.)

A. L. Kroeber. "Ethnology of the Gros Ventre." (Pages 141-282, plates viii-xiii, with 44 text figures.)

*Anthropological Papers*, Volume II

Clark Wissler and D. C. Duvall. "Mythology of the Blackfoot Indians." (Pages 1-164.)

*Memoirs*, Volume III, Part IV

George T. Emmons. "The Chilkat Blanket." (Pages 328-401, plates xxiv-xxvii, with 37 text figures.)

PUBLICATIONS OF THE JESUP NORTH PACIFIC EXPEDITION

Volume X, Part II. "Material Culture and Social Organization of the Koryak." By W. Jochelson.

Volume XIV, Part II. "Haida Texts." By John R. Swanton.

*The American Museum Journal*, Volume VIII, published in eight numbers, with the following Guide Leaflet:

B. E. Dahlgren. "The Malaria Mosquito." (Leaflet No. 27, April, pages 1-48, with 34 text figures.)







A KLAMATH LAKE BIRD COLONY. Background by Carlos Hittell. Birds by Herbert Lang



### III. MEMBERSHIP

It is a most significant fact that the general financial stringency of the past year has not reduced the support that we have always received from our Members. New subscriptions have overcome any loss that was sustained and we are glad to record a gain in the income from membership fees.

In all, 166 new members were enrolled, giving a net gain of 24.

On December 31, 1908, the total membership was 2,148, divided into classes as follows: Patrons, 101; Fellows, 40; Honorary Fellow, 1; Life Members, 364; Annual Members, 1,642.

#### NEW MEMBERS

The following persons were elected Patrons:

HENRY BOOTH	MASON MITCHELL
DR. WALTER CHANNING	DR. WILLIAM M. WHEELER

The following persons were elected Fellows:

CHARLES H. SENFF	MISS CAROLA WOERISHOFFER
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DR. BASHFORD DEAN was elected an Honorary Fellow.

The following persons were elected Life Members:

MRS. EMMA B. AUCHINCLOSS	HUGH HILL
EDWIN SWIFT BALCH	JACOB LANGELOTH
GORDON KNOX BELL	MISS EMMA H. LOCKWOOD
MRS. TEMPLE BOWDOIN	MRS. V. EVERIT MACY
COURTNEY BRANDRETH	MRS. EMILY H. MOIR
WILLIAMSON BUCKMAN	HENRY A. MURRAY
ALFRED G. DALE	MRS. WILLIAM CHURCH OSBORN
T. E. DONNE	MRS. ARMAR D. SAUNDERSON
EDWARD L. DUFOURCQ	GEORGE SHIRAS, 3d
DR. THEODORE DUNHAM	MISS CLARA B. SPENCE
JAMES W. ELLSWORTH	CHARLES H. TOWNSEND
AMBROSE ELY VANDERPOEL	

DECEASED TRUSTEES, BENEFACTORS AND  
MEMBERS

We regret to announce the death of the following Members during 1908:

*Trustee*

GEORGE G. HAVEN

*Patron*

MISS MATILDA W. BRUCE

*Fellow*

MRS. GEORGE W. COLLORD

*Life Members*

RICHARD H. ALLEN

CLARENCE M. HYDE

MISS MATILDA W. BRUCE

JOSEPH LAROCQUE

E. DWIGHT CHURCH

JAMES W. PINCHOT

EDMUND W. DAVIS

AUGUSTE RICHARD

BENJAMIN HART

WILLIAM R. SANDS

IV. FINANCIAL ADMINISTRATION

As usual the financial transactions have been carried in three separate accounts. All receipts and expenditures pertaining to the maintenance of the Museum have been recorded in the City Maintenance Account; those relating to the development of the collections, in the General Account, and those for certain specified purposes, in the Special Funds Account. The details of the receipts and disbursements thus classified will be found in the Treasurer's Report, pages 49 to 57 inclusive. All books and vouchers of these accounts have been duly examined and certified by the Audit Company of New York. The following summary will show the general receipts and disbursements for the past eight years:

SUMMARY OF THE YEARLY EXPENDITURES  
FROM 1901 TO 1908

Year	<i>Maintenance of Museum</i>		<i>Enlargement of Collections by Exploration, Purchase and Publication</i>		
	Appropriations by City	Appropriations by Trustees	From Endow- ment, Mem- bership Dues	From Gifts of Special Funds	Totals
1901	\$130,000.00	\$17,733.75	\$56,077.52	\$43,811.50	\$247,622.77
1902	160,000.00		59,787.14	70,436.73	290,223.87
1903	160,000.00	7,368.54	61,140.24	28,089.54	256,598.32
1904	160,000.00	8,158.69	66,882.64	11,261.05	246,302.38
1905	160,000.00	19,506.41	54,378.82	16,709.56	250,594.79
1906	170,000.00	2,924.04	66,673.35	56,467.96	296,065.35
1907	160,000.00	26,828.52	63,951.44	58,035.62	308,815.58
1908	159,930.62	33,475.97	82,012.48	20,296.81	295,715.88
	\$1,259,930.62	\$115,995.92	\$510,903.63	\$305,108.77	\$2,191,938.94
1909	\$180,000.00				

CITY MAINTENANCE ACCOUNT.—All bills chargeable to this account are first paid by the Museum out of its own funds, about once a month or as often as is practicable, then receipted bills are assembled and with proper vouchers are submitted, through the Department of Parks, to the City for reimbursement. In the course of three to six weeks the City reimburses the Museum for these expenditures. In order that the Museum might not be obliged to draw on its general funds to make these advances for the City, Mr. J. Pierpont Morgan gave to the Museum \$15,000 to serve as a capital in the City Maintenance Account. A statement of this account, therefore, must always show a balance of at least \$15,000.

The City appropriated \$160,000 for the maintenance of the Museum during 1908, but this sum was so apportioned by the City that only \$159,930.62 was available. This amount is smaller than the appropriation of six years ago and is quite insufficient to meet the present running expenses. During this period the growth of the Museum has continued without interruption, new exhibition and storage rooms have been added and the scope of the educational work has been constantly expanding.

Rather than curtail the work of the Museum, the Trustees authorized a deficit of \$33,000 in this account, which has been met by their contributions.

TRUSTEES GENERAL ACCOUNT.—The net receipts in this account were \$119,513.29, of which \$49,905 was received as interest on invested funds; \$1,800 from Life Members; \$16,025 from Annual Members; \$17,500 as personal subscriptions of Trustees, and \$29,405.40 being a part of the \$50,000 contributed by Mrs. Morris K. Jesup for the general purposes of the Museum. It was through this splendid gift of Mrs. Jesup, applied to the purchase of collections and the maintenance of field parties, that the Trustees were able to meet the deficiencies in the City Maintenance Account and close the books for the year without a deficit. It must not be forgotten that the purchase of new collections and the carrying on of the scientific work of the Museum must be met largely from this General Fund, as the money appropriated by the City cannot be used for such purposes.

TRUSTEES SPECIAL FUNDS ACCOUNT.—All of the moneys carried in this account have been contributed for specific purposes and each fund is carried on the books virtually as a special account.

It is through the generous contributions of friends to these funds that it is possible for the Museum to take up important lines of research and to procure valuable collections which cannot be obtained through the regular resources of the Museum. The importance of these special funds in the development of the institution is readily understood. The subscriptions to this account during the past year for the development of specific departments was \$28,050.64.

TRUSTEES PERMANENT ENDOWMENT.—All bequests and funds not otherwise designated are invested as a permanent endowment and the income alone is applied to the purposes of the Museum.

The payment of the \$1,000,000 bequest of Mr. Morris K. Jesup marks the largest contribution that has ever been made to the endowment; indeed, it practically doubles it. This money has been invested by the Finance Committee since December 31, 1908, so that at the present time the par value of the Permanent Endowment is \$2,162,750. It is the interest from these investments which constitutes the chief source

of income of the General Account. In the ultimate analysis, the growth of the collections and the extent of the Museum's researches and explorations are dependent largely on the amount of the permanent endowment. Even with the addition of Mr. Jesup's bequest the endowment is insufficient for the present needs, and a fund of at least \$5,000,000 is urgently needed if we are to maintain our present position among the museums of the world.

Very respectfully yours

HENRY FAIRFIELD OSBORN

*President*

May 1, 1909



## FINANCIAL STATEMENT 1908

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### *PERMANENT ENDOWMENT\**

General Fund.....	\$996,750 00	
John B. Trevor Fund. ....	25,000 00	
Josiah M. Fiske Fund.....	10,000 00	
Matilda W. Bruce Fund.....	11,000 00	
Solomon Loeb Fund.....	5,000 00	
		\$1,047,750 00
Uninvested Cash:		
Balance from 1907.....	\$406 61	
Bequest of Morris K. Jesup.....	1,000,000 00	
		\$1,000,406 61
		\$2,048,156 61

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\*The interest on the Permanent Endowment is the chief source of income of the General Account.





CITY MAINTENANCE ACCOUNT\*

DISBURSEMENTS

1908

Geology and Invertebrate Palæontology.....	\$6,957 34
Mammalogy and Ornithology.....	8,698 72
Mineralogy and Conchology.....	2,250 00
Vertebrate Palæontology.....	14,431 52
Anthropology.....	14,336 64
Entomology.....	2,486 00
Invertebrate Zoölogy.....	8,915 36
Library.....	10,468 57
Physiology.....	1,777 06
Public Instruction.....	4,105 71
Preparation and Exhibition.....	14,790 80
General Supplies and Expenses.....	7,660 11
Heating and Lighting.....	21,930 25
Repairs and Installation.....	15,366 95
Administration.....	59,231 56
<b>Total disbursements for the maintenance of all departments.....</b>	<b>\$193,406 59</b>
Interest on Credit Balances transferred to General Account.....	112 61
Loans.....	5,500 00
Cash on hand December 31, 1908.....	15,000 00
	<u>\$214,019 20</u>

CHARLES LANIER, *Treasurer*

[E. & O. E.]

NEW YORK, *December 31, 1908*

\*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 AMERICAN MUSEUM OF NATURAL HISTORY

GENERAL ACCOUNT

RECEIPTS

1908

Temporary Working Fund Capital.....		\$500 00
Interest on Permanent Endowment.....	\$49,905 00	
Interest on Credit Balances.....	601 31	
Fellow: Miss Carola Woerishoffer.....	500 00	
Life Members:		
Ambrose Ely Vanderpoel.....	\$100 00	
Alfred G. Dale.....	100 00	
Theodore Dunham.....	100 00	
Williamson Buckman.....	100 00	
Miss Emma H. Lockwood.....	100 00	
Miss Clara B. Spence.....	100 00	
Mrs. V. Everit Macy.....	100 00	
Mrs. Temple Bowdoin.....	100 00	
Edwin Swift Balch.....	100 00	
Jacob Langeloth.....	100 00	
Mrs. Emma B. Auchincloss.....	100 00	
Mrs. Emily H. Moir.....	100 00	
Mrs. William Church Osborn.....	100 00	
James W. Ellsworth.....	100 00	
Henry A. Murray.....	100 00	
Gordon Knox Bell.....	100 00	
Hugh Hill.....	100 00	
George Shiras gd.....	100 00	
		1,800 00
Annual Members.....		16,025 00
Henry F. Osborn, for support of the Department of Vertebrate Palæontology.....		2,000 00
Sales and Exchanges.....		1,446 10
Sale of Publications.....		330 48
Contributions of Trustees:		
Charles Lanier.....	\$1,000 00	
Anson W. Hard.....	1,000 00	
George S. Bowdoin.....	1,000 00	
Joseph H. Choate.....	1,000 00	
Adrian Iselin.....	500 00	
J. Pierpont Morgan.....	3,000 00	
William Rockefeller.....	2,000 00	
John B. Trevor.....	1,000 00	
Frederick E. Hyde.....	1,000 00	
A. D. Juilliard.....	1,000 00	
D. O. Mills.....	1,000 00	
Arthur Curtiss James.....	1,000 00	
C. C. Cuyler.....	1,000 00	
Percy R. Pyne.....	2,000 00	
		17,500 00
Transferred from Special Funds:		
Gift of Mrs. Morris K. Jesup, for the purchase of special col- lections and for the maintenance of field parties for 1908.....		29,405 40
<b>Total receipts for the development of all departments.....</b>		<b>\$119,513 29</b>
Reimbursements.....		4,119 24
Loans.....		6,700 00
		<u>\$130,832 53</u>

Examined and Approved { ANSON W. HARD  
GUSTAV E. KISSEL } Auditing  
A. D. JUILLIARD } Committee

GENERAL ACCOUNT\*

DISBURSEMENTS

1908

Geology and Invertebrate Palæontology.....	\$999 73
Mammalogy and Ornithology.....	6,586 23
Mineralogy and Conchology.....	291 46
Vertebrate Palæontology.....	14,311 24
Anthropology.....	11,058 75
Entomology.....	333 82
Invertebrate Zoölogy.....	3,766 72
Library.....	5,885 14
Physiology.....	596 59
Public Instruction.....	4,293 78
Preparation and Exhibition.....	1,281 93
Publications.....	16,730 97
General Supplies and Expenses.....	11,902 26
Professor Osborn's Research and Publication Fund..	3,171 11
Sales and Exchanges.....	293 08
Interest on Loans.....	287 69
Interest on Overdrafts.....	221 98
<b>Total disbursements for the development of all departments.....</b>	<b>\$82,012 48</b>
Transferred to City Maintenance Account to bal- ance deficit.....	33,525 06
Loans.....	6,700 00
Bank Loan of 1907.....	8,094 99
Temporary Working Fund Capital.....	500 00
	<u>\$130,832 53</u>

CHARLES LANIER, *Treasurer*

[E. & O. E.]  
NEW YORK, December 31, 1908

\* 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.

SPECIAL FUNDS ACCOUNT

RECEIPTS

1908

MAMMALOLOGY AND ORNITHOLOGY :

North American Ornithology Fund:

John L. Cadwalader.....	500 00	
H. B. Hollins.....	250 00	
Mrs. Morris K. Jesup.....	150 00	
Henry Clay Pierce.....	500 00	
H. Aug. Schermerhorn.....	500 00	
Mrs. Harriet L. Schnyler.....	250 00	
Mrs. John B. Trevor.....	100 00	
Mrs. Robert Winthrop.....	250 00	
F. Brandreth.....	100 00	
Charles Lanier.....	150 00	
		\$2,750 00
Mrs. Frank K. Sturgis Fund, balance.....		321 78
		<u>\$3,071 78</u>

MINERALOGY:

Matilda W. Bruce Fund:

Balance from 1907.....	\$34 25	
Interest.....	660 00	
		<u>694 25</u>

VERTEBRATE PALÆONTOLOGY:

Sysonby Fund, balance.....	645 88	
Morris K. Jesup Fund:		
Estate of Morris K. Jesup.....	1,610 00	
Fossil Fish Exploration Fund:		
Balance from 1907.....	\$629 34	
Cleveland H. Dodge.....	2,000 00	
Horse Exploration Fund:		
Frank K. Sturgis.....	250 00	2,629 34
Alaskan Mammoth Exploration Fund:		
Balance from 1907.....	38 40	
Percy R. Pyne.....	856 14	
J. P. Morgan, Jr.....	856 14	
		<u>1,750 68</u>
		6,885 90

ANTHROPOLOGY:

Hyde Exploration Fund: B. T. B. Hyde.....	\$1,200 00	
Wm. Demuth Collection, balance.....	38 17	
East Asiatic Fund, balance.....	3,674 50	
Berlin North American Fund, balance.....	78 50	
Mural Decoration Fund: Arthur Curtiss James.....	1,000 00	
Morris K. Jesup Fund, Special.....	1,680 35	
Bureau of Missions Fund.....	840 00	
Benin Ivories, balance.....	500 00	
George S. Bowdoin, Gift.....	2,500 00	
		<u>11,511 52</u>
Carried forward.....		\$22,163 45

SPECIAL FUNDS ACCOUNT

DISBURSEMENTS

1908

MAMMALOGY AND ORNITHOLOGY:

North American Ornithology Fund.....	\$2,394 45	
Mrs. Frank K. Sturgis Fund.....	258 00	
	<u>          </u>	\$2,652 45

MINERALOGY:

Matilda W. Bruce Fund.....		685 25
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VERTEBRATE PALÆONTOLOGY:

Sysonby Fund .....	645 38	
Morris K. Jesup Fund.....	1,610 00	
Fossil Fish Exploration Fund.....	444 90	
Horse Exploration Fund.....	250 00	
Alaskan Mammoth Exploration Fund.....	1,750 68	
	<u>          </u>	4,701 46

ANTHROPOLOGY:

Hyde Exploration Fund.....	\$1,200 00	
East Asiatic Fund.....	493 75	
Mural Decoration Fund.....	900 00	
Morris K. Jesup, Special.....	1,680 35	
Bureau of Missions Fund .....	10 00	
Benin Ivories, Gift.....	500 00	
George S. Bowdoin, Gift.....	2,500 00	
	<u>          </u>	7,284 10

ENTOMOLOGY:

Hoffman Entomological Fund .....		102 50
Carried forward.....		<u>          </u>
		\$15,425 76

*SPECIAL FUNDS ACCOUNT*

RECEIPTS—*Continued*

<i>Brought forward</i> .....		\$22,163 45
ENTOMOLOGY:		
Hoffman Entomological Fund, balance.....		102 50
FORESTRY:		
Jesup Collection North American Forestry, balance.....		716 73
PUBLICATIONS:		
Jesup North Pacific Expedition Publications:		
Balance from 1907.....	832 96	
Estate of Morris K. Jesup.....	<u>4,000 00</u>	
		\$4,832 96
PUBLIC INSTRUCTION:		
Children's Room Fund:		
Subscriptions.....		<u>235 00</u>
<b>Total receipts for the development of specific departments</b>		<b>\$28,050 64</b>
INVESTMENT FUND:		
Balance from 1907.....	\$406 61	
Estate of Morris K. Jesup.....	<u>1,000,000 00</u>	
		1,000,406 61
GIFT OF MRS. MORRIS K. JESUP.....		50,000 00
MORRIS K. JESUP, SPECIAL LOAN.....		16,000 00
INTEREST ON CREDIT BALANCES:		
Earnings to December 31, 1908.....		<u>488 70</u>
		<u><u>\$1,094,945 95</u></u>

Examined and Approved { ANSON W. HARD  
GUSTAV E. KISSEL  
A. D. JUILLIARD } *Auditing Committee*



*SPECIAL FUNDS ACCOUNT\**

DISBURSEMENTS—*Continued*

<i>Brought forward</i> .....	\$15,425 76
FORESTRY:	
Jesup Collection North American Forestry.....	716 73
PUBLICATIONS:	
Jesup North Pacific Expedition Publications.....	4,103 23
PUBLIC INSTRUCTION:	
Children's Room Fund.....	51 09
<b>Total disbursements for the development of specific departments</b> .....	<u>\$20,296 81</u>
MORRIS K. JESUP, SPECIAL LOAN.....	16,000 00
GIFT OF MRS. MORRIS K. JESUP:	
Transferred to General Account for the purchase of special collections and for the maintenance of field parties for 1908.....	29,405 40
Interest on Credit Balances, transferred to General Account... ..	* 488 70
	<u>\$66,190 91</u>
Cash on hand December 31, 1908.....	\$1,028,755 04
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	<u><u>\$1,094,945 95</u></u>

CHARLES LANIER, *Treasurer*

[E. & O. E.]  
NEW YORK, *December 31, 1908*

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\*In this account are carried all moneys given to the Museum for specific purposes and not intended for the endowment.

# LIST OF ACCESSIONS, 1908

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## DEPARTMENT OF PUBLIC INSTRUCTION

### BY GIFT

- AMERICAN BLACKSMITH COMPANY, Buffalo, N. Y.  
14 Mounted Photographs of Congo material.
- W. L. BEASLEY, New York City.  
4 Negatives. Views in Museum.
- F. C. T. BECK, New York City.  
1 Photograph. View of Virgo Bay, Spitzbergen.
- GEORGE W. COLLORD, New York City.  
2 Photographs. Bronze statues.
- T. E. DONNE, Wellington, New Zealand.  
29 Photographs of Maori Carvings and Types from New Zealand.
- H. G. HERRING, London, England.  
1 Photograph. Elephant in London Museum.

### BY PURCHASE

- W. L. MUNRO, Providence, R. I.  
1 Photograph of Moose.

## DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALÆONTOLOGY

### GEOLOGY

#### BY GIFT

- DR. B. E. DAHLGREN, New York City.  
Limestone showing wind erosion, from the Bahama Islands.
- JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J.  
Graphite Ore in its crude and manufactured form.
- CALIFORNIA STATE MINING BUREAU (through Mr. Lewis E. Aubury), San Francisco, Calif.  
40 Oils and oil sands from California.
- R. H. EMTAGE, Barbados, W. I.  
Manjak, country rock and crude oil, from St. Andrews Parish, Barbados.
- MRS. GEORGE MAX ESTERLY, Nazina, Alaska.  
32 Copper Nuggets from Chititu Creek, Copper River District, Alaska.

MRS. MORRIS K. JESUP, New York City.

Hornblende Schist intersected with Pyrite veins, Charlemont,  
Franklin County, Mass.

3 Ness County Meteorites.

DR. JOSEPH SIMMONS, New York City.

1 Rock specimen from Victoria Falls, Zambesi River.

UNNAMED DONOR.

Specimens of Native Copper from Lake Superior and Azurite and  
Malachite from Arizona.

BY EXCHANGE

DR. C. GOTTSCHKE, Hamburg Museum, Hamburg, Germany.

1 Polished and etched complete section of the Gibeon (Africa) Iron  
Meteorite and a model of the entire mass.

PROF. F. C. LINCOLN, Butte, Montana.

68 Samples of ores, concentrates and tailings, illustrating the mill  
work done upon copper ores at Butte; 15 specimens showing  
smelter work; 19 specimens illustrating the geology and mine-  
ralogy of the Butte district.

OTTO PFORDTE, Rutherford, N. J.

Collection of ores from Peru, comprising 47 specimens.

PROF. G. STEINMANN, Bonn, Germany.

Bombs and specimens of lava from Eifel, Germany, the largest bomb  
being an elliptical mass 2 feet long.

THROUGH MUSEUM EXPEDITION

Volcanic bombs, rock specimens and minerals from Martinique, St.  
Vincent, Grenada and Barbados, also about 645 photographs.  
Collected by Dr. E. O. Hovey. Provided for by Mrs. Morris  
K. Jesup.

BY LOAN

LOUIS HEILPRIN, New York City.

Eight paintings of Mont Pelé, Martinique, made by the late Angelo  
Heilprin.

INVERTEBRATE PALÆONTOLOGY

BY GIFT

BARNUM BROWN, New York City.

18 Plants, Ft. Union Group; 7 Plants, Hell Creek beds, and 35  
Plants, Laramie beds, Weston County, Wyoming.

PROF. BASHFORD DEAN, New York City.

1 *Micraster leski*, from Dover, England.

DAVID HUNTER, Saugerties, N. Y.

2 Pygidia of *Homalonotus vanuxemi*, from Saugerties, N. Y.

W. PUGGS, Staten Island, N. Y.

Ammonite (internal cast). Dredged in the North Sea, Europe.

C. H. STERNBERG, Lawrence, Kan.

40 Lamellibranchs, 5 Ammonites, 4 Baculites, 21 Gastropods, from Laramie beds at Converse County, Wyoming.

Mrs. ANNA W. STUBBLEFIELD, Cumberland, Md.

27 Bases of *Edriocrinus sacculus*, 4 *Platyceras* sp., Oriskany Sandstone; 1 *Astylospongia inornata*, 2 pygidia of *Homalonotus vanuxemi*, Lower Helderberg, Pendleton County, West Virginia; 2 *Pseudocrinites perderweyi*, 1 *Pseudocrinites gordonii*, 2 *Jackelocystites hartleyi*, 2 *Camarocrinus marylandica*, Lower Helderberg at Keyser, Mineral County, West Virginia.

## DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY

### MAMMALS

#### BY GIFT

W. H. BERGTOLD, M.D., Denver, Colo.

1 Bat (in alcohol).

EDWARD BRECK, South Milford, Nova Scotia.

1 Black Bear, young (skin and skull).

L. C. BULKLEY, M. D., Bangkok, Siam.

1 Mouse Deer, 2 *Tamias leucotis*.

DR. H. C. BUMPUS, New Rochelle, N. Y.

1 Persian Cat.

JAMES CHAPIN, New York City.

1 Bat, 2 Wood Rats.

GODFREY CHESHIRE, Charlotte Hall School, Maryland.

1 Shrew (young).

S. H. CHUBB, New York City.

1 Brewer's Mole.

Mrs. R. R. CORNELL, New York City.

1 Package of Beaver cuttings.

CAPTAIN M. L. CRIMMINS, Fort Crook, Neb.

50 Small mammals.

DEPARTMENT OF PARKS, New York City.

1 Hippopotamus, 2 Nihlgai, 1 Monkey, 1 Tapir, 2 Leopards, 2 Elks, 1 Grison, 1 Camel.—Total, 11 specimens received in the flesh from the Central Park Menagerie.

DR. J. GRINNELL, Berkeley, Calif.

41 Small mammals.

A. HEINRICH, Baldwin, N. Y.

2 Brown Bats, 1 Red Bat.

J. HESDORFER, New York City.

1 Virginia Deer.

- SAMUEL HURWITZ, New York City.  
 2 Brown Bats.
- MRS. MORRIS K. JESUP, New York City.  
 349 Specimens of mammals from Nicaragua.  
 196 Specimens of mammals from North West Territories.  
 9 Specimens of mammals from Saskatchewan, Canada.
- GNEOMAR VON KROCKOW, New York City.  
 1 Brown Bat.
- D. O. MILLS, New York City.  
 8 Seal skins for group.
- MR. MORGANTHUER.  
 1 Bison Head.
- NEW YORK ZOÖLOGICAL SOCIETY, New York City.  
 1 Binturong, 1 Squirrel, 1 Coatimondi, 1 Mountain Sheep, 2 Chimpanzees, 1 Eskimo Dog, 1 Chuddan Antelope, 1 Manatee, 2 Baboons, 1 Opossum, 1 Kinkajou, 1 Kangaroo, 1 Beaver, 1 Llama, 1 Antelope, 1 Deer, 1 Timber Wolf, 1 Humboldt Monkey, 1 Tasmanian Wolf, 1 Chamois, 1 Carpon Rat, 2 Porpoise skeletons, 1 Harbor Seal, 1 Mountain Goat, 1 Aoudad, 1 Ant-eater, 1 Buffalo.—Total, 30 specimens received in the flesh from the New York Zoölogical Park and the New York Aquarium.
- COMMANDER R. E. PEARY, U. S. N.  
 1 Peary's Caribou (young).
- R. D. PERRY, Victoria, B. C.  
 1 Skin of *Ornithorhynchus*.
- L. S. QUACKENBUSH, New York City.  
 1 White Whale skull and small mammals from Alaska.
- H. C. RAVEN, New York City.  
 1 Common Dolphin skull.
- JOHN ROWLEY, Palo Alto, Calif.  
 1 *Reithrodontomys* skin.
- MRS. ARMAR D. SAUNDERSON, Belturbet, County Cavan, Ireland.  
 1 Bongo Antelope (mounted), 1 Bush Pig (mounted), 1 Grant's Zebra skin.
- ERNEST THOMPSON SETON, Cos Cob, Conn.  
 2 Richardson's Spermophiles, 1 Cross Fox.
- COL. A. E. WARD, Kashmir, N. India.  
 59 Small mammals.
- THOMAS H. WHEELER, Petatlan, Mex.  
 1 Mexican Hairless Dog.
- FRANK WOOD, New Bedford, Mass.  
 3 Arctic Spermophiles.

## BY EXCHANGE

- 4 Small mammals from East Africa, 5 small mammals from Long Island, N. Y., 17 small mammals from Utah, 169 small mammals from Colorado, 4 Old World Bats.—Total, 199 specimens.

## THROUGH MUSEUM EXPEDITIONS

- 38 Small mammals from North West Territories. Collected by Dr. R. M. Anderson. Provided for by Mrs. Morris K. Jesup.  
 18 Small mammals from Vancouver Island. Collected by Mr. R. C. Andrews. Provided for by Mrs. Morris K. Jesup.

## BIRDS

## BY GIFT

- CAPTAIN R. M. ANDERSON, New York City.  
 1 Cardinal.
- L. C. BULKLEY, M.D., Bangkok, Siam.  
 22 Siamese birds.
- JAMES CHAPIN and W. DEW. MILLER, New York City.  
 13 Small birds.
- G. E. B. COWAN, New York City.  
 1 Parrot.
- DEPARTMENT OF PARKS, New York City.  
 18 Swans, 1 Duck, 3 Geese, 2 Storks, 2 Cranes, 8 Pheasants, 1 Turkey, 1 Partridge, 1 Turkey-Vulture, 5 Eagles, 1 Hawk, 3 Owls, 18 Parrots and Cockatoos, 4 Toucans, 3 Passerine birds.—Total, 71 specimens received in the flesh from the Central Park Menagerie.
- J. D. FIGGINS, New York City.  
 5 Small birds.
- G. C. FISHER, DeFuniak Springs, Fla.  
 1 Crow, 1 Yellow Palm Warbler.
- G. D. FRANKLIN, New York City.  
 1 Junco.
- WINTHROP GARDINER, Gardiner's Island, N. Y.  
 Pair of Hooded Mergansers (mounted).
- A. O. HEINRICH, Baldwin, N. Y.  
 1 Screech Owl, 1 Rose-breasted Grosbeak.
- BRUCE HORSFALL, Redbank, N. J.  
 1 Sora Rail.
- C. B. ISHAM, New York City.  
 1 Pine Warbler.
- MRS. MORRIS K. JESUP, New York City.  
 140 Bird skins from Canada, and 835 from Nicaragua.
- R. B. LAWRENCE, New York City.  
 1 Wilson's Phalarope.
- MISS A. C. MAXWELL, New York City.  
 1 Wilson's Phalarope.
- NEW YORK ZOÖLOGICAL SOCIETY, New York City.  
 1 Ostrich, 1 Screamer.
- NORTH AMERICAN ORNITHOLOGICAL FUND.  
 24 Specimens, collected in Florida, by Mr. Frank M. Chapman, for Museum Bird Groups.

H. V. RADFORD, North Creek, N. Y.

1 Blue Jay.

H. RAVEN, New York City.

1 Hermit Thrush, 1 Fox Sparrow.

HON. THEODORE ROOSEVELT, Oyster Bay, N. Y.

1 Pair of Canada Grouse, 1 Wood Duck, 1 Passenger Pigeon.

MRS. FRANK K. STURGIS, New York City.

75 Birds of Paradise, representing 46 species.

C. H. TOWNSEND, New York City.

63 Birds, mostly from western North America.

COL. A. E. WARD, Kashmir, N. India.

24 Birds from India.

#### BY EXCHANGE

223 Skins from Costa Rica; 62 skins from Japan; 2 Wrens from Venezuela; 3 skins from eastern United States.

#### BY MUSEUM EXPEDITIONS

50 Skins and several nests with eggs from Canada. Collected by Dr. R. M. Anderson. Provided for by Mrs. Morris K. Jesup.

24 Skins from British Columbia. Collected by Mr. R. C. Andrews. Provided for by Mrs. Morris K. Jesup.

#### THROUGH LOCAL COLLECTING

34 Skins from Long Island, N. Y.

### DEPARTMENT OF VERTEBRATE PALÆONTOLOGY

#### BY GIFT

C. FORSTER COOPER, Cambridge University, England.

Fossil Tortoise skull and remains of Dodo from the Island of Mauritius.

J. D. FIGGINS, New York City.

Parts of Mastodon teeth and other fossils from Tiger Bay, Florida.

MRS. MORRIS K. JESUP, New York City.

Collection of teeth and other fossils from the phosphate deposits of South Carolina; models of skull and jaws of *Mastitherium* and *Palæomastodon*, skeleton of the Mountain Zebra; tooth of *Mastodon americanus*; skeleton of primitive amphibian from the Permian of Bohemia, and one fossil specimen purchased from W. S. Nehms.

#### BY EXCHANGE

MUSEO NACIONAL, Buenos Aires, Argentina.

Collection of specimens and casts of South American fossil mammals.

ROYAL MUSEUM, Brussels, Belgium.

Cast of lower jaw of *Hyracotherium maldani*.



## THROUGH MUSEUM EXPEDITIONS

## MIOCENE OF NEBRASKA.

Skeletons of *Stenomylus*, *Merycochærus* and *Merychippus*; skulls of rhinoceroses, camels, horses, oreodonts and various other specimens of the Lower and Middle Miocene and the Lower Pliocene epochs. Collected by Messrs. Matthew, Thomson, Cook, Moodie and Stein. Provided for by Mrs. Morris K. Jesup.

## PERMIAN OF TEXAS.

Skulls and parts of skeletons of *Diadectes*, *Pariotichus*, *Dimetrodon* and other primitive reptiles and amphibians of the Permian period. Collected by Dr. E. C. Case. Provided for by Mrs. Morris K. Jesup.

## PLEISTOCENE OF ALASKA.

Collection of mammoth and other fossil remains from Eschscholtz Bay, Alaska, obtained by Mr. L. S. Quackenbush. Provided for by Messrs. Percy R. Pyne and J. P. Morgan, Jr.

## UPPER CRETACEOUS OF MONTANA.

Skeleton of *Tyrannosaurus*, skull of *Triceratops* and other remains of dinosaurs of the Upper Cretaceous period. Collected by Messrs. Barnum Brown and P. C. Kaison. Provided for by Mrs. Morris K. Jesup.

## DIVISION OF FOSSIL FISHES

## BY GIFT

## CLEVELAND H. DODGE FUND.

- 12 Fossil fishes from the Devonian of Scotland, chiefly *Asterolepis* and *Coccosteus*, and 1 *Psammosteus*, from the collection of Mr. William Taylor of Lhanbryde, Scotland.
- 5 Fossil fishes from the Jurassic, Solnhofen, Germany.
- 12 Fossil fishes from the Devonian of Scotland and the Cretaceous of Mt. Lebanon, Syria.
- 18 Fossil fishes from the Devonian of Scotland, especially *Dipterus*, *Osteolepis* and *Cephalaspis*, from the collection of Mr. W. T. Kinnear of Forfar, Scotland.
- 200 Teeth of the extinct shark *Carcharodon megalodon* from the phosphate beds of South Carolina.
- Small collection of Devonian fishes of Scotland, made by Mr. T. McAdam.
- 2 Paintings representing extinct fishes of the Devonian period in America, executed by Mr. Kako Morita, under the direction of Professor Bashford Dean.

## BY EXCHANGE

THE ROYAL SCOTTISH MUSEUM, Edinburgh, Scotland (through the courtesy of Dr. R. H. Traquair).

A collection of 48 specimens of fishes from the Old Red Sandstone of Scotland.

DEPARTMENT OF ANTHROPOLOGY

BY GIFT

- GEORGE ALBRO, South Kingston, R. I.  
14 Stone arrow points from near Kingston, R. I.
- DR. S. T. ARMSTRONG, New York City.  
5 Stone axes from Cuba.
- BELGIAN GOVERNMENT.  
Large ethnological collection from the Congo, Africa.
- W. M. BLAKE, Brooklyn, N. Y.  
23 Ethnological specimens from Africa.
- HENRY BOOTH, Poughkeepsie, N. Y.  
5,000 Archæological specimens from New York State.
- GEORGE S. BOWDOIN, New York City.  
Hawaiian feather cape.
- BULL CHILD, Montana.  
Blackfoot drum and Prairie Chicken from medicine bundle, Montana.
- DR. WALTER CHANNING, Brookline, Mass.  
1,834 Casts of palates.
- JAMES CHAPIN, Seaford, Del.  
8 Archæological specimens from Seaford, Del.
- ALEXANDER C. CHENOWETH, New York City.  
Human skull from Indian grave, Inwood, Manhattan Island.
- J. R. CUSHIER, New York City.  
11 Photographs, Peru and Bolivia.
- T. E. DONNE, Wellington, N. Z.  
1 Skeleton and 2 skulls from Auckland, New Zealand.
- DR. J. J. EDWARDS, Wayne, Ind.  
4 Pieces of pottery and 183 stone implements, Wayne, Ind.
- ROBERT F. GILDER, Omaha, Neb.  
Human bones from ancient mound near Omaha, Neb.
- HARPER BROTHERS, New York City.  
Lapland sled. Collected by Paul B. Du Chaillu.
- ARCHER M. HUNTINGTON, New York City.  
2 Carved ivory tusks from Benin, Africa.
- MRS. MORRIS K. JESUP, New York City.  
2 Ivory idols from Benin, Africa; large African loom; 2 bronze holders for ivory tusks, Benin, Africa; stone adze and featherwork from New Guinea; 251 ethnological specimens from the Andaman Islands; 5 cloaks worn by Maori chiefs, New Zealand; 2 prows of war canoes, New Zealand; 2 Diegueño baskets, California; 308 ethnological specimens from Eclipse Sound and Pond Bay, Baffin Land; 363 ethnological specimens from the Mohawk, Oneida, Cayuga and Seneca Indians; 5 pieces of cloth, Jaffa, Central Africa; 85 ethnological specimens from South Sea Islands; 1 Hai Tiki and 9 greenstone ornaments, New Zealand; clay stamp for printing designs, Apullo, Peru; 4 baskets and a

carrying yoke of the Kachins, Upper Burma; Cherokee pipe of stone; Hawaiian spear; wax bust of Sioux Indian; casts, specimens from French caves; 113 ethnological specimens from Philippine Islands; 24 ethnological specimens from Great Slave Lake, Alaska and Norway; 132 archæological specimens from Costa Rica, and wooden mortar from the Lenapé Indians.

MRS. D. F. KELLEY, New York City.

2 Indian garters with bead work, Oklahoma.

DR. GEORGE F. KUNZ, New York City.

Seneca Indian mask from Leroy, N. Y.

R. MACCARONE and H. DUFFY, New York City.

Saddle used by Plains Indians.

T. MACGREGOR MACDONALD, St. Vincent, B. W. I.

Carib ax and rubbing stone from Island of St. Vincent.

METROPOLITAN MUSEUM OF ART, New York City.

Collection of human and animal bones from near Pyramids of Lisht, Egypt.

PITSER MILLER, Bolivar, Tenn.

2 Stone points from Bolivar, Tenn.

HON. MASON MITCHELL, U. S. Consul, Chung-king, China.

2 Tibetan scrolls.

G. FREDERIC NORTON, New York City.

20 Ethnological specimens from Discoe Island and Greenland.

GEORGE N. PINDAR, New York City.

Mindanao finger ring, Philippine Islands.

PAUL RADIN, New York City.

Phonographic records, Siouan Indians.

Miss FRANCES L. RISLEY, Hartford, Conn.

Finger ring from Hartford, Conn.

M. F. SAVAGE, New York City.

2 Hopi head-dresses used in Katchina dances; feather head-dress, South America; Hawaiian paddle; Manchu pipe, iron inlaid with gold, China; 2 imperial token coins and imperial scepter, Peking, China, and Madison medal, 1809.

CHARLES H. SENFF, New York City.

124 Swords and knives, Philippine and Malay.

ALANSON SKINNER, Staten Island, N. Y.

Indian basket from Mashpee, Mass.

Pair beaded moccasins from Morley, Alberta, Canada.

CAPT. JOSHUA SLOCUM.

Wooden shield, North Queensland, Australia.

C. H. TOWNSEND, New York City.

46 Ethnological specimens from various localities.

J. REEVE VAN DER VEER, Mt. Kisko, N. Y.

Large stone idol, Mexico.

## THROUGH MUSEUM EXPEDITIONS

- 17 Ethnological specimens from Alberta, Canada, and Belknap, Montana. Collected by Dr. Robert H. Lowie. Provided for by Mrs. Morris K. Jesup.
- 149 Ethnological specimens from region of James Bay, Canada. Collected by Mr. Alanson Skinner. Provided for by Mrs. Morris K. Jesup.
- 41 Archæological specimens from Wyoming. Collected by Mr. Harlan I. Smith. Provided for by Mrs. Morris K. Jesup.
- 38 Archæological specimens from Grande Ronde River Valley, Washington. Collected by Mr. H. J. Spinden. Provided for by Mrs. Morris K. Jesup.
- 42 Ethnological specimens from Korea. Collected by Dr. C. C. Vinton.
- 28 Phonographic records from the Pine Ridge Agency, S. D. Collected by Mr. James R. Walker.
- 9 Ethnological specimens from North Dakota. Collected by Rev. Gilbert L. Wilson. Provided for by Mrs. Morris K. Jesup.

## BY EXCHANGE

CARNEGIE MUSEUM, Pittsburg, Pa.

- 513 Archæological specimens from Costa Rica and Colombia.

FREE MUSEUM OF SCIENCE AND ART, Philadelphia, Pa.

Model of hut, Borneo.

GEORGE G. HEYE, New York City.

- 96 Stone implements from Island of St. Vincent.

MUSEO ETHNOGRAFICO, Buenos Aires, Argentina.

- 95 Archæological specimens from Calchaqui, Argentina.

DR. P. J. SARASIN, Geneva, Switzerland.

- 19 Ethnological specimens from Sumatra, Ceylon and Burma.

ERNEST SCHERNIKOW, New York City.

- 156 Archæological specimens from Costa Rica.

UNIVERSITY OF CALIFORNIA, Berkeley, Calif.

- 32 Baskets and implements from California and Oregon.

UNITED STATES NATIONAL MUSEUM, Washington, D. C.

- 15 Casts of pottery vessels, West Indies.

- 3 Human skulls from Illinois and Arkansas.

## DEPARTMENT OF ENTOMOLOGY

## BY GIFT

HENRY M. BILLINGS, New York City.

- 1 Hornets' nest (*Vespa maculata*) from Poland, Maine.

W. E. BRITTON, New Haven, Conn.

- 2 *Tortricidia pallida*, 1 *Tortricidia flexuosa*, 1 *Lithacodes fasciola* var. *laticlavata*, 2 *Sesia scitula*.

- CHARLES T. BRUES, Milwaukee, Wis.  
 1 *Catocala pretiosa* from Wisconsin.  
 1 " *ultronia* var. *adriana* from Wisconsin.
- OTTO BUCHHOLZ, Newark, N. J.  
 4 *Datana chiriquiensis* from Arizona.
- A. C. BURRILL, Milwaukee, Wis.  
 Nest of Mud Wasp (*Trypoxylon*).
- PROF. T. D. A. COCKERELL, Boulder, Colo.  
 Type of *Neurotoma cockerelli* Rohwer, *Dineura cockerelli* Rohwer, *Fenusa primula* Rohwer, *Palæotoxonus trivittatus* Rohwer, *Syrphus willistoni* Cockerell, *Tabanus parahippi* Cockerell, *Tabanus hipparionis* Cockerell, *Chilosia miocenica* Cockerell, *Psilocephala hypogæa* Cockerell, *Lithocosmus coquilletti* Cockerell, *Psilocephala scudderi* Cockerell, *Sciomyza florissantensis* Cockerell, *Megacosmus mirandus* Cockerell, *Lithogryllitis lutzii* Cockerell and a number of other fossil insects, all from Florissant, Colorado.
- GEORGE FRANCK, Brooklyn, N. Y.  
 6 *Cybister olivieri* from Florida.
- WALTER GRANGER, New York City.  
 A collection of Insects from Fayûm Desert, Africa.
- E. D. HARRIS, New York City.  
 2 *Cicindela fera* from Mexico.  
 2 " *curvata* from Mexico.  
 2 " *flavopunctata* from Mexico.
- SAMUEL V. HOFFMAN, New York City.  
 Collection of Butterflies from Mexico, Brazil, Japan and Africa.  
 2 *Papilio blumi* from Celebes.
- DR. W. T. HORNADAY, New York City.  
 3 *Eleodes armata* from Sonora, Mexico.
- DR. E. O. HOVEY, New York City.  
 Insects from Martinique, F. W. I.
- MRS. MORRIS K. JESUP, New York City.  
 A collection of Tiger Beetles.  
 A collection of Beetles and Moths from Arizona.  
 Swarm of Honey Bees with Observation Hive.  
 Collection of North American Beetles.  
 18 Large Grasshoppers from Florida.  
 2 *Hemileuca electra* from California.  
 2 *Chrysophanus hermes*.
- R. H. JOHNSON, Cold Spring Harbor, N. Y.  
 Coccinellidæ from Kamiack Butte, Wash.
- H. H. LYMAN, Montreal, Canada.  
 2 *Gortyna nitela* from Canada.  
 2 " *marginidens* from Canada.
- RAYMOND OSBURN, New York City.  
 1 Cotype of *Sphecomylia occidentalis* from British Columbia.

MAJOR WIRT ROBINSON, West Point, N. Y.

A collection of Beetles from the Yellowstone Park, Wyoming, and Chico, Montana.

Beetles from Merida, Venezuela.

Specimens of larvæ and pupæ of *Monohammus scutellatus*.

ERNEST SHOEMAKER, Brooklyn, N. Y.

2 *Mecas ruficollis* from Washington, D. C.

4 *Saperda calcarata* from New York.

H. TAYLOR, Long Beach, N. Y.

2 *Monohammus titillator* from Long Island.

V. VON UNRUH, New York City.

Specimen of mud nest of *Trypoxylon*.

S. WOLFF, New York City.

A collection of Chrysomelidæ from Europe.

Moths and Insect-galls from Georgia.

C. H. YOUNG, New York City.

1 *Arctia figurata* from Connecticut.

1 *Noctuid* from Connecticut.

#### THROUGH MUSEUM EXPEDITIONS

Local Insects collected by Mr. William Beutenmüller in the vicinity of New York.

Insects from Colorado collected by Mr. Gneomar von Krockow. Provided for by Mrs. Morris K. Jesup.

A collection of Insects from Florida made by Mr. M. C. Van Duzee. Provided for by Mrs. Morris K. Jesup.

#### BY EXCHANGE

4 *Datana robusta* from San Diego, Calif. (from W. S. Wright).

6 *Conservula anodonta*.

2 *Eutolype rolandi*.

1 *Agrotis youngi* (from W. E. Britton, New Haven, Conn.).

2 *Catocala nymphagoga* from Crimea.

1 " *streckeri* " Siberia.

3 " *pacta* " Russia.

2 " *electa* " Europe.

1 " *helena* " Siberia.

2 " *delecta* " Crimea.

1 " *dula* " Siberia.

2 " *adultera* " Russia.

1 " *elocata* " Austria.

2 *Aporia kreitneri* " Sinin Alps.

2 " *peloria* " "

1 *Papilio albidion* " China.

1 *Parnassius nordmani* " Caucasus.

2 " *apollinius* " Pamir Mts.

1 " *stubbendorfi* from Japan.

- 1 *Parnassius berezovski* from China.  
 2 *Baltic butleri* from China.  
 1 *Pararge eversmanni* from Sarawshan.  
 1 *Satyrus pumilus* “ Lob Noor.  
 1 *Erebia radians* “ Fergana.  
 1 *Argynnis eva* “ Thibet.  
 1 “ *hegemone* “ China.  
 1 “ *generator* “ “  
 1 “ *eugenia* “ Kentei Mts.  
 1 *Cænonympha sunbecca* “ China (from N. J. Kusnezov, Academy of Sciences, St. Petersburg, Russia).

## DEPARTMENT OF MINERALOGY AND CONCHOLOGY

## MINERALOGY

BY GIFT

## THE MATILDA W. BRUCE FUND.

- 95 Specimens of minerals, including Aerugite, Allagite, Ancylyte, Anglesite, Apatite, Apophyllite, Azurite, Badenite, Barite, Batavite, Belonesite, Benitoite, Beryl, Bliabergite, Bobierite, Britholite, Brostenite, Caledonite, Carminite, Cassiterite, Cerusite, Chondrarsenite, Chrome-Ochre, Covellite, Cuprogoslarite, Cyprusite, Davreuxite, Daubrécieite, Degeröspath, Derbylite, Embolite, Epsomite, Fluorite, Foresite, Friedlerite, Garnet, Hainite, Hydrocalcite, Hydrogiobertite, Hydromagnesite, Hydrorhodonite, Iodyrite, Jogynaitite, Josephinite, Kamarezite, Karelinitite, Kieserite, Kornerupine, Leucosphenite, Lodestone (pseudomorph?), Matricite, Misenite, Pelhamine, Persbergite, Phaestine, Picrotephroite, Pollucite, Quartz (enclosing sulphur), Quartzine, Reichardite, Rhodochrosite, Schröckerिंगite, Semseyite, Silver, Sodalite, Sommailrite, Spodiophyllite, Stibnite, Titan-Olivine, Topaz, Villarsite, Vivianite, Westanite, Willyamite, Yttriumapatite, Xanthiosite, Zinckenite.

N. CAROLIN, New York City.

Three sheets of colorless Mica (Muscovite) from Canada.

EDWARD L. DUFOURCQ, New York City.

- 8 Specimens of Argentite (all crystallized and one very unusual);  
 2 specimens of Polybasite with wire Silver; 8 specimens of Stephanite (crystallized), from Las Chispas Mine, Arizpe, Sonora, Mexico.

I. A. GRERY, New York City.

A miscellaneous collection of mineral specimens containing Actinolite, Agate, Asphalt, Chalcopyrite, Copper, Galena, Gypsum, Limonite, Lodestone, Quartz, Serpentine.



- H. H. HINDSHAW, New York City.  
Artificial furnace product from a "Salamander."
- MRS. MORRIS K. JESUP, New York City.  
11 Specimens of minerals, including Algodonite, Askanite, Augelite, Awaruite, Gold, Molybdate, Platinum, Smithsonite, Tapiolite, Vanadinite.  
5 Photographs of mineral localities.
- MAX J. KUELMEL, New York City.  
Gypsum concretion around metallic iron, from Louderville, N. Y.
- H. LANG, New York City.  
Split pebble of Agate from British East Africa.
- WILLIAM POOLE LOSS, Greenwater, Colo.  
1 Specimen of Colemanite.  
2 Specimens of Pandermite (Colemanite) from Death Valley, Inyo Co., Calif.
- HENRY SWANN MANNING, New York City.  
1 Specimen of Calamine (large and crystallized) from Ogdensburg, N. J.
- J. S. MERRIAM, New York City.  
Specimens of Agatized Wood from Chalcedony Park, Apache Co., Ariz., (one large handsome section).
- REV. G. S. NICHOLAS, New York City.  
Actinolite Schist from West 69th Street, New York City.
- ALEXANDER OUTIAKOFF, Ekaterinburg, Russia.  
Plate of Iridosmium from near Miass, Ural Mts., Russia.
- PRESIDENT AND DIRECTORS OF THE MINAS PEDRAZZINI COMPANY (through Edward L. Dufourcq, E. M.).  
A unique specimen of crystallized Polybasite from Las Chispas Mine, Arizpe, Sonora, Mexico.
- QUINCY MINING COMPANY, New York City.  
1 Flat crystallized plate of Native Copper and 1 chip (pneumatic), from Upper Peninsula, Mich.
- GEORGE D. SNYDER, New York City.  
Corundum fragments and crystals from Waynesville, N. C.
- UNITED STATES GRAPHITE COMPANY, Saginaw, Mich. (through Mr. Joseph S. Peters, New York City).  
Large block of foliated Graphite from Santa Maria Mine, State of Sonora, Mexico.
- PROF. T. L. WALKER, University of Toronto, Canada.  
1 Specimen of Tungstite, Salmo, B. C.  
1 Specimen of Wolframite, Salmo, B. C.
- JULIUS WODISKA, New York City (through Mr. A. S. Williams).  
1 Bloodstone (intaglio).  
3 Gray Tiger-eye Cameos.  
5 Initial and Emblem Onyxes.  
7 Sard Intaglios and Cameos.  
2 Cut Topazes.

## BY EXCHANGE

- ROBERT B. GAGE, New Jersey State Survey.  
 2 Specimens of Breithauptite, Silver, and Smaltite; specimens of Cobaltite crystals, and 1 specimen of Freibergite, from Cobalt, Ontario, Canada.
- H. C. JENKINS, New York City.  
 1 Specimen each of Chabazite, Laumontite (superior), and Natrolite, from Great Notch and Weehawken, N. J.
- CHARLES H. JONES, New York City.  
 1 Specimen of the very rare pyramidal Calcite from Kelly's Island, Erie Co., Ohio.
- G. O. SIMMONS, Brooklyn, N. Y.  
 1 Specimen of Benitoite, Benito Co., Calif.  
 1 Specimen of Corundum ("crystallized ruby") from Franklin Furnace, N. J.

## BY PURCHASE

Small entire mass of Aerolite (broken from larger mass in fall) from the Ness County, Kansas, aerolite. Weight, 8 oz.

## CONCHOLOGY

## BY GIFT

- FRANCISCO E. BLANES, Cardenas, Cuba.  
 540 Specimens, comprising 47 species and 5 varieties, from Cuba, and representing marine bivalves and univalves and land shells.
- DEPARTMENT OF INVERTEBRATE ZOOLOGY, American Museum of Natural History.  
 A small collection of Bivalves and Univalves (alcoholic) from the Island of Formosa.
- A. DA COSTA GOMEZ, Brooklyn, N. Y.  
 Large mass of *Vermetus varians* d'Orb, from Clear Water Bay, Dunedin, Fla.
- CHARLES DAYTON GWYER, Brooklyn, N. Y.  
 1 Specimen of *Fossarina petterdi* Brug., from Tasmania.
- A. E. HEIGHWAY, New York City (through the United States National Museum, Washington, D. C.).  
 64 Specimens of Shells from Pinar del Rio, Cuba, comprising 4 species *Helicina*, 1 *Chondropoma*, 1 *Megalomastoma*, 2 *Liguus*, 2 *Cepolis*, 1 *Pleurodonte*.
- FELIX H. HUNICKE, New York City.  
 A varied assortment of Shells from the West Indies; Bivalves (*arca*, *asaphis*, *cardium*, *donax*, *lucina*, *inacoma*, *pecten*, *pectunculus*, *tellina*) and Univalves (*cassis*, *conus*, *cypraea*, *fissurella*, *natica*, *patella*, *strombus*).

COL. C. A. H. McCAULEY, U. S. A.

A large number of Philippine Island Shells of the more common species of *Cassis*, *Cerithium*, *Conus*, *Cypræa*, *Fasciolaria*, *Murex*, *Nassa*, *Verita*, *Natica*, *Oliva*, *Ovula*, *Strombus*, *Triton*, *Trochus*, *Voluta* and *Helix*, with Bivalves, *Crista*, *Pecten* and *Tellina*; in all about 500 specimens.

NEW YORK BOTANICAL GARDEN, New York City (through Mr. M. A. Home).

9 Specimens of *Avicula* from Watling's Island, Bahamas.

DR. HUGH M. SMITH, Washington, D. C.

200 Specimens of Philippine Island Shells, comprising *Cassis*, *Conus*, *Cypræa* (9 species), *Distorsio*, *Fusus*, *Harpa* (*H. minor*), *Murex*, *Natica*, *Nautilus*, *Ovula*, *Ranella*, *Strombus*, *Terebra*, *Trochus*, *Turritella*.

BY EXCHANGE

FRANKFORT MUSEUM, Frankfort, Germany (through Dr. Römer).

4,330 Specimens of Philippine Island Shells, comprising 477 species and varieties.

J. W. JUDD, Brooklyn, N. Y.

Specimens of *Helix aperta* Born, from Sicily, and of *H. alauda* Ferg., from Cuba.

W. E. METCALF, Orange, N. J.

1 Specimen of *Cypræa clandestina*, L. var.

DEPARTMENT OF INVERTEBRATE ZOÖLOGY

INVERTEBRATES

BY GIFT

C. W. BEEBE, New York City.

Various Invertebrates from Venezuela.

Miss JOSEPHINE BROCKER, New York City.

2 Spiders from Kingsbridge, N. Y.

A. C. BURRILL, Milwaukee, Wis.

Various Myriapods from southern Wisconsin.

Mrs. EDWARD CHAMBERLIN, New York City.

1 *Maandra cerebriformis*.

Miss EMILY W. DINWIDDIE, New York City.

1 *Epeira trifolium* from vicinity of Jersey City, N. J.

CHARLES GABRIEL, New York City.

1 *Thalysias hyano* and 6 Sea-fans (*Gorgonia flabellum*) from Soufrière Bay, St. Lucia, B. W. I.

Miss E. M. GREENFIELD, New York City.

1 *Euplectella speciosissima*.

JOHN HISCOX, New York City.

1 Encrusted Oyster Shell and 2 *Pecten magellanicus*.

- MRS. MORRIS K. JESUP, New York City.  
 Various Ants, Myriapods, Spiders, Crustacea, Molluscs and Worms from Formosa, Japan; 189 specimens of Formicidæ and 7 specimens of *Paussus* from Erythræa, New Pomerania, Peru, Bolivia, etc.; 1 collection of Myriapods and Isopods from Europe and northern Africa.
- PROF. R. KLEBS, Königsberg, Prussia, Germany.  
 32 Amber Ants from Baltic Sea.
- GNEOMAR VON KROCKOW, L. F. BARNUM and OGDEN GILES, Brooklyn, N. Y.  
 Various Myriapods, Isopods, Spiders and Termites from vicinity of New York City and Catskill Mts.
- MISS BERTHA S. MILLER, Port Antonio, B. W. I.  
 1 Land Planarian (*Geoplana* sp.) from Port Antonio, Jamaica, B. W. I.
- ROY W. MINER, New York City.  
 1 Collection of Myriapods from Lake George.
- ROBERT MURPHY, Providence, R. I.  
 Isopods from gills of Bluefish, Mt. Sinai Harbor, N. Y.
- MISS NELLIE NEWTON, New York City.  
 1 *Gorgonia flabellum* from Somerset, Bermuda.
- NEW YORK AQUARIUM, New York City.  
 1 Lobster and 1 Octopus.
- M. F. SAVAGE, New York City.  
 1 Larva of Regal Walnut Moth (*Citheronia regalis*) from Bartonsville, Pa.
- LOUIS SCHADE, New York City.  
 1 Large mounted Lobster caught from Iberia wreck, Long Beach.
- H. J. SHANNON, Jamaica, L. I.  
 6 Ctenophores from Far Rockaway, L. I.
- UNITED STATES BUREAU OF FISHERIES, Washington, D. C.  
 1 Lot of Myzostomata from eastern coast of Japan.
- PROF. W. M. WHEELER, Harvard University, Cambridge, Mass.  
 1 Collection of Formicidæ (one of the three largest collections of Formicidæ in existence) from various localities.

## THROUGH MUSEUM EXPEDITIONS

- Parasites from Humpback Whale from Kyugust, Vancouver Island, British Columbia, and Whale Lice (*Cyamus* sp.) on "bonnet" of *Balæna glacialis* from Amagansett, L. I. Collected by Mr. R. C. Andrews. Provided for by Mrs. Morris K. Jesup.
- 1 Lot of Scolopendridæ from Andros Island, Bahamas. Collected by Dr. B. E. Dahlgren. Provided for by Mrs. Morris K. Jesup.
- 1 Lot of Corals and other Marine Invertebrates from Andros Island, Bahamas. Collected by Dr. B. E. Dahlgren and Mr. H. Mueller. Provided for by Mrs. Morris K. Jesup.

- 1 Lot of Myriapods from Big Tink Pond, Pike Co., Pa. Collected by Mr. G. Dwight Franklin.
- 1 Spider Crab from St. Lucia, B. W. I. Collected by Dr. E. O. Hovey. Provided for by Mrs. Morris K. Jesup.
- 1 Collection of Invertebrates from Colorado and 1 Lot of *Nereis* from South Shore of Long Island. Collected by Mr. Gneomar von Krockow. Provided for by Mrs. Morris K. Jesup.
- 1 Collection of Myriapods from New York State and 1 Collection of Myriapods from Pacific Slope, U. S., Mexico and Hawaiian Islands. Collected by Professor Filippo Silvestri.

BY EXCHANGE

HARVARD UNIVERSITY (MUSEUM OF COMPARATIVE ZOOLOGY), Cambridge, Mass.

- 1 Collection of 80 Echinoderms from various localities.

REPTILES AND AMPHIBIANS

BY GIFT

ANONYMOUS.

- 1 *Rana palustris*.

ROBERT VAN BENSCHOTEN, New York City.

- 1 Green Snake with eggs from Halifax County, Nova Scotia.

CENTRAL PARK MENAGERIE, New York City.

- 1 *Python molurus*.

S. H. CHUBB, New York City.

- 1 *Amphiuma means* from Louisiana.

A. M. FOWLER, New York City.

- 1 Newly hatched Terrapin.

G. DWIGHT FRANKLIN, New York City.

- 1 *Bufo fowleri* and 1 *Rana clamata* from Baldwin, L. I.; 1 *Bufo americanus*, 2 *Spelerpes bilineatus* and 2 *Desmognathus fusca* from Washington, Conn., and 1 *Bufo americanus* from Big Tink Pond, Pike Co., Pa.

ADAM HERMANN, New York City.

- 1 Lizard with eggs from Westphalia, northern Germany.

MRS. MORRIS K. JESUP, New York City.

- 1 Lot of Snakes and Lizards from Oklahoma and Georgia; 1 Leatherback Turtle from Bay Head, N. J.; 1 skin and rattle of *Crotalus horridus* from Louisiana; 1 collection of Amphibia from Fort Smith and Great Slave Lake; 9 specimens of Amphibia from China; 1 Lizard and 1 Frog from Formosa, Japan, and 1 *Alligator sinensis* from China.

GNEOMAR VON KROCKOW, Brooklyn, N. Y.

- 1 *Plethodon glutinosus* from Englewood, N. J., and 1 *Plethodon cinereus erythronotus* from Ft. Lee, N. J.

## NEW YORK AQUARIUM, New York City.

- 1 *Cryptobranchus japonicus* from Japan and 1 *Diemyctylus viridescens*.

## NEW YORK ZOOLOGICAL PARK, New York City.

- 12 Snakes, 6 Lizards, 1 Alligator and 7 Batrachians from vicinity of New York City.

## THROUGH MUSEUM EXPEDITIONS

- 1 Lot of Batrachians from Big Tink Pond, Pike Co., Pa. Collected by Mr. G. Dwight Franklin.  
 1 *Thamnophis sirtalis* var. from Vancouver, B. C. Collected by Mr. R. C. Andrews. Provided for by Mrs. Morris K. Jesup.  
 1 Lot of Reptiles from Big Tink Pond, Pike Co., Pa. Collected by Mr. G. Dwight Franklin.  
 30 Reptiles and 21 Amphibia from Colorado. Collected by Mr. Gneomar von Krockow. Provided for by Mrs. Morris K. Jesup.

## FISHES

## BY GIFT

W. M. BLAKE, Brooklyn, N. Y.

- 5 Saws of Saw-fish.

G. DWIGHT FRANKLIN, New York City.

- 1 *Perca flavescens* from Big Tink Pond, Pike Co., Pa.

A. O. HEINRICH, Baldwin, L. I.

- 1 Eel and 1 *Ammodytes americanus* from Hempstead Bay, L. I.

JOHN HISCOX, New York City.

- 1 Codfish.

MRS. MORRIS K. JESUP, New York City.

- Various Fishes from Formosa, Japan; 1 collection of Fishes from the Mackenzie River, Fort Smith and Great Slave Lake, and 1 *Tarpon atlanticus* from Florida.

FREDERICK McVICKAR, Mt. Vernon, N. Y.

- 1 Lot of Fishes and Fish Eggs from Hunter's Island and the Bronx.

ROBERT C. MURPHY, Providence, R. I.

- 1 Stickleback from Mt. Sinai Harbor, N. Y.

S. L. NAGELE, New York City.

- 1 *Selene vomer*, 1 skin of Gar-pike and a specimen of *Alosa sapidissima* with hermaphroditic reproductive organs.

NEW YORK AQUARIUM, New York City.

- 1 Nassau Grouper (*Epinephelus striatus*) from Bahamas.

- 1 Bullhead Catfish (*Ameiurus nebulosus*) from upper part of New York State.

- 1 Trunk Fish (*Lactophrys*).

- 1 Channel Bass *Sciaenops ocellatus* (L.).

- 1 *Diplodus holbrookii*.
- 1 *Teuthis cœruleus*.
- 1 *Sparisoma viridis*.
- 1 *Aplodinotus grunniens*.
- 1 *Epinephelus guttatus*.

G. ROSS, Pike Co., Pa.

- 1 Small-mouthed Black Bass from Big Tink Pond, Pike Co., Pa.

BY PURCHASE

- 1 Lump Fish.
- 1 Pike.
- 1 Sturgeon.
- 1 Gar-pike.
- 1 *Trachinotus carolinus* from Florida coast.
- 1 *Esox lucius* from upper part of New York State.

BY MUSEUM EXPEDITION

- 1 Lot of Fishes from Boulder Creek, Boulder, Colo. Collected by Mr. Gneomar von Krockow. Provided for by Mrs. Morris K. Jesup.

TREES

BY GIFT

DR. GEORGE F. KUNZ, New York City.

Section of Hawthorn tree from old Parish Mansion, New York City.

J. S. MERRIAM, New York City.

2 Pieces of Sequoia from "Giant Sequoia Forest," near King's River Cañon, Calif.

DR. JOSEPH SIMMONS, New York City.

- 1 Mahogany Bean from vicinity of Zambesi River, Africa.

THROUGH MUSEUM EXPEDITION

- 97 Fossil Leaves from Florissant, Colo. Collected by Mr. Gneomar von Krockow. Provided for by Mrs. Morris K. Jesup.



# INCORPORATION

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## AN ACT

TO INCORPORATE THE

## AMERICAN MUSEUM OF NATURAL HISTORY

Passed April 6, 1869

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*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 and recreation.

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



# CONTRACT

## WITH THE DEPARTMENT OF PUBLIC PARKS

FOR THE OCCUPATION OF THE NEW BUILDING

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THIS AGREEMENT, made and concluded on the twenty-second day of December, in the year one thousand eight hundred and seventy-seven, between the DEPARTMENT OF PUBLIC PARKS OF THE CITY OF NEW YORK, the party of the first part, and the AMERICAN MUSEUM OF NATURAL HISTORY, party of the second part, witnesseth:

*Whereas*, by an Act of the Legislature of the State of New York, passed April 22d, 1876, entitled "An Act in relation to the powers and duties of the Board of Commissioners of the Department of Public Parks, in connection with the American Museum of Natural History, and the Metropolitan Museum of Art," the said party of the first part is authorized and directed to enter into a contract with the said party of the second part, for the occupation by it of the buildings erected or to be erected on that portion of the Central Park in the City of New York, known as Manhattan Square, and for transferring thereto and establishing and maintaining therein its museum, library and collections, and carrying out the objects and purposes of said party of the second part; and,

*Whereas*, a building contemplated by said act has now been erected and nearly completed and equipped in a manner suitable for the purposes of said Museum, as provided in the first section of the Act of May 15, 1875, known as Chapter 351, of the Laws of 1875, for the purpose of establishing and maintaining therein the said Museum, as provided by the said last-named act, and by the Act of April 5, 1871, known as Chapter 290, of the Laws of 1871; and,

*Whereas*, it is desired as well by the said party of the first part, as by the said party of the second part, that, immediately upon the completion and equipment of said building, the said party of the second part should be established therein, and should transfer thereto its museum, library and collections, and carry out the objects and purposes of the said party of the second part;

Now, therefore, it is agreed by and between the said parties as follows, namely:

*First.*—That the said party of the first part has granted and demised and let, and doth, by these presents, grant, demise and let, unto the said party of the second part, the said buildings and the appurtenances thereunto belonging, to have and to hold the same so long as the said party of the second part shall continue to carry out the objects and purposes defined in its charter; or such other objects and purposes as by any future amendment of said charter may be authorized; and shall faithfully keep, perform, and observe the covenants and conditions herein contained on its part to be kept, performed and observed, or until the said building shall be surrendered by the said party of the second part, as hereinafter provided.

*Secondly.*—That neither the party of the first part, its successor or successors, nor the Mayor, Aldermen and Commonalty of the City of New York, shall be in any manner chargeable or liable for the preservation of the said building or the property of the party of the second part which may be placed therein, against fire, or for any damage or injury that may be caused by fire to the said property; but it is agreed that, damages as aforesaid excepted, the said party of the first part will keep said building, from time to time, in repair.

*Thirdly.*—That as soon after the completion and equipment of said building as practicable, said party of the second part shall transfer to, and place and arrange in said building, its museum, library and collections, or such portion thereof as can be properly displayed to the public therein, and shall have and enjoy the exclusive use of the whole of said building,

subject to the provisions herein contained, and the rules and regulations herein prescribed, during the continuance of the term granted, or until a surrender thereof, as herein provided.

*Fourthly.*—That the exhibition halls of said building shall, on Wednesday, Thursday, Friday and Saturday of each week, and on all legal or public holidays, except Sundays, be kept open and accessible to the public, free of charge, from nine o'clock A.M. until half an hour before sunset, under such rules and regulations as the party of the second part shall from time to time prescribe; but on the remaining days of the week the same shall be only open for exhibition to such persons, upon such terms as the said party of the second part shall from time to time direct. But all professors and teachers of the public schools of the City of New York, or other institutions of learning in said city, in which instruction is given free of charge, shall be admitted to all the advantages afforded by the said party of the second part, through its museum, library, apparatus, and collections, or otherwise, for study, research and investigation, free of any charge therefor, and to the same extent and on the same terms and conditions as any other persons are admitted to such advantages, as aforesaid.

*Fifthly.*—That the museum, library and collections, and all other property of said party of the second part, which shall or may be placed in said building, shall continue to be and remain absolutely the property of said party of the second part, and neither the said party of the first part nor the said the Mayor, Aldermen and Commonalty, shall by reason of said property being placed in said building, or continuing therein, have any right, title, property or interest therein; nor shall the said party of the second part, by reason of its occupation and use of said building under this agreement, acquire, or be deemed to have any right, title, property or interest in said building, except so far as expressly granted by this agreement.

*Sixthly.*—That the said party of the second part shall, on or before the first day of May, in every year, during the continuance of this agreement, submit to the said party of the first part, its successor or successors, a detailed printed report of the

operations and transactions of the said party of the second part, and all its receipts and payments, for the year ending with the 31st day of December next preceding.

*Seventhly.*—That said party of the first part shall have, at all times, access to every part of the said building for general visitation and supervision, and also for the purpose of the performance of the duties devolved upon it by the laws of the State of New York, or of the City of New York. That the police powers and supervision of said party of the first part shall extend in, through and about said building. That the said party of the second part may appoint, direct, control and remove all persons employed within said building, and in and about the care of said building, and the museum, library and collections therein contained.

*Eighthly.*—That said party of the second part may, at any time, after the expiration of three, and before the expiration of six, months from the date of the service of a notice in writing to said party of the first part, its successor or successors, or to the Mayor of the City of New York, of its intention so to do, quit and surrender the said premises and remove all its property therefrom; and upon and after such notice, the said party of the second part shall and will, at the expiration of the said six months, quietly and peaceably yield up and surrender unto the said party of the first part and its successors all and singular the aforesaid demised premises. And it is expressly understood and agreed by and between the parties hereto that if the said party of the second part shall omit to do, perform, fulfill or keep any or either of the covenants, articles, clauses and agreements, matters and things herein contained, which on its part are to be done, performed, fulfilled or kept, according to the true intent and meaning of these presents, then and from thenceforth this grant and demise shall be utterly null and void. And in such case it shall and may be lawful for said Department to serve or cause to be served on the said party of the second part a notice in writing declaring that the said grant hereinbefore made has become utterly null and void and thereupon the said party of the first part, its successor or successors (ninety days' time being first given to the said party



of the second part to remove its property therefrom), may reënter, and shall again have, repossess and enjoy the premises aforementioned, the same as in their first and former estate, and in like manner as though these presents had never been made, without let or hindrance of the said party of the second part, anything here contained to the contrary notwithstanding.

*Ninthly.*—And it is further expressly understood and agreed, by and between the parties hereto, that this agreement may be wholly canceled and annulled, or, from time to time, altered, or modified, as may be agreed, in writing, between the said parties, or their successors, anything herein contained to the contrary in anywise notwithstanding.

*In witness whereof*, the party of the first part hath caused this agreement to be executed by their President and Secretary, pursuant to a resolution of the Board of Commissioners of said Department, adopted at a meeting held on the thirtieth day of January, in the year of our Lord one thousand eight hundred and seventy-eight; and the said party of the second part hath caused the same to be executed by their President, and their official seal affixed thereto, pursuant to a resolution of the Trustees of the American Museum of Natural History, adopted at a meeting held on the twelfth day of February, in the year of our Lord one thousand eight hundred and seventy-seven.

In presence of  
D. PORTER LORD.

JAMES F. WENMAN,  
*President Department of Public Parks  
of the City of New York.*

WILLIAM IRWIN,  
*Secretary Department of Public Parks  
of the City of New York.*

ROBERT L. STUART,  
*President American Museum of  
Natural History.*

SEAL  
of the American  
Museum of  
Natural History



STATE OF NEW YORK, }  
 City and County of New York, } ss. :

On this 12th day of February, in the year 1878, before me personally came James F. Wenman, President of the Department of Public Parks of the City of New York, and William Irwin, Secretary of the said Department of Public Parks, with both of whom I am personally acquainted, and both of whom being by me duly sworn, said that they reside in the City and County of New York; that the said James F. Wenman is the President, and the said William Irwin is the Secretary of the said Department of Public Parks, and that they signed their names to the foregoing agreement by order of the Board of Commissioners of the said Department of Public Parks, as such President and Secretary.

[SEAL.]

W. C. BESSON,  
 (73) *Notary Public N. Y. Co.*

STATE OF NEW YORK, }  
 City and County of New York, } ss. :

On this 12th day of February, in the year 1878, before me personally came Robert L. Stuart, the President of the American Museum of Natural History, with whom I am personally acquainted, who being by me duly sworn, said that he resides in the City and County of New York, that he is the President of the American Museum of Natural History, and that he knows the corporate seal of said museum, that the seal affixed to the foregoing agreement is such corporate seal, that it is affixed thereto by order of the Board of Trustees of said American Museum of Natural History, and that he signed his name thereto by the like order, as President of said Museum.

[SEAL.]

W. C. BESSON,  
 (73) *Notary Public N. Y. Co.*

Recorded in the office of the Register of the City and County of New York in Liber 1426 of Cons., page 402, February 16, A. D. 1878, at 9 o'clock A.M., and examined.

Witness my hand and official seal,

[SEAL.]

FREDERICK W. LOEW,  
*Register.*

NOTE.—July 25, 1892, by consent of the Trustees, section fourth was modified to enable the Trustees to open the Museum free to the public "throughout the year, excepting Mondays, but including Sunday afternoons and two evenings of each week."

June 29, 1893, by consent of the Trustees, section fourth was modified to enable the Trustees to open the Museum free of charge to the public "throughout the year for five days in each week, one of which shall be Sunday afternoon, and also two evenings of each week."

CONSTITUTION  
OF THE  
AMERICAN MUSEUM OF NATURAL HISTORY  
IN THE CITY OF NEW YORK  
Amended November 9, 1908

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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 who shall not be a "Patron" of the Museum, unless by a unanimous vote of a quorum of the Board, nor be

eligible 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 quarterly, on the second Monday of every February, May, August and 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 quarterly meeting in February, 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. The President and Vice-Presidents shall be elected from among the Trustees. The Treasurer and Secretary may or may not be chosen from such 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, 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.

#### ARTICLE V

SECTION 1. The President shall have a general supervision and direction over 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.

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.

SEC. 3. The Treasurer shall receive and disburse the funds of the Museum. He shall report in writing, at each quarterly 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.

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.

These accounts shall be under the care of an Assistant Treasurer, who 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.

SEC. 5. The offices of Secretary and Assistant Treasurer may be held by the same person.

## ARTICLE VI

The Executive Committee shall consist of nine Trustees, of whom the President, First and Second Vice-Presidents and Treasurer, in case he be a Trustee, shall be four, and five other members 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 to purchase, sell and exchange specimens and books, to employ agents, to regulate the manner and terms of exhibiting the Museum to the public, and generally to carry out in detail the directions of the Trustees; but the Executive Committee shall not incur any expense or liability for the Museum exceeding two thousand dollars at one time, or exceeding in all ten thousand dollars, in the interval between the quarterly meetings of the Trustees, without the express sanction of the Trustees. 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.

No bills shall be paid unless approved, in writing, by the President, the Chairman of the Executive Committee, or the Director.

## ARTICLE VIII

The Finance Committee shall consist of four Trustees, including the Treasurer in case he be a Trustee. 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.

## 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 five candidates to be elected by ballot at the said meeting.

#### ARTICLE X

The President shall be a member, *ex-officio*, of all standing committees.

#### ARTICLE XI

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 XII

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 XIII

The contribution of \$1,000 or more to the funds of the Museum, at any one time, shall entitle the person giving the same to be a Patron of the Museum, who shall have the right in perpetuity to appoint the successor in such patronship.

The contribution of \$500, at one time, shall entitle the person giving the same to be a Fellow, who 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.*

The contribution of \$100, at one time, shall entitle the person giving the same to be a Life Member.

Any person may be elected by the Trustees to either of 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, and the President and Secretary shall issue diplomas accordingly under the seal of the Museum.

The Trustees may also elect Honorary Fellows of the Museum in their discretion.

#### ARTICLE XIV

Any person who has held the office of President for ten or more successive years may be elected by the Trustees as Honorary President for life.

#### ARTICLE XV

No alterations shall be made in this Constitution, unless at a regular quarterly 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 alteration, embodying the amendment proposed to be made, having been given at a regular meeting.



## BY-LAWS

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### I

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 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.

[NOTE.—A Subscriber's Ticket admits to the laboratories and parts of the Museum not open to the public, 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 laboratories and parts of the Museum not open to the public, and are issued to Subscribers for distribution among friends and visitors.]

### II

Any Trustee who shall fail to attend three consecutive Regular Quarterly Meetings of the Board shall cease to be a Trustee, unless excused by the Board.

### III

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. Any desired additional expenditure shall first receive the approval of the Board of Trustees.

### IV

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.

V

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.

VI

All bequests or legacies, not especially designated, 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.

VII

At such times as it may be impracticable to obtain the services of the members of the Auditing Committee, the members of the Executive Committee may act in their place and stead.



FOR THE EQUIPPING AND FINISHING OF THE  
BUILDING AND THE CONSTRUCTION OF  
ADDITIONS THERETO

LEGAL ENACTMENTS OF 1905

BY THE BOARD OF ALDERMEN

AN ORDINANCE providing for an issue of Corporate Stock in the sum of five hundred thousand dollars (\$500,000), to provide means for the equipping and finishing of The American Museum of Natural History in Manhattan Square, Borough of Manhattan, and the construction of additions thereto.

Be it ordained by the Board of Aldermen of the City of New York as follows:

SECTION 1. The Board of Aldermen hereby approves of and concurs in the following resolution adopted by the Board of Estimate and Apportionment March 16, 1905, and authorizes the Comptroller to issue Corporate Stock of The City of New York to the amount and for the purposes therein specified:

"*Resolved*, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended by chapter 409 of the Laws of 1904, the Board of Estimate and Apportionment hereby approves of the issue of Corporate Stock of The City of New York, to an amount not exceeding five hundred thousand dollars (\$500,000), to provide means for the equipping and furnishing of The American Museum of Natural History in Manhattan Square, Borough of Manhattan, and the construction of additions thereto, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue Corporate Stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding five hundred thousand dollars (\$500,000), the proceeds whereof to be applied to the purposes aforesaid."

Adopted by the Board of Aldermen April 11, 1905, a majority of all the members elected voting in favor thereof.

Approved by the Mayor April 18, 1905. (Signed) P. J. SCULLY, *Clerk*.

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Contracts awarded to December 31, 1906.

For the erection of Fire Lines, Sprinkler System, Fire Escapes, etc.

Contract awarded R. J. F. Gerstle Company, November 26, 1905, \$19,838.

Completed January 11, 1907.

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For the erection and completion of a New Wing, to be known as the South Wing of the West Façade, and a Permanent Cellar Passageway running therefrom in northerly and easterly direction.

Contract awarded Guidone & Galardi, May 22, 1906, \$325,000.

Completed June 6, 1908.

APPROPRIATIONS AND EXPENDITURES MADE THEREON  
TO DECEMBER 31, 1908

APPROPRIATION:

By Direct Appropriation.....	\$500,000 00	
Premium on Sale of Bonds.....	10,564 83	
		\$510,564 83

EXPENDITURES:

Museum Orders.....	\$30,435 18	
Carpenters' Payroll, etc.....	38,166 21	
Cady, Berg & See.....	6,935 71	
R. J. F. Gerstle Co.....	19,838 00	
Charles Volz, Architect's Fees....	991 89	
Guidone & Galardi.....	325,600 00	
Charles Volz, Architect's Fees....	16,279 95	
		438,246 94

OUTSTANDING CONTRACTS:

Connecticut Dynamo & Motor Co..	\$875 09	
M. G. Reeves.....	1,596 00	
		2,471 09
		\$440,718 03
Available Balance Dec. 31, 1908.....		\$69,846 80

# LIST OF MEMBERS

## PATRONS

EDWARD D. ADAMS.	JOHN D. CRIMMINS.
JOHN ANDERSON.*	JOHN J. CROOKE.
JAMES ANGUS.*	CORNELIUS C. CUYLER.
HICKS ARNOLD.*	W. M. DONGAN DE PEYSTER.
RICHARD ARNOLD.*	L. P. DI CESNOLA.*
WILLIAM H. ASPINWALL.*	A. G. PHELPS DODGE.
JOHN JACOB ASTOR.*	CLEVELAND H. DODGE.
WILLIAM WALDORF ASTOR.	WILLIAM E. DODGE, 1st.*
HUGH AUCHINCLOSS.*	WILLIAM E. DODGE, 2d.*
BENJAMIN AYMAR.*	Mrs. WILLIAM E. DODGE.
Mrs. GUY ELLIS BAKER.	ANDREW E. DOUGLASS.*
A. H. BARNEY.*	JOSEPH W. DREXEL.*
D. N. BARNEY.*	D. G. ELLIOT.
JAMES GORDON BENNETT.	Mrs. M. SCHUYLER ELLIOT.
FREDERICK BILLINGS.*	JAMES R. ELY.
HEBER R. BISHOP.*	Lieut. G. T. EMMONS, U.S.N.
GEORGE BLISS.*	BENJAMIN H. FIELD.*
GEORGE T. BLISS.*	CYRUS W. FIELD.*
Miss SUSAN DWIGHT BLISS.	CYRUS W. FIELD, Jr.*
WILLIAM T. BLODGETT.*	A. J. FORBES-LEITH.
ROBERT BONNER.*	Prof. AUGUSTE FOREL.
HENRY BOOTH.	WILLIAM T. GARNER.*
M. C. D. BORDEN.	ELBRIDGE T. GERRY.
J. A. BOSTWICK.*	ROBERT W. GOELET.
GEORGE S. BOWDOIN.	LUDWIG MAX GOLDBERGER.
GEORGE DEXTER BRADFORD.*	JOHN A. C. GRAY.*
ALEX. H. BROWN, M.P.	WILLIAM A. HAINES.*
JAMES BROWN.*	ANSON W. HARD.
Miss MATILDA W. BRUCE.*	OLIVER HARRIMAN.*
HERMON C. BUMPUS.	HENRY O. HAVEMEYER.*
JOHN L. CADWALADER.	THEODORE A. HAVEMEYER.*
Dr. WALTER CHANNING.	GEORGE G. HAVEN.*
JOSEPH H. CHOATE.	GEORGE A. HEARN.
EDWARD CLARK.*	ABRAM S. HEWITT.*
JONAS G. CLARK.*	Mrs. ABRAM S. HEWITT.
JAMES B. COLGATE.*	Very Rev. E. A. HOFFMAN, D.D., LL.D.*
ROBERT COLGATE.*	Mrs. EUGENE A. HOFFMAN.
FREDERICK A. CONSTABLE.*	SAMUEL V. HOFFMAN.
Mrs. FREDERICK A. CONSTABLE.	ARCHER M. HUNTINGTON.
JAMES M. CONSTABLE.*	C. P. HUNTINGTON.*
GEORGE C. COOPER.*	Mrs. C. P. HUNTINGTON.
PETER COOPER.*	B. H. HUTTON.*
AUSTIN CORBIN.*	B. T. BABBIT HYDE.
ALEXANDER I. COTHEAL.*	Dr. FREDERICK E. HYDE.

\* Deceased

FREDERICK E. HYDE, Jr.  
 JAMES H. HYDE.  
 ADRIAN ISELIN.\*  
 ADRIAN ISELIN, Jr.  
 ARTHUR CURTISS JAMES.  
 D. WILLIS JAMES.\*  
 CHARLES M. JESUP.  
 MORRIS K. JESUP.\*  
 MRS. MORRIS K. JESUP.  
 H. J. JEWETT.\*  
 J. TAYLOR JOHNSTON.\*  
 A. D. JULLIARD.  
 JAMES R. KEENE.  
 GUSTAV E. KISSEL.  
 CHAS. G. LANDON.\*  
 CHARLES LANIER.  
 JAMES LENOX.\*  
 ADOLPH LEWISOHN.  
 Com. C. A. M. LIEBRECHTS.  
 JOSEPH F. LOUBAT.  
 SETH LOW, LL.D.  
 JOHN B. MARCOU.  
 PHILLIPE MARCOU.  
 EDWARD MATTHEWS.  
 FRANCIS O. MATTHIESSEN.\*  
 GEORGE B. MCCLELLAN.  
 Dr. EDGAR A. MEARNS, U.S.A.  
 HERMAN A. METZ.  
 D. O. MILLS.  
 MASON MITCHELL.  
 J. PIERPONT MORGAN.  
 J. PIERPONT MORGAN, Jr.  
 HENRY FAIRFIELD OSBORN.  
 WM. CHURCH OSBORN.  
 MRS. WM. H. OSBORN.\*  
 OSWALD OTTENDORFER.\*  
 JOHN E. PARSONS.  
 GEORGE FOSTER PEABODY.  
 Dr. WM. PEPPER.\*  
 I. N. PHELPS.\*  
 S. WHITNEY PHENIX.\*  
 HENRY CLAY PIERCE.  
 HENRY W. POOR.  
 PERCY R. PYNE.\*  
 PERCY R. PYNE.  
 J. HAMPDEN ROBB.  
 COLEMAN T. ROBINSON.\*  
 JOHN D. ROCKEFELLER.

JOHN D. ROCKEFELLER, Jr.  
 WM. ROCKEFELLER.  
 Col. ARCHIBALD ROGERS.  
 THEODORE ROOSEVELT.\*  
 THEODORE ROOSEVELT.  
 WM. SCHAUS.  
 WILLIAM C. SCHERMERHORN.\*  
 JACOB H. SCHIFF.  
 HENRY SELIGMAN.  
 JESSE SELIGMAN.\*  
 EDWARD M. SHEPARD.  
 BENJAMIN B. SHERMAN.\*  
 WM. D. SLOANE.  
 JAMES BAKER SMITH.\*  
 CATHERINE L. SPENCER.\*  
 FREDERIC W. STEVENS.  
 D. JACKSON STEWARD.\*  
 A. T. STEWART.\*  
 JAMES STOKES.\*  
 J. G. PHELPS STOKES.  
 ALEXANDER STUART.\*  
 ROBERT L. STUART.\*  
 Mrs. ROBERT L. STUART.\*  
 APPLETON STURGIS.\*  
 Dr. ELIZABETH M. STURGIS.  
 Mrs. FRANK K. STURGIS.  
 JOHN T. TERRY, Jr.  
 Rev. RODERICK TERRY, D.D.  
 Mrs. F. F. THOMPSON.  
 EDWIN THORNE.  
 JOEL WOLFE THORNE.  
 JONATHAN THORNE.\*  
 JONATHAN THORNE.  
 Miss PHEBE ANNA THORNE.  
 SAMUEL THORNE.  
 VICTOR CORSE THORNE.  
 JOHN B. TREVOR.\*  
 JOHN B. TREVOR.  
 Mrs. JOHN B. TREVOR.  
 C. VANDERBILT.\*  
 GEO. W. VANDERBILT.  
 HAROLD GARRISON VILLARD.  
 HENRY VILLARD.\*  
 EDWIN H. WEATHERBEE.  
 Dr. WILLIAM M. WHEELER.  
 WILLIAM C. WHITNEY.\*  
 RICHARD T. WILSON.  
 Miss C. L. WOLFE.\*  
 JOHN D. WOLFE.\*

\* Deceased



## FELLOWS

JOHN ALSTYNE.*	ROBERT LENOX KENNEDY.*
SAMUEL P. AVERY.*	WHEATON B. KUNHARDT.
CHARLES T. BARNEY.*	Prof. WILLIAM LIBBEY, JR.
THOMAS BARRON.*	A. A. LOW.*
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| Andreini, J. M.                   | Ballin, Gustav N.     | Benson, Mrs. Claudine M.   |
|                                   | Ballin, Jacques       | Bergstresser, C. M.        |

- Bernheim, Gustav  
 Bernheim, Isaac J.  
 Bernheimer, Mrs. A.  
 Bernheimer, Charles L.  
 Bernheimer, Simon E.  
 Berolzheimer, Emil  
 Berolzheimer, Philip  
 Berwind, Edward J.  
 Bevin, Leander A.  
 Bickmore, Albert H.  
 Biddle, William C.  
 Bien, Julius  
 Bier, Sylvan  
 Bigelow, Chas. E.  
 Bigelow, Dr. Wm. S.  
 Biglow, L. Horatio  
 Bijur, Moses  
 Billings, C. K. G.  
 Birkhead, Rev. Hugh  
 Birdsall, Mrs. W. R.  
 Bishop, H. R.  
 Bishop, Wm. F.  
 Bitter, Karl  
 Blagden, Dexter  
 Blair, C. Ledyard  
 Blair, Mrs. D. C.  
 Blatchford,  
     Mrs. Samuel A.  
 Bliss, Ernest C.  
 Bliss, Mrs. William H.  
 Blodgett, Miss Eleanor  
 Blodgett, William T.  
 Bloodgood, John H.  
 Bloodgood, Robert F.  
 Bloomer, Dr. Anna  
 Bloss, James O.  
 Blumenthal, Hugo  
 Blumgart, Louis  
 Boas, Emil L.  
 Boettger, Henry W.  
 Bogert, E. C.  
 Boker, Mrs. Carl F.  
 Bond, Frank S.  
 Bonn, William B.  
 Bonner, G. T.  
 Borg, Sidney C.  
 Borne, John E.  
 Bowditch, Chas. P.  
 Bowdoin, Temple  
 Bowen,  
     Mrs. Clarence W.  
 Bowers, John M.  
 Bowne, S. W.  
 Bradley, S. R.  
 Bradley, William H.  
 Brady, James B.  
 Bragaw, E. T.  
 Brainard, Frank  
 Breunich, Henry  
 Brewster, Charles O.  
 Briddon, Dr. Charles K.  
 Briesen, Arthur v.  
 Brightman, F. C. M.  
 Brinckerhoff, Elbert A.  
 Bristol, John I. D.  
 Britton, Dr. N. L.  
 Brookfield, Mrs. Wm.  
 Brookman, Mrs. H. D.  
 Brower, Chas. de Hart  
 Brower, Wm. L.  
 Brown, Charles F.  
 Brown, Edwin H.  
 Brown, J. Crosby  
 Brown, Robert I.  
 Brown, Thatcher M.  
 Brown, Vernon C.  
 Brown, Vernon H.  
 Brown, W. P.  
 Browning, J. A.  
 Browning, Wm. H.  
 Bruggerhof, F. W.  
 Bruns, Edwin G.  
 Bryce, William  
 Buchanan, William  
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     L. Duncan, M.D.  
 Bunker, William  
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 Burgess, Edward G.  
 Burghard,  
     Mrs. Edward M.  
 Burleigh, George W.  
 Burleigh, Col. John L.  
 Burns, Dr. Bert. A.  
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 Burr, Wm. H.  
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 Bush, D. Fairfax  
 Bush, W. T.  
 Butler, Charles S.  
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 Butler, Howard Russell  
 Butler, Miss Virginia  
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 Calder, J. F.  
 Calman, Henry L.  
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 Cammann, Miss I. M.  
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 Canfield, George F.  
 Cannon, H. W.  
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 Carpenter, Chas. W.  
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 Carse, John B.  
 Carter, Robert A.  
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 Case, Charles L.  
 Case, F. C.  
 Case, Edward P.  
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 Champollion, André  
 Chapin,  
     Miss Maria Bowen  
 Chapman, Clarence E.  
 Chapman, Mrs. John Jay  
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 Chesebrough, Robert A.  
 Chew, Beverly  
 Chilton, H. P.  
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 Chisolm, George E.  
 Choate, Wm. G.

- Christie, R. E.  
 Chubb, Percy  
 Chubb, S. H.  
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 Church, Theodore W.  
 Claffin, John  
 Clancy, John J.  
 Clark, Ambrose R.  
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 Clark, Charles H.  
 Clark, Charles Martin  
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 Clark, Norman F.  
 Clark, Thos. F.  
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 Clarke, George C.  
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     William C., M.D.  
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 Coffin, C. A.  
 Coffin, Edmund  
 Coffin, Francis A.  
 Coffin, I. Sherwood  
 Coffin, W. E.  
 Coffin, William S.  
 Coggeshall, Edwin W.
- Cogswell, Francis J.  
 Cohen, De Witt Clinton  
 Cohn, Julius M.  
 Cohn, Dr. Louis  
 Colby, Howard A.  
 Colgate, Gilbert  
 Colgate, James C.  
 Colgate, R. R.  
 Collier, Price  
 Collier, Robert J. F.  
 Collins, Miss Ellen  
 Colton, Chester L.  
 Condit, William L.  
 Condon, Thomas G.  
 Conklin, Roland R.  
 Content, Walter  
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 Cooper, Miss Emma M.  
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 Corlies, Benjamin F.  
 Cornell, R. R.  
 Corning, Christopher R.  
 Costello, Alfred  
 Costello, P. C.  
 Cowdin, Winthrop  
 Cowles, David S.  
 Cox, C. F.  
 Crane, Charles R.  
 Crane, H. M.  
 Crane, Jonathan H.  
 Cravath, Mrs. Paul D.  
 Crawford, R. L.  
 Crayen, Dr. G. A.  
 Cromwell, Benjamin F.  
 Cromwell, James W.  
 Cromwell, Lincoln  
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     Col. John Schuyler  
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 Crossman, Geo. W.  
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 Crump,  
     Walter Gray, M.D.  
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- Curiel, H.  
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 Cutting, W. Bayard  
 Cuyler,  
     Miss Eleanor de Graff
- Daily, George M.  
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     Mrs. George H.  
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 de Bary, A.  
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     Mrs. Robert W.
- Degener, John F.  
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     Theodore W. E.  
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     Miss C. Augusta  
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 De Witt, William G.  
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 Dickie, E. P.  
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 DuBois, Dr. Matthew B.  
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 Dunham, Mrs. George H.  
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 Ehrich, Mrs. Wm. J.  
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 Eilshemius, Henry G.  
 Eimer, August  
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 Einstein, I. D.  
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 Ellis, Wm. D.  
 Ely, Frederick G.  
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 Emmet, Miss Lydia F.  
 Emmet, Robert Temple  
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 Eno, John Chester  
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 Erdmann, Martin  
 Erstein, Leopold  
 Ettlinger, Louis  
 Evans, Richard  
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 Fabbri, Ernesto G.  
 Fahnestock, H. C.  
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 Fairchild, Charles S.  
 Fairchild, S. W.  
 Fargo, James C.  
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     Mrs. Horace P.  
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 Fatman, Morris  
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 Ferris, Frank A.  
 Field, Wm. B. Osgood  
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     Mrs. Wm. B. Osgood  
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 Fischer, William H.  
 Fisher, L. G.  
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 Flint, Dr. Austin, Jr.  
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 Flower, A. R.  
 Flower, Frederick S.  
 Fohr, Franz  
 Follmer, Charles J.  
 Foot, Miss Katharine  
 Fordyce, Dr. John A.  
 Forster, Wm.

- Forsyth, Robert  
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 Foster, J. Hegeman  
 Foster, Scott  
 Frankenberg, W. V.  
 Frankfield, A.  
 Fraser, Alfred  
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 Fraser, Miss J. K.  
 Freedman, Andrew  
 French, Daniel C.  
 French, Richmond S.  
 French, S. A.  
 Frew, Walter E.  
 Fried, Samson  
 Friedlander, Louis  
 Fries, Miss Emilie  
 Frissell, A. S.  
 Frye, Jed  
 Fuld, Felix  
 Fuller, Mrs. Eugene  
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 Gade, W. F.  
 Gallaway, Robert M.  
 Gannon, F. S.  
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 Gardiner, James T.  
 Gartland, George E.  
 Garver, John A.  
 Gaunt, James  
 Gawtry, H. E.  
 Gay, Joseph E.  
 Geer, George J.  
 Geer, Robert C.  
 Geer, Walter  
 Gerard, Victor  
 Gerrish, Frank Scott  
 Gilbert, Clinton  
 Gillies, Edwin J.  
 Gillies, John S.  
 Gilmore, W. S.  
 Glatz, Charles  
 Glazier, Henry S.  
 Goadby, W. H.  
 Goddard, F. N.  
 Godfrey, Mrs. E. D.  
 Goebel, Lewis S.  
  
 Goldschmidt, Geo. B.  
 Goldschmidt, S. A.  
 Goodchild, John  
 Goodfriend, Jacob  
 Goodfriend, Meyer  
 Goodhue, Chas. E.  
 Gottheil, Paul  
 Gould, Chas. W.  
 Gould, Edwin  
 Gould, Miss Helen M.  
 Grace, Mrs. L. A.  
 Graham, Robert Dun  
 Grant, R. Suydam  
 Graves, Wm. Leon  
 Greeff, Bernhard, Jr.  
 Greeff, Ernest F.  
 Greene, James W.  
 Greenhut, Benedict J.  
 Greenwood, Isaac J.  
 Greer, Charles  
 Greer, Rt. Rev. David H.  
 Gregory, Charles  
 Gregory, Chas. E.  
 Gregory, E. C.  
 Griffin, Mrs. W. P.  
 Griffith, Daniel J.  
 Griggs, George  
 Grinnell, George Bird  
 Griscom, C. A., Jr.  
 Griswold, Chester  
 Griswold, Mrs. Chester  
 Guggenheim, Simon  
 Guggenheim, William  
 Guinzburg, A. M.  
 Gulliver, William C.  
 Gundlach, C.  
 Gutmann, Carl  
  
 Haber, Louis I.  
 Haines, Charles D.  
 Haines, Henry F.  
 Hale, Thomas  
 Hall, Mrs. John H.  
 Hall, W. H.  
 Halls, William, Jr.  
 Halsey, John R.  
 Halsey, Robert H.  
 Halsey, R. T. H.  
  
 Halsted, James M.  
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 Hamburger, L.  
 Hamburger, Samuel B.  
 Hamersley,  
     Miss Catherine L.  
 Hamersley,  
     Louis Gordon  
 Hamilton, E. Horace  
 Hamilton, Miss E. S.  
 Hamlen, Dr. Geo. D.  
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 Handy, Parker D.  
 Harbeck, Chas. T.  
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 Hartley, Mrs. Marcellus  
 Hartshorn, Stewart  
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 Haskin, Dr. W. H.  
 Hasslacher, Jacob  
 Havemeyer, H. O., Jr.  
 Havemeyer, J. C.  
 Havemeyer, John F.  
 Havemeyer, T. A.  
 Haven, J. Woodward  
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 Havron, John  
 Hawk, Wm. S.  
 Hawke, Madison G.  
 Hawkes,  
     Mrs. McDougall  
 Hawley, Edwin  
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 Hazen, George H.  
 Hecht, George J.  
 Hedges, Job E.  
 Heide, Henry  
 Heimann, Julius  
 Heineman, Moses

- Heinsheimer, L. A.  
 Heinze, Arthur P.  
 Hellmann, Paul  
 Heminway, Homer  
 Hendricks, Mrs. Edgar  
 Hendricks, Edmund  
 Hendricks, Francis  
 Hendricks, Harmon W.  
 Henning, Gustavus C.  
 Hepburn, A. B.  
 Herbert, William  
 Hermann, Ferdinand  
 Hershheim, Joseph  
 Heroy, Mrs. James H.  
 Herreshoff, J. B. Francis  
 Herrmann, Charles E.  
 Herter, Dr. Christian A.  
 Hess, Selmar  
 Hewlett, Walter Jones  
 Heydt, Herman A.  
 Hicks, F. C.  
 Higgins, Francis  
 Hilder, G. Howard  
 Hills, Dr. Alfred K.  
 Hilyard, George D.  
 Hinchman, Walter  
 Hine, Francis L.  
 Hirsch, Albert  
 Hirsch, Chas. S.  
 Hoag, William N.  
 Hoagland, Mrs. Jos. C.  
 Hobby, J. Oakley  
 Hochschild, Berthold  
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 Hodges, George W.  
 Hoe, Alfred G.  
 Hoe, George E.  
 Hoe, Richard M.  
 Hoe, Mrs. Robert  
 Hoe, William A.  
 Hoc, William J.  
 Hoffman, Joseph E.  
 Holden, E. R.  
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     Miss Amelia B.  
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     Miss Augusta D.  
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 Hoskins, C. F.  
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 House, Frederick B.  
 Houser, Aloise  
 Howard, Montague  
 Howell, M. D.  
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 Hoyt, Gerald L.  
 Hubbard, Gen. T. H.  
 Hubbard, Walter C.  
 Hubschmitt,  
     John J., M.D.  
 Hudson, Percy K.  
 Hughes, Charles E.  
 Humphreys, Frederic H.  
 Humphreys, George H.  
 Hunter, David M.  
 Huntington, Mrs. R. P.  
 Huntington,  
     Rev. Dr. W. R.  
 Hüpfel, Adolph G.  
 Hüpfel, J. Chr. G.  
 Hurlbut, Theo. D.  
 Hussey, William H.  
 Husted, Seymour L., Jr.  
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 Huyler, John S.  
 Hyatt, A. M.  
 Hyde, Mrs. Augustus L.  
 Hyde, E. Francis
- Ireland, John B.  
 Irving, Walter  
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 Iselin, Miss Georgine  
 Iselin, Wm. E.  
 Isham, Samuel
- Jackson, Geo. T., M.D.  
 Jackson, John B.  
 Jackson,  
     Samuel Macauley  
 Jacobus, John S.
- Jaffray, Robert  
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 Jennings, Miss A. B.  
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 Jennings, Philander R.  
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 Jeremiah, Mrs. T. F.  
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 Johnson, Geo. Pryor  
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 Johnston, J. Herbert  
 Joline, Adrian H.  
 Jonas, William  
 Jones, A. H.  
 Jones, Charles H.  
 Jones, Dwight A.  
 Jones, H. Bolton  
 Josephi, E. A.  
 Judson, Alfred M.  
 Judson, Henry I.  
 Jungmann, J.
- Kahle, Jos. L.  
 Kahle, M.  
 Kahn, Felix E.  
 Kahn, Otto H.  
 Kahnweiler, William S.  
 Kamm, F. W. M.  
 Kauffeld, Theodore  
 Kaufman, Edward S.  
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 Kellogg, Mrs. Chas.  
 Kelly, Augustus W.  
 Kemmerer, M. S.  
 Kemp, Edward  
 Kemp, Mrs. Edward  
 Kemp, George Wm.  
 Kemp, Prof. James F.



- Kennard, Frederic H.  
 Kennedy, John S.  
 Kent, Edwin C.  
 Kenyon, Wm. Houston  
 Kerr, John B.  
 Kidder, C. G.  
 Kilner, S. E.  
 Kimball, Alfred R.  
 Kimbel, Anthony  
 Kimbel, Henry  
 King, Miss Mary R.  
 King, Thomas M.  
 King, William F.  
 Kingsford, Daniel P.  
 Kingsley, W. M.  
 Kinnicutt, Dr. F. P.  
 Kip, Clarence V.  
 Kip, W. Ruloff  
 Klatzl, John C.  
 Klee, Simon J.  
 Klenke, William H.  
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 Knauth, Antonio  
 Kohlman, Charles  
 Kohn, Arnold  
 Kohn, S. H.  
 Kohn, Theo. A.  
 Kohns, L.  
 Kraus-Boelté, Mrs. M.  
 Krower, Alfred  
 Kudlich, H. C.  
 Kugelman, J. G.  
 Kuhn, Arthur K.  
 Kuhn, Edward  
 Kuttroff, Adolf  
  
 Lacey, H. D.  
 Lacombe, E. Henry  
 Lagai, Dr. G.  
 Lagowitz, Miss H. L.  
 Laidlaw, Mrs. Henry B.  
 Laidlaw, Mrs. Jas. Lees  
 Lamarche, Henry J.  
 Lambert, Adrian V. S.  
 Lambert, Samuel W.  
 Lammel, Rev. Anthony  
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 Langdon,  
     Woodbury G., Jr.  
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 Langmann, G., M.D.  
 Lapham, Lewis H.  
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 Lawrence, Emlen N.  
 Lawrence, Miss M.  
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 Leale, Charles A., M.D.  
 Leaycraft, J. Edgar  
 le Duc, Mrs. Janvier  
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 Lee, J. Bowers  
 Lefferts, Marshall C.  
 Lefferts, William H.  
 Legg, George  
 Lehmaier, James M.  
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 Lehman, Meyer H.  
 Leigh, B. W.  
 Leighton, George B.  
 Leland, Amory  
 Lemp, Louis  
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 Leupp, Wm. H.  
 Leverich, S. Duncan  
 Levi, Albert A.  
 Levi, Emil S.  
 Levison, Benno, Jr.  
 Levy, Emanuel  
 Levy, Mitchell A. C.  
 Lewis, August  
 Lewis, Frederic E.  
 Lewis, Richard V.  
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 Lewisohn, Albert  
 Lichtenstein, Melvin  
 Lichtenstein, Paul  
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 Lincoln, Lowell  
  
 Lisman, Frederick J.  
 Livingston, E. de P.  
 Livingston, Wm. S.  
 Lloyd, Francis G.  
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 Locke, Charles E.  
 Lockman, John T.  
 Lockwood,  
     Dr. George Roe  
 Loeb, James  
 Loewi, Valentine  
 Loewy, Benno  
 Lord,  
     Mrs. Geo. de Forest  
 Loring, D. A.  
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 Louis, Chas. H.  
 Lounsbery, R. P.  
 Lovejoy, A. B.  
 Low, Ethelbert I.  
 Lowell, Miss C. Russell  
 Löwengard, Otto  
 Ludington, C. H.  
 Ludlow, James B.  
 Lueder, A.  
 Lummis, Benjamin R.  
 Lummis, Wm.  
 Lusk, Miss Anna H.  
 Lüttgen, Walther  
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 Lyon, Ralph  
  
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 MacDougall, Geo. R.  
 Mack, Arthur J.  
 Mackenzie, Duncan E.  
 Mackey, Oscar T.  
 MacVeagh, Charles  
 Macy, F. H., Jr.,  
 Macy, George H.  
 Macy, Wm. H., Jr.  
 Mager, F. Robert  
 Mahl, Wm.  
 Mallory, Charles  
 Manierre, Charles E.  
 Mann, W. D.



- Mansbach, E.  
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 Marlor, Henry S.  
 Maron, Otto  
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 Marsh, J. A.  
 Marshall, Charles H.  
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# APPOINTIVE COMMITTEES FOR 1910\*

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## COMMITTEE ON BIRD GROUPS

JOHN L. CADWALADER, *Chairman*

## COMMITTEE ON AFRICAN EXPLORATION

JOHN B. TREVOR, *Chairman*

HERMON C. BUMPUS

JAMES GUSTAVUS WHITELEY

ROBERT W. GOELET

HERBERT L. BRIDGMAN

FRANK M. CHAPMAN

## COMMITTEE ON PRIMITIVE PEOPLES OF THE SOUTHWEST

ARCHER M. HUNTINGTON, *Chairman*

JAMES DOUGLAS

## COMMITTEE ON ANTARCTIC EXPLORATION

ARCHER M. HUNTINGTON, *Chairman*

ARTHUR CURTISS JAMES

HERMON C. BUMPUS

## COMMITTEE ON NORTH AMERICAN WOODS AND FORESTRY

GIFFORD PINCHOT, *Chairman*

Mrs. MORRIS K. JESUP

Prof. JAMES W. TOUMEY

Miss MARY PARSONS, *Secretary*

## COMMITTEE ON FISHES AND MARINE LIFE

CLEVELAND H. DODGE, *Chairman*

ERNESTO FABBRI

ALESSANDRO FABBRI

CHARLES H. TOWNSEND

## COMMITTEE ON MINERALS AND MINES

JAMES DOUGLAS, *Chairman*

## COMMITTEE ON INDIANS OF THE PLAINS

ARCHIBALD ROGERS, *Chairman*

GEORGE BIRD GRINNELL

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\* These Committees are appointed annually by the President, for service kindly volunteered to the respective departments.

# SCIENTIFIC STAFF

FOR 1910

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## *DIRECTOR*

HERMON CAREY BUMPUS, Ph.D., Sc.D., LL.D.

## *DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALÆONTOLOGY*

Prof. R. P. WHITFIELD, A.M., Curator Emeritus  
EDMUND OTIS HOVEY, A.B., Ph.D., Curator

## *DEPARTMENT OF MINERALOGY*

L. P. GRATACAP, Ph.B., A.B., A.M., Curator  
GEORGE F. KUNZ, A.M., Ph.D., Honorary Curator of Gems

## *DEPARTMENT OF INVERTEBRATE ZOÖLOGY*

Prof. HENRY E. CRAMPTON, A.B., Ph.D., Curator  
ROY W. MINER, A.B., Assistant Curator  
FRANK E. LUTZ, A.B., A.M., Ph.D., Assistant Curator  
L. P. GRATACAP, Ph.B., A.B., A.M., Curator of Mollusca  
WILLIAM BEUTENMÜLLER, Associate Curator of Lepidoptera

Prof. WILLIAM MORTON WHEELER, Ph.D., Honorary Curator of Social Insects  
ALEXANDER PETRUNKEVITCH, Ph.D., Honorary Curator of Arachnida  
Prof. AARON L. TREADWELL, B.S., M.S., Ph.D., Honorary Curator of Annulata

## *DEPARTMENT OF ICHTHYOLOGY AND HERPETOLOGY*

Prof. BASHFORD DEAN, A.B., A.M., Ph.D., Curator of Fishes and Reptiles  
LOUIS HUSSAKOF, B.S., Ph.D., Assistant Curator of Fossil Fishes

## *DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY*

Prof. J. A. ALLEN, Ph.D., Curator  
FRANK M. CHAPMAN, Curator of Ornithology  
ROY C. ANDREWS, A.B., Assistant in Mammalogy  
W. de W. MILLER, Assistant in Ornithology

## *DEPARTMENT OF VERTEBRATE PALÆONTOLOGY*

Prof. HENRY FAIRFIELD OSBORN, A.B., Sc.D., LL.D., D.Sc., Curator  
W. D. MATTHEW, Ph.B., A.B., A.M., Ph.D., Associate Curator  
WALTER GRANGER, Assistant Curator of Fossil Mammals  
BARNUM BROWN, A.B., Assistant Curator of Fossil Reptiles

SCIENTIFIC STAFF FOR 1910—*Continued*

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*DEPARTMENT OF ANTHROPOLOGY*

CLARK WISSLER, A.B., A.M., Ph.D., Curator  
PLINY E. GODDARD, A.B., A.M., Ph.D., Associate Curator  
HARLAN I. SMITH, Associate Curator  
ROBERT H. LOWIE, A.B., Ph.D., Assistant Curator  
HERBERT J. SPINDEN, A.B., A.M., Ph.D., Assistant Curator  
CHARLES W. MEAD, Assistant  
ALANSON SKINNER, Assistant

*DEPARTMENT OF PHYSIOLOGY*

Prof. RALPH W. TOWER, A.B., A.M., Ph.D., Curator

*DEPARTMENT OF PUBLIC HEALTH*

Prof. CHARLES-EDWARD AMORY WINSLOW, S.B., M.S., Curator

*DEPARTMENT OF WOODS AND FORESTRY*

MARY CYNTHIA DICKERSON, In Charge

*DEPARTMENT OF BOOKS AND PUBLICATIONS*

Prof. RALPH W. TOWER, A.B., A.M., Ph.D., Curator  
A. WOODWARD, Ph.D., In Charge of Maps and Charts

*DEPARTMENT OF PUBLIC EDUCATION*

Prof. ALBERT S. BICKMORE, B.S., Ph.D., LL.D., Curator Emeritus  
GEORGE H. SHERWOOD, A.B., A.M., Curator







MEMORIAL STATUE OF MORRIS K. JESUP  
By William Couper, Sculptor

## FORTY-FIRST ANNUAL REPORT

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*To the Trustees and Members of The American Museum of Natural History, and to the Municipal Authorities of the City of New York:*

The President submits herewith a report of the activities of the Museum during the year 1909.

Both the scientific and the administrative branches of the Museum, under the guidance of Director Hermon C. Bumpus, have made greater progress than in any previous year.

The past history and the future scope and plan of the Museum have continued to be subjects of very careful investigation and reflection. As intimated in the Fortieth Annual Report, it is of the utmost importance that the Trustees and the City should have before them an ideal plan of a complete and perfectly arranged Natural History Museum covering all the branches of natural science, so that all of the work of the Museum shall be so arranged as ultimately to become a part of the final plan. Opportunity often dictates what collections shall be secured, what halls shall be first arranged, what explorations shall be sent out. But a policy of opportunity is not a wise one for the future, which must prepare for the needs of a very much greater city than New York is at the present time in such a manner as to be a source of pride and a most efficient agent of public enlightenment in pure and applied science. This, together with the establishment of a great library, was among the original plans of the Founders of the Museum in 1869. Such a report on the future scope and plan has been prepared and submitted\* by the President, but it will not be published until it has received both the careful consideration and the approval of the Trustees.

### ENDOWMENT AND MAINTENANCE

An increase of the endowment is the greatest need of the Museum at this time. The present fund of \$2,195,645.92 should be increased to at least \$5,000,000. The munificent

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\* At the Annual Meeting, February 14, 1910.

bequest of Mr. Jesup has indirectly enabled the Trustees to extend the scientific staff (pages 13 and 14) for the first time to cover all the branches of natural history, some of which were, of necessity, slighted or set aside in the early development of the Museum. The gifts and special funds for the past year (pages 58 to 63) have been more liberal than ever before, and promise to increase year by year. Through these gifts a number of very important expeditions has been fitted out, including among others two to Africa, one to the East Indies, one to the Arctic Ocean and one to the pueblos of the South-western States. All of these special gifts increase our collections, but none of them provides for their installation and exhibition, which are the legitimate uses of the Endowment Fund, on the theory that the Trustees present the collections, while the City houses and cares for them. The uses of an increased Endowment Fund are to widen our already wide sphere of exploration, to further enrich our collections and to hasten the installation of material now in hand.

Similarly, to meet our present needs, the City Maintenance Fund should be increased to the legal limit of \$200,000. During the present year it has amounted to \$180,048.69. For purposes of bookkeeping the Maintenance Account has been kept separately, so that it does not show the deficit which actually exists this year of \$36,670.01 over and above the amount provided by the City. The Maintenance deficits between the years 1901 and 1909 have reached a total of \$152,665.93. Every dollar thus expended by the Trustees from the Endowment Fund and from special gifts is a direct loss to the City, because it means so much less expenditure on collections.

#### APPOINTIVE COMMITTEES

The various Appointive Committees have become important agents of the Museum's growth during the past year. Through special interest and through service of time and advice most generously volunteered, as well as through special subscriptions, these Committees are greatly increasing the efficiency of the administration. As at present established (see page 12) the Committees are as follows:

<i>Subject</i>	<i>Chairman</i>
Habitat Bird Groups,	JOHN L. CADWALADER
African Exploration,	JOHN B. TREVOR
Ethnology of the Southwest,	ARCHER M. HUNTINGTON
Antarctic Exploration,	ARCHER M. HUNTINGTON
Woods and Forestry,	GIFFORD PINCHOT
Fishes and Marine Life,	CLEVELAND H. DODGE
Minerals and Mines,	JAMES DOUGLAS
Indians of the Plains,	ARCHIBALD ROGERS

The Committees are composed partly of Trustees, partly of other friends and patrons of the Museum, and partly of distinguished men of science attached to other institutions. It will be observed that each Committee is devoting itself, in consultation with the Director, to one or more of the exhibition halls of the future, so that the chairman and other members may have the pleasure and satisfaction of seeing some definite results of their labors.

### MUSEUM EXTENSION

The Museum has already entered upon a method of *Museum Extension* on a scale which reaches almost the entire school system of the City through the circulation of small traveling museums. Within its walls there has been established a *Children's Room*, which promises to become a more important feature as time goes on and which deserves a special endowment fund of \$25,000. We have also made a beginning in reaching the blind through our *Museum for the Blind*, the first of its kind to our knowledge.\*

The Trustees should now consider the advisability of establishing *Branch Museums in Manhattan and the Bronx*, which would hold the same relation to the parent Museum as the Branch Libraries do to the New York Public Library. For example, a Branch Museum might be placed on the east side of the City, in the center of a population eager for education and keenly appreciative both of the Branch Library and of the free Lecture System. Such an institution should be the gift of some special benefactor and philanthropist; it should be amply endowed so as not to be a tax on the parent

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\* This Museum has received a munificent endowment since December 31, 1909.

institution; it should enjoy a maintenance fund from the City which would provide merely for its up-keep and administration, but not for its collections. The parent Museum could contribute, without sacrifice, many admirable educational exhibits from its duplicate series. Such a Branch, which might well be established in coöperation with our sister institution, the Metropolitan Museum of Art, would be a great force in the Americanization of the newcomers of all lands who are crowding to the east side of our City.

## I. ADMINISTRATION AND BUILDING

SCIENTIFIC STAFF.—Several changes have been made in the personnel of the scientific staff. Owing to advancing years and failing health, Professor R. P. Whitfield has been obliged to give up active work as Curator of Geology and Invertebrate Palæontology and has been retired as *Curator Emeritus*. Dr. Edmund Otis Hovey, Associate Curator of the department since 1901, has been promoted to the curatorship.

In the Department of Anthropology, Professor Marshall H. Saville has resigned his position as Honorary Curator of Mexican Archæology and the staff has been strengthened by the appointment of Dr. Pliny E. Goddard, formerly of the University of California, as an Associate Curator, and of Dr. Herbert J. Spinden, of Harvard University, as an Assistant Curator. Mr. Harlan I. Smith, who has held an assistant curatorship in the department for the past nine years, has been made an Associate Curator.

A Department of Ichthyology and Herpetology has been established during the year, with Dr. Bashford Dean as its head. The appointment of Dr. Dean is a nominal change, as he has been a member of the scientific staff since 1903.

Mr. Barnum Brown has been made Assistant Curator of Fossil Reptiles and Mr. Walter Granger Assistant Curator of Fossil Mammals.

Recently the Trustees have created a Department of Public Health, and through a coöperative arrangement with President Finley of the College of the City of New York, the services of Professor Charles-Edward Amory Winslow have been



secured as Curator. This department will have for its aim the demonstration of the relation between man and the lower organisms. Professor Winslow will not begin active work, however, until July, 1910.

**BUILDING.**—While the new wing on Columbus Avenue (the south section of the West Façade) was formally accepted last year by the City from the contractors, much work remained to be done in decorating and casing before the halls could be occupied. Application for funds for furnishing and equipping this section of the building was made to the Board of Estimate and Apportionment, and, in July, \$100,000 was appropriated for this work.

At the request of the Trustees, Commissioner Henry Smith directed that the Department of Parks pave the entrance roadway on Seventy-seventh Street with asphalt block. This work was done at the expense of the Park Department and was not a draft on the Museum funds.

The contract for the construction of the service roadway, to enter the Museum grounds from Columbus Avenue, was let on July 1, 1909, to the Atlanta Contracting Company, and operations were begun at once on this much needed improvement. At the close of the year good progress had been made and the work was nearing completion.

The mechanical workshops have been moved from the east wing to the more commodious quarters in the basement of the new west wing. These shops have been equipped with electric motors for running the machinery, new benches, steam box and lockers. While these quarters are considerably larger than the old shop, they are quite insufficient for all our mechanical work, and temporary shops have been provided in various parts of the building.

The repairs are no small item in a building of this size, and as time passes these will necessarily increase. This work alone has kept a large force of carpenters, painters and other mechanics continuously employed throughout the year.

The adoption of a graded system of wages for the employees has produced satisfactory results. The efficiency of the force of attendants has been further improved by the

establishing of a grade known as floor sergeants who are under the direction of a captain. Each sergeant is in charge of a floor and is held responsible for the condition of the exhibition halls, as well as for the conduct of the attendants under his supervision. Under this arrangement the men take a greater interest in their halls and the results are practical.

At our request the United States Post Office Department has placed a mail box in the vestibule of the building and collections are made hourly from nine till four.

## II. PUBLIC EDUCATION

MUSEUM EXTENSION TO THE SCHOOLS AND LIBRARIES.—The Museum extension to the schools and libraries is in charge of the Department of Public Instruction, which in future will be known as the Department of Public Education.

This department coöperates with the City Board of Education and expends a large sum annually without receiving any special appropriation therefor.

The usual requests for the Nature Study Collections have been received and filled promptly. The routine work of distributing and transferring the collections occupies the time of two messengers. During the year 435 cabinets have been in circulation and the schools supplied number 419. Data supplied by the teachers show that the number of pupils studying these collections during the year was 922,512, which is a greater number than has been recorded in any previous year, and is an indication of their value as a teaching adjunct.

Some of the suburban schools also have been supplied with these collections at a nominal rental.

The method of sending special loan collections to the public libraries, which was begun last year, has been continued during the present year. The collections have been prepared at the request, and with the assistance, of Misses Moore and Tyler of the Public Library staff, and include material illustrating life in the Arctic, and the habits and costumes of the Indians, the Chinese, the Filipinos, etc.

LECTURES TO SCHOOL CHILDREN.—Two courses of lectures, supplementing class-room work in geography and history,







CHILDREN'S ROOM

were arranged and delivered at the Museum during the fall and spring. The attendance at these lectures was 17,172.

**CHILDREN'S ROOM.**—Early in the year the room located near the main entrance on the second floor was opened for children. This room has been equipped with low tables and kindergarten chairs, and near by are children's books, modeling clay and tools. It is open regularly on Wednesdays and Saturdays, and children are encouraged to study, draw and model from the mounted and living specimens. As many as two hundred children have attended in one day. On Wednesday afternoons the class is held for the children of Members.

**ROOM FOR THE BLIND.**—The Branch Library at 83d Street and Amsterdam Avenue makes a specialty of books for the blind, and this fact suggested to the Museum authorities the idea of setting aside a room for the blind. Here are assembled objects of natural history, which can be handled without damage. These specimens are accompanied by special labels printed in raised letters. We are indebted to Miss Goldthwaite, who is in charge of the library for the blind, for many helpful suggestions and for the printing of the labels. Recent statistics show that there are 6,165 blind people in the State of New York, and this innovation of the Museum has met with the most emphatic approval.

In addition to the extension work, this department has charge of the photographic work of the Museum, which during the past year has reached large proportions.

**ASTRONOMY.**—In the future Museum it is evident that a hall devoted to the science of cosmology should be provided. The astronomical clock and representation of the solar system in the foyer have proved to be exhibits of exceptional interest.

In view of the public interest in Halley's Comet, a representation of its orbit has been placed in the foyer, showing its relation to the sun and the earth.

**ATTENDANCE.**—The total number of visitors for the year was 839,141, a figure which is greater than that of any previous year with the exception of 1908, when there was a phenomenal attendance at the Tuberculosis Exhibition. This increase is

especially gratifying when it is considered that the abolishing of the transfer system on the surface cars has unquestionably deprived many, who could not afford the extra carfare, from visiting the Museum.

The free lectures given in coöperation with the Board of Education, the New York Academy of Sciences and Affiliated Societies were attended by 48,988; Mrs. Roesler's lectures by 1,136 and those for school children by 20,165.

### LECTURE COURSES

The lectures delivered at the Museum during the year number 139. These include (1) a spring and fall course to Members; (2) a spring and fall course for the pupils of the public schools; (3) free lectures on public holidays; (4) a course of Jesup Lectures, given under the auspices of Columbia University; (5) four lectures on biology for the Normal College and High Schools of Manhattan; (6) special lectures in conjunction with the New York Academy of Sciences, Lincoln Centenary Committee, etc., and (7) three courses given in coöperation with the Board of Education of the City of New York.

The following lectures to Members were delivered by members of the scientific staff and others:

#### LECTURES TO MEMBERS

March	4.—Birds in Their Relation to Man.....	Frank M. Chapman
"	11.—The Conservation of Our Rivers and Lakes.....	Charles H. Townsend
"	18.—The Conservation of Natural Scenery in America...	J. Horace McFarland
"	25.—Conservation from Palisades to Adirondacks.....	Edward Hagaman Hall
April	1.—Hunting with Canoe and Camera in New Brunswick..	William Lyman Underwood
November	18.—Alaska and the Exploration of Mt. McKinley.....	Herschel C. Parker
December	2.—Camera Adventure in the Wilds of Africa.....	A. Radclyffe Dugmore
"	9.—With Peary in the Arctic.....	Donald B. McMillan
"	16.—The Coast of Brittany and the Industries of the People.....	Hugh M. Smith

PUBLIC LECTURES ON HOLIDAYS

- New Year's Day, January 1.—Florida Bird Life (with moving pictures),  
Frank M. Chapman  
 Washington's Birthday, February 22.—Food and Game Fishes of the  
 Eastern United States—Habits and Methods of Cap-  
 ture ..... Roy W. Miner  
 Thanksgiving Day, November 25.—The Fiji Islanders and Other  
 People of the South Seas..... Charles H. Townsend  
 Christmas Day, December 25.—By Canoe to Hudson Bay... Alanson Skinner

LECTURES FOR CHILDREN

The lectures for pupils of the public schools and for the children of Members were continued during the spring, as follows:

- March 8 and 29.—New York City in Colonial Days..... R. W. Miner  
 " 10 " 31.—Japan and Her People..... Louis Hussakof  
 " 15 " April 16.—The Panama Canal.... E. O. Hovey\*  
 " 12 " " 19.—Famous Rivers of the World..... Walter Granger  
 " 17 " " 21.—Natural Wonders of Our Country.... R. W. Miner  
 " 19 " " 23.—American Forests and Their Uses.. G. H. Sherwood  
 " 22 " " 26.—Mediterranean Countries, Ancient and  
 Modern..... Walter Granger  
 " 24 " " 28.—The American Indian of To-day..... H. I. Smith  
 " 26 " " 30.—Travels in the Western States.... Barnum Brown†

A fall course was given as follows:

- October 25 and November 15.—The Development of New York City,  
R. W. Miner  
 " 27 " " 17.—Life in the Arctic Regions.....  
Mrs. A. L. Roesler  
 " 29 " " 19.—American Forests and Their Uses...  
G. H. Sherwood  
 November 1 " " 22.—Scenes in the British Isles. . Louis Hussakof  
 " 3 " December 1.—Life Among Our Indians..... H. I. Smith  
 " 5 " " 3.—Animals Helpful to Man .... R. W. Miner  
 " 8 " " 6.—Mining Industries of the United  
 States..... E. O. Hovey  
 " 10 " " 8.—Animals Injurious to Man..... F. E. Lutz  
 " 12 " " 10.—Travels in South America. . Louis Hussakof

\* On March 12, owing to the absence of Dr. Hovey, this lecture was delivered by Mr. R. C. Andrews.

† On March 26 and April 30, owing to the absence of Mr. Brown, this lecture was delivered by Mr. R. C. Andrews.





A Course of Nine Lectures on Architecture

March	2.—Rome.....	A. D. F. Hamlin
"	9.—Constantinople .....	"
"	16.—Venice.....	"
"	23.—History of Architecture as seen in New York Buildings,	Joseph M. Tilden
"	30.—Paris.....	A. D. F. Hamlin
April	6.—London.....	"
"	13.—New York .....	"
"	20.—Florence, Cradle of the Renaissance.....	Francis M. Strickland
"	27.—Berlin, and Military Life in Germany.....	Henry Zick

A Course of Eleven Lectures on North America

October	5.—Uncle Sam's Farm.....	Charles S. Bullock
"	12.—The Pacific Northwest.....	Edward Russell Perry
"	19.—Northern California.....	Homer C. Bristol
"	26.—Southern California.....	"
November	2.—The Historic Alamo City.....	R. Cornelius Raby
"	9.—The Yosemite Valley .....	Miss Mary V. Worstell
"	16.—The Canadian Rockies.....	Benjamin S. Comstock
"	23.—Across the New England States.....	Edward P. Crowell
"	30.—The Land of the Big Red Apple—Oregon .....	J. R. Lynch
December	7.—The White Hills .....	George Newton Cross
"	14.—The City of Washington.....	"

*Saturday Evenings*

A Course of Eight Lectures on Natural Science

January	9.—The Development of the Milk Industry...	Lafayette B. Mendel
"	16.—Adirondack Forest.....	James F. Whipple
"	23.—The Physiology of Growth.....	Lafayette B. Mendel

Three Lectures on "Forestry," given with the coöperation of the  
Forest Service, Department of Agriculture,  
Washington, D. C.

January	30.—Forests and Waters.....	William L. Hall
February	6.—National Forest Policy .....	H. A. Smith
"	13.—Conservation of Natural Resources.....	Overton W. Price
"	20.—The Life History of a Lake.....	Herbert E. Gregory
"	27.—Earthquakes.....	Cyrus C. Adams

A Course of Eight Lectures on Sociology

March	6.—The Man That is Down and Out.....	Orlando F. Lewis
"	13.—The Treatment of Prisoners.....	"
"	20.—Our Hospitals and Asylums.....	"
"	27.—Modern Ways of Helping Others.....	"



- April 3.—Child Labor in America . . . . . Owen R. Lovejoy  
 “ 10.—The Children's Court . . . . . Ernest K. Coulter  
 “ 17.—The Processes of American Government . . . . . Franklin A. Rose  
 “ 24.—The City Beautiful, or the Planning and Embellishment of Cities,  
 Arthur Alexander Stoughton

A Course of Eleven Lectures on “Inorganic Chemistry,”  
 by William L. Estabrooke, Ph.D.

- October 9.—Physical and Chemical Change  
 “ 16.—Oxygen and Ozone  
 “ 23.—Hydrogen and Hydrogen Peroxide  
 “ 30.—Water  
 November 6.—Chlorine and Hydrochloric Acid  
 “ 13.—Fluorine, Bromine and Iodine  
 “ 20.—Nitrogen and Its Oxides; Nitric Acid and Ammonia  
 “ 27.—Carbon and Some of Its Compounds  
 December 4.—Carbon Dioxide and Ventilation  
 “ 11.—The Atmosphere  
 “ 18.—Combustion and the Flame

#### HOSPITALITY TO SCIENTIFIC SOCIETIES

Many are the requests that are received by the Museum from various scientific societies and organizations for the use of the lecture and conference rooms, and so far as it is consistent with the aims of the institution, these requests have been granted.

On February twelfth was held the celebration of the one hundredth anniversary of the birth of Charles Robert Darwin and the fiftieth anniversary of the publication of “The Origin of Species.” At this time there was unveiled a bronze bust of Darwin, the work of Mr. William Couper and the gift of the New York Academy of Sciences. The presentation address was made by Mr. Charles Finney Cox, the Academy's president, and the bust was accepted on behalf of the Trustees of the Museum by President Henry Fairfield Osborn. The exercises were held in the Synoptic Hall, which, in view of the permanent installation of the bust and of the exhibit of the zoölogical material so closely associated with his name, was rededicated by the Trustees as the “Darwin Hall of Invertebrate Zoölogy.”

Another gathering of note was the Twenty-seventh Stated Meeting of the American Ornithologists' Union, one of the

oldest scientific organizations in America. The members were the guests of the Museum from December sixth to the tenth, and reported a successful series of meetings.

Two special exhibits, which attracted many visitors and which were enjoyed by all, were the Annual Exhibition of the National Sweet Pea Association (held July 7 and 8) and the Annual Exhibition of the Horticultural Society of New York (held November 3 to 7). The latter occupied the foyer and the three adjoining halls, and the display was one of exceptional beauty. The attendance at this exhibition was more than 30,000.

The following is a complete list of the societies and organizations which were the guests of the Museum in 1909:

- American Bison Society
- American Ethnological Society
- American Ornithologists' Union
- American Psychological Association, New York Branch
- Audubon Society of the State of New York
- Brooklyn Entomological Society
- Century Association
- Charity Organization Society
- Geological Society of America
- Horticultural Society of New York
- Linnæan Society of New York
- Naples Table Association
- National Association of Audubon Societies for the Protection of Wild  
Birds and Animals
- National Sweet Pea Association
- New York Academy of Sciences
- New York Entomological Society
- New York Microscopical Society
- New York Mineralogical Club
- Palæontological Society
- Playground Association of America
- Torrey Botanical Club
- West Side Natural History Society

### III. EXPLORATIONS, COLLECTIONS AND EXHIBITIONS

EXPLORATIONS.—The field operations of the Museum, through its expeditions and field agents, have been quite as extensive as in former years. The funds appropriated by the

City cannot be used for the maintenance of these parties, and it is largely through the income from the bequest of Mr. Jesup that this work has been carried on. During the past year the Museum has had representatives in the following localities:

EXPLORATIONS BY MUSEUM PARTIES OR REPRESENTATIVES

*In United States*

ALASKA	MASSACHUSETTS	OHIO
ARIZONA	MICHIGAN	VIRGINIA
FLORIDA	MONTANA	WISCONSIN
MAINE	NEW MEXICO	WYOMING
	NORTH DAKOTA	

*In Foreign Countries*

<i>Arctic America</i>		<i>Canada</i>
ELLESMERE LAND		JAMES BAY
GREENLAND		QUEBEC
SOUTHAMPTON ISLAND		ONTARIO
BRITISH COLUMBIA	INDIA	PHILIPPINE ISLANDS
BRITISH EAST AFRICA	JAPAN	SAMOA
CELEBES	KOREA	TAHITI
EGYPT	MEXICO	TRINIDAD
HAWAII	NEW ZEALAND	VENEZUELA
	NICARAGUA	

MINERALS

DEPARTMENT OF MINERALOGY.—The Bement Collection of Minerals, presented to the Museum several years ago by Mr. J. Pierpont Morgan, is so extensive that cataloguing it in an adequate manner is no small task. The special card catalogue of this collection is nearing completion. More than 16,000 cards have been written, and less than 1,000 specimens remain to be identified.

The income from the Bruce Fund has again been usefully applied toward enriching the collections, and fifty-five specimens, either quite new to the collections, or important for their possession of new features or great beauty, have been added in this way.

Owing to limited space, an appropriate installation of the minerals cannot now be made, but it is expected that this will be remedied when the collections are rearranged in the new hall in the west wing.





A FLORIDA COOTERY. Reproduced from studies made by Mr. Frank M. Chapman in March, 1908, at Cuthbert Rookery in the great Mangrove Swamp south of the Everglades. (North American Ornithology Fund)

## MAMMALS AND BIRDS

DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY.—Important additions have been made to the collections of both mammals and birds. These include mammals from Nicaragua, the Philippine Islands and Arctic America, and birds from Japan, Formosa and Nicaragua.

The most important collection received during the year includes a large series of musk-oxen, a still larger series of the Peary caribou, a number of walrus skulls and scalps, a series of narwhal tusks, and a large number of lemmings and foetal specimens of seals, walrus, narwhal, arctic fox and lemming in alcohol. All of the above was obtained by Commander Robert E. Peary in northern Ellesmere Land and Greenland and turned over to the Museum by the Peary Arctic Club. Other desirable additions were several antelope and specimens of big game from British East Africa, the gift of Messrs. E. Hubert Litchfield, Bayard Dominick, Jr., and Henry Sampson, Jr.

Several mammals and birds in the flesh have been received from the New York Zoölogical Society and the Central Park Menagerie, and we wish to acknowledge these.

The mammals acquired during the year number 625; the birds, 1,616 specimens.

The department has been fairly well represented in the field. Mr. Roy C. Andrews of the Museum staff made a trip early in the year to Tadousac, Quebec, to obtain specimens of the smaller cetaceans, securing three skeletons and a series of skulls of the white whale. Later he was sent to the Philippine Islands to join the staff of the steamer "Albatross" of the United States Fisheries Bureau, to make collections of natural history material in the interest of the Museum.

Mr. R. M. Anderson has continued his explorations in Arctic America in connection with Mr. V. Stefánsson, but as yet no definite report of his work has been received. Mr. Anderson is expected to come out in the summer of 1910.

Mr. M. A. Carriker, Jr., who has planned a long collecting trip to South America, and is now at work in Venezuela, has been commissioned to procure mammal materials for us.



A small instalment from the island of Trinidad has already been received.

Mr. W. B. Richardson has finished his work for the Museum in Nicaragua, having sent us during the year 177 mammals and 753 birds.

By far the most important and the best equipped expedition was sent into the Belgian Colony of the Congo under the direction of Messrs. Herbert Lang and James Chapin. It is the purpose of this expedition to make a biological survey of the Congo, paying particular attention to the smaller and less conspicuous animals. Owing to the very cordial relations existing between the Museum and the Belgian officials, our representatives have been able to secure unusual concessions, and everything points to very successful results. Messrs. Lang and Chapin entered the Congo in June, and on August 14 were at Stanleyville, whence they were about to journey into the Upper Ituri district for an absence of six months.

The entire expense of this expedition has been borne by several friends of the Museum, as noted in the financial statement, and the Belgian government contributed \$1,329.13 toward the work.

An event of the year was the opening of the west side of the gallery of Habitat Bird Groups. This was signaled by a reception to the patrons and bird lovers, which was followed by a special reception to Members. Both of these were well attended.

These groups show in a striking manner the home life of typical North American birds in their natural surroundings, and their preparation has been made possible through the generous contributions of the subscribers to the North American Ornithology Fund. The groups furnished during the year include the Bahama Island, the Cuthbert Rookery, the Golden Eagle, the Ptarmigan, the Klamath Lake, the Sage Hen, the Wild Goose, the Grebe, and, finally, the Loon and the Turkey Buzzard, which complete this important series.

The wide-spread interest in this method of presenting bird life to the public induced a number of friends of the Museum to subscribe to a second bird group fund, and under this grant a series of seasonal bird groups is being prepared. Mr. Chapman has already undertaken some of the necessary field work.



The routine work of the department has progressed. Fire-proof storage cases of superior design have been devised and constructed for the skins of large mammals, and the study collection has been in part rearranged.

In addition to his department duties, the Curator has continued the editorship of the *Bulletin*, a task which absorbs more and more of his time.

## EXTINCT MAMMALS AND BIRDS

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.—The activities of this department in the field were limited to two expeditions, both of which were very successful: one to the Laramie Cretaceous of Montana, under the direction of Mr. Barnum Brown; the other to Wyoming for exploration of the Tertiary formations of the Wind River Basin, under Mr. Walter Granger.

Among Mr. Brown's finds, especially noteworthy are a nearly complete skeleton and a complete skull and jaws of the gigantic horned dinosaurs or ceratopsians, and portions of three skeletons of a new orthopodous dinosaur.

After concluding the work in Montana, Mr. Brown proceeded to Didsbury, Alberta, Canada, and made a reconnaissance in this region, where he found abundant fossil remains and a fertile field for future work.

In Wyoming, Mr. Granger and his party explored the fossil beds of the Beaver Divide, a region which apparently had not previously been worked by collectors, the Lost Cabin region, Muddy Creek on the Shoshone Reservation and the Crowheart Butte. The material he obtained consists chiefly of small mammals, and, while not of a character to make showy exhibition specimens, it is especially valuable from a scientific standpoint. The geologic results of this expedition are especially noteworthy.

Considerable attention has been given by Dr. Matthew to perfecting the catalogue of the department material. Especially has he devoted his time to the preparation of a catalogue of the published specimens.

Pending the assignment of a new exhibition hall, few changes have been made in the exhibition series, the present congested condition of the halls making new additions impracticable. Several specimens have been or are being mounted for exhibition. Among these mention may be made of skeletons of three of the ancient and peculiar reptiles and amphibians of the Permian Period, *Diopelus*, *Diadectes*, *Eryops*, which are among the oldest of large land animals; a skeleton of *Camptosaurus*, a small herbivorous dinosaur; a skeleton of *Tyrannosaurus*, the gigantic carnivorous dinosaur; a skeleton of *Hesperornis*, the extinct toothed diving bird of the Cretaceous seas, and a *Trachodon* skeleton with skin. This last, perhaps, is the most important acquisition of the year. It is absolutely unique, showing the character of the body covering of this giant dinosaur. It was found in Wyoming in 1908 by Mr. Charles H. Sternberg, and is the gift of Mrs. Morris K. Jesup.

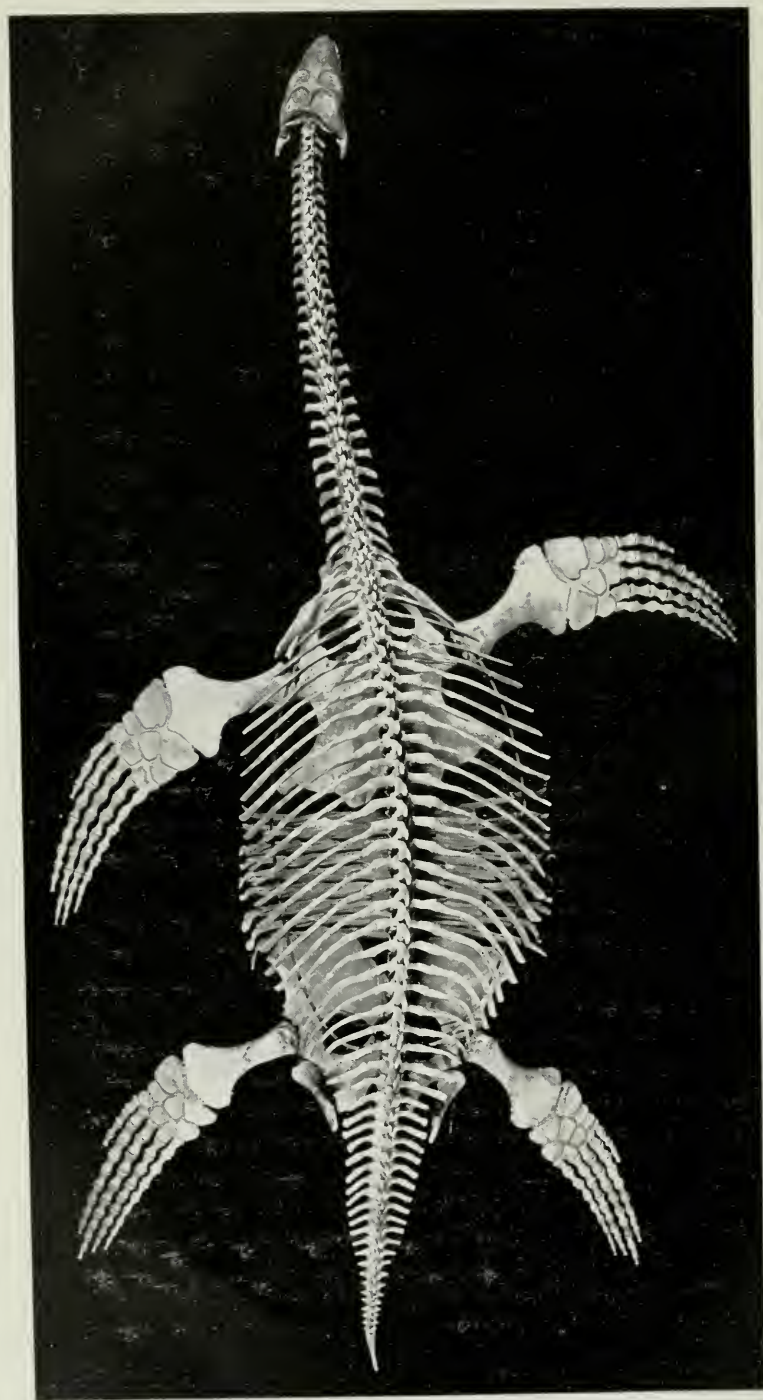
Several desirable additions have been made through exchange with other institutions and negotiations are pending which will greatly increase our collections.

The staff has displayed its usual activity in research, as evidenced by the papers published, which are enumerated under the section "Publications."

## LIVING AND EXTINCT REPTILES, BATRACHIANS AND FISHES

DEPARTMENT OF ICHTHYOLOGY AND HERPETOLOGY.—Until lately the reptiles, fishes and batrachians have been cared for by the Department of Invertebrate Zoölogy, but realizing the need of developing this branch of the Museum's collections, the Trustees created a Department of Ichthyology and Herpetology, which was organized in July and Dr. Bashford Dean of Columbia University, who had been Curator of the Division of Fossil Fishes of the Museum's Department of Vertebrate Palæontology since 1903, was appointed Curator. Dr. Louis Hussakof, Assistant Curator of Fossil Fishes, Miss Mary C. Dickerson, Assistant on living reptiles and batrachians, and Mr. John Treadwell Nichols, Assistant on living fishes, constitute the staff of the new department.





A PLESIOSAUR OF EXTINCT MARINE REPTILE OF THE JURASSIC PERIOD (*Cryptoclidus axoniensis*), from the Oxford Clays, Peterborough, England. Exchange from British Museum, 1902. Restored and mounted, 1909

The study collections have been examined, recatalogued and inventoried. This inventory shows in round numbers the following specimens and species:

	Number of specimens	Number of species
Fishes (living).....	2,100	600
Fishes (fossil) .....	8,900	800
Amphibians.....	1,775	150
Reptiles .....	4,500	550

The department is fortunate in having a generous fund at its disposal through the endowment of Mr. Cleveland H. Dodge. All important accessions are due to this fund.

In the Hall of Fossil Fishes the acquisition of new material has made desirable certain readjustments in the exhibition series. Above the main entrance a restoration of the jaws of a gigantic shark, *Carcharodon megalodon*, has been displayed. An innovation in the installation is the introduction of an "aquarium" containing a dozen or more models of fishes illustrating the fossils in the adjoining cases. The types represented occur in a single horizon and in a single locality in the Old Red Sandstone of Scotland.

In the Gallery of Recent Fishes few changes have been made. These consist mainly in the introduction of characteristic forms which hitherto have not been represented.

Progress has been made in the preparation of a large bullfrog habitat group by Mr. Dwight Franklin, designed to epitomize the activities and economics of this, our most typical, amphibian.

Collecting has been carried on in Puget Sound by Dr. Edwin C. Starks, under a grant from the Dodge Fund; in North Carolina, by Dr. Hussakof and Mr. Russell J. Coles; on Long Island, by Mr. Nichols, and a well-equipped expedition, under the direction of the Messrs. Ernesto and Alessandro Fabbri, has begun its collecting work among the Florida reefs, on the yacht "Tekla." Almost the entire equipment has been provided by the Messrs. Fabbri, who have also generously offered their vessel and their services for the furtherance of the scientific work of this department.

## MODERN INVERTEBRATES—DARWIN HALL

In the past the invertebrates have been in the custody of several departments which were not intimately related. The appointment of Dr. Henry E. Crampton as Curator of the Department, and the addition of Doctors Lutz, Petrunkevitch and Treadwell to the scientific staff made a reorganization desirable which would bring all of the invertebrate material in one department. The previously independent Department of Entomology was fused with this department and Mr. William Beutenmüller was made Associate Curator of Lepidoptera. Later Mr. L. P. Gratacap was made Curator of Mollusca. By these changes the insects and molluscs have been brought in closer correlation with those of the other invertebrate groups. For some years the lower vertebrates, including reptiles, batrachians and fishes, have been in the charge of this department; now, however, they have been transferred to the newly established Department of Ichthyology and Herpetology.

The exhibition material in the Darwin Hall has received careful attention, and many new installations have been added to the exhibition. These include a Bahama Echinoderm Group showing an association of echinoderms and other invertebrates in the neighborhood of a coral reef; a Bahama Sponge Crab Group centering about an association of the sponge crab with a large reef sponge; a Bahama Oyster and Mangrove Crab Group, and the Cold Spring Harbor Group showing an association of mussels, fiddler crabs, oysters and other invertebrates commonly found together on the Long Island shores.

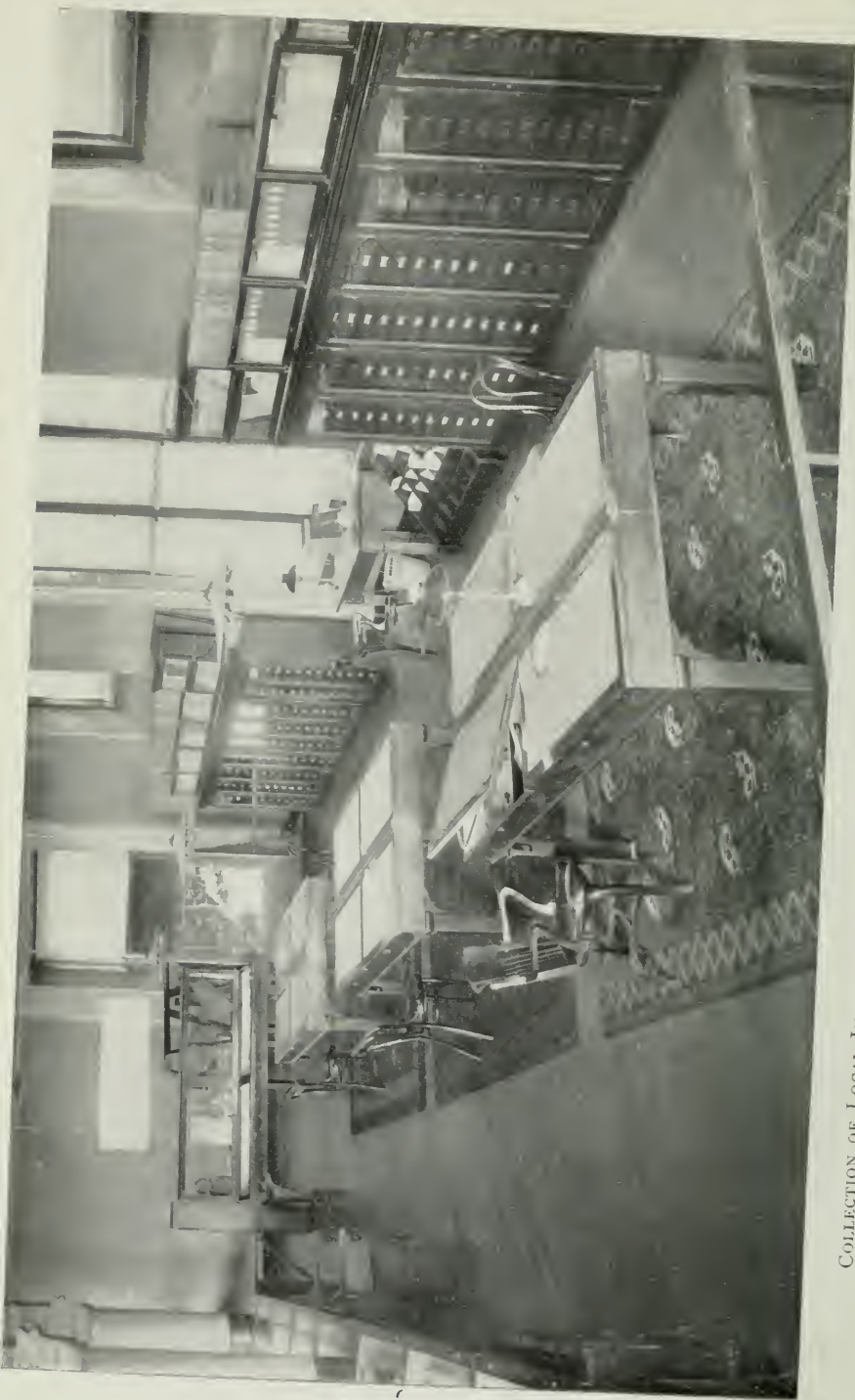
The preparators have also completed about twenty models in glass and wax, including specimens of protozoa, polyps, worms and snails. The models illustrate the form and anatomical structure of these organisms which cannot well be illustrated by natural specimens. Other models are in process of preparation.

## HALL OF LOCAL INSECTS AND INSECT BIOLOGY

Several changes have been made in the Insect Hall. The taxonomic collection of local insects has been moved from







COLLECTION OF LOCAL INSECTS. Under the joint custody of the New York Entomological Society and the Museum

open cases into cabinets where it is available to the public on request, and the Hoffman Collection of Butterflies has been withdrawn from exhibition because many of the beautiful specimens were deteriorating in the strong light. It has been decided to make this the Hall of Local Insects and Insect Biology.

One side of the hall has been converted into a room where visitors are given every facility for serious study of the local insects. The remaining space is devoted to exhibits which aim to give a fairly thorough course in theoretical and applied entomology. The displays are being arranged according to problems rather than according to taxonomic divisions. For example, one case is being devoted to household insects, another to aquatic insects, one to the geographical distribution of insects, and so on. In the section concerned with social insects, a group of "fungus growing ants" has been installed, and a large group of "mound building ants" is under construction. This is merely applying to insects the method long used with mammals and birds, namely, that of putting the animals on exhibition in natural positions instead of mounting them on pins.

The New York Entomological Society, with the coöperation of Dr. Lutz, has taken an especial interest in the development of the collection of local insects. This collection has been placed in the custody of the Society and has been installed in a section of the Hall of Local Insects, which is also used by the Society for its meetings,—an arrangement that is mutually advantageous.

The general insect collections have been temporarily continued in charge of Mr. Beutenmüller. During the year 2,800 specimens of Lepidoptera and over 1,200 insects of other orders have been mounted. There are still on hand about 20,000 unmounted specimens of Lepidoptera. The entire collection of colored-winged moths has been arranged and labeled. This collection is an exceedingly valuable one, and is the best extant so far as North American species are concerned.

On account of the extensive reorganization of this department, the scientific work has been more or less interrupted,

but considerable progress has been made by the members of the staff in their respective investigations.

The department has been well represented in the field. Dr. Crampton visited several groups of islands of the South Pacific in order to extend his studies upon the evolution of terrestrial snails. Among the localities visited were the Society Islands, the Cook Islands, New Zealand, Tonga Islands, Samoa, Fiji, and Hawaii. In addition to zoölogical collections, Dr. Crampton secured considerable anthropological material.

A trip to Mexico and Texas was undertaken by Dr. Alexander Petrunkevitch during the months of July and August, in order to collect spiders and to investigate their habits. Dr. Petrunkevitch brought back with him a valuable collection comprising many fine specimens not only of spiders but of other invertebrates and also of reptiles and amphibians. His collections were made in spite of extremely adverse conditions caused by unexpected floods.

An expedition to Dry Tortugas was undertaken by Prof. Aaron S. Treadwell during the summer months. Professor Treadwell secured a valuable series of the annulates of these islands.

Mr. Miner spent the months of July and August in the Woods Hole region collecting invertebrates for the Museum's study collections and gathering data for models and groups for the exhibition series. With the aid of several members of the preparation staff many sketches of living invertebrates were secured, and a large collection of preserved material was brought back to the Museum.

The fifth expedition was to the vicinity of the Ashokan Watershed, under the direction of Professor Treadwell, who undertook the work of making a biological survey of that region. The funds for financing the expedition were contributed by Mr. S. D. Coykendall.

#### EXTINCT INVERTEBRATES

DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALÆONTOLOGY.—It is with regret that we announce the retirement at the end of the year of Professor R. P. Whitfield from active

service in the department. Advancing age and continued ill-health have made it necessary for him to give up his work, and the Trustees have taken pleasure in appointing him *Curator Emeritus* of the Department. Professor Whitfield came to the Museum in 1877, and during this period of more than thirty-two years he has labored efficiently in developing the Museum's collection of fossil invertebrates.

Dr. Edmund Otis Hovey, who has been in the department for sixteen years, first as Assistant Curator and later as Associate Curator, has been promoted to the curatorship, the appointment dating from January 1, 1910.

During the past year the collections have been enriched through the purchase of a slab about five feet square showing sixty-eight bodies (with arms) of the crinoid *Uintacrinus socialis* and a giant lamellibranch shell, *Inoceramus platinus* (?), more than four feet across. Both of these specimens are from the Niobrara Cretaceous beds of Kansas. Another important purchase was that of a series of Cretaceous fossils from the Mt. Lebanon district of Syria.

The geological material of the department has been under the immediate care of the Associate Curator, Dr. Edmund Otis Hovey. Under his direction the routine work of accessioning and cataloguing the material received has been accomplished. In addition to his regular department work, Dr. Hovey has continued his editorship of the *Museum Journal* and the Guide Leaflets, in which he has been ably assisted by Miss Mary C. Dickerson.

Among the material acquired during the year, first place must be given to the meteorites. Although the three Cape York meteorites (one of which is the largest known), or the "Peary" meteorites, as they are sometimes called, have been on deposit in the Museum for several years, it was not until 1909 that their purchase was finally concluded and that these unique specimens actually became the property of the Museum. This was accomplished largely through the instrumentality and generosity of Mrs. Morris K. Jesup.

The acquisition of three such specimens is noteworthy, but in addition the Museum has acquired by purchase a twenty-pound fragment (the largest known) of the Modoc stone

meteorite, and the Guffey iron meteorite weighing 682 pounds. The last is new to science, and we have all that is known to be in existence of the specimen. The addition of these five specimens gives the Museum one of the largest collections of meteorites in the world, and one which can never be duplicated.

Other gifts of note are a series of ores illustrating the copper and silver deposits of the Calumet and Hecla Mines, donated by the Calumet and Hecla Mines Company, and an unusually well preserved large fossilized tree stump from an abandoned anthracite coal mine under Scranton, Pennsylvania, received from the Delaware, Lackawanna and Western Coal Company. Through the financial aid of Dr. C. E. Slocum, of Defiance, Ohio, and with the cooperation of the Kelley's Island Lime and Transport Company, the Museum has secured two blocks of limestone 8' x 10' and 4' x 4' respectively, from Kelley's Island, Ohio, the surface of each showing deep and perfect glacial grooves as well as glacial polishing.

#### LIVING AND EXTINCT RACES OF MEN

DEPARTMENT OF ANTHROPOLOGY.—Special attention has been given to the material in the exhibition halls. In the Northwest Coast Hall the collections have been rearranged in a geographical sequence, so that the visitor in passing from south to north through the hall encounters the tribes as if he were actually traveling from south to north in the country. Four new paintings of Arctic scenes by Mr. F. W. Stokes have been added to the Arctic section of this hall, thereby completing the series of mural paintings provided through the courtesy of Mr. Arthur Curtiss James.

In connection with the Hudson-Fulton Celebration, a special exhibition of the archæology and ethnology of Greater New York and the Hudson Valley was installed in the west hall on the first floor, which it is intended shall remain as a permanent part of the North American type series.

The large ethnological collection from the Fiji Islands, the gift of Mrs. Morris K. Jesup, has been catalogued.

Under the direction of Dr. R. H. Lowie, progress has been made in the preparation of the African Hall, for which







KNOWLES, OKLAHOMA, METEORITE. A nickel-iron meteorite weighing 355 pounds. Length 18 inches, height 14 inches. Found in 1905 near Knowles, Oklahoma



decorative panels, representing African scenes, have been painted by Mr. Albert Operti. In this hall the arrangement will be geographical.

The scientific staff of the department has been augmented by the appointment of Dr. Pliny E. Goddard as an Associate Curator and of Dr. Herbert J. Spinden as an Assistant Curator. Dr. Goddard comes from the University of California and is unusually well equipped to take up ethnological work.

The department has been well represented in the field, nine parties having been actively at work for longer or shorter periods.

Under the special patronage of Mr. Archer M. Huntington and with the advice of the Committee on Primitive Peoples of the Southwest, of which Mr. Huntington is Chairman, the Museum is carrying on extensive exploration and investigation among the Indians of the Southwestern States. This work is being done by Doctors Goddard and Spinden. Dr. Goddard is devoting himself to the nomadic tribes of the area, a work for which he is especially well equipped, and Dr. Spinden is at work among the Pueblo Indians. The culture of these people is extremely complex and in consequence offers an inviting field. Both Dr. Goddard and Dr. Spinden have secured collections which make valuable additions to our exhibition series.

In June Mr. Harlan I. Smith left for the North Pacific coast of America, returning in September. He resumed his archæological reconnaissance, carrying it northward from the northern end of Vancouver Island as far as Skagway, Alaska. He located ancient village sites, shell-heaps and petroglyphs, and secured many photographs. Mr. Smith was accompanied by Mr. Will S. Taylor, a mural artist, who made color studies in oil of the Indians and their environment, which will be the basis of the mural decorations that Mr. Taylor has been commissioned to paint for the Northwest Coast Hall.

During the summer months Mr. Alanson Skinner visited the Northern Ojibway and Eastern Cree of the region south of Hudson Bay where he obtained many notes and specimens. Mr. Skinner also visited the Stockbridge, Oneida, Menominee and Winnebago of Wisconsin, obtaining from the latter an

extensive collection, especially rich in household utensils and costumes.

Mr. Gilbert L. Wilson made a second visit to the surviving Hidatsa and Mandan Indians in North Dakota to continue his ethnological research. He reports this work especially successful.

Captain George Comer has returned from the Arctic with a good collection from ancient village sites on Southampton Island and the northwestern shores of Hudson Bay.

The Curator himself has visited Doctors Goddard and Spinden in the field and made a general survey of the southwestern region of the United States.

Messrs. Stefánsson and Anderson have continued their work along the shores of the Beaufort Sea, but the report of their work has not been received.

The scientific publications have kept pace with the explorations and investigations. An extra volume of the *Anthropological Papers* has been issued, besides several other papers in Vol. II. The contributors have been Doctors Wissler and Lowie, and Messrs. Skinner, Finch, Bolton, Harrington, Schrabisch and Speck.

Among the accessions, mention should be made of a Hawaiian feather cape, the gift of Mr. George S. Bowdoin, and the Starr Philippine Collection, acquired by purchase, consisting of specimens of weapons, household utensils, fishing and hunting implements, clothing and ceremonial objects.

Under an agreement with the War Department, the Museum prepared the Government's Philippine Exhibit at the Alaska-Yukon-Pacific Exposition. The material used for this purpose was part of the collection acquired at St. Louis. The installation was first made in the Philippine Hall of the Museum and later was reassembled at Seattle.

## PHYSIOLOGY

DEPARTMENT OF PHYSIOLOGY.—The preparation of the osteological specimens for the Museum falls largely on this department.

For cleaning small skulls and skeletons, the digestion method has proved so effective that it has been possible to

preserve material which it would have been necessary to discard if the grosser methods of maceration had been used.

During the year, 2,262 skulls, 75 skeletons, 16 sterna, 93 sets of leg bones and the appendages of four birds have been prepared for exhibition or study purposes. The most important among these are the skeletons of one giraffe, two whales, one blackfish, one rhinoceros and one goose-fish.

In addition to the regular work of the department, a considerable portion of the assistant's time has been occupied in the numbering, cataloguing and assorting of specimens in the Department of Mammalogy.

### WOODS AND FORESTRY

With the approval of the Committee on Woods and Forestry, of which the Honorable Gifford Pinchot is Chairman, the Jesup Collection of North American Woods is being rearranged and installed in a way to bring out more clearly the classification of trees, their relationship and their economic uses.

### THE LIBRARY

DEPARTMENT OF BOOKS AND PUBLICATIONS.—It is gratifying to note the progress made in the growth and development of the library. As stated in an earlier report, the purpose of the Curator is to build up a special library of natural science, and therefore no effort is made to secure books not germane to the work and research of a museum of natural history. More and more is our library being recognized by workers in science as the centre where such publications may be consulted. During the year the following new accessions have been received: bound volumes, 1,359; unbound volumes, 632; numbers, 6,369, and pamphlets, 1,495. The working library at the close of 1909 numbered volumes 40,000 and pamphlets 20,000.

Noteworthy gifts have been received from Miss Grace H. Dodge, Prince Ludwig Salvator, Messrs. Anson W. Hard, William G. DeWitt and J. Pierpont Morgan and Professor Ernst Haeckel. The bibliographic catalogue has been increased by the intercalation of 12,706 cards received from

the *Concilium Bibliographicum*, and a like number has been distributed in the series on deposit.

## PUBLICATIONS

Scientific research has been carried on extensively during the past year, the sum of \$16,777.01 having been expended on the publication of the results.

A full list of the scientific publications of the Museum issued in 1909, as received by the Curator for distribution, follows:

### DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALÆONTOLOGY

#### *Bulletin*, Volume XXVI

W. J. Sinclair. "The Washakie, a Volcanic Ash Formation." (Pages 25-27.)

### DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY

#### *Bulletin*, Volume XXVI

J. A. Allen. "Mammals from British East Africa. Collected by the Tjäder Expedition of 1906." (Pages 147-175, with 10 text figures.)

J. A. Allen. "The White Bear of Southwestern British Columbia." (Pages 233-238, with 4 text figures.)

J. A. Allen. "Further Notes on Mammals from the Island of Hainan, China." (Pages 239-242.)

J. A. Allen. "Mammals from Shen-si Province, China." (Pages 425-430.)

Roy C. Andrews. "Observations on the Habits of the Finback and Humpback Whales of the Eastern North Pacific." (Pages 213-226, plates xxx-xl.)

Roy C. Andrews. "Further Notes on *Eubalæna glacialis* (Bonn.)." (Pages 273-275, plates xlvi-l.)

D. G. Elliot. "Descriptions of Apparently a New Species and Subspecies of *Cebus*, with Remarks on the Nomenclature of Linnæus's *Simia apella* and *Simia capucina*." (Pages 227-231.)

John Treadwell Nichols. "A Note on the Dolphins (*Coryphæna equisetis* and *Coryphæna hippurus*)." (Pages 131-133, with 2 text figures.)

L. S. Quackenbush. "Notes on Alaskan Mammoth Expeditions of 1907 and 1908." (Pages 87-130, plates xvii-xxv.)

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY

*Bulletin, Volume XXVI*

- Walter Granger. "Faunal Horizons of the Washakie Formation of Southern Wyoming." (Pages 13-24, plates ii-vi, with 3 text figures.)
- A. Hermann. "Modern Laboratory Methods in Vertebrate Palæontology." (Pages 283-332, plates lii-lvii, with 18 text figures.)
- W. D. Matthew. "Observations upon the Genus *Ancodon*." (Pages 1-8.)
- W. D. Matthew and Harold J. Cook. "A Pliocene Fauna from Western Nebraska." (Pages 361-414, with 27 text figures.)
- H. F. Osborn. "New Carnivorous Mammals from the Fayûm Oligocene, Egypt." (Pages 415-424, with 9 text figures.)

*Memoirs, Volume IX, Part VI*

- W. D. Matthew. "The Carnivora and Insectivora of the Bridger Basin, Middle Eocene." (Pages 289-567, plates xlii-liii, with 118 text figures.)

DEPARTMENT OF ANTHROPOLOGY

*Anthropological Papers, Volume II*

- Robert H. Lowie. "The Northern Shoshone." (Pages 165-306, plate i, with 20 text figures.)
- Clark Wissler. "Notes on New Collections." (Pages 307-364, plates ii-xiii, with 23 text figures.)

*Anthropological Papers, Volume III*

- Reginald Pelham Bolton. "The Indians of Washington Heights." (Pages 77-112, plates xiii-xvii, with 6 text figures.)
- James K. Finch. "Aboriginal Remains on Manhattan Island." (Pages 65-76.)
- M. R. Harrington. "The Rock-Shelters of Armonk, New York." (Pages 125-140, plates xviii-xx, with 7 text figures.)
- M. R. Harrington. "Ancient Shell Heaps near New York City." (Pages 169-182, with 3 text figures.)
- Max Schrabisch. "Indian Rock-Shelters in Northern New Jersey and Southern New York." (Pages 141-168.)
- Alanson Skinner. "The Lenapé Indians of Staten Island." (Pages 3-64, plates i-xii, with 5 text figures and 1 map.)
- Alanson Skinner. "Archæology of Manhattan Island." (Pages 113-124, with 9 text figures.)
- Alanson Skinner. "Archæology of the New York Coastal Algonkin." (Pages 213-236, with 6 text figures.)
- F. G. Speck. "Notes on the Mohegan and Niantic Indians." (Pages 183-212, plates xxi-xxiv, with 4 text figures.)

## Anthropological Papers, Volume IV

Robert H. Lowie. "The Assiniboine." (Pages 1-270, plates i-iii, with 17 text figures.)

## Memoirs, Volume IV, Part VII

James Teit. "The Shuswap." (Pages 443-789, plates xiii-xiv, with 82 text figures.)

## Volume VIII, Part II

Franz Boas. "The Kwakiutl of Vancouver Island." (Pages 301-522, plates xxvii-liii, with 142 text figures.)

## Volume XI, Part III

W. Bogoras. "The Chukchee: Social Organization." (Pages 537-733, plate xxxv, with 1 text figure.)

## DEPARTMENT OF INVERTEBRATE ZOOLOGY

## Bulletin, Volume XXVI

William Beutenmüller. "The Species of *Holcaspis* and their Galls." (Pages 29-46, plates vii-ix.)

William Beutenmüller. "The Species of *Amphibolips* and their Galls." (Pages 47-66, plates x-xv.)

William Beutenmüller. "The North American Species of *Diastrophus* and their Galls." (Pages 135-146, plates xxvi-xxix.)

William Beutenmüller. "The Species of *Biorhiza*, *Philonix* and Allied Genera, and their Galls." (Pages 243-256, plates xli-xliii.)

William Beutenmüller. "Some North American Cynipidæ and their Galls." (Pages 277-282, plate li.)

T. D. A. Cockerell. "Fossil Diptera from Florissant, Colorado." (Pages 9-12, plate i, with 1 text figure.)

T. D. A. Cockerell. "Fossil Insects from Florissant, Colorado." (Pages 67-76, plate xvi.)

T. D. A. Cockerell. "A Catalogue of the Generic Names Based on American Insects and Arachnids from the Tertiary Rocks, with Indications of the Type Species." (Pages 77-86.)

Roy L. Moodie. "New or Little Known Forms of Carboniferous Amphibia in The American Museum of Natural History." (Pages 347-358, plates lviii-lxv, with 2 text figures.)

James A. G. Rehn. "A Contribution to the Knowledge of the Orthoptera of Sumatra." (Pages 177-212, with 31 text figures.)

Aaron L. Treadwell. "*Haplosyllis cephalata* as an Ectoparasite." (Pages 359-360, with 2 text figures.)

William Morton Wheeler. "Ants of Formosa and the Philippines." (Pages 333-346.)







TURKEY VULTURE.—TURKEY BUZZARD. Reproduced from studies made by Mr. Frank M. Chapman in May, 1909, on and near Plummer Island, in the Potomac River, ten miles north of Washington. (North American Ornithology Fund)

## SPECIAL PUBLICATION

Leonard Worcester Williams. "The Anatomy of the Common Squid." (Pages 1-87, plates i-iii, with 16 text figures.)

## DEPARTMENT OF ICHTHYOLOGY AND HERPETOLOGY

*Bulletin*, Volume XXVI

L. Hussakof. "A New Goblin Shark, *Scapanorhynchus jordani*, from Japan." (Pages 257-262, plates xlv, with 3 text figures.)

L. Hussakof. "The Systematic Relationships of Certain American Arthrodiros." (Pages 263-272, plate xlv, with 8 text figures.)

*Memoirs*, Volume IX, Part V

Bashford Dean. "Studies on Fossil Fishes (Sharks, Chimæroids and Arthrodiros)." (Pages 209-287, plates xxvi-xli, with 65 text figures.)

## III. MEMBERSHIP

The receipts from membership are an important item in the Museum's income and continuous efforts are made to secure new members. During the past year the results have been especially gratifying.

The new Members number 348, and as the loss through death and resignation is 114, the net gain is 234. It is a pleasure to record that this is the largest number added during a single year in the Museum's history, an indication of the increased interest in the work of the institution.

On December 31, 1909, the total membership was 2,382, divided into classes as follows: Patrons, 103; Fellows, 41; Honorary Fellows, 2; Life Members, 427; Sustaining Members, 17; Annual Members, 1,792.

## NEW MEMBERS

The following persons were elected Patrons:

MRS. ANDREW CARNEGIE	JAMES DOUGLAS
THOMAS DE WITT CUYLER	GEORGE J. GOULD
W. K. VANDERBILT	

The following persons were elected Fellows:

MRS. HENRY O. HAVEMEYER \*MISS CAROLINE PHELPS STOKES  
MISS OLIVIA E. PHELPS STOKES

BARON LUDOVIC MONCHEUR was elected an Honorary Fellow.

\* Deceased

The following persons were elected Life Members:

DR. JOHN HENDLEY BARNHART	JAMES MCLEAN
MRS. EMMONS BLAINE	EDWARD C. MOORE, JR.
W. B. BOURN	VICTOR MORAWETZ
GEORGE W. BRACKENRIDGE	MISS F. T. MORGAN
CHARLES LYMAN BRINSMADE	HENRY S. MORGAN
S. B. CHAPIN	MISS JANE N. MORGAN
SAMUEL POMEROY COLT	MRS. J. PIERPONT MORGAN, JR.
R. R. CORNELL	J. S. MORGAN, JR.
MRS. DAVIES COXE	DUDLEY OLCOTT, 2d
WILLIAM R. CRAIG	MRS. JOHN E. PARSONS
THOMAS DE WITT CUYLER	FRANK E. PEABODY
WILLIAM T. DAVIS	DR. CHARLES B. PENROSE
LEWIS L. DELAFIELD	GEORGE D. PRATT
WILLIAM G. DE WITT	FREDERICK T. PROCTOR
DR. CARROLL DUNHAM	NORMAN B. REAM
A. F. ESTABROOK	JOHN A. ROEBLING
ALESSANDRO FABBRI	J. SANFORD SALTUS
DANIEL B. FEARING	ARCHDUKE LUDWIG SALVATOR
CHILDS FRICK	EDWARD SHEARSON
GEORGE SCOTT GRAHAM	ALANSON SKINNER
T. A. GRIFFIN	FRANCIS SKINNER
J. HORACE HARDING	MRS. E. A. SLAVEN
MRS. EDWARD S. HARKNESS	DR. HUGH M. SMITH
MRS. W. L. HARKNESS	BYAM K. STEVENS
FREDERIC DELANO HITCH	CHARLES CHAUNCEY STILLMAN
JOHN HUBBARD	FREDERICK STURGES
H. E. HUNTINGTON	MISS P. C. SWORDS
KARL HUTTER	MISS ANNE THOMSON
M. R. JACOBUS	FREDERICK T. VAN BEUREN
O. G. JENNINGS	F. W. VANDERBILT
MRS. OLIVER G. JENNINGS	BAREND VAN GERBIG
MRS. JAMES R. JESUP	ALEXANDER WALKER
MRS. JOHN INNES KANE	JAMES N. WALLACE
*JOHN S. KENNEDY	MRS. SIDNEY WEBSTER
NATHANIEL T. KIDDER	GEORGE PEABODY WETMORE
MRS. SAMUEL LAWRENCE	JOHN J. WILLIAMS
GOODHUE LIVINGSTON	HENRY R. WOLCOTT
WILLIAM G. LOW	ROBERT S. WOODWARD

\* Deceased

The following persons have become Sustaining Members:

H. D. BABCOCK	WALTER C. HUBBARD
MRS. D. C. BLAIR	MRS. CLARENCE H. MACKAY
ERNEST C. BLISS	MORTIMER L. SCHIFF
TEMPLE BOWDOIN	GRANT B. SCHLEY
WILLIAM H. FISCHER	ALBERT TAG
HENRY GOLDMAN	F. D. UNDERWOOD
GEORGE COE GRAVES	DELOS O. WICKHAM
EDWARD S. HARKNESS	MRS. M. ORME WILSON
EGERTON L. WINTHROP	

## DECEASED TRUSTEES AND MEMBERS

It is with a profound sense of our loss that we announce the death of the following Trustees and Members during the year 1909:

*Trustees*

CORNELIUS C. CUYLER                      D. O. MILLS

*Patrons*

MRS. WILLIAM E. DODGE                      MISS PHEBE ANNA THORNE

*Fellows*

MISS CAROLINE PHELPS STOKES              RUTHERFURD STUYVESANT

*Life Members*

THEODORE K. GIBBS	W. B. ISHAM
JOHN N. A. GRISWOLD	JOHN S. KENNEDY
E. H. HARRIMAN	FORDHAM MORRIS

In appreciation of Mr. Cuyler's interest in the Museum, the Trustees adopted the following Minute at the regular Quarterly Meeting of the Board, November 8, 1909:

It is our very sad duty to record the untimely death of

CORNELIUS C. CUYLER

at Biarritz, France, on July 31, 1909.

Mr. Cuyler was elected a Trustee on February 8, 1904, to succeed the Honorable Abram S. Hewitt. On the decease of Mr. Jesup, he became the especial representative of that family. During the year 1909 he served on the Committee on Buildings and Plans and on Finance.

He began his service for the Museum with his usual optimism, whole heartedness and sound judgment, and was full of pride and hope as to his future connection with its development.

In common with many other institutions which he served with rare fidelity and devotion, we deeply mourn his loss and shall miss him at our councils.

While the death of Mr. Mills did not occur until January 3, 1910, we desire to record in this, the Report of 1909, the resolution which was adopted at the Annual Meeting of the Trustees, February 14, 1910:

This Board records with sorrow its tribute to the late

DARIUS OGDEN MILLS

for twenty-eight years one of its number.

Mr. Mills was elected a Trustee February 13, 1882, and a year later was made a member of the Finance Committee, on which he continued to serve until his death. He was one of the four members of the Committee appointed in 1892 to consider arrangements for educational coöperation, and he also served on the Nominating Committee and was its Chairman for over fifteen years.

The Museum is indebted to Mr. Mills for many generous gifts.

Since the foundation of the Museum forty-odd years ago many prominent and distinguished men have served on the Board of Trustees, but none whose presence was more welcome than that of Mr. Mills. Quiet and gentle in manner, sound in judgment and wise in counsel, modest and simple but full of good sense, just and true in every dealing, he was loved and appreciated by all who knew him. His death on January third leaves his fellow Trustees of this Board with a feeling of profound sense of loss and with the greatest admiration for his fine and lovable qualities of character.

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**IV. FINANCES, MAINTENANCE, ENDOWMENT**

The financial transactions of the Museum have been carried in three separate accounts, namely, the City Maintenance Account, the General Account and the Special Funds Account, all of which are described later. The details of the receipts and disbursements thus classified will be found in the Treasurer's Report, pages 53 to 63 inclusive. All books and vouchers of these accounts have been duly examined and certified by the Audit Company of New York.

**CITY MAINTENANCE ACCOUNT.**—According to the terms of the contract between the City and the Trustees it is the duty of the City to provide for the maintenance of the Museum and the up-keep of the building. During the past year, the City appropriated \$180,000 for this purpose and as usual the receipts and expenditures have been carried in an account separate from the other moneys of the Museum. Generous as this sum may seem, it is quite insufficient to meet all the expenses of maintenance, and items to the amount of \$36,652.01 legitimately chargeable to the City have been paid from the funds of the Trustees. The need of a larger maintenance fund is apparent and it is expected that in the coming year it will be increased to \$200,000, the maximum amount which the law allows.

**GENERAL ACCOUNT.**—The moneys of this account are derived from the interest on invested funds, membership and sales. The total net receipts were \$154,018.51, the principal items of which were as follows:

Interest on bequest of Morris K. Jesup.....	\$49,600.00
Interest on General Endowment.....	50,251.25
Life Members.....	7,100.00
Sustaining and Annual Members.....	17,645.00
Balance of contribution of 1908 by Mrs. Morris K. Jesup, which was applied to the purchase of the Cape York or "Peary" meteorites.....	20,594.60

It was Mr. Jesup's wish, as stated in his will, that the income of his bequest should not be used for maintenance purposes, but for the enlargement of the collections and the prosecution of the scientific work of the institution. In carrying out the terms of the bequest, the Trustees have devoted this money to the support of field parties in Arctic America,



Hudson Bay, British Columbia, Alaska, the Southwest and the Philippines, and to the purchase of important collections and specimens, including the Starr Collection of African Ethnology, the Benedict Collection of Philippine Ethnology, the Palawan Collection of Mammals and Birds, a collection of mammals and birds from Nicaragua, a rare skeleton, with skin, of the dinosaur *Trachodon*, the Modoc and Guffey meteorites, the Mexican Codex, and several objects from the Maori of New Zealand.

TRUSTEES SPECIAL FUNDS ACCOUNT.—Money given to the Museum for specified purposes is carried in this account. Often some patron, or group of patrons, will undertake the support of a particular piece of work or will assist in acquiring an important collection. Such contributions supplement the General Account very materially.

Usually the financial transaction relating to such a matter will be found in the Special Funds Account.

The following shows the total expenditures by the City during the year 1909, as compared with the expenditures by the Trustees from funds derived from all sources, together with the increase of collections by direct gift the cost of which does not pass through the Treasurer's books:

Expenditures by the City.....	\$180,048.69
Expenditures by the Trustees.....	208,031.51

TRUSTEES PERMANENT ENDOWMENT.—The Permanent Endowment is the backbone of the steady development of the Museum and it is for this reason that a larger endowment is imperative. The only additions that have been made to this fund during the year are the bequest of \$10,000 of Mr. William R. Sands, a Life Member of the Museum, and the two patronships of \$1,000 each of Mrs. Andrew Carnegie and Mr. Thomas DeWitt Cuyler. The fund will be further increased by the bequest of \$10,000 of Miss Phebe Anna Thorne, to which her executors intend to add \$15,000, and the bequest of \$100,000 of Mr. D. O. Mills.

Very respectfully yours,

HENRY FAIRFIELD OSBORN

*President*

May 1, 1910



## FINANCIAL STATEMENT

### 1909

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#### *PERMANENT ENDOWMENT\**

Morris K. Jesup Fund .....	\$1,135,600 00	
General Fund .....	1,007,750 00	
John B. Trevor Fund .....	25,000 00	
Josiah M. Fiske Fund .....	10,000 00	
Matilda W. Bruce Fund .....	11,000 00	
Solomon Loeb Fund .....	5,000 00	
		\$2,194,350 00
Uninvested Cash .....		1,295 92
		\$2,195,645 92

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\* The income on the Permanent Endowment is the chief source of income of the General Account.

CITY MAINTENANCE ACCOUNT

RECEIPTS

1909

Capital Fund, January 1, 1909.....		\$15,000 00
Department of Parks :		
Account of 1908.....		\$49 09
Appropriation for 1909 :		
Salaries and Wages .....	\$152,443 00	
Telephone, Rental of .....	382 69	
General Supplies.....	9,645 74	
Materials for Repairs and Re-		
placements by Departmental		
Labor.....	6,694 54	
Repairs and Replacements by		
Contract or Open Order.....	475 26	
Apparatus and Machinery,		
Equipment, Care and Storage		
of same.....	229 80	
Fuel .....	6,652 03	
Contingencies.....	1,427 42	
Bills awaiting reimbursement...	2,049 12	
	179,999 60	
<b>Total receipts for the maintenance</b>		
<b>of all departments.....</b>		<b>180,048 69</b>
General Account :		
Transferred to balance deficit.....		226 23
Interest on Credit Balances.....		82 95
Loans.....		3,500 00
		\$198,857 87

Examined and Approved { ANSON W. HARD  
GUSTAV E. KISSEL } Auditing  
                                  { SETH LOW } Committee

CITY MAINTENANCE ACCOUNT\*

DISBURSEMENTS

1909

Geology and Invertebrate Palæontology.....	\$5,778 80	
Mineralogy.....	2,534 21	
Mammalogy and Ornithology.....	5,446 85	
Vertebrate Palæontology.....	10,956 74	
Anthropology.....	8,405 43	
Invertebrate Zoölogy.....	8,177 66	
Ichthyology and Herpetology.....	2,013 63	
Physiology.....	1,134 25	
Library.....	9,518 87	
Public Instruction.....	4,003 49	
Preparation and Exhibition.....	8,494 59	
Heating and Lighting.....	21,229 16	
Repairs and Installation.....	20,335 79	
General Supplies and Expenses.....	7,305 45	
Administration.....	64,940 00	
<b>Total disbursements for the maintenance of all departments.....</b>		<b>\$180,274 92</b>
Interest on Credit Balances transferred to General Account.....		82 95
Loans.....		3,500 00
Capital Fund:		
Cash on hand December 31, 1909.....	12,950 88	
Bills awaiting reimbursement.....	2,049 12	
		<u>15,000 00</u>
		<u>\$198,857 87</u>

CHARLES LANIER, *Treasurer*

[E. & O. E.]

NEW YORK, *December 31, 1909*

\*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 AMERICAN MUSEUM OF NATURAL HISTORY

GENERAL ACCOUNT

RECEIPTS

1909

Temporary Working Fund Capital.....		\$500 00
Interest on Permanent Endowment.....	\$99,851 25	
Interest on Credit Balances.....	3,771 57	
Fellows.....	1,000 00	
Life Members.....	7,100 00	
Annual Members.....	17,220 00	
Sustaining Members.....	425 00	
Contribution, Percy R. Pyne.....	2,000 00	
Sale of Publications.....	743 55	
Sales and Exchanges.....	1,312 54	
Transferred from Special Funds:		
Gift of Mrs. Morris K. Jesup for the purchase of the Peary Meteorites and Ethnological Collections.....	20,594 60	
<b>Total receipts for the development of all departments.....</b>		<b>154,018 51</b>
Reimbursements:		
Special Funds Account Transfers:		
African Elephant Group Fund.....	10,000 00	
Horse Exploration Fund.....	1,900 00	
Vertebrate Palæontology Field Funds.....	1,300 00	
Hudson-Fulton Celebration Commission Fund.....	730 02	
Alaskan Basketry Fund.....	250 00	
General Account:		
Unexpended Field Balances, etc.....	2,597 47	
		16,777 49
Patrons:		
Mrs. Andrew Carnegie.....	1,000 00	
Thomas DeWitt Cuyler.....	1,000 00	
		2,000 00
Loans.....		11,000 00
		<u>\$184,296 00</u>

Examined and Approved { ANSON W. HARD  
GUSTAV E. KISSEL } Auditing  
                                  { SETH LOW } Committee

*GENERAL ACCOUNT\**

DISBURSEMENTS

1909

Geology and Invertebrate Palæontology.....	\$25,856 17
Mineralogy .....	108 83
Mammalogy.....	22,013 71
Vertebrate Palæontology.....	17,431 44
Anthropology.....	32,107 66
Invertebrate Zoölogy.....	7,647 60
Ichthyology and Herpetology.....	853 80
Physiology.....	1,534 31
Library.....	6,881 56
Publications .....	14,651 36
Public Instruction.....	4,983 20
Preparation and Exhibition .....	8,225 06
Heating and Lighting.....	1,978 05
Repairs and Installation.....	3,279 51
General Supplies and Expenses.....	12,756 14
Sales and Exchanges.....	787 96
Professor Osborn's Research and Publication Fund..	3,403 45
Interest on Overdrafts .....	421 29
<b>Total disbursements for the development of all departments.....</b>	<b>\$164,921 15</b>
Patrons :	
Transferred to Investment Fund, Special Funds Account.....	2,000 00
Loans.....	11,000 00
Transferred to City Maintenance to balance deficit ..	226 23
Cash on hand December 31, 1909.....	5,648 62
Temporary Working Fund Capital.....	500 00
	<u>\$184,296 00</u>

CHARLES LANIER, *Treasurer*

[E. & O. E.]

NEW YORK, *December 31, 1909*

\* 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.



*SPECIAL FUNDS ACCOUNT*

RECEIPTS

1909

GEOLOGY:

CHARLES E. SLOCUM FUND..... \$200 00

MAMMALOGY AND ORNITHOLOGY:

NORTH AMERICAN ORNITHOLOGY FUND, BALANCE..... \$355 55

NORTH AMERICAN ORNITHOLOGY FUND, SERIES 2:

Miss Carolyn Morgan.....	\$250 00	
Mrs. Harriet L. Schuyler.....	250 00	
Henry Clay Pierce.....	500 00	
Mrs. Morris K. Jesup.....	250 00	
Mrs. John B. Trevor.....	250 00	
F. Aug. Schermerhorn.....	500 00	
John L. Cadwalader.....	250 00	
F. Brandreth.....	50 00	
Mrs. Robert Winthrop.....	250 00	
Mrs. Louise W. Havemeyer.....	250 00	
		<u>2,800 00</u>

AFRICAN ELEPHANT GROUP FUND:

Archer M. Huntington.....	2,000 00	
Arthur Curtiss James.....	1,000 00	
Cleveland H. Dodge.....	1,000 00	
George S. Bowdoin.....	2,000 00	
J. Pierpont Morgan.....	2,500 00	
Gustav E. Kissel.....	500 00	
Percy R. Pyne.....	1,000 00	
		<u>10,000 00</u>

MRS. FRANK K. STURGIS FUND, BALANCE..... 63 78

CONGO EXPEDITION FUND:

Charles Lanier.....	1,000 00	
John B. Trevor.....	2,500 00	
Robert W. Goelet.....	1,000 00	
W. K. Vanderbilt.....	1,000 00	
A. D. Juilliard.....	500 00	
William Rockefeller.....	2,000 00	
J. Pierpont Morgan, Jr.....	1,000 00	
Cleveland H. Dodge.....	1,000 00	
Belgian Government.....	1,329 13	
		<u>11,329 13</u>

CRANDALL OÖLOGICAL FUND:

Mrs. Albert Bierstadt.....	250 00	
Dr. Carroll Dunham.....	10 00	
Samuel Thorne.....	250 00	
J. Chr. C. Hupfel.....	25 00	
William P. Clyde.....	250 00	
Mrs. William H. Bliss.....	50 00	
Charles M. Schott, Jr.....	50 00	
		<u>885 00</u>

25,433 46

*Carried forward*..... \$25,633 46

*SPECIAL FUNDS ACCOUNT*

DISBURSEMENTS

1909

GEOLOGY:

CHARLES E. SLOCUM FUND..... \$200 00

MAMMALOGY AND ORNITHOLOGY:

NORTH AMERICAN ORNITHOLOGY FUND..... \$296 85

NORTH AMERICAN ORNITHOLOGY FUND,  
SERIES 2..... 971 06

AFRICAN ELEPHANT GROUP FUND..... 10,000 00

CONGO EXPEDITION FUND..... 10,629 61

*Carried forward*..... 21,897 52  
\$22,097 52

THE AMERICAN MUSEUM OF NATURAL HISTORY

SPECIAL FUNDS ACCOUNT

RECEIPTS

1909

*Brought forward*..... \$25,633 46

MINERALOGY :

MATILDA W. BRUCE FUND :

Balance..... \$ 9 00

Interest..... 660 00

669 00

VERTEBRATE PALÆONTOLOGY :

HORSE EXPLORATION FUND :

Frank K. Sturgis..... 200 00

Cleveland H. Dodge..... 1,000 00

George J. Gould..... 1,000 00

2,200 00

TERTIARY FAUNAL LIFE SCENES FUND :

J. Pierpont Morgan, Jr..... 1,000 00

VERTEBRATE PALÆONTOLOGY FIELD FUNDS :

Henry Fairfield Osborn..... 1,500 00

TRICERATOPS FUND :

Charles Lanier..... 1,000 00

5,700 00

ANTHROPOLOGY :

HYDE EXPLORATION FUND :

E. T. B. Hyde..... 50 00

WM. DEMUTH COLLECTION :

Balance..... 38 17

EAST ASIATIC FUND :

Balance..... 3,180 75

BERLIN NORTH AMERICAN FUND :

Balance..... 78 50

MURAL DECORATION FUND :

Balance..... 100 00

BOARD OF MISSIONS FUND :

Balance..... 830 00

ALASKAN BASKETRY FUND :

Mrs. Morris K. Jesup..... 250 00

PRIMITIVE PEOPLES OF THE SOUTHWEST FUND :

Archer M. Huntington..... 5,000 00

GEORGE S. BOWDOIN FUND..... 700 00

10,227 42

*Carried forward*..... \$42,229 88

*SPECIAL FUNDS ACCOUNT*

DISBURSEMENTS

1909

	<i>Brought forward</i> .....		\$22,097 52
MINERALOGY:			
	MATILDA W. BRUCE FUND.....		669 00
VERTEBRATE PALÆONTOLOGY:			
	HORSE EXPLORATION FUND.....	2,200 00	
	TERTIARY FAUNAL LIFE SCENES FUND.....	600 00	
	VERTEBRATE PALÆONTOLOGY FIELD FUNDS.	1,500 00	
	TRICERATOPS FUND.....	<u>1,000 00</u>	5,300 00
ANTHROPOLOGY:			
	HYDE EXPLORATION FUND.....	50 00	
	WM. DEMUTH COLLECTION .....	38 17	
	EAST ASIATIC FUND.....	39 00	
	MURAL DECORATION FUND.....	100 00	
	ALASKAN BASKETRY FUND .....	250 00	
	PRIMITIVE PEOPLES OF THE SOUTHWEST FUND	5,000 00	
	GEORGE S. BOWDOIN FUND .....	<u>700 00</u>	6,177 17
	<i>Carried forward</i> .....		<u>\$34,243 69</u>



*SPECIAL FUNDS ACCOUNT\**

DISBURSEMENTS

1909

*Brought forward*..... \$34,243 69

INVERTEBRATE ZOOLOGY:

EMERSON McMILLIN GIFT..... \$250 00

ASHOKAN WATERSHED BIOLOGICAL SURVEY  
FUND..... 113 50

363 50

ICHTHYOLOGY AND HERPETOLOGY:

FOSSIL FISH EXPLORATION FUND..... 1,316 19

PUBLIC INSTRUCTION:

CHILDREN'S MUSEUM FUND..... 20 94

PUBLICATIONS:

JESUP NORTH PACIFIC EXPEDITION PUBLICATIONS..... 2,125 65

Total disbursements for the development of specific  
departments..... 38,069 97

GIFT OF MRS. MORRIS K. JESUP..... 20,594 60

HUDSON-FULTON CELEBRATION COMMISSION FUND.. 1,000 00

INVESTMENT FUND:

Purchase of Bonds..... 1,252,405 62

INTEREST ON CREDIT BALANCES:

Earnings to December 31, 1909..... 3,688 62

Cash on hand December 31, 1909..... 12,813 91

\$1,328,572 72

CHARLES LANIER, *Treasurer*

[E. & O. E.]

NEW YORK, *December 31, 1909*

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\*In this account are carried all moneys given to the Museum for specific purposes and not intended for the endowment.

# LIST OF ACCESSIONS, 1909

## DEPARTMENT OF PUBLIC INSTRUCTION

### BY GIFT

- C. E. AKELEY, Chicago, Ill.  
4 Photographs of African Elephants in the Field Museum of Natural History, mounted by Mr. C. E. Akeley.
- CONGO MUSEUM, Tervueren, Belgium.  
9 Photographs of the Congo Exhibit.
- PHILIP HINKLE, Cincinnati, Ohio.  
1 Photograph of the Serpent Mound.
- HUDSON-FULTON COMMITTEE, New York City.  
Slides, Shield and Flags.
- MRS. MARY E. LOUD, New York City.  
1 Mounted Mocking Bird.
- G. FREDERICK NORTON, New York City.  
7 Transparencies of Whaling Scenes in Hawk Harbor, Labrador.
- WELLINGTON MUSEUM, Wellington, New Zealand.  
14 Photographs of Maori Busts in course of preparation by the Wellington Museum.

### BY EXCHANGE

- CHARLES BESELER & COMPANY, New York City.  
52 Photographs of Hudson-Fulton Celebration.
- MATTHEW HENSON, of the Peary Arctic Expedition.  
110 Photographs and 58 Slides from Negatives made on the Peary Arctic Expedition of 1908.
- DONALD B. McMILLAN, Worcester, Mass.  
14 Slides from Negatives made on the Peary Arctic Expedition of 1908.
- GEORGE A. WARDWELL, of the Peary Arctic Expedition.  
101 Photographs and 58 Slides from Negatives made on the Peary Arctic Expedition of 1908.
- MESSRS. LOUIS WEISS and HERMANN SCHMIDT, Brooklyn, N. Y.  
375 Photographs and 57 Slides from Negatives of the Rio Negro region of South America.

### BY PURCHASE

- FREDERICK L. STARR, Chicago, Ill.  
52 Photographic Enlargements of Ethnological Types from the Belgian Colony of the Congo.



LOAN

LIEUTENANT GEORGE T. EMMONS, Washington, D. C.

348 Negatives of Alaska and British Columbia from which the Department made prints for its files.

THROUGH MUSEUM EXPEDITIONS

55 Negatives of Cape Fullerton and Repulse Bay regions, made by Capt. George Comer in winters of 1907, 1908 and 1909.

302 Negatives, 28 Slides and 11 Photographs of Alaska and British Columbia, made by Messrs. Harlan I. Smith and W. S. Taylor.

DEPARTMENT OF GEOLOGY AND INVERTEBRATE  
PALÆONTOLOGY

GEOLOGY

BY GIFT

MISS M. P. BARTLETT, East Windsor, Conn.

20 Clay Dogs from the Scantic River, East Windsor, Conn.

BUREAU OF SCIENCE, Manila, P. I.

A series of minerals and ores from various provinces in the Philippines.

CALUMET AND HECLA MINES CO., Calumet, Mich.

50 Specimens of ores.

DR. J. MORGAN CLEMENTS, New York City.

28 Specimens of ores and minerals from Colorado, Arizona, Arkansas, and Sonora, Mexico.

DELAWARE, LACKAWANNA & WESTERN COAL CO., Scranton, Pa.

Large fossilized stump from anthracite coal mine under Scranton, Pa.

E. C. EASTON, Gouverneur, N. Y.

1 Piece foliated Talc, 18" x 8".

1 Piece fibrous Talc, 13 inches long.

2 Small fragments of fibrous Talc.

2 Small fragments of Tremolite.

ESTATE OF JAMES D. HAGUE, New York City.

5 Tubes of copper concentrates.

1 Tube of waste slime from the Franklin Mine, Houghton, Mich.

THE MOND NICKEL CO., LTD., Victoria Mines, Ontario.

3 Specimens of wall rock.

2 Specimens of Pyrrhotite and Chalcopyrite.

1 Specimen of converter slag.

1 Specimen of converter matte.

1 Specimen of blast furnace matte.

1 Specimen of Pyrrhotite carrying Nickel.

4 Pounds of blast furnace slag (granulated).

NORTH STAR MINES CO., Grass Valley, Calif.

40-pound section of vein of the North Star Mine and a 2-ounce specimen of vein carrying free gold.

L. D. RICKETTS, Cananea, Sonora, Mex.

1 Specimen Sphalerite.

STANDARD PLUNGER ELEVATOR CO., New York City.

9 Drill-core specimens.

BY EXCHANGE

OTTO F. PFORDTE, Rutherford, N. J.

8 Specimens of Zincite, Franklinite, etc., from Ogdensburg, N. J.

7 Specimens of Willemite, Franklinite, Garnet and Chalcophanite  
from Franklin and Ogdensburg, N. J.

BY PURCHASE

1 Slab of Limestone containing Orthoceratites.

1 *Haploscapa* shell, four feet high.

"Modoc" Stone Meteorite, 20 lbs., 3 oz., Scott Co., Kan.

"Guffey" Iron Meteorite, 682 pounds, Fremont Co., near Guffey, Col.

1 *Uintacrinus* slab containing 68 bodies.

"Brenham" Meteorite, second largest fragment in existence of  
siderolite form, Kiowa Co., Kan.

THROUGH MUSEUM EXPEDITIONS

100 Specimens of iron ore, copper and associated rocks from Marquette, Ishpeming and Houghton, Mich. Collected by Dr. E. O. Hovey.

12 Specimens of Hematite, Country Rock and Jaspilite from Oliver Mine, Ishpeming, Mich. Collected by Dr. E. O. Hovey.

2 Blocks of Limestone 8' x 10' and 4' x 4' respectively, showing glacial grooves and fossils, from Kelley's Island, Ohio. Collected by Dr. E. O. Hovey. Fund supplied by Dr. C. E. Slocum, Defiance, Ohio.

INVERTEBRATE PALÆONTOLOGY

BY GIFT

BARNUM BROWN, New York City.

30 Laramie Cretaceous fossils from 40 miles east of Glasgow, Mont.

ESTATE OF DR. JAMES W. HALL.

10 Sections of corals.

EDWARD H. HOPPENSTEDT, New York City.

1 Slab of worm burrows from Wurtsboro, Sullivan Co., N. Y.

E. H. PASCOE, Geological Survey of India.

Large series of fossil *Cyrena* shells.

GEORGE A. WARDWELL, of the Peary Arctic Expedition.

50 Carboniferous fossils from Lat. 82° 27' north of Greenland.

CHRISTIAN WEBER, Jersey City, N. J.

51 Fossil Plants from the Dakota Group, Fort Harker, Kan.

21 Coal Measure Plants from Scranton, Pa.

1 Geode, Warsaw limestone, Illinois.

8 Sand concretions, Stillwater, N. Y.

BY PURCHASE

62 Lamellibranchs, 8 Ammonites, 150 Gastropods, 10 Echinoderms,  
from Mount Lebanon, Syria.

DEPARTMENT OF MAMMALOGY AND  
ORNITHOLOGY

MAMMALS

BY GIFT

DANIEL BEARD, Flushing, N. Y.

4 Small mammal skins.

DR. LUCIUS C. BUCKLEY, Bangkok, Siam.

4 Small mammals from Siam.

R. R. CARROLL, New York City.

1 Young Greenland Seal, 1 mounted head of Newfoundland Caribou.

CAPT. B. D. CLEVELAND, New Bedford, Mass.

Jaw of Sperm Whale.

R. COLLINS, through Hon. J. H. Rogers, U. S. Consular Agent, Towns-  
ville, Queensland.

Deformed leg of Cow.

Mrs. CORNELL, New York City.

Caribou head and mounted Seal.

DEPARTMENT OF PARKS, New York City.

36 Monkeys, 1 Ocelot, 2 young Leopards, 1 Lion Cub, 1 Gray Fox,

1 Coatimondi, 1 Grizzly Bear, 1 Brown Bear, 1 Cinnamon Bear,

2 Fallow Deer, 2 Axis Deer, 1 Brazilian Sheep, 1 Llama, 1

Camel, 2 Aoudads, 4 Nilghaus, 1 Porcupine, 5 Opossums.

Total, 64 specimens received in the flesh from the Central Park  
Menagerie.

J. DIXON, Stanford University, Calif.

Topotypes of *Reithrodontomys raviventris* and *R. halicoetis*.

G. DWIGHT FRANKLIN, New York City.

1 Coney, 2 Rabbits.

L. GIBSON, Schenectady, N. Y.

1 Eskimo Dog.

WALTER GRANGER, New York City.

3 Skulls of Pronghorn.

ARTHUR HEINRICH, Baldwin, N. Y.

2 Rabbits.

Mrs. R. HURD, Gloucester, Mass.

1 Iceland Fox, mounted.

GNEOMAR VON KROCKOW, New York City.

1 Pair of Chamois horns, 4 pairs of Roebuck horns, 1 pair of Ariel Antelope horns, 1 skull of European Hare with malformed incisors.

E. HUBERT LITCHFIELD, B. DOMINICK, Jr., and H. SAMPSON, Jr.,  
New York City.

3 Grant Gazelles, 1 Thompson Gazelle, 1 Coke Hartebeest, 1 Neumann Hartebeest, 1 foetal Rhinoceros, skull and cervical vertebrae of Giraffe, 1 Mongoose, 1 Hyæna, from British East Africa.

CHARLES S. MEAD, Suffolk, Conn.

3 Shrews.

NEW YORK ZOÖLOGICAL SOCIETY, New York City.

1 Pair shed antlers.

Photographs of Wapiti.

G. FREDERICK NORTON, New York City.

Whale transparencies.

PEARY ARCTIC CLUB, New York City.

1 Polar Bear skull, 10 Walrus skulls, 10 Narwhal tusks, 50 Musk-oxen (skins with skulls and leg bones), 65 Caribou (skins with skulls and leg bones), about 100 Lemmings (in spirits), 1 Ermine, 5 Walrus foetuses, 1 Seal foetus, 1 Narwhal foetus, 2 Caribou foetuses,—in all, about 250 specimens.

JOHN B. TREVOR, New York City.

Mounted head of Lapland Reindeer.

W. T. VAN RENNELAER, Salt Point, N. Y.

2 Wild European Hares, 1 black Woodchuck, from Dutchess County, N. Y.

COL. A. E. WARD, Kashmir, N. India.

20 Small mammals from Kashmir.

FRANK WOOD, New Bedford, Mass.

Complete Whaling Outfit.

#### BY PURCHASE

2 Specimens of *Ursus kermodei*; 19 specimens of Wolves, Lynxes and Bears from Minnesota; skeletons of Blackfish and Dolphin from New Zealand; 33 small mammals from Palawan Island P. I.; 38 small mammals from the Island of Trinidad, B. W. I.; 177 specimens from Nicaragua; 28 specimens from Hudson Bay.

#### THROUGH MUSEUM EXPEDITION

1 Harbor Seal, 3 skeletons and 6 skulls of the White Whale, 1 Raccoon.

## BIRDS

## BY GIFT

- Mrs. H. M. BILLINGS, New York City.  
Birds' nests.
- Mrs. J. B. BLOOMINGDALE, New York City.  
1 Bittern (mounted).
- EDGAR BURKE, Morristown, N. J.  
1 Least Sandpiper.
- ROBERT E. CLARKE, Yonkers, N. Y.  
1 Reeve's Pheasant.
- R. B. CONSTANTINE, South Orange, N. J.  
4 Red Jungle Fowls.
- HOMER DAVENPORT, Morris Plains, N. J.  
1 Crowned Crane.
- DEPARTMENT OF PARKS, New York City.  
24 Swans, 1 Duck, 1 Peacock, 5 Pheasants, 1 Crane, 5 Eagles, 4  
Hawks, 2 Owls, 10 Parrots, 1 Crow.—Total, 54 specimens  
received in the flesh from the Central Park Menagerie.
- DR. JONATHAN DWIGHT, Jr., New York City.  
12 Bird skins.
- DR. P. JAMES FAGAN, New York City.  
1 Canadian Warbler.
- DR. A. K. FISHER, Washington, D. C.  
2 Evening Grosbeaks (skins).
- G. CLYDE FISHER, DeFuniak Springs, Fla.  
8 Skins from Florida.
- G. DWIGHT FRANKLIN, New York City.  
1 Barn Swallow.
- O. S. GRINNELL, New York City.  
1 Canada Goose.
- HENRY HALE, Ridgewood, N. J.  
Cast of Great Auk's egg.
- FRANCIS HARPER, College Point, N. Y.  
1 Laughing Gull, 1 Yellow-billed Cuckoo.
- ARTHUR HEINRICH, Baldwin, N. Y.  
1 Red-breasted Merganser.
- ADAM HERMANN, New York City.  
8 Skins from Patagonia.
- DR. JOHN HORNUNG, Ventura, Calif.  
25 Beautifully prepared skulls.
- DR. JOHN HOWLAND, New York City.  
40 Mounted birds, mostly of large size.
- D. M. HYMAN, New York City.  
3 Mounted Ring-necked Pheasants.
- DR. D. T. KENNEDY, Southampton, N. Y.  
1 Hooded Merganser.

- EDWIN C. KENT, New York City.  
1 Blue Goose.
- EDWARD LANE, New York City.  
1 Long-eared Owl.
- ROBERT B. LAWRENCE, New York City.  
1 Northern Phalarope.
- G. E. LODGE, London, England.  
8 Skins of Red Grouse and Partridge.
- Miss NINA MARSHALL, New York City.  
1 Weaver Bird.
- W. DEW. MILLER, Plainfield, N. J.  
2 Bufflehead Ducks, 1 Short-eared Owl.  
2 Small birds.
- HON. MASON MITCHELL, Apia, Samoa.  
2 Tooth-billed Pigeons, 3 Fruit Pigeons and 1 Gallinule.
- NEW YORK FOREST, FISH AND GAME COMMISSION, Albany, N. Y.  
2 Ptarmigans, 1 Black Grouse, 2 Golden Plovers, 2 Sandpipers, 2  
Woodcocks.—Total, 9 specimens received in the flesh.
- NEW YORK ZOÖLOGICAL SOCIETY, New York City.  
1 Ostrich, 1 Rhea, 1 Ocellated Turkey.
- O'NEILL-ADAMS COMPANY, New York City.  
1 Mounted Snowy Owl.
- ADAM A. PELHAM, Palenville, N. Y.  
Nest and two eggs of Ovenbird.
- HARRY C. RAVEN, Bay Shore, N. Y.  
2 Ducks and 1 Bittern.
- Mrs. AGNES ROESLER, New York City.  
1 Red-shouldered Hawk.
- DR. L. C. SANFORD, New Haven, Conn.  
4 Ducks, 1 Red-throated Loon, 11 skins including a Yellow Rail.
- Miss MARY J. SMITH, New York City.  
6 Parrot eggs.
- J. O. SNYDER, Palo Alto, Calif.  
7 Skins of small birds.
- FREDERIC W. STACK, New Rochelle, N. Y.  
57 Skins of North American birds.
- ARTHUR SUSSMAN, Long Branch, N. J.  
1 Swan, shot at Manahawkin Bay, N. J.
- HON. JOHN E. THAYER, Lancaster, Mass.  
A series of eggs of Heermann's Gull.
- DR. E. LEROY THOMPSON, Nantucket, Mass.  
Wings, feet and head of a Blue Goose.
- E. WALDSTEIN, New York City.  
1 Parrot.
- REV. M. P. WELCHER, Norwalk, Conn.  
10 Nests and several eggs.

BY EXCHANGE

167 Specimens from Japan ; 16 small birds from Lower California ;  
10 small birds from Costa Rica ; 4 large birds from Nebraska ;  
1 Great Horned Owl from New York.

BY PURCHASE

595 Specimens from Nicaragua ; 103 (mostly large) specimens from  
Palawan, P. I. ; 31 Penguins ; 2 Jabirus ; 7 specimens from  
Siam ; 2 Golden Eagles ; 13 eggs of Albatross and Fulmar.

THROUGH LOCAL COLLECTING

358 Specimens, mostly from Long Island, N. Y.

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY

BY GIFT

N. H. BROWN, Lander, Wyo.

Skull of *Amynodon* and skull of a *Titanotheres* found by the donor in  
Tertiary formations near Lander.

AMORY COFFIN, S. Orange, N. J.

2 Teeth of *Mastodon* from Eddystone Island, S. C.

KARL HAGENBECK, Stellingen-bei-Hamburg, Germany.

Statuette models of *Bos primigenius*, *Iguanodon*, *Diplodocus*, *Glypto-*  
*don*, *Parciasaurus* and *Triceratops*.

CHARLES LANIER, New York City.

Skull of the Horned Dinosaur *Triceratops*, with the horns excep-  
tionally perfect and of record size, found by George Sternberg  
in the Cretaceous of Wyoming.

BY EXCHANGE

BRITISH MUSEUM, London, England.

Cast of type skull of *Hyracotherium*.

PALÆONTOLOGICAL MUSEUM, Munich, Germany.

Complete skeleton of *Pterodactylus* from the lithographic limestones  
of Bavaria.

DARMSTADT MUSEUM, Germany.

Cast of skeleton of *Halitherium* from the Oligocene of Germany.

UNIVERSITY OF CALIFORNIA, Berkeley, Calif.

Skull and jaws of the Sabre-Tooth Tiger from the asphalt deposits  
near Los Angeles, Calif.

BY PURCHASE

INCOME FROM MORRIS K. JESUP BEQUEST.

Mummied skeleton of the Duck-Billed Dinosaur *Trachodon* from the  
Upper Cretaceous of Wyoming.

Skull, with complete horns, of the Long-Horned Bison, and lower  
jaws of the Imperial Mammoth, from the Pleistocene of Kansas.



- Skull of the Marine Reptiles *Clidastes* and *Toxochelys* from the Marine Cretaceous of Kansas.
- Skull of the extinct Beaver *Steneofiber* from the Miocene of Nebraska.
- Skull and associated bones of *Moropus* from the Miocene of Nebraska.
- Skull of *Mastodon* from the Pleistocene of Indiana.
- 2 Partial skeletons of *Pteranodon* from the Cretaceous of Kansas.
- 2 Carapaces of gigantic extinct Tortoises from the Miocene of Kansas.
- Model of skull and jaws of *Prozeuglodon* of the Fayûm, Egypt.
- Model of skull and jaws of *Megaladapis*, the giant extinct Lemur of Madagascar.

## THROUGH MUSEUM EXPEDITIONS

## CRETACEOUS OF MONTANA.

- Skeleton of a Horned Dinosaur, probably new; skeleton of a small undescribed Dinosaur and of another specimen probably of the same genus, also skeleton of *Champsosaurus*, all from the Hell Creek Beds of central Montana. Collected by Messrs. Brown and Kaison.

## TERTIARY OF WYOMING.

- Collection of fossil mammals from the Wind River formation, containing several new species and genera and better specimens of most of the known Wind River mammals; also a number of specimens of fossil mammals from Upper Eocene and Lower Oligocene formations near Lander, Wyo. Collected by Messrs. Granger, Olsen and Stein.

## TERTIARY OF EGYPT.

- Collection of fossil mammals from the Fluvio-marine formation of the Fayûm district, obtained by Mr. R. Markgraf.

DEPARTMENT OF ICHTHYOLOGY AND  
HERPETOLOGY

## BY GIFT

## CLEVELAND H. DODGE FUND.

- 7 Fossil fishes from various localities selected from the collection of Dr. F. Krantz, Bonn, Germany.
- 1 *Semionotus capensis*, South Africa.
- 10 Teeth of *Ptychodus mortonii*, Kansas.
- 3 Fossil fishes from the Green River shales, Wyoming, as follows:  
1 *Lepidosteus simplex* (the best specimen recorded of this rare form), 1 *Dasyatis radians*, 1 *Priscacara pealei*.
- 70 Species of fishes collected at Naples by Dr. Louis Hussakof.
- 15 Species of fishes collected in Denmark by Mr. John T. Nichols.
- 18 Species of fishes collected on Long Island by Mr. John T. Nichols.
- 4 Mounted fishes.
- 4 Fishes for the study collection.

DEPARTMENT OF ANTHROPOLOGY.

12 Species of fishes, collected near Fort Wrangle, Alaska, by Mr. Harlan I. Smith.

OTTO FALKENBACH, New York City.

1 *Fistularia* and 1 *Chilomycterus*.

DR. LOUIS HUSSAKOF, New York City.

5 *Coccosteus minor*, 1 *Palæospondylus gunni*.

Collection of approximately 200 individuals representing about 20 species, collected at Beaufort, N. C.

MRS. AMY KNIPE, Charleston, S. C.

1 Tooth of *Carcharodon megalodon*.

DR. A. KRAUSSE, Asuni, Sardinia, Italy.

2 Fishes collected in Sardinia.

DR. THEODORE LENS, Military Hospital, Curaçao.

6 Fishes from Curaçao.

PROF. C. F. W. McCLURE, Princeton, N. J.

4 Great Sea Lampreys.

NEW YORK AQUARIUM, New York City.

1 Sand Shark (local).

Collection of fishes (about 100 specimens) mainly from Bermuda.

PEARY EXPEDITION OF 1908.

6 Trout.

FRANK SEELEY, S.S. "Yumuri."

18 Species of fishes from the Gulf of Mexico.

F. S. SWEET, New York City.

1 *Mallotus villosus*.

BY EXCHANGE

AMHERST COLLEGE, Department of Biology.

1 *Ichthyodectes hammatus*.

HANCOCK MUSEUM, Newcastle-on-Tyne, England.

25 Specimens from the coal measures of Northumberland, as follows:

2 *Acanthodopsis wardi*, 7 *Megalichthys hibberti*, 2 *Strepsodus sauroides*, 10 *Ctenodus* and 4 *Gyracanthus tuberculatus*. (These are from the well-known collection of Messrs. Hancock and Atthey.)

NATAL GOVERNMENT MUSEUM, Pietermaritzburg, Natal.

1 South African Sawfish (having six gills), *Pliotrema warreni*.

NEW SOUTH WALES FISHERIES DEPARTMENT, Sydney, Australia.

Several *Hyperlophus spratellides*.

ON DEPOSIT

COLUMBIA UNIVERSITY, New York City, through Department of Zoölogy.

250 Fishes, representing 60 species, from various localities.

## REPTILES AND BATRACHIANS

BY GIFT

## CLEVELAND H. DODGE FUND.

Collection of Amphibians (50 specimens) for use in preparing habitat groups.

1 Galapagos Turtle.

## LEE F. BARNUM, Brooklyn, N. Y.

Various Reptiles and Batrachians.

## CENTRAL PARK MENAGERIE, New York City.

1 Rock Python.

## C. F. CLARKE, Havana, Cuba.

1 Lizard.

## COLUMBIA UNIVERSITY, New York City.

10 Amphibians, mainly African.

## HARRY A. DAVIS, S.S. "Kilpatrick."

1 Banded Sea-snake (*Platurus laticaudatus*) from Manila, P. I.

## WILLIAM T. DAVIS, Staten Island, N. Y.

2 Gray Tree-frogs (*Hyla versicolor*).

## DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY.

1 Skin and skull of Crocodile.

6 Snakes from Formosa.

Several Lizard skins from the Philippine Islands.

## DR. T. B. ENDERS, New York City.

2 Snakes and several reptile eggs.

## H. C. FULMER, Stevenson, Ala.

1 Lot of Batrachians.

## A. HERMANN, New York City.

30 Lizards from various localities.

## DR. A. KRAUSSE, Asuni, Sardinia, Italy.

10 Reptiles from Sardinia.

5 Amphibians from Sardinia.

## GNEOMAR VON KROCKOW, Brooklyn, N. Y.

1 Lot of Batrachians and Reptiles.

## DR. THEODORE LENS, Military Hospital, Curaçao.

1 Lot of Lizards.

## NEW YORK AQUARIUM, New York City.

3 Turtles and 3 Crocodiles.

## LORING OLMSTED, City of Mexico.

About 20 Snakes from Mexico.

## DR. ALEXANDER PETRUNKEVITCH, Montclair, N. J.

1 Specimen *Cacilian* from Mexico.

## LOUIS RÜHE, New York City.

4 European Tree-frogs (*Hyla arborea*).

## MRS. N. A. SHAW, New York City.

1 Snake.

ALANSON SKINNER, Staten Island, N. Y.

1 Turtle.

DR. ANTHONY WOODWARD, New York City.

1 Snake (*Heterodon platyrhinos*).

CHARLES WUNDER, Dundee Lake, N. J.

1 Snake (*Heterodon platyrhinos*).

BY PURCHASE

1 Bullfrog (*Rana catesbiana*) from Canada.

THROUGH MUSEUM EXPEDITIONS

1 Lot of Reptiles and Batrachians from Ashokan Watershed, N. Y.  
Collected by Prof. Aaron L. Treadwell and Mr. Gneomar von Krockow.

1 Lot of Reptiles and Amphibians from Mexico. Collected by Dr. Alexander Petrunkevitch.

DEPARTMENT OF ANTHROPOLOGY

BY GIFT

H. E. BARD, New York City.

Ethnological collection from the Philippine Islands.

MRS. J. B. BLOOMINGDALE, New York City.

Pottery vessel from prehistoric grave at Chepu, Peru; Lapp needle-case from Norway.

GEORGE S. BOWDOIN, New York City.

Basket from South Pacific Islands; feather cape from the Hawaiian Islands.

SAMUEL MORRIS CONANT, Pawtucket, R. I.

Stone arrow point from Thonotosassa, Fla.

KENNETH LEE COONTZ, New York City.

Large grooved stone maul found at Yankton, S. D.

J. L. DAVIDSON, Lockport, N. Y.

Skull and human bones from Indian burial place near Lockport, N. Y.

LIEUTENANT G. T. EMMONS, Princeton, N. J.

Rattle from the Chilcotin of British Columbia.

FLINT & COMPANY, New York City.

Saddle and bridle from Morocco.

MRS. EDNA HILLYER FORD, Wautun, Wis.

11 Photographs of Indians of different tribes.

ROBERT F. GILDER, Omaha, Neb.

Parts of three skulls and two pieces of long bones (human) from the George West Farm Mound near Omaha, Nebraska; 4 pieces of skull and 2 scrapers.

GEORGE BIRD GRINNELL, New York City.

12 Indian saddles; 3 back rests; a stone anvil.

- BENOIT GUERRY, North Conway, N. H.  
Stone ax, North Conway, N. H.
- WILLIAM HAGUE, New York City.  
Contents of an ancient Indian cache in Laurium, Mich.
- EDWARD HAGAMAN HALL, New York City.  
Skeleton of dog (nearly complete) and 6 potsherds from Manhattan Island.
- FRITZ V. HOLM, New York City.  
Set of rubbings of inscription on the Nestorian Tablet in Sian-fu, Shen-si, China.
- DR. U. S. KAHN, New York City.  
Head-dress from Abyssinia.
- CARLOS LARRABURC, Lima, Peru.  
Head-dress of Indians on Rio Ucayali, Peru.
- DR. CARL LUMHOLTZ, New York City.  
Girdle woven by the Mayo Indians, State of Sinaloa, Mexico.
- HON. MASON MITCHELL, Apia, Samoa.  
2 Tibetan scrolls; collection of ancient and modern objects from Tibet and China.
- WILLIAM C. MUSCHENHEIM, New York City.  
Contents of an ancient Indian shell pit, Spuyten Duyvil, New York City.
- DR. FRANCIS C. NICHOLAS, New York City.  
3 Gold nose ornaments (prehistoric) from Yaruman, Colombia.
- GEORGE OLSEN, New York City.  
Fragments of a steatite pot, Wyoming.
- MRS. DAVID PEACOCK, New York City.  
Bow and arrow from South America; carved stick (totem) from Sitka, Alaska.
- PEARY ARCTIC CLUB, New York City.  
Dog sled, snow shoes, cooking apparatus, etc.
- CHARLES PERCY, S.S. "Roosevelt."  
Whalebone dish, Eskimo.
- CHARLES W. PINCKNEY, New York City.  
Catlinite pipe from Yankton, S. D.
- M. F. SAVAGE, New York City.  
6 Steel engravings showing old time customs in Fiji Islands.
- ALANSON SKINNER, Staten Island, N. Y.  
Ojibway cup-and-ball game made of moose bones, from Missanabie, Ontario, Canada; Seneca-Iroquois costume from Cattaraugus Reservation, New York; collections of archæological specimens from Runyon, Middlesex Co., N. J.; 2 silver bracelets of Ojibway Indians; stone celt from South River, N. J.; archæological collection from Staten Island.
- MRS. F. W. SKINNER, Staten Island, N. Y.  
Basket of birch bark, Ojibway; flower cut from birch bark, Ojibway.

- MRS. E. SUTTON SMITH.  
2 Stone axes from Maine; grape shot dug from Bunker Hill; circular stone dug from Copp's Hill.
- HARLAN I. SMITH, New York City.  
Pair Chinese slippers.
- JOHN I. SOLOMON, New York City.  
Ornament carved in ivory. Supposed to be an old piece of Singalese carving.
- THE LATE HARRIE HAYDON STARKEY, Brooklyn, N. Y.  
Ethnological collection from Alaska.
- NORTON B. TILLOTSON, New York City.  
Buffalo-horn spoon and wooden bowl from grave near the Black Hills.
- DR. W. W. TOMPKINS, Charleston, W. Va.  
Grooved stone ax from vicinity of Charleston, W. Va.
- CHRISTIAN WEBER, Jersey City, N. J.  
7 Pottery vessels from Arkansas.
- W. A. WELCH, San Antonio, Amazonas, Brazil.  
Jointed arrow for fish from Indians of Rio Beni; paddle from Indians of Rio Beni; paddle from Indians of Madre de Dios; pair rubber shoes and rubber ball from Indians of Upper Madeira, Brazil; 2 gourd baskets from Sarterem on Amazon, Province of Para.
- MESSRS. G. L. and F. N. WILSON, Minneapolis, Minn.  
Potsherds from Mandan village site, North Dakota.
- MRS. CLARK WISSLER, New York City.  
Stone celt from Wayne Co., Indiana; gold pendant—human figure with nose ornament and 23 green stone ornaments and beads, from Llanos of Casanari, Colombia.
- S. H. WOLF, New York City.  
3 Pieces of pottery from Ruins of Jalapa, Mexico.
- FRANK WOOD, New Bedford, Mass.  
Shell breast plate from New Mecklenburg.

## BY EXCHANGE

- BERLIN MUSEUM, Berlin, Germany.  
21 Casts from stone yokes and palmas, Mexico.
- CHICAGO ACADEMY OF SCIENCE, Chicago, Ill.  
19 Ethnological specimens from Africa, Abyssinia, Alaska and the United States.
- DR. PAUL EHRENREICH, Berlin, Germany.  
12 Photographs of Indians of the Rio Purus, Amazonas, Brazil.
- L. A. FUERTES, Ithaca, N. Y.  
Seal float from the vicinity of Fort Simpson.

- FRANK S. GORDON, Blairstown, N. J.  
32 Copper bells (prehistoric) from Jalisco, Mexico.
- BYRON E. HOOVER, New York City.  
Basket from the Yahgan Indians, Tierra del Fuego.
- W. K. MOOREHEAD, Andover, Mass.  
Archæological material from Jacobs Cavern and village site, McDonald Co., Mo.
- NEW YORK STATE MUSEUM, Albany, N. Y.  
Archæological material from an Erie Indian village site at Ripley, N. Y.  
Collection of Iroquois archæology from New York and New Jersey.
- MRS. A. L. ROESLER, New York City.  
Baby carrier with quill and bead work from the Dakota, Pine Ridge, S. D.
- ROYAL ETHNOGRAPHICAL MUSEUM, Stockholm, Sweden.  
Collection of baskets from Africa.
- E. THOMPSON SETON, Cos Cob, Conn.  
War shirt from the Ogallala Sioux and moose-hide shirt made by Cree Indians.
- STÄDTISCHES VÖLKERMUSEUM, Frankfurt a/M., Germany.  
Ethnographical material from German Colonies in Africa.
- GEORGE C. STONE, New York City.  
Chinese gun.

#### THROUGH MUSEUM EXPEDITIONS

- Ethnological collection from the Jicarilla Apache of northern New Mexico. Collected by Dr. P. E. Goddard. Provided for by Mr. Archer M. Huntington.
- Ethnological and archæological collection from the Penobscot Indians, Old Town, Me. Collected by Mr. William C. Orchard.
- Ethnological collection from the Cree and Ojibway of the region of Hudson and James Bays and from the Winnebago of Black River Falls, Wis. Collected by Mr. Alanson Skinner. Provided for by the Morris K. Jesup Fund.
- Archæological and ethnological specimens from British Columbia and Alaska. Collected by Mr. Harlan I. Smith. Provided for by the Morris K. Jesup Fund.
- Ethnological collection from the Philippine Islands. Collected by Dr. Hugh M. Smith.
- Ethnological collection from the Mackenzie River region. Collected by Mr. V. Stefánsson.
- Ethnological collection from the Teton Sioux of the Pine Ridge Reservation, South Dakota, and phonograph records from the same. Collected by Dr. J. R. Walker. Provided for by the Morris K. Jesup Fund.
- Ethnological collection from the Hidatsa and Mandan of North Dakota. Collected by Rev. Gilbert L. Wilson.



DEPARTMENT OF MINERALOGY

BY GIFT

THE MATILDA W. BRUCE FUND.

55 Specimens of minerals, including Antimony, Apatite, Argyrodite, Arsenolite, Benitoite, Beryl, Bakerite, Bismuth, Bismutite, Brochantite, Cassiterite, Cerargyrite, Childrenite, Corundum, Cuprite, Diopside, Dioptase, Graftonite, Hematite, Hexagonite, Iodyrite, Kröhnkite, Malachite, Mullerine, Neptunite, Opal, Orthoclase, Patronite, Phenacite, Phlogopite, Pyrite, Siderite, Silver, Semseyite, Spodumene, Stibiotantalite, Talc, Titanolite, Topaz, Tremolite, Valleriite, Wollastonite, Wurtzite.

W. BOLES BALDWIN, New York City.

11 Specimens of Opal from Mexico.

CLARENCE S. BEMENT, Philadelphia, Pa.

A beautiful group of radiating Tourmaline from Haddam Neck, Conn.

H. BOOTH, Poughkeepsie, N. Y.

1 Crystal of Chondrodite, Tilly Foster, Putnam County, N. Y.

W. H. BRADLEY, C. E., New York City.

One round section (core) taken at 268-foot level below curb, of gneissoid granite, Astoria, L. I.

One round section (core) taken at 2,000-foot level below curb, of gneissoid granite, Astoria, L. I.

W. A. BUCKNER, Arkansas.

3 Specimens of Peridotite from the Ozark Diamond Mining Company's land, on the edge of the diamond-bearing Arkansas Diamond Mining Company's land.

1 Specimen of Obsidian, Magnet Cove, Ark.

1 Specimen of Lodestone from Magnet Cove, Ark.

H. CLEARY, C. E., New York City.

Peat specimen from "peat-bog," Centre Street, New York City.

ALBERT S. COFFIN, C. E., New York City.

Section of drill-core in garnetiferous gneiss, 150 feet below curb, at Eighty-seventh Street and Broadway.

JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J.

1 Specimen pure lump Graphite from Ceylon.

1 Specimen flake Graphite with quartz, Ticonderoga, N. Y.

1 Specimen scale gneissoid Graphite, Ticonderoga, N. Y.

1 Bottle of lump Graphite, Ceylon, India.

WALTER GRANGER, New York City.

1 Specimen of Gypsum from Wind River Formation, Lost Cabin, Wyo.

ALFRED C. HAWKINS, Sewaren, N. J.

1 Specimen of cubical Pyrite in Triassic shales, Piscataway, N. J.

- J. F. HEMENWAY, New York City.  
 Octahedral Sphalerite, "Lucky Inn" Mine, Slocan District, near  
 Raslo, B.C.
- CHARLES HOFFSTETTER, Jersey City, N. J.  
 1 Specimen of Septaria; limonite sheathing on crust, Elk Prairie  
 Jefferson Co., Ill.
- ROBERT A. A. JOHNSTON, for Canadian Geological Survey.  
 1 Specimen of Baddeckite from Baddeck, N. S.
- A. L. LACK, New York City.  
 Tourmaline from 181st Street and Lafayette Avenue, New York  
 City.
- A. H. PETEREIT, New York City.  
 1 Specimen of Calcio-Volborthite from Telluride, Col.
- DAVID PROSKEY, Nevada.  
 600 Minute crystals of Gold from ore at Rawhide, Nev.
- T. SAUNDERS, New York City.  
 1 Specimen of Coccolite (pyroxene), Weaverstown, Warren Co.  
 N. Y.
- R. B. SPENCE, Elmira, N. Y.  
 3 Specimens of crystallized Silver in reticulated octahedrons from  
 Nipissing, Ontario, Canada.
- MRS. JAMES SULLIVAN, New York City.  
 Specimens of various minerals, including Aragonite, Calcite, Natro  
 lite.
- OLIVER TIMS, New York City.  
 1 Specimen of Tourmaline-bearing Rock, Maine.  
 1 Specimen of Slate, Greenwood Lake, N. J.
- BERNARD ZIGRELIUS, New York City.  
 30 Fragments of Agate, 7 specimens of Copper, 2 specimens of  
 Chlorastrolite, 2 specimens of Thomsonite, from Lake Superior  
 Michigan.  
 Limestone holding Galena from Isle Royale, Lake Superior.

## BY EXCHANGE

- ROBERT B. GAGE, New Jersey State Survey.  
 1 Specimen of Emplectite from Cobalt, Ontario, Canada.  
 3 Specimens of Hydrocuprite from Somerville, N. J.
- ALFRED C. HAWKINS, Sewaren, N. J.  
 1 Specimen of Chrysoberyl from 122d Street and Morningside Park  
 New York City.
- H. S. PECK, Albany, N. Y.  
 1 Specimen of Barite (with Psilomelane) from McCormick, S. C.  
 1 Specimen of Psilomelane from McCormick, S. C.  
 1 Specimen of Psilomelane (replacing Asbestos) from McCormick, S. C.  
 1 Specimen of Siderite (with Barite) from Frostburg, Md.

OTTO F. PFORDTE, Rutherford, N. J.

- 1 Specimen of Breithauptite from Cobalt, Ontario, Canada.
- 1 Specimen of Chalcocite from Franklin Furnace, N. J.
- 1 Specimen of Datolite from W. Paterson, N. J.
- 1 Specimen of Fluorite from Franklin Furnace, N. J.
- 1 Specimen of Heulandite from W. Paterson, N. J.
- 1 Specimen of Galena from Franklin Furnace, N. J.
- 1 Specimen of Galena from Stirling Hill, N. J.
- 1 Specimen of Erythrite from Cobalt, Ontario, Canada.
- 1 Specimen of Franklinite from Franklin Furnace, N. J.
- 1 Specimen of Niccolite from Cobalt, Ontario, Canada.
- 1 Specimen of Pectolite from W. Paterson, N. J.
- 1 Specimen of Phlogopite from Franklin Furnace, N. J.
- 1 Specimen of Smaltite from Cobalt, Ontario, Canada.
- 1 Specimen of Stilbite from W. Paterson, N. J.
- 2 Specimens of Black Willemite from Franklin Furnace, N. J.

MILTON G. SMITH, New York City.

- 4 Specimens of Orthoclase (Sanidine) from Tonapah, Nev.
- 1 Specimen of Trona (crystallized) from Owens Lake, Myo Co., Calif.

BY PURCHASE

- 1 Specimen of Natrolite on Datolite from Bergen Hill, N. J.

DEPARTMENT OF INVERTEBRATE ZOÖLOGY

INVERTEBRATES

BY GIFT

MRS. B. ANDERSON-STIGEN, New York City.

- 3 Pieces of Amber (containing insects).

G. W. J. ANGELL, New York City.

- Various insects from the vicinity of New York and Key West, Fla.

H. G. BARBER, Roselle Park, N. J.

- Various Hemiptera.

WILLIAM C. BARBOUR, Succasunna, N. J.

- 1 Slide of Statoblasts of *Pectinatella magnifica*.

WILLIAM C. BEEBE, New York City.

- 1 Spider (*Admetus pumilio*) and 1 Scorpion (*Centruroides margaritatus*).

REV. T. S. BENDRAT, Boonville, Oneida Co., N. Y.

- .2 Spiders (*Heteropoda vinatoria* L.).

WILLIAM BEUTENMÜLLER, New York City.

- 1 Specimen of *Cicindela patruela*.

E. A. BISCHOFF, Newark, N. J.

- Various Carabidæ.

MRS. J. B. BLOOMINGDALE, New York City.

- 1 Lot of Sponges, Corals, Sea-fans, Echinoderms, Insects and Molluscs.

- MRS. M. H. BRISTOL, New York City.  
1 Wasps' Nest from South America.
- MRS. PETER J. BRADY, Brooklyn, N. Y.  
1 Trap-door Spider Nest.
- MRS. N. L. BRITTON, New York City.  
1 Vial of Annelids from Jamaica and 1 Sponge from the Bahamas.
- EDGAR B. BRONSON, New York City.  
2 Goliath Beetles and 4 Cetonid Beetles from Africa.
- HENRY BROWN, Paris, France.  
A small collection of Butterflies and Moths from Europe.
- DR. B. H. BUXTON, Cornell University Medical College, New York City.  
4 Myriapods and 6 Arachnids.
- C. CHRISTMAN, New York City.  
101 Cray-fish (*Cambarus bartonii* Fab.).
- C. F. CLARKE, Havana, Cuba.  
1 Lot of Scorpions, Millipedes and Spiders.
- WILLIAM T. DAVIS, Staten Island, N. Y.  
Various Insects, 2 Colonies of *Pectinatella magnifica*, and 1 lot of Annelids and Arachnids.
- R. P. DOW, Brooklyn, N. Y.  
1 *Clivina impressifrons*.
- G. P. ENGELHARDT, Brooklyn, N. Y.  
Various Coleoptera.
- H. D. EIGHME, Cristobal, Canal Zone, Panama.  
1 Goliath Beetle.
- EDWARD FORSHAY, New York City.  
2 *Callinectes sapidus*.
- DWIGHT FRANKLIN, New York City.  
2 Horseshoe Crabs (*Limulus polyphemus*).
- COL. EDWARD GEBHARD, Bensonhurst, L. I.  
4 Lunar Moths and Cocoons.
- D. P. GLOVER, Sparta, N. J.  
1 Dobson Fly (*Corydalis cornuta*).
- EMIL GRAMM, Germantown, Pa.  
1 Mantis (*Tenodera sinensis*).
- R. M. HARPER, Tallahassee, Fla.  
1 Sponge from Everglades, Fla.
- EDWARD D. HARRIS, New York City.  
30 Cicindelidæ.
- A. O. HEINRICH, Baldwin, L. I.  
Various Insects and Crustaceans and 1 Fossil Mollusc.
- JOHN HISCOX, New York City.  
1 Specimen of *Libinia emarginata* with oyster shell on carapace.
- DR. ROBERT T. JACKSON, Cambridge, Mass.  
Collection of Echinoderms from various parts of the world, including several rare species.

- J. R. JOHNSON, New York City.  
 1 Giant Slug (*Limax maximus*).
- L. H. JOUTELL, New York City.  
 2 Perrenyi and 2 Yamamia.
- COUNTESS ALEDA VON KROCKOW, Brooklyn, N. Y.  
 1 Lot of Porifera.
- MESSRS. GNEOMAR VON KROCKOW, L. F. BARNUM and OGDEN  
 GILES, Brooklyn, N. Y.  
 Various Myriapods, Isopods, Spiders, Insects and Molluscs.
- C. W. LENG, New York City.  
 Various Insects.
- DR. THEODORE LENS, Military Hospital, Curaçao.  
 1 Lot of Myriapods, Insects and Scorpions.
- J. J. LEVISON, Brooklyn, N. Y.  
 Exhibit of Insect work and Insecticides.
- W. DEW. MILLER, Plainfield, N. J.  
 1 Lot of Myriapods.
- DR. THOMAS H. MONTGOMERY, JR., Philadelphia, Pa.  
 Collection of type specimens of Arachnids (Lycosidæ, Pisauridæ).
- NEW YORK AQUARIUM, New York City.  
 Various Molluscs, Crustaceans and other Invertebrates.
- C. E. OLSEN, Maspeth, N. Y.  
 200 Specimens of various Insects.
- PEARY ARCTIC CLUB, New York City.  
 1 Lot of Crustaceans from the Arctic Regions.
- CHARLES PERCY, S.S. "Roosevelt."  
 1 Jar with Marine Incrustations.
- DR. ALEXANDER PETRUNKEVITCH, Montclair, N. J.  
 1 *Peripatus*, various Arachnids and 1 nest of Trap-door Spider.
- CHARLES L. POLLARD, Staten Island, N. Y.  
 A collection of Lepidoptera from various parts of the world.
- C. H. ROBERTS, New York City.  
 1 Lot of Coleoptera.
- CAPT. WIRT ROBINSON, West Point, N. Y.  
 A small collection of North American Beetles.
- C. SCHAEFFER, Brooklyn, N. Y.  
 Various Coleoptera.
- GEORGE H. SHERWOOD, New Rochelle, N. Y.  
 1 Beetle.
- C. E. SLEIGHT, Ramsey, N. J.  
 About 4,000 Insects from Ramsey, N. J.
- HARLAN I. SMITH, New York City.  
 1 Lot of Crustaceans from Alaska.
- J. B. SNIFFIN, New York City.  
 Various Crustaceans.
- MISS GEORGINA B. SPOONER, New York City.  
 1 Trap-door Spider with nest (*Stasimopus natalensis* Cambridge).

DR. AARON L. TREADWELL, Poughkeepsie, N. Y.

1 Lot of Annelids.

F. E. WATSON.

23 Pupæ of Lepidoptera and 4 parasites.

REV. M. P. WELCHER, Norwalk, Conn.

1 Wasps' Nest and 1 Moth's Cocoon.

H. D. WHITON, New York City.

1 *Vespa crabro* Linn.

CHARLES WUNDER, Dundee Lake, N. J.

1 Lot of Insects.

BY EXCHANGE

BROOKLYN MUSEUM, Brooklyn, N. Y.

111 Blown larvæ and 13 pupæ of Lepidoptera.

1 Specimen of *Euplectella aspergillum* from the Sea of Japan.

1 Lot of Invertebrates from the Marine Biological Laboratory, Woods Hole, Mass.

BY PURCHASE

2 Dozen slides of mounted Rotifera from various parts of the world.  
Prepared by Mr. C. F. Rousselet.

1 Lot of dry and alcoholic Insects from Sardinia and other parts of Europe.

1 Collection of Lepidoptera from Jamaica, B. W. I.

1 Lot of Arachnids and Myriapods from Naples, Italy.

1 Lobster from Baldwin, L. I.

1 Specimen of *Nectopilema verrilli* Fewkes.

A valuable collection of North American Tortricidæ containing many types and cotypes.

THROUGH MUSEUM EXPEDITIONS

Collection of about 3,500 Arachnids, Myriapods, Insects and Crustaceans from Austin, Tex., and Mexico. Collected by Dr. Alexander Petrunkevitch.

Collection of Molluscs, Crustaceans, Myriapods, Formicidæ, etc., from the South Sea Islands. Collected by Prof. Henry E. Crampton.

1 Crustacean, 2 Squid and 1 Octopus from Naples, Italy. Collected by Dr. L. Hussakof of the Department of Ichthyology and Herpetology.

Various Molluscs and Insects from Cold Spring Harbor, N. Y. Collected by Dr. F. E. Lutz.

Various Annulates, Insects and Spiders from Highwood, N. J. Collected by Dr. F. E. Lutz.

Various Sponges, Crustaceans, Gastropods and Insects from Far Rockaway, L. I. Collected by Dr. F. E. Lutz.

Collection of Annulates from Tortugas, Fla. Collected by Prof. Aaron L. Treadwell.

Collection of Annulates, Insects, Molluscs, Crustaceans, Arachnids, Myriapods and Sponges from the Ashokan Watershed, N. Y. Collected by Prof. Aaron L. Treadwell and Mr. Gneomar von Krockow.

Collection of Marine Invertebrates (Tunicates, Molluscs, Arthropods, Echinoderms, Bryozoans, Parasitic Worms, Coelenterates, and Sponges) from Woods Hole, Mass., and vicinity. Collected by Messrs. Roy W. Miner, H. Mueller and Dwight Franklin.

## TREES

## BY GIFT

MR. EMIL CALMAN, New York City.

2 Blocks of Black Damar Gum.

FRARY MANUFACTURING CO., Charlemont, Mass.

3 Pieces of timber and wood turnings.

REV. M. P. WELCHER, Norwalk, Conn.

Maple and Cherry stems into which Bittersweet had grown.

EDWARD R. LADEW ESTATE, New York City.

1 Piece Hemlock bark, 6 ft. x 12 ft.

EDWARD D. ADAMS, New York City.

Manna lichens, Department of Parks, Manhattan.

Section of Oak tree planted by King Edward VII of England, October 11, 1860.

## MOLLUSCA

## BY GIFT

JOSEPH MANUEL ANDREINI, New York City.

Miscellaneous collection of shells (bivalves and univalves) comprising *Arca*, *Asaphis*, *Bulla*, *Columbella*, *Cypræa*, *Littorina*, *Margarita*, *Nerita*, *Purpura*, *Trochus*, *Urasalpinx*, from the Island of Sacrificias, Vera Cruz, Mexico.

DEPARTMENT OF ANTHROPOLOGY, through DR. CLARK WISSLER.

1 *Conus hebræus*, 1 *C. vitulinus*, 3 *Cypræa carneola*, 1 *C. mappa*, 1 *C. testudinaria*, 1 *C. talpa*, 1 *Dolium pomum*, 1 *Latirus sanguifluus*, 1 *Mitra spherulata*, 1 *Melampus luteus*, 1 *Natica aurantia*, 1 *N. mamillata*, 1 *Ovulum ovum*, 1 *Terebra maculata*, 1 *T. crenulata*.

WILLIAM BRADY, New York City.

A small collection of shells (bivalves and univalves), comprising *Chione*, *Chama*, *Hemicardium*, *Lævicardium*, *Lima*, *Lucina*, *Natica*, *Nerita*, *Modiola*, *Pecten*, *Pectunculus*, *Purpura*, from Florida and Bahamas.

A. DA COSTA GOMEZ, Brooklyn, N. Y.

2 Specimens of *Camæna cicatricosa*, Müll.

1 Specimen of *Meleagrina margaritifera*, coated with *Chama spinosa*, Sow., Gulf of California.



## L. P. GRATACAP, New York City.

Some 500 specimens of land and marine shells (including recent fossil forms) from Bermuda.

## CHARLES DAYTON GWYER, Brooklyn, N. Y.

1 Specimen of *Pecten irradians*, coated with *Anomia glabra*, showing reproduction of the pecten ribs on the latter. Long Island Sound.

1 Specimen of *Cypræa reticulatus* (diseased) from Sandwich Islands.

4 Specimens of *Oliva melchersi*, Mke., from Gulf of California.

## Y. HIRASE, Kyoto, Japan.

*Cardium arenicolum*, *Sunetta excavata*, *Tellina staurella*, *T. scobinata*; *Cassis saburon*, *Conus marmoreus*, *C. pulicarius*, *Cypræa tigris*, *C. vitellus*, *Haliotis ovina*, *Oliva irisans*, *Strombus aratum*, from Japan.

## JAMES W. JUDD, Brooklyn, N. Y.

2 Specimens of *H. (Coryda) alauda*, color variety, from Cuba.

## L. MAURER, New York City.

1 Specimen of *Conus fergusonii*, Sow., from Indian Grave, Peru, (a very rare shell).

## DR. H. A. PILSBRY, Philadelphia, Pa.

Specimens of *Ashmunella chiricahuana*, Dall, *A. fissideus*, Pils., *A. lepiderma*, Pils., *A. levettei*, Bld., *A. wolkeri*, Ferris, from Florida Mts., N. M.

## MRS. JAMES SULLIVAN, New York City.

13 Specimens of bivalves and univalves, including *Anomia*, *Argina*, *Melongena*, *Monoceras*, *Nerita*, *Pecten*, *Strombus*, *Triton*, *Turbo*.

## CHRISTIAN WEBER, Jersey City, N. J.

Specimens of *Ammicola*, *Lymnæa*, *Physa*, *Planorbis* (2 species), from White Lake, near Blairstown, N. J.

## BY EXCHANGE

## CHARLES DAYTON GWYER, Brooklyn, N. Y.

2 Specimens *Unio (Diplodon) australis*, Lam., from Victoria, Australia.

2 Specimens of *Cardium tenuicostatum*, Lam., from Victoria, Australia.

3 Specimens of *Tapes fumigata*, Sow., from Victoria, Australia.

3 Specimens of *Donax deltoides*, Lam., Victoria, Australia.

1 Specimen of *Maetra rufescens*, Lam., Victoria, Australia.

1 Specimen of *Maetra parva*, Pet., Victoria, Australia.

## WILLIAM H. WEEKS, JR., Brooklyn, N. Y.

1 *Pecten hastatus*, Sow., British Columbia.

1 *Pecten irradians*, Linn. (yellow variety), British Columbia.

6 Specimens *rubidus*, Hds., British Columbia.

1 Specimen *Chamostrea albida*, Lam., Victoria, Australia.

2 *Conus anemone*, Lam. (var.), Victoria, Australia.

5 *Natica conica*, Lam., Victoria, Australia.

BY PURCHASE

*Lymnæa stagnalis*, *Planorbis trivolvis* (var. *macrostoma*), from Mackenzie River.

A collection of Jamaican shells, comprising *Helix* (*Thelidomus* and *Pleurodonte*), *Hemitrochus*, *Helicina*, *Proserpina*, *Cyclotus*, *Alcadia*, *Cyclostoma*, *Stenogyra*, *Varicella*, *Trochatella*, *Microceramus*, *Urocoptis*, *Brachypodella*, *Physa*.

# INCORPORATION

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## AN ACT

TO INCORPORATE THE

## AMERICAN MUSEUM OF NATURAL HISTORY

Passed April 6, 1869

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*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.

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STATE OF NEW YORK,                    } ss.:  
OFFICE OF THE SECRETARY OF STATE. }

I have compared the preceding with the original law on file in this office, and do hereby certify that the same is a correct transcript therefrom, and of the whole of said original law.

Given under my hand and seal of Office at the City of Albany,  
[L. S.]                                    this fourteenth day of April, in the year one thousand  
  eight hundred and sixty-nine.

D. WILLERS, JR., *Deputy Secretary of State.*

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† 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."

# CONTRACT

## WITH THE DEPARTMENT OF PUBLIC PARKS

FOR THE OCCUPATION OF THE NEW BUILDING

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THIS AGREEMENT, made and concluded on the twenty-second day of December, in the year one thousand eight hundred and seventy-seven, between the DEPARTMENT OF PUBLIC PARKS OF THE CITY OF NEW YORK, the party of the first part, and the AMERICAN MUSEUM OF NATURAL HISTORY, party of the second part, witnesseth:

*Whereas*, by an Act of the Legislature of the State of New York, passed April 22d, 1876, entitled "An Act in relation to the powers and duties of the Board of Commissioners of the Department of Public Parks, in connection with the American Museum of Natural History, and the Metropolitan Museum of Art," the said party of the first part is authorized and directed to enter into a contract with the said party of the second part, for the occupation by it of the buildings erected or to be erected on that portion of the Central Park in the City of New York, known as Manhattan Square, and for transferring thereto and establishing and maintaining therein its museum, library and collections, and carrying out the objects and purposes of said party of the second part; and,

*Whereas*, a building contemplated by said act has now been erected and nearly completed and equipped in a manner suitable for the purposes of said Museum, as provided in the first section of the Act of May 15, 1875, known as Chapter 351, of the Laws of 1875, for the purpose of establishing and maintaining therein the said Museum, as provided by the said last-named act, and by the Act of April 5, 1871, known as Chapter 290, of the Laws of 1871; and,

*Whereas*, it is desired as well by the said party of the first part, as by the said party of the second part, that, immediately upon the completion and equipment of said building, the said party of the second part should be established therein, and should transfer thereto its museum, library and collections, and carry out the objects and purposes of the said party of the second part;

Now, therefore, it is agreed by and between the said parties as follows, namely:

*First.*—That the said party of the first part has granted and demised and let, and doth, by these presents, grant, demise and let, unto the said party of the second part, the said buildings and the appurtenances thereunto belonging, to have and to hold the same so long as the said party of the second part shall continue to carry out the objects and purposes defined in its charter; or such other objects and purposes as by any future amendment of said charter may be authorized; and shall faithfully keep, perform, and observe the covenants and conditions herein contained on its part to be kept, performed and observed, or until the said building shall be surrendered by the said party of the second part, as hereinafter provided.

*Secondly.*—That neither the party of the first part, its successor or successors, nor the Mayor, Aldermen and Commonalty of the City of New York, shall be in any manner chargeable or liable for the preservation of the said building or the property of the party of the second part which may be placed therein, against fire, or for any damage or injury that may be caused by fire to the said property; but it is agreed that, damages as aforesaid excepted, the said party of the first part will keep said building, from time to time, in repair.

*Thirdly.*—That as soon after the completion and equipment of said building as practicable, said party of the second part shall transfer to, and place and arrange in said building, its museum, library and collections, or such portion thereof as can be properly displayed to the public therein, and shall have and enjoy the exclusive use of the whole of said building,

subject to the provisions herein contained, and the rules and regulations herein prescribed, during the continuance of the term granted, or until a surrender thereof, as herein provided.

*Fourthly.*—That the exhibition halls of said building shall, on Wednesday, Thursday, Friday and Saturday of each week, and on all legal or public holidays, except Sundays, be kept open and accessible to the public, free of charge, from nine o'clock A.M. until half an hour before sunset, under such rules and regulations as the party of the second part shall from time to time prescribe; but on the remaining days of the week the same shall be only open for exhibition to such persons, upon such terms as the said party of the second part shall from time to time direct. But all professors and teachers of the public schools of the City of New York, or other institutions of learning in said city, in which instruction is given free of charge, shall be admitted to all the advantages afforded by the said party of the second part, through its museum, library, apparatus, and collections, or otherwise, for study, research and investigation, free of any charge therefor, and to the same extent and on the same terms and conditions as any other persons are admitted to such advantages, as aforesaid.

*Fifthly.*—That the museum, library and collections, and all other property of said party of the second part, which shall or may be placed in said building, shall continue to be and remain absolutely the property of said party of the second part, and neither the said party of the first part nor the said the Mayor, Aldermen and Commonalty, shall by reason of said property being placed in said building, or continuing therein, have any right, title, property or interest therein; nor shall the said party of the second part, by reason of its occupation and use of said building under this agreement, acquire, or be deemed to have any right, title, property or interest in said building, except so far as expressly granted by this agreement.

*Sixthly.*—That the said party of the second part shall, on or before the first day of May, in every year, during the continuance of this agreement, submit to the said party of the first part, its successor or successors, a detailed printed report of the



operations and transactions of the said party of the second part, and all its receipts and payments, for the year ending with the 31st day of December next preceding.

*Seventhly.*—That said party of the first part shall have, at all times, access to every part of the said building for general visitation and supervision, and also for the purpose of the performance of the duties devolved upon it by the laws of the State of New York, or of the City of New York. That the police powers and supervision of said party of the first part shall extend in, through and about said building. That the said party of the second part may appoint, direct, control and remove all persons employed within said building, and in and about the care of said building, and the museum, library and collections therein contained.

*Eighthly.*—That said party of the second part may, at any time, after the expiration of three, and before the expiration of six, months from the date of the service of a notice in writing to said party of the first part, its successor or successors, or to the Mayor of the City of New York, of its intention so to do, quit and surrender the said premises and remove all its property therefrom; and upon and after such notice, the said party of the second part shall and will, at the expiration of the said six months, quietly and peaceably yield up and surrender unto the said party of the first part and its successors all and singular the aforesaid demised premises. And it is expressly understood and agreed by and between the parties hereto that if the said party of the second part shall omit to do, perform, fulfill or keep any or either of the covenants, articles, clauses and agreements, matters and things herein contained, which on its part are to be done, performed, fulfilled or kept, according to the true intent and meaning of these presents, then and from thenceforth this grant and demise shall be utterly null and void. And in such case it shall and may be lawful for said Department to serve or cause to be served on the said party of the second part a notice in writing declaring that the said grant hereinbefore made has become utterly null and void and thereupon the said party of the first part, its successor or successors (ninety days' time being first given to the said party

of the second part to remove its property therefrom), may reënter, and shall again have, repossess and enjoy the premises aforementioned, the same as in their first and former estate, and in like manner as though these presents had never been made, without let or hindrance of the said party of the second part, anything here contained to the contrary notwithstanding.

*Ninthly.*—And it is further expressly understood and agreed, by and between the parties hereto, that this agreement may be wholly canceled and annulled, or, from time to time, altered, or modified, as may be agreed, in writing, between the said parties, or their successors, anything herein contained to the contrary in anywise notwithstanding.

*In witness whereof*, the party of the first part hath caused this agreement to be executed by their President and Secretary, pursuant to a resolution of the Board of Commissioners of said Department, adopted at a meeting held on the thirtieth day of January, in the year of our Lord one thousand eight hundred and seventy-eight; and the said party of the second part hath caused the same to be executed by their President, and their official seal affixed thereto, pursuant to a resolution of the Trustees of the American Museum of Natural History, adopted at a meeting held on the twelfth day of February, in the year of our Lord one thousand eight hundred and seventy-seven.

In presence of  
D. PORTER LORD.

JAMES F. WENMAN,  
*President Department of Public Parks  
of the City of New York.*

WILLIAM IRWIN,  
*Secretary Department of Public Parks  
of the City of New York.*

ROBERT L. STUART,  
*President American Museum of  
Natural History.*

SEAL  
of the American  
Museum of  
Natural History

STATE OF NEW YORK, }  
 City and County of New York, } ss. :

On this 12th day of February, in the year 1878, before me personally came James F. Wenman, President of the Department of Public Parks of the City of New York, and William Irwin, Secretary of the said Department of Public Parks, with both of whom I am personally acquainted, and both of whom being by me duly sworn, said that they reside in the City and County of New York ; that the said James F. Wenman is the President, and the said William Irwin is the Secretary of the said Department of Public Parks, and that they signed their names to the foregoing agreement by order of the Board of Commissioners of the said Department of Public Parks, as such President and Secretary.

[SEAL.]

W. C. BESSON,  
 (73) *Notary Public N. Y. Co.*

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STATE OF NEW YORK, }  
 City and County of New York, } ss. :

On this 12th day of February, in the year 1878, before me personally came Robert L. Stuart, the President of the American Museum of Natural History, with whom I am personally acquainted, who being by me duly sworn, said that he resides in the City and County of New York, that he is the President of the American Museum of Natural History, and that he knows the corporate seal of said museum, that the seal affixed to the foregoing agreement is such corporate seal, that it is affixed thereto by order of the Board of Trustees of said American Museum of Natural History, and that he signed his name thereto by the like order, as President of said Museum.

[SEAL.]

W. C. BESSON,  
 (73) *Notary Public N. Y. Co.*

Recorded in the office of the Register of the City and County of New York in Liber 1426 of Cons., page 402, February 16, A. D. 1878, at 9 o'clock A. M., and examined.

Witness my hand and official seal,

[SEAL.]

FREDERICK W. LOEW,  
*Register.*

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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  
Amended May 10, 1909

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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 who shall not be a "Patron" of the Museum, unless by a unanimous vote of a quorum of the Board, nor be

eligible 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 quarterly, on the second Monday of every February, May, August and 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 quarterly meeting in February, 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. The President and Vice-Presidents shall be elected from among the Trustees. The Treasurer and Secretary may or may not be chosen from such 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, 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.

#### ARTICLE V

SECTION 1. The President shall have a general supervision and direction over 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.

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.

SEC. 3. The Treasurer shall receive and disburse the funds of the Museum. He shall report in writing, at each quarterly 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.

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.

These accounts shall be under the care of an Assistant Treasurer, who 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.



SEC. 5. The offices of Secretary and Assistant Treasurer may be held by the same person.

#### ARTICLE VI

The Executive Committee shall consist of nine Trustees, of whom the President, First and Second Vice-Presidents and Treasurer, in case he be a Trustee, shall be four, and five other members 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 to purchase, sell and exchange specimens and books, to employ agents, to regulate the manner and terms of exhibiting the Museum to the public, and generally to carry out in detail the directions of the Trustees; but the Executive Committee shall not incur any expense or liability for the Museum exceeding two thousand dollars at one time, or exceeding in all ten thousand dollars, in the interval between the quarterly meetings of the Trustees, without the express sanction of the Trustees. 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.

No bills shall be paid unless approved, in writing, by the President, the Chairman of the Executive Committee, or the Director.

#### ARTICLE VIII

The Finance Committee shall consist of four Trustees, including the Treasurer in case he be a Trustee. 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.



## 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 five candidates to be elected by ballot at the said meeting.

## ARTICLE X

The President shall be a member, *ex-officio*, of all standing committees.

## ARTICLE XI

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 XII

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 XIII

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 \$1,000 to the funds of the Museum, at one time, may be elected a Patron of the Museum, who shall have the right in perpetuity to appoint the successor in such patronship.

Any person contributing \$500, at one time, may be elected a Fellow, who 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, at one time, may be elected a Life Member.

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, 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.

The Trustees may also elect Honorary Fellows of the Museum in their discretion.

#### ARTICLE XIV

Any person who has held the office of President for ten or more successive years may be elected by the Trustees as Honorary President for life.

#### ARTICLE XV

No alterations shall be made in this Constitution, unless at a regular quarterly 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 alteration, embodying the amendment proposed to be made, having been given at a regular meeting.

# BY-LAWS

Amended May 10, 1909

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## I

Benefactors, giving \$50,000, 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.

[NOTE.—A Subscriber's Ticket admits to the laboratories and parts of the Museum not open to the public, 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 laboratories and parts of the Museum not open to the public, and are issued to Subscribers for distribution among friends and visitors.]

## II

Any Trustee who shall fail to attend three consecutive Regular Quarterly Meetings of the Board shall cease to be a Trustee, unless excused by the Board.

## III

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. Any desired additional expenditure shall first receive the approval of the Board of Trustees.

IV

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.

V

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.

VI

All bequests or legacies, not especially designated, 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.

VII

At such times as it may be impracticable to obtain the services of the members of the Auditing Committee, the members of the Executive Committee may act in their place and stead.



FOR THE EQUIPPING AND FINISHING OF THE  
BUILDING AND THE CONSTRUCTION OF  
ADDITIONS THERETO

LEGAL ENACTMENTS OF 1905

BY THE BOARD OF ALDERMEN

AN ORDINANCE providing for an issue of Corporate Stock in the sum of five hundred thousand dollars (\$500,000), to provide means for the equipping and finishing of The American Museum of Natural History in Manhattan Square, Borough of Manhattan, and the construction of additions thereto.

Be it ordained by the Board of Aldermen of the City of New York as follows:

SECTION 1. The Board of Aldermen hereby approves of and concurs in the following resolution adopted by the Board of Estimate and Apportionment March 16, 1905, and authorizes the Comptroller to issue Corporate Stock of The City of New York to the amount and for the purposes therein specified:

*Resolved*, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended by chapter 409 of the Laws of 1904, the Board of Estimate and Apportionment hereby approves of the issue of Corporate Stock of the City of New York, to an amount not exceeding five hundred thousand dollars (\$500,000), to provide means for the equipping and furnishing of The American Museum of Natural History in Manhattan Square, Borough of Manhattan, and the construction of additions thereto, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue Corporate Stock of the City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding five hundred thousand dollars (\$500,000), the proceeds whereof to be applied to the purposes aforesaid."

Adopted by the Board of Aldermen April 11, 1905, a majority of all the members elected voting in favor thereof.

Approved by the Mayor April 18, 1905. (Signed) P. J. SCULLY, *Clerk*.

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Contracts awarded to December 31, 1906.

For the erection of Fire Lines, Sprinkler System, Fire Escapes, etc.

Contract awarded R. J. F. Gerstle Company, November 26, 1905, \$19,838.

Completed January 11, 1907.

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For the erection and completion of a New Wing, to be known as the South Wing of the West Façade, and a Permanent Cellar Passageway running therefrom in northerly and easterly direction.

Contract awarded Guidone & Galardi, May 22, 1906, \$325,000.

Completed June 6, 1908.

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For the construction of a Service Roadway from Ninth Avenue to and under the New South Wing of the West Façade.

Contract awarded Atlanta Contracting Company, July 1, 1909, \$26,000.

APPROPRIATIONS AND EXPENDITURES MADE THEREON  
TO DECEMBER 31, 1909

APPROPRIATION:

By Direct Appropriation.....	\$500,000 00	
Premium on Sale of Bonds.....	10,883 92	
		\$510,883 92

EXPENDITURES:

Guidone & Galardi.....	\$325,600 00	
Charles Volz, Architect's Fees....	16,279 95	
R. J. F. Gerstle Co.....	19,838 00	
Charles Volz, Architect's Fees....	991 89	
Atlanta Contracting Co.....	26,000 00	
Charles Volz, Architect's Fees....	1,300 00	
Cady, Berg & See.....	6,935 71	
Harlem Contracting Co.....	4,652 94	
George H. Storm & Co.....	1,725 16	
Pittsburgh Plate Glass Co .....	1,696 77	
M. G. Reeves .....	1,596 00	
Connecticut Dynamo & Motor Co..	875 09	
Museum Orders.....	34,710 08	
Carpenters' Payroll, etc.....	61,517 53	
		\$503,719 12
Outstanding Open Market Orders.....	5,270 26	\$508,989 38
Available Balance Dec. 31, 1909.....		\$1,894 54



# FOR FURNISHING AND EQUIPPING THE AMERICAN MUSEUM OF NATURAL HISTORY

LEGAL ENACTMENTS OF 1909

BY THE BOARD OF ALDERMEN

AN ORDINANCE providing for an issue of Corporate Stock in the sum of one hundred thousand dollars (\$100,000), to provide means for furnishing and equipping The American Museum of Natural History, Seventy-seventh Street and Columbus Avenue, Borough of Manhattan.

Be it ordained by the Board of Aldermen of The City of New York as follows:

SECTION 1. The Board of Aldermen hereby approves of and concurs in the following resolution adopted by the Board of Estimate and Apportionment July 2, 1909, and authorizes the Comptroller to issue Corporate Stock of The City of New York to the amount and for the purposes therein specified:

*Resolved,* That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of Corporate Stock of The City of New York, to an amount not exceeding one hundred thousand dollars (\$100,000), to provide means for furnishing and equipping The American Museum of Natural History, Seventy-seventh Street and Columbus Avenue, Borough of Manhattan, and when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue Corporate Stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding one hundred thousand dollars (\$100,000), the proceeds whereof to be applied to the purposes aforesaid."

Adopted by the Board of Aldermen July 13, 1909, a majority of all the members elected voting in favor thereof.

Approved by the Mayor July 26, 1909.

(Signed) P. J. SCULLY, *Clerk.*

# LIST OF MEMBERS

## PATRONS

*By contribution of \$1,000 or upwards, or through honorary election*

EDWARD D. ADAMS.  
JOHN ANDERSON.\*  
JAMES ANGUS.\*  
HICKS ARNOLD.\*  
RICHARD ARNOLD.\*  
WILLIAM H. ASPINWALL.\*  
JOHN JACOB ASTOR.\*  
WILLIAM WALDORF ASTOR.  
HUGH AUCHINCLOSS.\*  
BENJAMIN AYMAR.\*  
MRS. GUY ELLIS BAKER.  
A. H. BARNEY.\*  
D. N. BARNEY.\*  
JAMES GORDON BENNETT.  
FREDERICK BILLINGS.\*  
HEBER R. BISHOP.\*  
GEORGE BLISS.\*  
GEORGE T. BLISS.\*  
Miss SUSAN DWIGHT BLISS.  
WILLIAM T. BLODGETT.\*  
ROBERT BONNER.\*  
HENRY BOOTH.  
M. C. D. BORDEN.  
J. A. BOSTWICK.\*  
GEORGE S. BOWDOIN.  
GEORGE DEXTER BRADFORD.\*  
ALEX. H. BROWN, M.P.  
JAMES BROWN.\*  
Miss MATILDA W. BRUCE.\*  
HERMON C. BUMPUS.  
JOHN L. CADWALADER.  
MRS. ANDREW CARNEGIE.  
Dr. WALTER CHANNING.  
JOSEPH H. CHOATE.  
EDWARD CLARK.\*  
JONAS G. CLARK.\*  
JAMES B. COLGATE.\*  
ROBERT COLGATE.\*  
FREDERICK A. CONSTABLE.\*  
MRS. FREDERICK A. CONSTABLE.  
JAMES M. CONSTABLE.\*  
GEORGE C. COOPER.\*  
PETER COOPER.\*  
AUSTIN CORBIN.\*

ALEXANDER I. COTHEAL.\*  
JOHN D. CRIMMINS.  
JOHN J. CROOKE.  
CORNELIUS C. CUYLER.\*  
THOMAS DE WITT CUYLER.  
W. M. DONGAN DE PEYSTER.  
L. P. DI CESNOLA.\*  
A. G. PHELPS DODGE.  
CLEVELAND H. DODGE.  
WILLIAM E. DODGE, 1st.\*  
WILLIAM E. DODGE, 2d.\*  
MRS. WILLIAM E. DODGE.\*  
JAMES DOUGLAS.  
ANDREW E. DOUGLASS.\*  
JOSEPH W. DREXEL.\*  
D. G. ELLIOT.  
MRS. M. SCHUYLER ELLIOT.  
JAMES R. ELY.  
Lieut. G. T. EMMONS, U.S.N.  
BENJAMIN H. FIELD.\*  
CYRUS W. FIELD.\*  
CYRUS W. FIELD, Jr.\*  
Prof. AUGUSTE FOREL.  
WILLIAM T. GARNER.\*  
ELBRIDGE T. GERRY.  
ROBERT W. GOELET.  
LUDWIG MAX GOLDBERGER.  
GEORGE J. GOULD.  
JOHN A. C. GRAY.\*  
WILLIAM A. HAINES.\*  
ANSON W. HARD.  
OLIVER HARRIMAN.\*  
HENRY O. HAVEMEYER.\*  
THEODORE A. HAVEMEYER.\*  
GEORGE G. HAVEN.\*  
GEORGE A. HEARN.  
ABRAM S. HEWITT.\*  
MRS. ABRAM S. HEWITT.  
VeryRev. E. A. HOFFMAN, D.D., LL.D.\*  
MRS. EUGENE A. HOFFMAN.  
SAMUEL V. HOFFMAN.  
ARCHER M. HUNTINGTON.  
C. P. HUNTINGTON.\*  
MRS. C. P. HUNTINGTON.

\* Deceased

B. H. HUTTON.\*  
 B. T. BABBITT HYDE.  
 Dr. FREDERICK E. HYDE.  
 FREDERICK E. HYDE, Jr.  
 JAMES H. HYDE.  
 ADRIAN ISELIN.\*  
 ADRIAN ISELIN, Jr.  
 ARTHUR CURTISS JAMES.  
 D. WILLIS JAMES.\*  
 CHARLES M. JESUP.  
 MORRIS K. JESUP.\*  
 Mrs. MORRIS K. JESUP.  
 H. J. JEWETT.\*  
 J. TAYLOR JOHNSTON.\*  
 A. D. JUILLIARD.  
 JAMES R. KEENE.  
 GUSTAV E. KISSEL.  
 CHAS. G. LANDON.\*  
 CHARLES LANIER.  
 Lord LEITH OF FYVIE.  
 JAMES LENOX.\*  
 ADOLPH LEWISOHN.  
 Com. C. A. M. LIEBRECHTS.  
 JOSEPH F. LOUBAT.  
 SETH LOW, LL.D.  
 JOHN B. MARCOU.  
 PHILLIPE MARCOU.  
 EDWARD MATTHEWS.  
 FRANCIS O. MATTHIESSEN.\*  
 GEORGE B. MCCLELLAN.  
 Dr. EDGAR A. MEARNS, U.S.A.  
 HERMAN A. METZ.  
 D. O. MILLS.  
 MASON MITCHELL.  
 J. PIERPONT MORGAN.  
 J. PIERPONT MORGAN, Jr.  
 HENRY FAIRFIELD OSBORN.  
 WM. CHURCH OSBORN.  
 MRS. WM. H. OSBORN.\*  
 OSWALD OTTENDORFER.\*  
 JOHN E. PARSONS.  
 GEORGE FOSTER PEABODY.  
 Dr. WM. PEPPER.\*  
 I. N. PHELPS.\*  
 S. WHITNEY PHENIX.\*  
 HENRY CLAY PIERCE.  
 HENRY W. POOR.  
 PERCY R. PYNE.\*  
 PERCY R. PYNE.  
 J. HAMPDEN ROBB.  
 COLEMAN T. ROBINSON.\*

\* Deceased

JOHN D. ROCKEFELLER.  
 JOHN D. ROCKEFELLER, Jr.  
 WM. ROCKEFELLER.  
 Col. ARCHIBALD ROGERS.  
 THEODORE ROOSEVELT.\*  
 THEODORE ROOSEVELT.  
 WM. SCHAUS.  
 WILLIAM C. SCHERMERHORN.\*  
 JACOB H. SCHIFF.  
 HENRY SELIGMAN.  
 JESSE SELIGMAN.\*  
 EDWARD M. SHEPARD.  
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- Jones, Dwight A.  
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Edward Brevoort  
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     D. E., U.S.A.  
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