

1869

1920

CITY OF NEW YORK

AMERICAN MUSEUM OF
NATURAL HISTORY

“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.”

AN ACT TO INCORPORATE THE AMERICAN
MUSEUM OF NATURAL HISTORY, APRIL 6, 1869

FIFTY-SECOND ANNUAL REPORT
FOR THE YEAR 1920

ISSUED MAY 1, 1921

THE AMERICAN MUSEUM OF NATURAL HISTORY

INCORPORATED IN 1869

"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"

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THE AMERICAN MUSEUM OF NATURAL HISTORY

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

THE PRESIDENTS

John David Wolfe	1869-1872
Robert L. Stuart	1872-1881
Morris Ketchum Jesup	1881-1908
Henry Fairfield Osborn	1908-

HISTORY

- 1869-1872 Presidency of John David Wolfe.
- 1869 (April 6) Museum incorporated.
- 1869 (May 4) Constitution adopted precisely as originally drafted by Mr. Choate.
- 1870 First home secured, the Arsenal, Central Park.
- 1872-1881 Presidency of Robert L. Stuart.
- 1874 (June 2) Cornerstone of present building laid by President Ulysses S. Grant.
- 1878 (January 30) Contract between Trustees and Department of Parks, as drawn up by Messrs. Andrew H. Green and Joseph H. Choate, adopted by the Park Commissioners.
- 1881-1908 Presidency of Morris K. Jesup.
- 1893 Museum opened to the public on Sundays.
- 1908- Presidency of Henry Fairfield Osborn.
- 1908 Constitution amended making
The Mayor of the City of New York,
The Comptroller of the City of New York,
The President of the Department of Public Parks,
ex-officio members of the Board of Trustees.

GIFTS AND BEQUESTS EXEMPT FROM TAXATION

Gifts, to the extent of fifteen per cent. of total income, and Bequests of any extent to The American Museum of Natural History are exempt from federal taxation, under the Federal Revenue Act of 1918.

FORM OF GIFT OR BEQUEST

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

.....
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ENDOWMENT FUND

The Endowment Fund was established in 1884. It now amounts to \$9,603,952.57. The Trustees especially desire to insure the permanent growth and welfare of the Museum through an increase of the General Endowment Fund. The additional sum of \$2,000,000 is needed at present.

BUILDING FUND

The Building Fund was established in 1916. It now amounts to \$119,698.71. The Trustees desire to celebrate the Fifty-fifth Anniversary of the Founding of the Museum, namely, 1924, through the Completion of the Southern Half of the great building, partly by the City, partly by gift. The estimated cost is \$10,000,000.

For information apply to

HENRY FAIRFIELD OSBORN, President,
or to
HENRY P. DAVISON, Treasurer.

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There are more than fifty-five hundred MEMBERS of the AMERICAN MUSEUM, residents of the United States and other countries, who support its educational and scientific work and enjoy its lectures, publications and other privileges, as follows:

Associate Members.....	946	Fellows	48
Annual Members.....	3,388	Patrons	116
Sustaining Members.....	117	Associate Benefactors.....	20
Life Members.....	896	Associate Founders.....	10
Honorary Fellows.....	10	Benefactors	5

MEMBERSHIP FEES

Associate Members (non-resident)..... (annually)	\$3	Fellows	\$500
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		Benefactors	50,000

MEMBERS OF THE MUSEUM ENJOY THE FOLLOWING PRIVILEGES

- An Annual Pass admitting to the Members' Room.
- Complimentary tickets admitting to the Members' Room for distribution to friends.
- Services of an Instructor for guidance through the Museum, by application in the Members' Room.
- Two course tickets to Spring Lectures and to Autumn Lectures.
- Current numbers of all *Guide Leaflets* on request.
- Complimentary copies of *Natural History*, the bimonthly magazine of exploration, adventure and scientific progress.

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* Deceased.

FIFTY-SECOND ANNUAL REPORT
OF THE
TRUSTEES
OF
THE AMERICAN MUSEUM
OF NATURAL HISTORY

FOR THE YEAR 1920



FOR THE FREE EDUCATION
OF THE PEOPLE
FOR EXPLORATION, RESEARCH, EXHIBITION
AND PUBLICATION

THE CITY OF NEW YORK

ISSUED MAY 1, 1921

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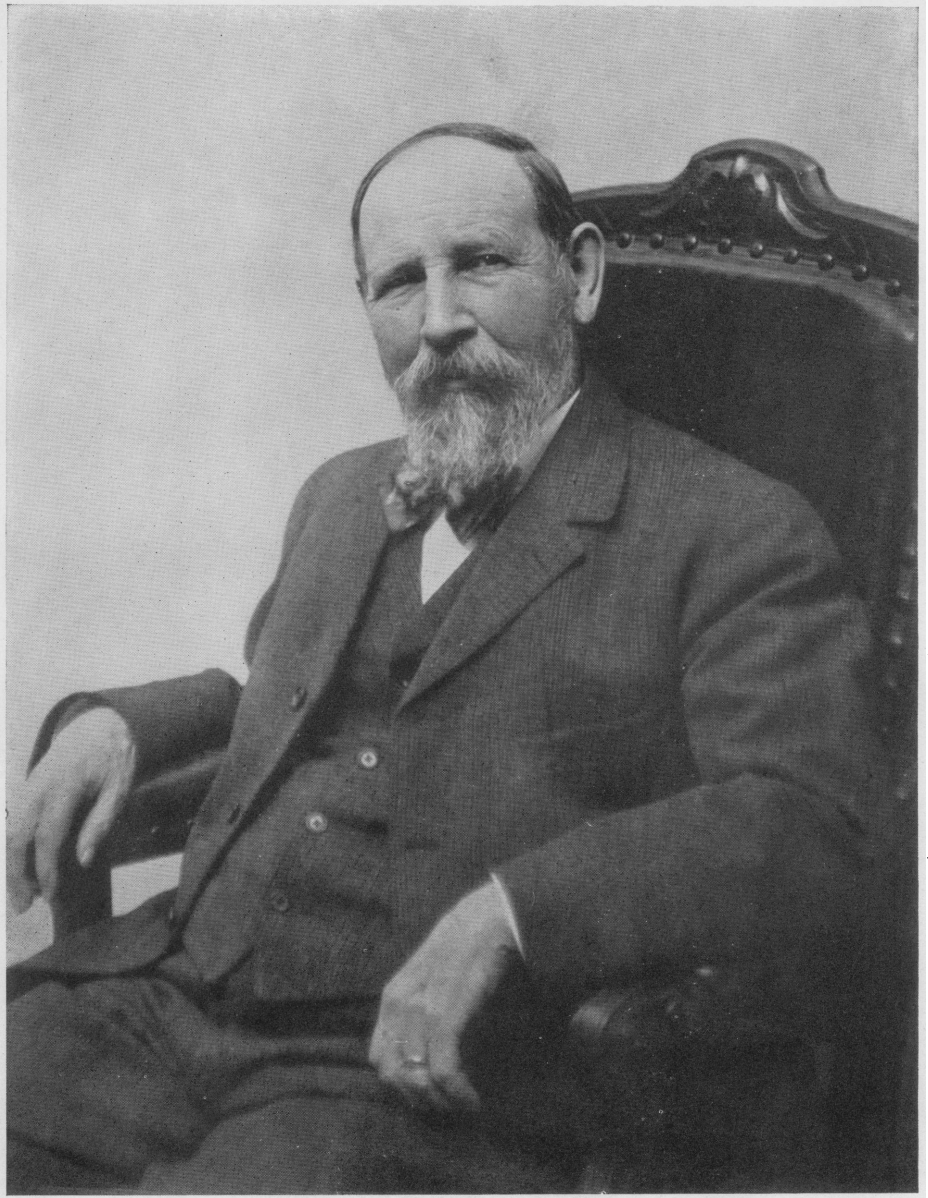
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JOEL ASAPH ALLEN

OUR SENIOR CURATOR

Who Has Given More Than Thirty-five Years of Service.
Recently Appointed Honorary Curator.

FIFTY-SECOND ANNUAL REPORT

*To the Trustees of The American Museum of Natural History
and to the City of New York*

PROGRESS OF THE FIFTY-SECOND YEAR

BY

PRESIDENT HENRY FAIRFIELD OSBORN

"We believe that the Mayor and the Board of Estimate of the City of New York are deeply interested in the education of our children and will support a well-considered movement to secure adequate funds for education, provided it can be shown that this movement is in the interest of the 900,000 children of our public schools. The present Governor of the State of New York and the Members of the Senate and Assembly must prepare to meet the crisis which has suddenly overwhelmed the educational system of the State. At the moment a democratic measure of taxation, one that has a precedent in many other states, seems advisable. President John H. Finley, at the head of the entire educational system of the State, has recently declared himself in favor of united support for home rule for the schools, for financial independence on the part of boards of education, and for *separate tax rolls and assessments for educational purposes.*"¹

The above sentences from my *Fifty-first Annual Report* have aroused widespread discussion. In general the democratization of taxation for purposes of education is not popular. The people must be convinced through a gradual appeal to their patriotism and to their reason that every citizen as well as every alien should make some direct contribution towards the great system of public education and public welfare which has been built up in the City of New York. The spirit of mutual sacrifice involved in such a contribution is an important element in the training for citizenship. By this means taxation becomes a blessing fairly borne by all, instead of a burden resting heavily on the shoulders of a few. I am convinced that our present system of taxation in the City of New York, where only one person in ten pays a visible and direct tax, is thoroughly undemocratic. It means taxation of the few without representation or a real voice in the expenditure of tax

¹ From the *Fifty-first Annual Report* of The American Museum of Natural History.

funds. It means representation of the many without taxation, but with a dominant voice in expenditure.

At a recent conference with ex-Governor Alfred E. Smith he declared himself in favor of a more even distribution of taxation, provided this could be accomplished without the creation of a new tax commission, which would be expensive and cumbersome. Governor Nathan L. Miller has declared himself for the simplification of our mode of collecting taxes, and he should unite with this a provision for the even distribution of taxes among all those who enjoy the blessings of taxation, whether property holders or not.

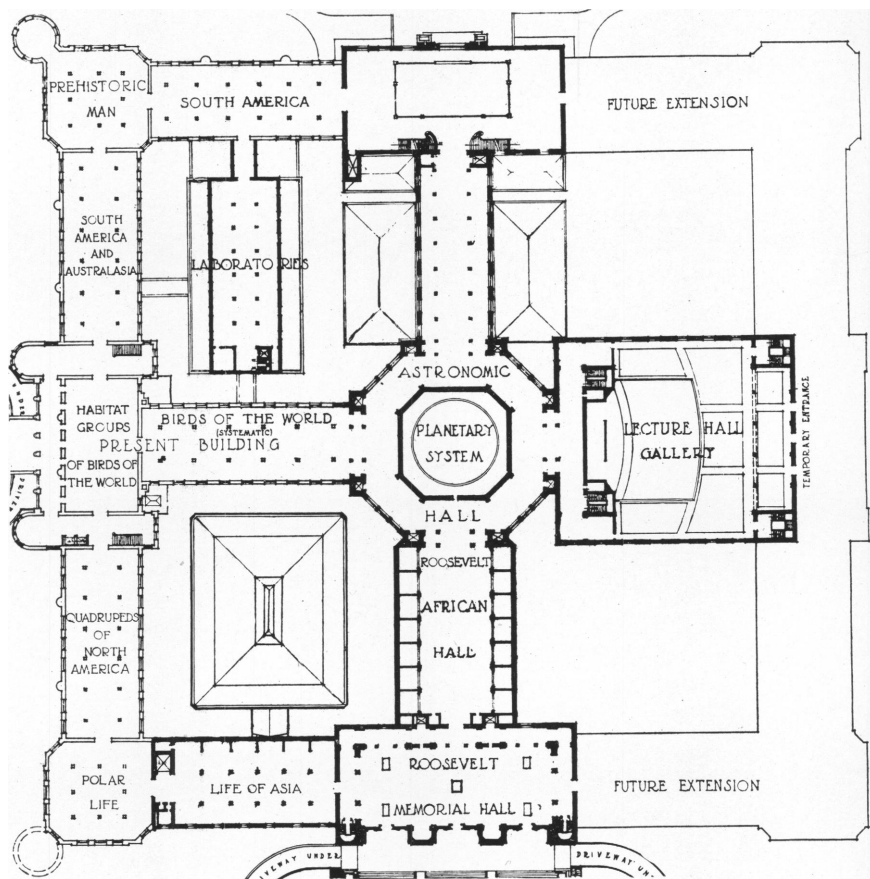
This discussion would seem to be out of place in a report from a museum of natural history, but the museum has to take its part in a nation-wide if not a world-wide movement to restore the primacy of our educational institutions lost through failure to give them adequate financial support.

NINE NEW BUILDING SECTIONS NEEDED

By far the most important financial need in the immediate future of this Museum is money for building. It is fifteen years since the building was enlarged. It is nine years since two new buildings were unanimously approved by the government of the City of New York and an initial appropriation made and then construction suspended owing to the war. As pointed out clearly in the *Fifty-first Annual Report*, the present building, consisting of *eight sections*, is about half as large as we need; more serious than this is the untruthful arrangement of our collections and the false natural history which we are teaching because of the necessity of crowding together exhibitions, collections and subjects which do not belong together and which, in fact, should be very clearly separated.

During the past year the SCHOOL SERVICE BUILDING has been projected to occupy the SOUTHWEST COURT and to meet the needs of the rapidly increasing number of classes of school children who are coming to the Museum, not only from Greater New York but from surrounding cities.¹

¹ This statement is borne out by the actual percentages of increase, which show great advance in the year 1920 over the year 1919.



FLOOR PLAN OF THE AMERICAN MUSEUM OF NATURAL HISTORY AS APPROVED
BY THE TRUSTEES TO APRIL, 1920

PROPOSED ARRANGEMENT OF COLLECTIONS ON SECOND FLOOR

Eight sections completed—dotted lines.

Nine future sections—heavy black lines.

Undeveloped sections, future extension—light lines.

	Percentages of Increase
CIRCULATING NATURE STUDY COLLECTIONS	
Number of schools served	16%
Number of pupils studying collections.....	36%
LECTURES TO SCHOOL CHILDREN	
Number of lectures	29%
Attendance of pupils	50%
LENDING OF LANTERN SLIDES	
Number of schools served	67%
Number of loans to schools	87%
Number of slides circulated in schools.....	100%
CIRCULATING COLLECTIONS FOR LIBRARIES	
Number of libraries supplied	20%
Number using collections.....	30%
EDUCATION FOR THE BLIND	
Number of talks for blind children.....	333%
Attendance	457%
TOTAL NUMBER REACHED BY MUSEUM EXTENSION.....	36%

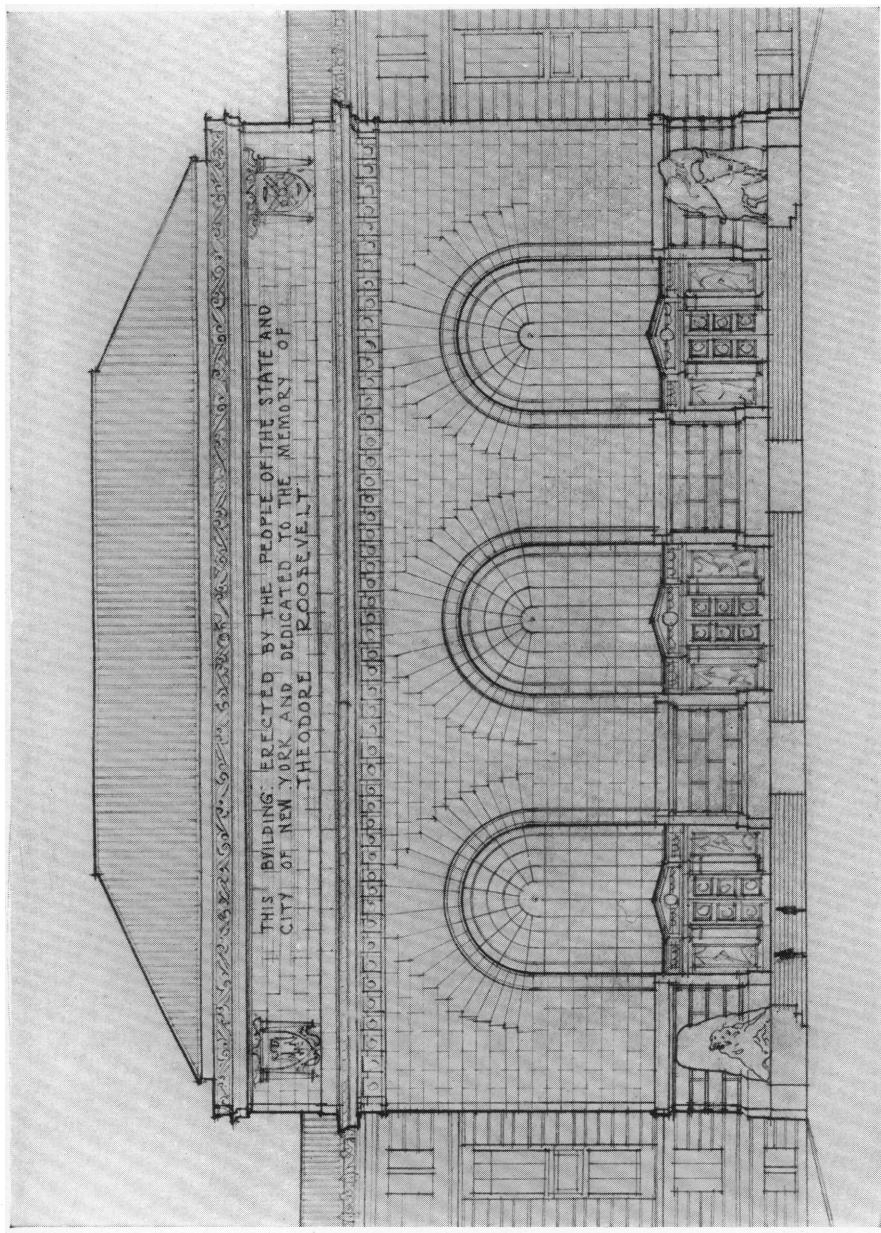
It is proposed to arrange this building especially for school instruction in all the branches of natural history which this Museum touches. Partly to prepare for this, Curator C.-E. A. Winslow has been sent abroad to study what is being done in foreign cities along these lines, especially in the field of public health. The Museum is honored by his selection as General Medical Director of the League of Red Cross Societies at Geneva.

In alcoves surrounding the main hall of the SCHOOL SERVICE BUILDING will be placed a complete exhibit of the natural history of man, from which may be drawn standard material for distribution to the schools, and in these alcoves space will be provided for classes of school children. This adds one section to the Museum building program, which now stands, in order of importance, as follows:

Section number	Space cu. ft.	Estimated cost
9. Asiatic Hall, Southeast Wing....	1,181,000	\$ 944,800
10. Oceanic Hall, Southeast Court....	1,027,000	770,250
11. School Service Building, Southwest Court	1,000,600	650,000
12. Roosevelt African Hall, East Central Wing	1,035,720	673,218
13. Roosevelt Memorial Hall, East Central Pavilion	3,057,600	1,987,440
14. Astronomic Hall, Central Pavilion	2,281,000	1,482,650
15. Aztec Hall, West Central Pavilion	1,046,000	679,900
16. South American Hall, Central West Wing	2,577,000	1,675,050
17. Auditorium, Lecture Hall, Ca- pacity 3,000	1,541,800
		\$10,405,108

The eight sections of the American Museum thus far completed have cost \$5,319,821.48, and the total additional cost of the nine new projected sections will be not less than ten million dollars. As shown in the *Fifty-first Annual Report*, the SOUTHEAST WING (ASIATIC HALL) and the SOUTHEAST COURT (OCEANIC HALL) are the buildings most urgently needed to accommodate and exhibit the invaluable collections which we have been receiving during the past sixteen years. Next in order of urgency by city appropriation is the SOUTHWEST COURT (SCHOOL SERVICE BUILDING). The plans for the EAST CENTRAL WING (ROOSEVELT AFRICAN HALL) and for the EAST CENTRAL PAVILION (ROOSEVELT MEMORIAL HALL) have been completed and presented to the State Roosevelt Memorial Commission, of which President Osborn is Chairman. Plans for the CENTRAL PAVILION (ASTRONOMIC HALL) will be presented to the Carnegie Corporation as affording a great opportunity to make an educational exhibit of the work of the Mt. Wilson and other great American observatories. The completed plans for the WEST CENTRAL PAVILION (AZTEC HALL) were approved by the Trustees in May, 1910. This Hall will house all the collections, presented by the Duc de Loubat and others, of the ancient monuments of Mexico and Central America. It has been decided to devote the WEST CENTRAL WING (SOUTH AMERICAN HALL) also to anthropology in order to complete the geographic arrangement of the collections. The accompanying diagram, lettered to correspond with above description, shows clearly the relation of these nine new building sections to the future design of the Museum.

It is our duty to bring before the people, before the governments of the City and State of New York, and before our Trustees and Members the extreme urgency of more building space. It is with the Museum, as with the schools and colleges which the Museum serves, that every year's delay means a serious spiritual, moral and intellectual loss to this community. The Museum has become an intimate part of the educational system of not only the city but of the entire country. It is estimated that the account and plan of the Third



PROPOSED ROOSEVELT MEMORIAL HALL

CENTRAL SECTION OF EAST FAÇADE

Trowbridge and Livingston, Architects

Plans now before the Roosevelt Memorial Commission of the State of New York.

Asiatic Expedition which were sent out through our Bureau of Public Information reached sixty million readers in various parts of the United States. Newspapers, journals, magazines, weeklies and monthlies, secular and religious, as well as school, college and university text and reference books, depend increasingly on the researches and exhibitions of the American Museum of Natural History for truthful and interesting information about all the processes of nature which bear directly or indirectly on the welfare of man. In the whole history of education there has never been an influence so widespread, so eagerly sought, and so rapidly extending.

It is this school and broad educational work which has influenced the present city government to add to maintenance \$153,000.00 over the sum appropriated two years ago. This is equivalent to the addition of \$3,000,000.00 to the Endowment Fund of the Museum because there is no likelihood that the present total maintenance allowance of \$353,025.52 will be diminished in future years. On the other hand, it will be increased when the new building sections are secured, because it is estimated that each section adds about \$15,000.00 to the maintenance costs. The appropriation for maintenance was adopted by unanimous vote of the Board of Estimate and of the Board of Aldermen. The Museum at present has the unanimous support of members of the Board of Education. There is no doubt that the Museum has never been so firmly established in the confidence and esteem of both the people and the government of the City of New York as at the present time.

TWO MILLION DOLLARS IN NEW ENDOWMENT NEEDED

The present General Endowment Fund of the Museum, which may be devoted to any purpose in the discretion of the Trustees, amounts to \$2,880,580.44. During the present year it will increase to \$3,380,580.44 by the final payment of the Margaret Olivia Sage Bequest, yielding a total income of \$134,541.57. To this General Endowment, which represents the gifts of many devoted friends of the Museum, there must

be added not less than two million dollars to meet the current operating costs of the institution without deficiency. During the past two years the deficiency of \$113,240.77 has been met by individual contributions of the Trustees, amounting to \$55,700.00 in 1919 and 1920, and by the use of accrued interest of the Sage Bequest under the terms of the will to the total amount of \$57,540.77 in 1920. To meet the deficiency in 1921, accrued interest, estimated at \$40,000.00, on the balance of the Sage Bequest, will be used, but this accrued interest will not be available in the year 1922, when the estimated income from our General Endowment and the Sage Funds will be \$134,541.57, leaving an estimated deficiency of \$70,000.00. To prepare for this deficiency it is very important at the present time to use every means possible to increase our General Endowment by adding the sum of two million dollars to it.

The Museum shares with every institution in the United States the *doubling* of costs, which is due ultimately to the doubling of costs of living and to the doubling of wages. The rising costs of maintenance are indicated in the accompanying figures covering the last decade, namely, from 1910 to 1920, inclusive:

Year	Appropriation from General Endowment and from Special Contributions of Trustees	Appropriation by Taxation	Total Appropriations for Maintenance from Taxation, Endowment, Gifts ¹
1910.....	\$196,634.00	\$185,757.00	\$382,391.00
1911.....	218,713.65	189,757.00	408,470.65
1912.....	265,409.86	195,000.00	460,409.86
1913.....	244,414.68	200,000.00	444,414.68
1914.....	213,926.50	200,000.00	413,926.50
1915.....	286,253.36	200,000.00	486,253.36
1916.....	359,836.20	212,999.00	572,835.20
1917.....	494,000.15	212,700.00	706,700.15
1918.....	453,010.13	225,000.00	678,010.13
1919.....	419,366.25	200,000.00	619,366.25
1920.....	551,956.77	310,983.13	862,939.90
	<hr/> \$3,703,521.55	<hr/> \$2,332,196.13	<hr/> \$6,035,717.68

¹ In the *Fifty-first Annual Report*, for the year 1919, it was pointed out that a separate educational tax is very desirable. The existing taxpayers of the City constitute only one-tenth of the entire population of the City of New York, on whom rests directly the whole burden of supporting education, as well as the general welfare of the people. In 1919 there were 578,043 taxpayers in the City of New York out of a total population of 6,006,794. The movement towards a wider distribution of the burden of taxation for educational purposes has made distinct progress during the past year.

The cost of maintenance is rising despite the strictest economy in office administration, in the custodianship of the building, in heating and lighting, in repairs and construction, which constitute the bulk of our maintenance expenditures. Our Chief Engineer, Mr. Henry J. Langham, has an exceptional record in the heating and lighting department; in 1919 the coal bill for light, heat and power was \$11,990.61, including the generation of some four hundred thousand kilowatt illumination and power. In the year 1915 a careful classification of disbursements was instituted in order to keep track of expenditures of every kind. A comparison of the grand totals for the years 1919 and 1920 shows that the increase is due to the rapid mounting in wages and salaries and to the cost of materials. The summary of the detailed division of expenditures is as follows:

I. SCIENTIFIC EXPENDITURES:		1919	1920
1. Additions to collections through purchase and field exploration; salaries....	\$	44,092.76	\$ 65,058.76
2. Scientific staff; salaries of experts and assistants		151,110.56	176,427.81
3. Library: purchase of books; bookbinding; salaries of librarian and assistants.		17,695.91	21,432.91
4. Preparation of exhibitions; mounting; materials used in mounting specimens and exhibits.....		98,628.95	106,709.83
5. Publication of scientific bulletins, memoirs, monographs, and miscellaneous technical papers.....		11,342.99	19,660.57
6. Publication of <i>Natural History</i> , popular guide books and leaflets.....		21,942.92	34,448.68
7. American Museum Press: salaries; materials and supplies; printing of scientific, popular and miscellaneous work...		6,051.14	15,951.73
8. School educational work; special expenses; salaries.....		7,742.95	13,764.46
9. Office supplies; office and scientific equipment		448.34	997.86
		<u>\$359,056.52</u>	<u>\$454,452.61</u>
2. FINANCIAL AND GENERAL ADMINISTRATION:			
10. Salaries of administrative staff.....	\$	74,031.61	\$ 90,713.65
11. Salaries of custodians and attendants..		69,583.38	105,129.33
12. Office Supplies		5,824.35	9,689.36
13. General plant supplies.....		3,414.77	4,466.57
14. General administrative supplies and service; mechanical and office equipment		39,414.97	48,647.94
		<u>\$192,269.08</u>	<u>\$258,646.85</u>
Carried forward			

<i>Brought forward</i>		\$192,269.08	\$258,646.85
15. General pensions and welfare of employees		17,033.43	15,160.96
16. Membership expenses; salaries; cost of lectures and receptions.....		6,965.20	9,366.87
17. Building plans; architect's commissions			3,500.00
		<u>\$216,267.71</u>	<u>\$286,674.68</u>
3. HEATING AND LIGHTING:			
18. Salaries, supplies, fuel, gas, etc.....	\$ 32,774.00		\$ 46,021.33
19. Repairs and construction force: salaries; materials; general repairs.....	4,983.16		7,045.59
	<u>\$ 37,757.16</u>		<u>\$ 53,066.92</u>
4. BUILDING REPAIRS AND CONSTRUCTION:			
20. Salaries; materials; general plant repairs	\$ 34,301.56		\$ 49,839.64
Grand Totals.....	<u>\$647,382.95</u>		<u>\$844,033.85</u>

STUDIES IN THE PRIMITIVE HISTORY OF MAN

The leading anthropological inquiry undertaken by the Museum—the Jesup North Pacific Expedition, begun in 1897—is nearing completion under the editorship of Professor Franz Boas of Columbia University, and the curatorship of Dr. Clark Wissler. The published reports are as follows:

**The Jesup
North
Pacific
Expedition**

JESUP NORTH PACIFIC EXPEDITION MEMOIRS

- | | | |
|------|---------|--|
| Vol. | I, Part | I. Facial Paintings of the Indians of Northern British Columbia. Franz Boas. |
| | | II. The Mythology of the Bella Coola Indians. Franz Boas. |
| | | III. The Archæology of Lytton, British Columbia. Harlan I. Smith. |
| | | IV. The Thompson Indians of British Columbia. James Teit. |
| | | V. Basketry Designs of the Salish Indians. Livingston Farrand. |
| | | VI. Archæology of the Thompson River Region. Harlan I. Smith. |



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DEPARTMENT OF ANTHROPOLOGY

THE WOOING

Painting of Nootka Indians by Mr. Will S. Taylor.

- | | |
|-----------------|--|
| Vol. II, Part | I. Traditions of the Chilcotin Indians. Livingston Farrand. |
| | II. Cairns of British Columbia and Washington. Harlan I. Smith and Gerard Fowke. |
| | III. Traditions of the Quinault Indians. Livingston Farrand. |
| | IV. Shell-Heaps of the Lower Fraser River, British Columbia. Harlan I. Smith. |
| | V. The Lillooet Indians. James Teit. |
| | VI. Archaeology of the Gulf of Georgia and Puget Sound. Harlan I. Smith. |
| | VII. The Shuswap. James Teit. |
| | VIII. The Lower Thompson Indians. James Teit. |
| Vol. III, Part | I. Kwakiutl Texts. Franz Boas and George Hunt. |
| | II. Kwakiutl Texas. Franz Boas and George Hunt. |
| | III. Kwakiutl Texas. Franz Boas and George Hunt. |
| Vol. IV, Part | I. The Decorative Art of the Amur Tribes. Berthold Laufer. |
| Vol. V, Part | I. Contributions to the Ethnology of the Haida. John R. Swanton. |
| | II. The Kwakiutl of Vancouver Island. Franz Boas. |
| Vol. VI, Part | I. Religion and Myths of the Koryak. W. Jochelson. |
| | II. Material Culture and Social Organization of the Koryak. W. Jochelson. |
| Vol. VII, Part | I. The Chukchee. — Material Culture. W. Bogoras. |
| | II. The Chukchee.—Religion. W. Bogoras. |
| | III. The Chukchee.—Social Organization. W. Bogoras. |
| Vol. VIII, Part | I. The Chukchee.—Mythology. W. Bogoras. |
| | II. Mythology of the Thompson Indians. James Teit. |
| Vol. IX, Part | I. The Yukaghir and the Yukaghirized Tungus. W. Jochelson. |
| Vol. X, Part | I. Kwakiutl Texts. Second Series. Franz Boas and George Hunt. |
| | II. Haida Texts. John R. Swanton. |

The completion of these publications was delayed by the World War, which cut off intercourse for several years with Russia, and with Dr. Waldemar Bogoras and Dr. Waldemar Jochelson, who have been two of the most prominent contributors to the series. Arrangements have now been made for the publication of Volume IV, Part II, "The Tribes of the Amur River," by Leo Sternberg; Volume IX, Part II, "The Yukaghir and the Yukaghirized Tungus," by Waldemar Jochelson; Volume IX, Part III, "The Asiatic Eskimo," by Waldemar Bogoras; Volume IX, Part IV, "The Aliut," by Waldemar Jochelson. Volumes XI and XII, as originally planned, are to be combined in one. The results of a study of the human re-

mains collected by the expedition will be presented by Dr. Bruno Oettinger. Professor Boas will discuss the results of the expedition showing the evidences of physical and cultural relationship between the eastern coast of Asia and the western coast of America.

This series, projected under the direction of Dr. Frederic Ward Putnam, will be one of the monuments of President Jesup's intelligence and liberality. The completion of the Jesup series will be followed by the preparation of a handbook on the Indian Life of the North Pacific Coast, by Curator Pliny E. Goddard, in which the results achieved will be condensed into more popular form. This work will describe the collections secured by the Jesup Expedition and the collections made by Lieutenant Emmons among the Tlingit and Tsimshian Indians that have placed our North Pacific Hall in the leading rank of anthropological exhibits.

The continued explorations in the Southwest with the Archer M. Huntington Fund have taken the Museum into an entirely different field of research, the crowning purpose of which is to establish the chronology of the Southwest and the relations between the Pueblo culture of Colorado, New Mexico and Arizona, and that of the Aztecs and Mayas of Mexico. Completion of the reports of the Hyde explorations on the Pueblo Bonito between 1895 and 1900 has been rendered possible through two years' special labor of Mr. B. Talbot B. Hyde of this Museum, who was the chief donor, and the active coöperation of Mr. George H. Pepper of the Museum of the American Indian, who was in charge of the excavations. The publication will be followed by the volume on the great ruined pueblo of Aztec, where the most interesting and important explorations have been conducted for the past four years, with the aid of the Archer M. Huntington Fund, by Mr. Earl H. Morris. Aztec gives more information than we have ever had before, both of the racial characters and of the culture and religious customs of this vanished people.

**The Aztec
Pueblo**

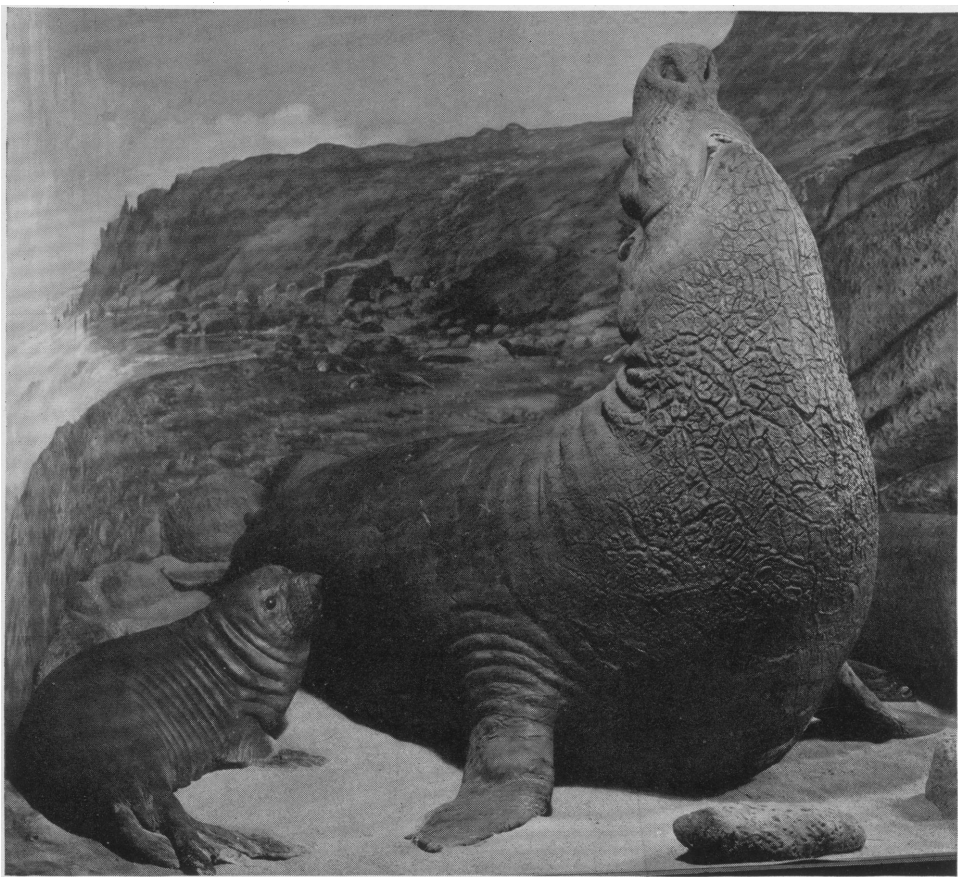
Progress toward exhibition in the Mexican Hall has been made through the preparation of two serpent columns, parts of the great temple façade of Chichen Itza, originally secured for the Museum through the efforts of Colonel Edward H. Thompson in 1912, with the idea that the Aztec Mexican Hall which would contain them would soon be under process of construction. The present Mexican collection has been enriched by the addition of several of the original stone monuments secured by Mr. John L. Stevens, who visited Yucatan in 1839-1840, on a special mission for the United States Government. These were presented to the Museum through the Jesup Fund.

The human history purposes of the Third Asiatic Expedition, under Associate Curator Roy Chapman Andrews, have aroused a wider public interest than any other undertaking of the Museum in recent years. Mr. Andrews himself presented the subject with great ability throughout the country. The possibility of discovering some link or links in the Asiatic ancestry of man, or at least of adding to the history of man in Asia, has stimulated nation-wide interest in this subject and has led to the contribution of nearly two hundred thousand dollars to the Third Asiatic Expedition Fund, the research to be extended over a period of five years and to be published in the *Asiatic Researches* of the American Museum. The American Asiatic Association and the magazine *Asia* have coöperated generously in this work, and through the columns of *Asia* and in the pages of *Natural History* it is planned to make the results of the Expedition very widely known. The splendid zoological collections of the First and Second Asiatic Expeditions will be supplemented by collections from several hitherto unexplored regions on the borders of Mongolia and Tibet, as well as by a trip into the Gobi Desert which is planned through the coöperation of the Geological Survey of China to advance our knowledge of the distribution and succession of the Tertiary beds, and of the Quaternary in which we may expect to find some traces of the prehistory of man. The continued coöper-

ation of the Chinese Government is assured, and one of the chief purposes of the Expedition on our part is to aid in the training of a number of the young Chinese in zoologic, archæologic, and geologic work who will gradually develop materials for an educational natural history museum in Peking. Among the many generous contributors to the Asiatic Fund are the following:

American Asiatic Association and <i>Asia</i>	William A. Harriman (Trustee)
American Museum of Natural History (Jesup Fund)	Arthur Curtiss James (Trustee)
George F. Baker (Trustee)	Mrs. Adrian Hoffman Joline
George J. Baldwin	Darwin P. Kingsley
Mr. and Mrs. Charles L. Bernheimer	Gilbert S. McClintock
George T. Brokaw	J. P. Morgan (Trustee)
Sidney M. Colgate	Dwight B. Morrow
Henry P. Davison (Trustee)	Miss Margarethe Watson Potter
Childs Frick (Trustee)	Mr. and Mrs. John T. Pratt
	John D. Rockefeller, Jr.
	Mrs. E. L. Rosensohn
	Mrs. Willard D. Straight
	Albert H. Wiggin

In recognition of his studies in French archæology and anthropology ("Men of the Old Stone Age"), Professor Osborn has been made a member of the Council of the **Prehistory of Man in Europe** Institut de Paléontologie Humaine of Paris, and a Vice-President of the Eugenics Institute of Great Britain. The preparation and plans of the Hall of the Age of Man have attracted wide attention. In this work our Research Associate, Professor J. Howard McGregor, and our new Curator of Comparative Anatomy, Professor William K. Gregory, have coöperated with Mr. Louis R. Sullivan, making an effective triumvirate on the ancestral history of man. The formation of the Galton Society, which meets in the Osborn Library, for the discussion of problems of human evolution, has brought anthropologists, anatomists and biologists from all parts of the country to counsel on this problem of problems. Out of this has grown the institution of the Galton Laboratory in the Department of Anthropology, and Mr. Sullivan has been made Director of it.



DEPARTMENT OF MAMMALOGY
GROUP OF ELEPHANT SEALS
Gift of Mr. Arthur Curtiss James.

PUBLICATIONS FROM THE VOYAGE OF THE
"ALBATROSS" TO THE GULF OF
CALIFORNIA IN 1911

One of our Trustees, Mr. Arthur Curtiss James, generously contributed \$7,500 to the "Albatross" Expedition, to which the New York Zoological Society and the New York Botanical Garden each added the sum of \$1,000. This has proved to be one of the most successful and effective coöperative undertakings of the Museum in recent years.

Important publications are now advancing towards completion under the guidance of Dr. Charles H. Townsend, Director of the New York Aquarium, leader of this interesting expedition, which left San Francisco on February 23, 1911, and returned on April 28, 1911, on the "Albatross," a vessel placed at our disposal by the United States Bureau of Fisheries. The Bureau of Fisheries desired information respecting the fish and fisheries and the oceanographical features of Lower California and the Gulf region, referring especially to the desirability of further knowledge regarding the supply of edible fishes, oysters and turtles, with the view to inaugurating a fish trade with our southwestern states.

The reports published and in preparation are as follows:

- I. Narrative of the Voyage. By C. H. Townsend. *Bull. Am. Mus. Nat. Hist.*, July, 1916.
 - II. The Northern Elephant Seal. By C. H. Townsend. *Zoologica*, N. Y. Zool. Soc., April, 1912.
 - III. Mammals of Lower California. By C. H. Townsend. *Bull. Am. Mus. Nat. Hist.*, June 14, 1912.
 - IV. Insects. By John A. Grossbeck. *Bull. Am. Mus. Nat. Hist.*, Sept. 13, 1912.
 - V. Echinoderms. By Hubert L. Clark. *Bull. Am. Mus. Nat. Hist.*, July 9, 1913.
 - VI. Shore Fishes. By R. C. Osburn and J. T. Nichols. *Bull. Am. Mus. Nat. Hist.*, May 26, 1916.
 - VII. Birds Collected in Lower California. By C. H. Townsend. In preparation.
 - VIII. Deep-sea Fishes from the Lower California Region. By C. H. Townsend. In preparation.
 - IX. Reptiles from the Lower California Region. By G. K. Noble and Karl P. Schmidt. In preparation.
 - X. Mollusks of the Lower California Region. By Paul Bartsch. In preparation.
 - XI. The Brachyura of the Lower California Region. By Miss Mary J. Rathbun. In preparation.
- Certain species have already been published in the *Bulletin of*

the United States National Museum, in Miss Rathbun's Monograph on the Grapsoid Crabs of America (by special arrangement with Dr. C. H. Townsend).

- XII. The Macrura and Anomura of the Lower California Region. By Waldo L. Schmitt. In preparation.
- XIII. The Isopods of the Lower California Region. By Mrs. Harriet Richardson Searle. In preparation.
- XIV. The Bryozoa of the Lower California Region. By Raymond C. Osburn. In preparation.

To the above list of zoölogical papers is to be added a series of botanical papers, which constitutes a most important contribution especially to our knowledge of the cactus family:

- The Agaves of Lower California. By William Trelease. *Rept. Mo. Bot. Gard.*, 1911.
- Botanical Exploration in Lower California. By J. N. Rose. *Jour. N. Y. Bot. Gard.*, Dec., 1911.
- Monograph of the Huyeæ. By Smith and Rose. *Cont. U. S. Nat. Mus.*, Vol. 16, Pt. 12.
- Mamillaria arida, Rose. *Monatsschr. f. Kakteenkund*, Vol. 23.
- The Cactaceæ. By N. L. Britton and J. N. Rose. Carnegie Institution of Washington Publication No. 248. Vol. I, 1919; Vol II, 1920.

The Museum's collections of birds, of fishes, of reptiles, and of mammals were greatly enriched by additions from this barren and inhospitable peninsula of Lower California. Among the discoveries of greatest interest in the mammalian line was a superb colony, on the Island of Guadalupe, of the northern elephant seal, a group of which has recently been mounted (as shown in the accompanying plate) as the gift of Mr. Arthur Curtiss James, and which ultimately will find its way into the Oceanographic Hall.

PUBLICATION OF THE ZOOLOGY OF THE CONGO

Still more gratifying, because on a very much larger scale, is the rapid progress being made in the preparation and publication of researches covering the great collections made by the Congo Expedition of the American Museum of Natural History, under Mr. Herbert Lang assisted by Mr. James P. Chapin, in the Congo during the years 1909-1915. The entire collection has been catalogued with its invaluable field notes and confirms our earlier report that it is the most complete and most carefully annotated collection which has ever been

brought out of Africa. By our arrangement with the Belgian Government a set of duplicates and paratypes will be reserved for the Congo Museum at Tervueren near Brussels. Further duplications of the collection will be kept for exchange with American and other foreign museums. Immediately after cataloguing, the material was distributed to a number of the most eminent zoölogists in this country, leading experts in their several lines, the remainder being divided among five members of our own staff, namely, Dr. J. A. Allen and Mr. Herbert Lang, for mammals, Mr. James P. Chapin for birds, Dr. Frank E. Lutz for insects, and Mr. John T. Nichols for fishes. The manuscript in every case, instead of lingering, has been prepared with the utmost dispatch consistent with thoroughness, accuracy and breadth of treatment. The printing has been done largely on the new American Museum press and reflects great credit on our superintendent of printing, Mr. Klassen, and his assistants, both for the press and color plate work.

Scientific reports based largely on material brought back by the Congo Expedition have already been published as follows:

- INTRODUCTORY.—One article, 14 pages.
- MAMMALS.—Five articles, 209 pages.
- BIRDS.—Five articles, 68 pages.
- REPTILES.—One article, 240 pages.
- FISHES.—Three articles, 115 pages.
- INSECTS.—Six articles, 687 pages.
- LOWER INVERTEBRATES.—Five articles, 460 pages.
- Total—Twenty-six articles, 1,793 pages.

In addition to these there are in press a report on Crabs by Miss Rathbun and an extensive report on Congo Ants and related subjects by Messrs. Wheeler, Bequaert, Bailey, Mann, and Santschi. Several reports on mammals by Dr. Allen, one on amphibia by Mr. Noble, one on snakes by Mr. Schmidt, one on earwigs by Mr. Rehn, and one on annelid worms by Professor Treadwell have been completed and are awaiting the addition of collector's notes by Mr. Lang. Other reports are in progress. At the same time a popular work is in preparation by Messrs. Lang and Chapin, based upon the less technical scientific researches. When this work appears, the Museum's great undertaking in the Congo, which began in 1909

and thus far has cost \$105,089.52, will be completed so far at least as research, publication and scientific arrangement of the collections are concerned. The preparation of these collections for exhibition in the African Hall awaits the erection of that important wing.

RAPID PROGRESS IN THE STUDY AND COLLECTION OF BIRDS

Ornithology shows the most rapid progress during the last two years under the direction of Curator Chapman. The completion of the *Bulletin* volume by Dr. Chapman on "The Distribution of Bird Life in Colombia," which was awarded the Daniel Giraud Elliot Gold Medal by the National Academy of Sciences for the year 1917, is being followed by his preparation of Volume II on the birds of Ecuador and the coast region of northwestern Peru. Doctor Chapman will visit the British Museum in May to study the collections of birds there, on which a large part of our knowledge of the Ecuadorian avifauna is based, and to make exchanges with the British Museum and with the Rothschild Museum at Tring. It is proposed to devote Volume III of this series on the origin of Andean bird-life to the birds of Chile and of the coast region of southern Peru. This will complete the treatment of the terrestrial bird-life of the Pacific coast of South America.

In the meantime, Dr. Robert Cushman Murphy has been elected an associate of Doctor Chapman on the Museum Staff and is devoting his entire time to the marine birds of the South American coast collected and presented to the Museum through the generosity of two of our Trustees, Mr. Frederick F. Brewster and Dr. Leonard C. Sanford.

No less important for the future of ornithology in the Museum and in this country is the rearrangement of our entire collection of birds from all the continents into a type series and a study and research series. This has occupied the time for nearly two years past of Mr. Miller and Mr. Griscom. The superb collection of North American birds brought together by Dr. Jonathan Dwight will now be arranged in a spe-

cial room. The entire time of Mr. James P. Chapin has been devoted during the past two years to the birds of the Congo, which will constitute one of the volumes of the Congo series. All together the bird collections of the Museum now rank very high in both North American and South American species, and they are beginning to take high rank in African and Eurasian material. A rough estimate of the total number of birds from these continents is as follows:

North America, in the Museum and deposit collections	100,000
South America, interior and Andean series.....	70,000
South America, Brewster-Sanford marine collections.	3,000
Europe and Asia.....	14,000
Africa	9,000
Australia	700

The enrichment of our collections by the donation of the Brewster-Sanford collection of marine birds will be reinforced by the splendid plans for the survey of the Polynesian bird-life under the direction of Mr. Rollo H. Beck, through the generous gift of Mr. Harry Payne Whitney. Doctor Murphy will assume the scientific description of this collection.

DESCRIPTION AND EXTENSION OF OUR MAMMAL COLLECTIONS

For some years the senior member of our Scientific Staff, Dr. Joel A. Allen, has devoted his time chiefly to his own researches on mammals and to the supervision of the able group of younger men whom he has trained in various lines of field and museum work. Fortunately Doctor Allen retains the full measure of his productive energy and enthusiasm, and he has prepared for publication a series of studies upon various mammal groups of the Congo, especially the Insectivora, Sciuromorpha, Carnivora, and Primates. Crowning his long and distinguished career, he has been appointed Honorary Curator, and his curatorial duties have now been divided as follows:

- Mr. Roy Chapman Andrews, Associate Curator of Mammals of the Eastern Hemisphere, assisted by Mr. Herbert Lang on the African collections.
- Mr. Harold E. Anthony, Associate Curator of Mammals of the Western Hemisphere.


The Museum's collection of mammals is naturally richest from North America, but through the Roosevelt and other South American expeditions our South American series is gaining rapidly. Our African series is especially strong from the Congo region, and we are planning to fill gaps in other portions of Africa through field exploration, purchase and exchange. Through successive explorations in the West Indies and on the west coast of South America, Mr. Anthony has greatly extended our knowledge of the former relations of the Antillean region with South America. Through the First and Second Asiatic Expeditions of Mr. Andrews, we are becoming strong in the temperate region of Asia, and the Third Asiatic Expedition will give the Museum a unique representation of temperate Asiatic life. In tropical Asiatic life we are still far behind, and it is necessary to look forward to future exploration in the so-called Indo-Malayan region. The sum of our mammal collections at present from the various continents is as follows:

North America.....	28,200	Europe	550
South America.....	9,000	Africa	7,000
Asia	5,000	Australia	250

This gives the Museum materials for two series of mammals, one arranged geographically in the great faunal halls of North America, Asia and Africa, another series arranged according to the relationships of the mammalian groups.

COÖPERATION AMONG MUSEUMS OF AMERICA

With the famous Bishop Museum of Honolulu, the American Museum, through journeys of the President and of Curator Wissler to the Hawaiian Islands, has established a coöperative research, beginning with the physical survey of the Hawaiian natives by Mr. Louis R. Sullivan. Between three and four thousand dollars have been expended by the Museum on this joint undertaking, as follows:

The President's journey to Hawaii.....	\$1,500.00	
Curator Wissler's journey to Hawaii.....	600.00	
Mr. Sullivan's services.....	1,565.00	

Preliminary conferences by President Osborn with Director Gregory and President Judd of the Bishop Museum paved the way for Dr. Wissler's visit as the American Museum representative at the First Pan-Pacific Scientific Congress in Honolulu, in August, 1920. This was followed by Mr. Sullivan's very able and successful survey, which will be completed in 1921 and published by the Bishop Museum. In return the Bishop Museum will help enrich the American Museum collections in Hawaiian ethnology and archæology and both museums will secure fine material for Hawaiian native groups.

The American Association of Museums, for the present year under the direction of Mr. Paul M. Rea, director of the Cleveland Museum of Natural History, is constantly becoming stronger and more influential. **Exchange of Collections** It serves to spread among museums the idea of friendly coöperation rather than of competition and rivalry. It is inevitable that some museums will become stronger in certain departments than in others and will thus acquire duplicate materials far beyond the needs or possibilities of exhibition. These materials will either remain idle in storage cases, collecting dust, a source of increased expense, or, after being freely used for research, they will be offered in exchange to enrich the exhibition halls of other institutions. This is not only an opportunity, it is a duty to American culture and civilization. Every effort is being made by the American Museum, both in America and abroad, to cultivate the most friendly and reciprocal relations and to spread the spirit of good will, and of sacrifice, if necessary, to send material intrinsically valuable to other museums, where it may be seen and enjoyed by the people. The combined museum attendance of all museums in the United States is still smaller than it should be and represents a very limited part of our total population. The celebration of the Golden Anniversary of our sister institution, the Metropolitan Museum of Art, brought together the directors of the leading museums of the country, and all are agreed that museum coöperation rather than museum rivalry is the note of the coming museum age.

The American Museum of Natural History, in conjunction with certain other museums, is reciprocating with the Buffalo Society of Natural Sciences in the exchange of membership privileges. When a Member of the American Museum visits the Museum of the Buffalo Society and presents his membership card at the office, the privileges accorded its Members will be accorded the Member of the American Museum. This plan, with which we are heartily in accord, was suggested by the Buffalo Society of Natural Sciences, with the hope that such a step would promote the friendly relations already existing between these museums, encourage and stimulate the interest of Members, and serve to increase scientific knowledge.

**Exchange
of Mem-
bership
Privileges**

MEMBERSHIP AND STAFF

At the Annual Meeting of the Board of Trustees, on February 2, 1920, the Department of Ichthyology and Herpetology was separated into the Department of Ichthyology, Associate Curator John T. Nichols in charge; and the Department of Herpetology, Miss M. C. Dickerson in charge. The Department of Mammalogy and Ornithology was separated into the Department of Mammalogy, Dr. J. A. Allen continuing as Curator, and the Department of Ornithology, with Dr. Frank M. Chapman as Curator.

Also at the Annual Meeting the following Research Associates were appointed.

Dr. Raymond C. Osburn, Bryozoa
Frank J. Myers, Rotifera
Dr. William M. Wheeler, Social Insects

On May 19, the Executive Committee granted leave of absence to Dr. Clark Wissler, from September 1, 1920, to June 30, 1921, for pursuing his work as Chairman of the Division of Anthropology and Psychology of the National Research Council in Washington.

At the same meeting, Dr. Karl P. Schmidt was promoted

from Assistant in Reptiles and Batrachians to Assistant Curator in the Department of Herpetology.

On December 15, the Executive Committee granted leave of absence to Dr. C.-E. A. Winslow, that he might take charge of the Health Activities of the League of Red Cross Societies in Geneva, Switzerland, for the year 1921.

At the same meeting, the Executive Committee appointed Dr. Robert Cushman Murphy Associate Curator of the Department of Ornithology, to take effect January 1, 1921.

PUBLIC ACTIVITIES OF THE STAFF

President Osborn was appointed by Governor Smith a member of the Roosevelt Memorial Commission of the State of New York, and at the organization meeting held at the Museum on November 18, he was elected Chairman of the Commission. Mr. George N. Pindar was elected Secretary. President Osborn has also been made President of the Second International Congress of Eugenics, to be held in New York in September, 1921. He has been elected an Honorary Member of the Società Romana di Antropologia at a meeting held in Rome; Vice-President of the Hispanic Society, and a member of the Advisory Committee on the Homelands Exhibit to be held in New York City in 1920 and 1921.

Director Lucas has been made a member of the Committee to consider a memorial to Dr. Henry M. Leipziger, formerly Supervisor of Lectures of the New York City Department of Education.

Dr. Clark Wissler, Dr. Hovey and Mr. Sullivan represented the Museum at the First Pan-Pacific Scientific Conference held in Honolulu in August. Dr. Wissler assisted Dr. Herbert E. Gregory of the Bishop Museum in the preliminary organization of the program for the Congress and was elected permanent Chairman of the Section of Anthropology. He was invited to assume an advisory relation to the Bishop Museum and was made consulting ethnologist in that institution. He then assumed his duties as Chairman of the Division of

Anthropology and Psychology of the National Research Council in Washington.

Dr. Wissler was present on November 5 at the Conference on Scientific Research in the Philippines and Other Tropical Countries, in Washington, as representative of the Division of Anthropology and Psychology of the National Research Council.

Doctors Wissler, Goddard, Lowie and Spinden attended the convention of the American Anthropological Association held in Philadelphia in December.

Dr. Wissler has been elected a member of the Executive Committee of the Institut International d'Anthropologie at a meeting in Paris. He attended the annual meeting of the American Association for the Advancement of Science in Chicago.

Dr. Goddard has been appointed a lecturer on the Columbia University Anthropological Staff.

Dr. Hovey was present as Secretary of the Geological Society of America, at its Chicago meeting in December. He was a representative of the Museum at the Fifteenth Annual Meeting of the American Association of Museums, held in Washington in May. He also served as a Councilor of the American Association of Museums, as a member of the special committee on classifying museum information, and as Associate Editor of *Museum Work*, the official organ of the Association. He is also a Councilor of the New York Academy of Sciences.

Dr. Frank M. Chapman represented the Museum at a conference on Research in Tropical America, held under the auspices of the Division of Biology and Agriculture of the National Research Council, in Washington, in June. Dr. Chapman is a member of the Committee appointed to complete the work of organization of an Institute for Tropical American Research and to provide for its incorporation.

The Thirty-eighth Stated Meeting of the American Ornithologists' Union was held in November at the United States National Museum in Washington. The American Museum was represented by Dr. Chapman, Dr. Dwight, Mr. Miller, Mr. Chapin, Mr. Griscom, Mr. Murphy, Mr. Nichols,

and Mrs. Reichenberger. Dr. Dwight was elected one of the two Vice-Presidents. A vacancy in the body of Fellows of the Union, which is limited to fifty, was filled by the election of Mr. Murphy.

Mr. Sherwood was elected a member of the Board of Directors of the New York State Federation of Workers for the Blind, and a Director of the School Nature League.

Mr. Miner represented the Museum at the meeting of the International Association of Medical Museums at Cornell University Medical College, New York, on April 1. He represented the Museum at the Fifteenth Annual Meeting of the American Association of Museums in Washington in May, and he served as Councilor of the Association, his term expiring in 1920. He continues as the Finance Committee of the Council for publications.

Dr. Lutz presided at the meetings of the Entomological Society of America in Chicago in December.

Dr. Fisher and Dr. Lutz represented the Museum and assisted in the educational work at the annual conference of the American Camp Directors' Association in May, at Greenkill Camp, near Kingston, N. Y. Dr. Fisher had charge of the bird study and Dr. Lutz of the study of insects. The work is done in connection with the Woodcraft League of America.

Dr. Fisher coöperated with other scientists in the fifth annual bird census of the Wyanokie plateau (New Jersey). This work is done annually in selected areas in the country by the United States Government, and a selected group of specialists is invited each year to make the enumeration at the date specified by the government.

Dr. Fisher has been an active member of the committee working to formulate a program of motion pictures on biological subjects to be used by the High Schools of New York City. This committee, to investigate the educational possibilities of moving pictures, was appointed by Mr. Ernest L. Crandall, Director of Lectures and Supervisor of Visual Instruction for the Board of Education of New York City.

Dr. Fisher spent July and August conducting nature study at Camp Wigwam, Bear Lake, near Harrison, Maine.

Dr. Spinden is a Vice-President of the Maya Society, and attended its December meeting at the University Museum in Philadelphia. He also represented the Museum at the Eleventh Annual Convention of the American Federation of Arts, at the Metropolitan Museum of Art, in May.

Mr. Sullivan went to Honolulu in April and has made anthropometric studies on Hawaiian types, in connection with the survey of Polynesia which is being conducted under the direction of Dr. Herbert E. Gregory of the Bishop Museum.

Mr. Chapin has been elected a Trustee of the Staten Island Museum.

Miss Ruth E. Crosby represented the Museum at the Annual Meeting of the New York State Federation of Workers for the Blind, October 15.

In December, Mr. Coleman was appointed Chairman of a Committee of the American Association of Museums to report in Cleveland on a plan of classifying museum information and providing for its distribution.

HOSPITALITY TO SOCIETIES

As for many years, the Museum has welcomed to its auditorium and meeting rooms, a number of educational and scientific organizations, such as the New York Academy of Sciences and Affiliated Societies, the American Association for the Advancement of Science, the Board of Education of the City of New York, the National Association of Audubon Societies, the National Research Council, and others.

Among the Societies that have held meetings, exhibits or lectures at the Museum during 1920, are the following:

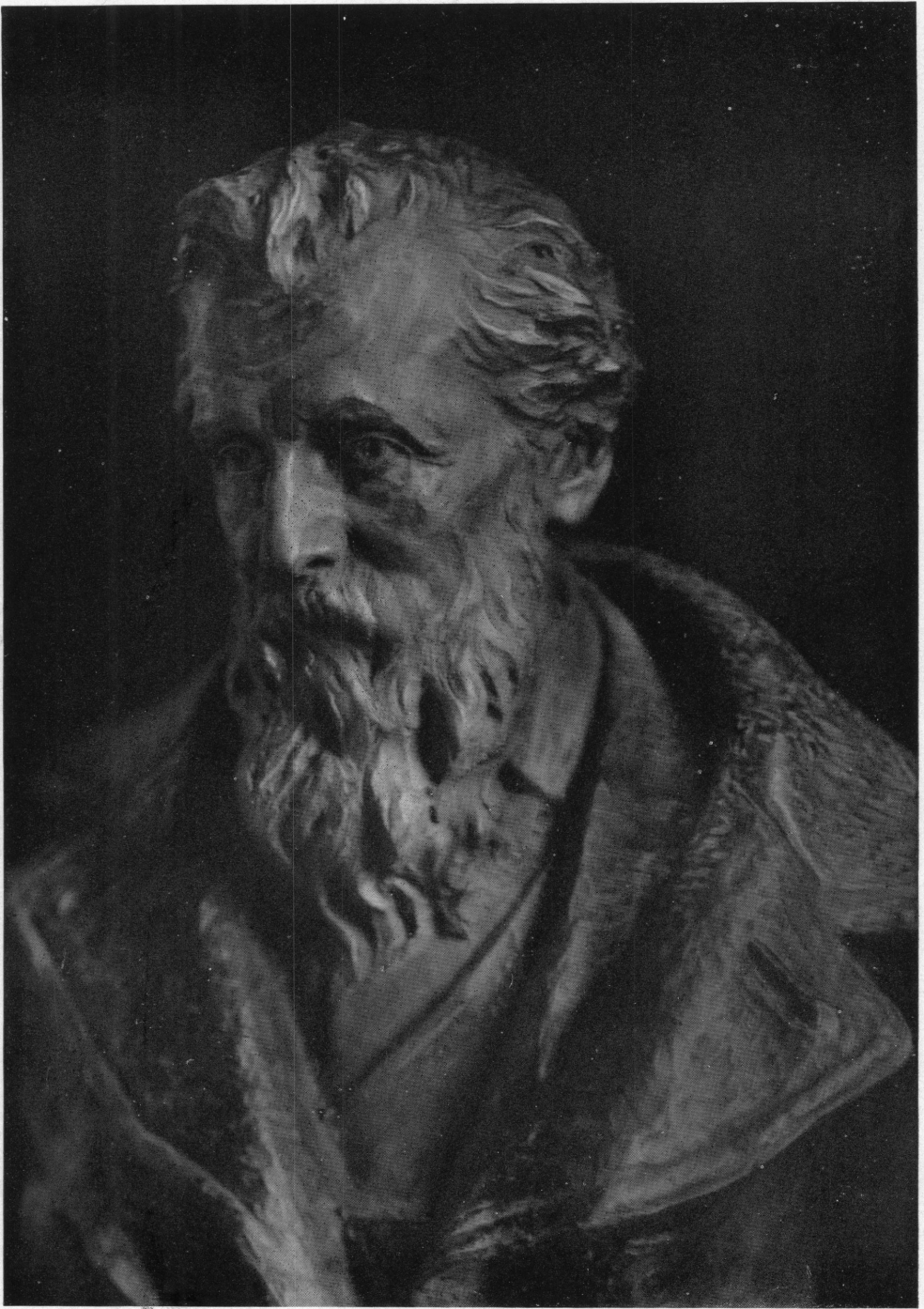
- Aëronautical Society of America
- American Association for the Advancement of Science
- American Ethnological Society
- American Express Company (Travel Department)
- American Red Cross
- American Scenic and Historic Preservation Society
- American Society for the Control of Cancer
- American Society of Mammalogists

American Telephone and Telegraph Company
Andrew H. Green Memorial Committee
Aquarium Society
Board of Education, New York City (public lectures)
Boy Scouts
Boys' Club Federation
City History Club
Columbia University (classes)
Committee on International Catalogue of Scientific Literature
Explorers' Club
Galton Society for the Study of the Origin and Evolution of Man
Horticultural Society of New York
International Sunshine Society, Branch 1
Keramic Society of Greater New York
Linnaean Society of New York
Massachusetts Normal Art School Alumni Association
Music League of the People's Institute
National Association of Audubon Societies for the Protection of Wild Birds and Animals
National Research Council
National Society of Craftsmen
Natural History Club
Nature Study Club
New York Academy of Sciences
New York Bird and Tree Club
New York City Federation of Women's Clubs, Committee on Conservation of Natural Resources
New York Entomological Society
New York Microscopical Society
New York Mineralogical Club
New York Society for Visual Instruction (Committee of the Board of Education)
New York Tuberculosis Association
New York Women's League for Animals, Humane Education Committee
Parents' and Teachers' Association of the Ethical Culture School

Private School Association
Roosevelt Memorial Commission of the State of New York
School Nature League
Second International Congress of Eugenics, Executive Committee
Teachers College Club of Ungraded Class Teachers
Torrey Botanical Club
Western Electric Company
Woodcraft League of America

SPECIAL GIFTS AND ACKNOWLEDGMENTS

The gifts received during 1920 are listed on pages 209 to 228, but we wish to mention here a number of gifts of special interest and value: From Charles L. Bernheimer, an archaeological collection from near Blanding, Utah; from Sydney and Victor D. Bevin, a crystal sphere mounted in bronze, from Japan; Frederick F. Brewster, 3,378 skins of birds, collected by Mr. Rollo H. Beck in South America and West Indies; Department of Commerce, Bureau of Fisheries, St. Paul Island, Alaska; 13 fur seals, from St. Paul Island and St. George Island, Alaska; Julian A. Dimock, 3,874 negatives; Educational Films Corporation of America: 870 feet of positive motion picture films, "The Why of a Volcano"; Dr. George Ellery Hale, 2 photographs of moon taken on September 15, 1919, with 100-inch telescope, at Pasadena, California, and 2 photographs of the sun; Mrs. E. H. Harriman, bronze bust of John Muir, by Malvina Hoffman; August Heckscher, archaeological collection and geological specimens, from Egypt; George W. Korper: collection of American and Oriental Pearl Shells, containing pearlaceous growths, from the United States, South America and India; Mrs. Augustus Kirkham: Mexican blanket, belonging to a notorious Mexican bandit named Vidauri, previous to 1857; Professor A. Lacroix, 125 minerals, from Lower California, France, Madagascar, and other localities; F. J. Myers, 234 slides of Rotifers and other invertebrates, collection of mounted and identified marine algae, a vial of *Plumatella repens*, a Stephenson binocular



DEPARTMENT OF WOODS AND FORESTRY

JOHN MUIR

Bust by Malvina Hoffman.

Presented by Mrs. E. H. Harriman.

microscope and outfit, four additional microscope objectives, and a Rotifer slide cabinet; Commendatore Bartolomeo Mazza (through Dr. George F. Kunz): a specimen of coral surmounted by a statuette carved from hardened indurated clay, from Vesuvius; bas-relief carved on stone from Spalato (Dalmatian Coast), representing bust of Augustus Cæsar, three fragments of stone (Calcare silecio) from Vesuvius eruption of 79 A. D., 9 fragments of stone (*Marna arzillifera*) from the mountains of Avellino and St. Angelo dei Lombardi, 3 B. C., 5 fragments of stone (*Marna arzillifera*) from the mountains of Spalato, 1643 A. D.; John Marshall: horn of Indian rhinoceros presented to Pope Gregory XIV in 1590; from the New York Zoological Society we received important accessions of mammals, birds, amphibians and reptiles; from Mengo L. Morgenthau, cut topaz, 1,463 carats, from Japan; from Colonel J. C. F. Tillson, ethnological specimens from China, Egypt and the United States; from J. M. Vandergrift, English bulldog, champion "Katerfelto," mounted.

Through Secretary Baker, Dr. Crampton obtained accommodations on the United States Army Transport to Guam and thence to Manila. Through Secretary Daniels he obtained a helpful letter to the Governor of Guam. Through Admiral Swinburne, he met and conferred with Captain Roy C. Smith, a former Governor of Guam. Through Mr. Woolcott H. Pitkin, former Attorney General of Porto Rico and later for two years the legal adviser to the King of Siam, he obtained numerous letters to members of the royal family and to officials in Siam. Through President Woodward of the Carnegie Institution of Washington, he obtained personal letters of introduction from the Minister of the Netherlands to the Governor General of the Netherlands East Indies and from the Minister of Siam to a member of the royal family. Secretary Polk furnished letters to the diplomatic and consular officers in the countries visited by Dr. Crampton.

The Governor of Guam, Captain Ivan C. Wettengel, U. S. N., granted to Dr. Crampton many unusual favors, and made it possible for him to proceed to Saipan on a naval vessel, the island being a more northerly member of the Mariana group, in the possession of Japan.

The officers of the Bureau of Science at Manila were most helpful in giving information, and through the Acting Director, Dr. McGregor, a fine series of photographs was secured for the Museum. Dr. F. G. Haughwout expended considerable time and energy on Dr. Crampton's behalf.

Governor Harrison placed a Coast Guard steamer at Dr. Crampton's disposal in order that he might cross Manila Bay to the Mariveles Mountains to see the pygmy natives of that region, but, after landing and starting for the Negrito territory, an accident prevented this.

The Executive Secretary of the Canton Christian College, Dr. James M. Henry, as well as other members of the College, did much to make the time profitable. The zoölogist, Professor Howard, is developing a system of collecting which will be exceptionally successful.

At Chieng-mai, the principal city of northern Siam, Dr. Crampton was the guest of His Serene Highness, Prince Bovaradej, Viceroy of Northern Siam. Numerous favors were extended and Dr. Crampton was privileged to learn a great deal of the Lao people of this region and of their highly developed culture.

The American Presbyterian Mission has Rest Houses at different places on Doi Sutep mountain, and these were placed at Dr. Crampton's disposal. The success of the expedition was due mainly to the aid thus rendered, and we wish to make full acknowledgment to Messrs. McKean, Campbell, Cort, Gillies and Reichel, and to Dr. Barnes of the Rockefeller Commission at work at Chieng-mai. Several of the mission staff are interested in making further collections for transmission to the Museum.

The entomological work in the Rocky Mountains was greatly facilitated by the courteous and intelligent coöperation of the Rangers and other officials of the Forestry Service of the United States Department of Agriculture.

Mr. Herbert F. Schwarz, Mr. Howard Notman, and other members of the New York Entomological Society have kindly assisted in the identification and arrangement of the Study Collection of Insects.

Mr. Alfred Ehrenreich, President of the Ocean Leather Company, generously made provision that our taxidermsit, Mr. J. C. Bell, should be provided with quarters, meals, storage and other assistance at the Company's station at Morehead City, N. C., in order that he might obtain a series of molds of sharks. Mr. A. W. Berner, representative of the Company at Morehead City, kindly made provision for transportation for Mr. Bell and supplies to and from their factory, two miles distant.

Mr. Russell J. Coles contributed material and assistance to the expedition.

President James Asbury Allison, of the Miami Aquarium Association, extended courtesies to Mr. Nichols on his collecting trip in Florida and vicinity.

The Governor of the French possessions of the Pacific Ocean gave to his various representatives instructions to facilitate Mr. Rollo H. Beck's ornithological survey of the Pacific Islands.

The Wai Chiao Pu (Ministry of Foreign Affairs) freely granted permits for the Second Asiatic Expedition to travel throughout China, and extended other courtesies, for which we wish to express our appreciation. The expedition was under the leadership of Mr. Roy Chapman Andrews.

In Peking, His Excellency Dr. Paul S. Reinsch, formerly American Minister to China; Dr. C. D. Tenney, Chargé d'Affaires of the American Legation; Mr. Willys Peck, Chinese Secretary of the American Legation; Mr. Ernest B. Price, Assistant Chinese Secretary of the American Legation, and other members of the Legation staff assisted the expedition in obtaining import permits and in other details connected with the Chinese Government.

Mr. A. M. Guptil acted as the Peking representative of the Second Asiatic Expedition while the expedition was in the field, and assumed much annoying detail in forwarding and receiving shipments of supplies and equipment. Other gentlemen in Peking who rendered assistance in various ways are Commander I. V. Gillis and C. T. Hutchins, Naval Attaché

of the American Legation; Dr. George D. Wilder; Dr. J. G. Andersson, Mining Adviser to the Chinese Republic; and Messrs. H. C. Faxon, E. G. Smith, C. R. Bennett, J. Kenrick, and M. E. Weatherall.

In Kalgan, Mr. Charles L. Coltman, who arranged for the transportation of the expedition to Mongolia, not only gratuitously acted as the expedition's agent, but was always ready to devote his own time and the use of his motor cars to further the work of the party.

In Urga, Mr. F. A. Larsen, of Anderson, Meyer & Company, was of invaluable assistance in obtaining horses, carts and other equipment for the expedition as well as in giving us the benefit of his long and unique experience in Mongolia. Mr. E. V. Olufsen, of Anderson, Meyer & Company, put himself, his house, and his servants at the disposal of the expedition whenever the party was in Urga, and assisted in innumerable ways.

Mr. and Mrs. Oscar Mamen often entertained the members of the expedition in their home. Mr. and Mrs. E. L. MacCallie, who accompanied the expedition on one trip across Mongolia and later resided temporarily in Urga, brought equipment for the expedition across Mongolia and entertained the party while they were preparing to return to Peking.

Monsieur A. Orlow, Russian Diplomatic Agent in Urga, was of great assistance in obtaining permits from the Mongolian Government for the work of the expedition in the Urga region.

In South China, Reverend H. Castle of Tunglu, and Reverend Lacy Moffet planned a hunting trip in Che-kiang Province.

In Shanghai the Honorable E. S. Cunningham, American Consul-General, materially assisted the expedition in the shipment of specimens. To Mr. G. M. Jackson, General Passenger Agent of the Canadian Pacific Ocean Services, thanks are due for arranging for rapid transportation to America of our valuable collections.

The Pacific Mail Steamship Company has been very helpful in the handling of freight for the Third Asiatic Expedition, and has made other concessions, which were of material

benefit. The expedition is under the leadership of Mr. Roy Chapman Andrews.

The Fulton Motor Truck Company has presented the Third Asiatic Expedition with two of its one-ton trucks, which are especially fitted for rough work. These trucks are equipped with pneumatic tires, and have a speed of forty-five miles an hour. They will be used as movable bases for field work in Mongolia.

The Savage Arms Corporation has presented a large number of rifles and a large amount of ammunition to the Third Asiatic Expedition.

The Hunter Arms Company, of Fulton, N. Y., has presented a number of shot-guns to the Third Asiatic Expedition.

We wish to acknowledge the great assistance given to Mr. Anthony and his party by Mr. Frank Cundall, by the various departments of the Jamaica Government, and by the United Fruit Company's representative, Mr. F. G. Kieffer.

At Portovelo, a mining camp of the South American Development Company in the southern part of Ecuador, every facility was given by the Company to our Ecuadorian Expedition under Mr. H. E. Anthony, by means of which the expedition was able to carry on work at a very reasonable expenditure. This assistance also went far toward bringing the efforts of the expedition up to a high degree of efficiency.

The noted American hunter and sportsman, Mr. Walter Winans, died suddenly in London on August 12. Mr. Winans was a Life Member of the Museum. The most noteworthy of his gifts, which were the result of his skill with the rifle, are the group of wild boars from the Black Forest, awaiting a place in the hall devoted to the life of Europe and Asia, and a series of pheasants, illustrating various phases in albinism. His last gift was a specimen of the Chillingham wild cattle, regarded as a survival of the native British oxen.

Mr. Thomas C. White, of Kealahakua, Kona, Hawaii, the agent for the Bishop Estate, traveled for a month with Mr. Sullivan around the islands for his traveling expenses only, and it was through his assistance that Mr. Sullivan was able to examine so many natives in so short a time. He placed at

Mr. Sullivan's service his knowledge of the Hawaiian language, his understanding of the Hawaiian people, resulting from many years of experience, and his great tact and skill in dealing with them.

REPORTS OF THE DIRECTOR AND CURATORS

REPORT OF THE DIRECTOR

FREDERIC A. LUCAS

In the Report for 1919 the President stated that the Museum was going backward; to the Director it would seem that the situation is that of a vessel voyaging through Arctic ice; her progress is impeded; it is not possible to proceed in a direct line, but here and there a lead opens, and by taking advantage of each opportunity that offers, there is steady though slow and indirect progress toward the desired point. Thus it has been with the Museum during the past year; there are many things that we would have liked to do but could not; on the other hand many improvements have been made in all parts of the Museum. For if it be not possible to increase collections on exhibition, it is always possible to improve them by substitution, rearrangement, better methods of display, or, most important of all, by better labeling.

Excellent illustrations of what can be thus accomplished are shown in the various halls devoted to Mammals, where Mr. Coleman has given much time to improving the appearance of the exhibits by changes in installation, replacement of pedestals and changes in the mounting and placing of labels. Much attention has been given to the use of good-sized type and placing labels where they can be seen. Perhaps the most common fault in labels is the use of too small type. It is frequently necessary to sacrifice appearance to utility, but it is a waste of time to write and print a label and then place it where it can be read with difficulty.

It is pleasant to report that the attendance during the past year has been the largest in the history of the Museum; this is especially gratifying as it accords with the Director's belief and experience that any real and permanent gain in attendance must come through the character

Attendance

of the exhibits and not be brought about by special exhibitions and sporadic over-advertising. Judicious advertising is another matter, and this has been quietly and systematically carried on by Mr. Pindar, who has steadily kept the work of the Museum before the public and kept it informed of new and interesting exhibits.

In connection with this publicity work, 47 bulletins were prepared, and a total of nearly 5,000 copies distributed, according to subjects, among 275 names on the mailing list. Besides this, many photographs and much information on special subjects were sent on request.

That there is much of wide general interest is shown by the number of articles that have found their way into papers in all parts of the country, and here we are under obligations to the press for the amount of space it has given in both news and editorial columns.

The large attendance is also gratifying in view of the severe weather of the first of the year and the wretched condition of the streets with the consequent difficulty of getting about and the failure of some street-car lines to run for many days.

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

	1916	1917	1918	1919	1920
Board of Education Lectures	34,421	32,790	21,624	1,191	17,632
Lectures to School Children and Classes visiting the Museum for Study.....	58,842	57,463	21,484	35,221	57,627
Meetings of Scientific Societies and Other Meetings and Lectures.....	28,495	25,549	20,928	21,475	25,491
Total	121,758	115,802	64,036	57,887	100,750
Attendance in Exhibition Halls	725,917	786,151	627,302	810,575	937,265
Total Attendance for all Purposes.....	847,675	901,953	691,338	868,462	1,038,015
Lectures to Pupils in Local Centers	37,400	38,525	19,575	25,575	33,761
Numbers reached by Circu- lating Collections.....	1,118,322	1,104,456	817,610	955,438	1,312,487
Grand Total.....	2,003,397	2,044,934	1,528,523	1,849,475	2,384,263

As was the case last year, the increase in attendance has been accompanied by an increase in the sale of publications, which also reached high water mark this past year. Exclusive of "An Hour in the Museum," 2,400 copies of which were sold, the sales were as follows: *General Guide*, 4,225; *Handbooks*, 1,791; *Leaflets*,

**Sales of
Publications**



THE MUSEUM PRESSROOM

4,542; reprints, 1,129; a total of 11,687 copies, or 2,665 more than in 1919. Part of the large sale of publications is due to the fact that the *Guide* was kept more continuously in print than ever before, but an offset to this is found in the fact that, on account of the amount of printing on hand, it was not possible to keep the *Leaflets* and *Handbooks* as constantly in print as the *Guide*; otherwise the sales would probably have been greater than they were.

The work of the printing office has been, as usual, large and varied. Its efficiency has been increased to some extent by the addition of a second monotype casting machine, and much more by the transfer of the printing office to the basement, thus bringing together the entire force and equipment.

That more labels have not been printed is due to the fact that so many have been provided in the past few years that we are beginning to catch up, though it is safe to say that no museum is ever completely labeled.

Another step which has added greatly to the ability of the Museum to handle its publications promptly and efficiently has been the addition of folding and stitching machines to the bindery—under the charge of the librarian; but, since no addition was made to the bindery force, the amount of work turned out for the library of necessity has been lessened.

Aside from the Scientific Publications, noted in the Report of the Editor, the following have been printed:

	Pages	Copies
General Guide	136	5,000
Indians of the Plains.....	164	2,000
Peoples of the Philippines.....	224	1,000
Animals of the Past.....	250	2,000
A First Chapter in Natural History.....	20	2,000
Our Common Butterflies.....	30	1,000
How to Collect and Preserve Insects.....	21	2,000
Deep Sea Fishes.....	6	1,000
Membership Circular	16	5,000
Museologist (6 issues).....	20	2,100
An Hour in the Museum.....	8	4,000

MISCELLANEOUS PRINTING DURING 1920

	Impressions
Letterheads and stationery.....	124,050
Field and Reserve Collection Labels.....	55,081
Report, Requisition and Other Forms.....	55,450
Catalogue Cards, Tickets to Lectures, Envelopes, etc.	392,643
Programs, Circulars, Invitations.....	143,200
Color Plates	40,000
Circulars and Miscellaneous Small Publications..	14,730
Individual Labels.....	247
Descriptive Labels....	364
	<hr/>
611 (average of 5 each)	3,055
Total	<hr/> 828,209

The mounting of a second male Sea Elephant completes the group of six, as originally planned, and by adapting a case in the Central Section, it has been possible to place **New Exhibits** it on exhibition. The installation of the Group of Sea Elephants, presented by Mr. Arthur Curtiss James, provisional though it be, shows what might be done in the projected Hall of Ocean Life, where it belongs, and for which an equally striking group of Steller's Sea Lion has been planned, though, owing to the congested condition of the exhibits, no steps have been taken to secure the necessary material.

Groups of Coyotes and Wildcats have been added to the series of North American Mammals and a number of single specimens to the Synoptic Series.

Barring accidents, there should be on hand at the close of 1921 the following material for the Hall of Ocean Life: Groups of Sea Elephant, Fur Seals, Harp Seals, King Penguin, and Atlantic Walrus, besides many single specimens of seals, whales and porpoises.

No attempt has been made to mount the skeletons of whales secured by Mr. Andrews, one of which has been lost by fire and others damaged because there was no room to care for them.

A most acceptable addition is a fine bust of John Muir, by Malvina Hoffman, the gift of Mrs. E. H. Harriman.

An interesting painting is that of the natural bridge at Candi, Colombia, noted by Humboldt, given by Mr. H. D. Perrine.

There were no large special exhibits during the year, but there were several small displays of great interest, the most important being that of the wireless telephone installed by the American Telephone and Telegraph Company and the Western Electric Company, under the auspices of the Section of Astronomy, Physics and Chemistry of the New York Academy of Sciences, in co-operation with the National Research Council. Two other exhibitions of particular interest were a series of Museum posters designed by the girls of the Art Class of the Washington Irving High School, and one of posters teaching kindness to animals, prepared by pupils under fifteen—mostly much younger, and shown under the auspices of the Humane Education Committee of the New York Women's League for Animals.

Many interesting exhibits could have been held had space been available, but even the West Assembly Hall, which was used for the exhibition of paintings, is now occupied by exhibits.

The projected School Service Building, Southwest Court, would furnish room for such exhibits, while the space for storage, work-rooms and studios would relieve some sections of the Museum from the congestion now existing.

The amount of electric current used annually continues to increase, and this year totals 407,000 kilowatt hours, which was produced at a net cost of 1.9 per kilowatt hour, a price made possible by the fact that during cold weather the exhaust steam is used for heating the building. The boilers and electric generators are in excellent condition in spite of their age, but the engines are in need of repairs to bring them up to their original efficiency.

Provision was made by the city, in the budget for 1921, for the installation of the much needed panel board for the lighting system of groups, and for the repair of the elevators.

Many repairs have been made to the steam piping and plumbing, which have been in use for many years and are showing the effects of the constant wear to which they have

been subjected. This work is rendered difficult by the fact that the pipes and leaders are built into the floor and walls and are difficult of access.

The Registrar has continued the work of recording and cataloguing the accessions of past years, received before the department was established, and the lists of donors and objects from 1869 to date are now complete.

**Accessions
and
Shipments**

There have been during this year, 3,012 incoming shipments, including 6,693 packages, and 600 outgoing shipments comprising 1,282 packages.

The need of space is repeated for the benefit of those who do not visit the Museum. Those who do, know how aisles are growing narrower and narrower, unrelated exhibits elbowing one another for room, and in some instances specimens swaddled like mummies in protecting cloths decorate (?) the tops of cases. A striking example of this is to be seen in the Hall of Dinosaurs where creatures separated by six millions of years in time are separated by scant six feet of space. The problem is the reverse of that of the Iron Shroud—the walls are not contracting but the collections are continually expanding. The results are the same—deadly constriction.

**Needs of
the
Museum**

A crying need of the Museum is a complete set of window shades. Many of those in use are in tatters and all are in a dilapidated condition. To say that there are 783 windows which call for 1,635 shades will give an idea of the extent of our needs. The amount required to replace these is from \$7,500 to \$9,000.

As a matter of duty, attention is again called to the desirability of a high fence around the Museum, beginning on the north in a line with 79th Street, to protect the grounds so that they may form a proper setting for the Museum.

Playgrounds are necessary for children—but playgrounds and parks cannot exist together, and the grounds in front of the Museum should form a beautiful setting for the building instead of presenting a mass of barren spots and broken shrubs.



DEPARTMENT OF PUBLIC EDUCATION

IN THE AUDITORIUM

Public School Children Listening to a Lecture on Wild Flowers by Dr. Fisher.

PUBLIC EDUCATION IN THE MUSEUM AND IN
THE SCHOOLS *

GEORGE H. SHERWOOD, Curator

The extent of the Museum's services to schools through the Department of Public Education in 1920 is the greatest in the history of the Department. Not only has this educational work been more *extensive*, but more *intensive* than ever before. The old, well established activities (Circulating Nature Study Collections, Lecture Courses, Slide Distribution, Education for the Blind, etc.) have been maintained at full capacity and new lines of contact with the educational system of the City have been developed (Service to the Training Schools, Coöperation with the Bureau of Visual Instruction, New Food Exhibit, and Service to the Art Teachers). The following comparative summary of the statistics for 1919 and 1920 tells the story more graphically than words:

	1919	1920	Percentage of Increase
CIRCULATING NATURE STUDY COLLECTIONS:			
Number of Collections in Use.....	668	887	33%
Number of Schools Served.....	385	448	16%
Number of Pupils Studying Collections..	860,992	1,176,055	36%
LECTURES:			
Number of Lectures to School Children.	90	116	29%
Attendance of Pupils.....	49,162	73,766	50%
Total Number of Lectures, including those to School Children.....	133	149	12%
Total Attendance at All Lectures.....	66,528	88,873	33%
LENDING OF LANTERN SLIDES:			
Number of Schools Served.....	92	154	67%
Number of Loans to Schools.....	1,032	1,933	87%
Number of Slides Circulated in Schools..	58,107	116,342	100%
CIRCULATING COLLECTIONS FOR LIBRARIES:			
Number of Libraries Supplied.....	15	18	20%
Number Using Collections.....	104,567	136,432	30%
EDUCATION FOR THE BLIND:			
Number of Talks for Blind Children....	27	117	333%
Attendance	297	1,656	457%
TOTAL NUMBER REACHED BY MUSEUM EX- TENSION	1,033,094	1,403,016	36%

* Under the Department of Public Education (see also pages 209 to 210).

There are several important factors which have made this truly remarkable record possible. The foremost is the keen, personal interest which each member of the Department has taken in the work and the splendid spirit of coöperation resulting therefrom. A second factor is the generous attitude of the newly organized Bureau of Visual Instruction of the Board of Education, under the direction of Dr. Ernest L. Crandall, and the friendly coöperation extended by Dr. Crandall through his associate, Miss Rita Hochheimer. Dr. Crandall has devoted the energies of his department mainly to increasing the visual instruction apparatus in the schools, leaving to the Museum the supplying of the slides and other illustrative material. A third factor of great fundamental importance is the growth of appreciation on the part of the teachers of the real value of these methods of visual instruction.

A greater number of nature study collections have been in circulation than ever before, and they have been studied by 1,176,055 pupils during the year. The extensive use of this material speaks well for its practical teaching value, since nature study is no longer a required subject in the curriculum and its presentation is dependent upon the interest and initiative of the individual teacher. The loan material is composed of two types of collections: The first consists of birds, insects, lower invertebrates, woods, minerals, etc., of which there are many duplicate sets available; the second consists of material assembled for some specific purpose, i.e., classes in design, historical pageants, etc. Comparison of the statistics for 1920 with those for the preceding four years shows an interesting growth:

	1916	1917	1918	1919	1920
Number of Collections in Use.....	704	712	629	668	887
Number of Schools in Greater New York Supplied	439	446	419	385	448
Number of Pupils Studying Collections.	1,118,322	1,075,076	790,346	860,992	1,176,055

As an aid to the domestic science teachers, an exhibit showing proper daily food for a child has been prepared in conjunction with the Department of Public Health.

Traveling Food Exhibit Twenty duplicate sets have been made. The exhibit consists of models or samples of foods, put up in a small carrying case, and so arranged that they can be assembled to show a proper meal for a child. The food value of each portion is clearly indicated, and the exhibit is further explained by a set of eight charts giving dietary facts and figures. A leaflet prepared by Miss Mary Greig, setting forth fundamental principles of the diet, accompanies each collection. This circulating exhibit was prepared at the suggestion of Superintendent Gustave Straubenmüller, and will be distributed to the schools.

A further extension of loan service to schools is being developed under the advice of Dr. James P. Haney, Supervisor of Art, and a special Committee of art teachers appointed by him. Through their coöperation, certain natural history specimens, especially good as subjects for drawing and other art work, will be loaned to the schools for use in the art classes.

The various lectures for school children given by the members of the Department and those associated with them have been well attended and are increasingly popular.

Lectures for School Children As heretofore, the subjects are designed to supplement the classroom instruction in geography, history and natural science. This year considerable care was exercised to select topics of current or wide general interest. The subjects included "The Story of the Pilgrims," "France and Her Neighbors," "Russia in Europe," etc. All the lectures are illustrated with lantern slides and films.

Continuing the policy of recent years, the Museum has given lectures in four lecture centers and in several of the schools.

**Local
Lecture
Centers**

The most satisfactory center has been maintained in the Washington Irving High School, in coöperation with Miss Florence Slater. This center approaches the ideal. The classes from the elementary schools within easy walking distance come to the auditorium of this high school and the Museum lecturers meet them there. In this way the Museum is brought to children who cannot afford the carfare to go to the Museum. Series of lectures were also given in Public School No. 64, Manhattan, Mr. Louis A. Marks, Principal; in Public School No. 42, Bronx, Mr. Eugene B. Gartlan, Principal; and in Public School No. 30, Bronx, Miss Mary A. Conlon, Principal.

A new line of contact with the schools which bids fair to be the most important of all has been developed through a

**Service to
the Training
School for
Teachers**

series of lectures given by the Museum staff in the New York Training School for Teachers. In this school alone several hundred young women are in intensive training for teachers. The great majority of them enter the New York City System. It is of importance, therefore, for them to become acquainted with the Museum and its educational resources before they take up their profession. The lectures have a twofold purpose: To give the student teachers greater breadth of vision, and to demonstrate how they can use Museum material. A good beginning has been made and we hope and expect that very practical results will follow.

In addition to these regular lecture courses, a considerable number of special lectures have been given at the Museum or in the schools. During Regents' Week in January and in June, large numbers of high school

**General
Lectures and
Summary**

pupils visited the Museum for lectures and laboratory work. In the regular courses of lectures for Members and Children of Members, 16 lectures have been given, with a total attendance of 12,029. The lectures to

school children in the Museum numbered 67, with an attendance of 40,005. Lectures to children outside of the Museum numbered 49, with an attendance of 33,761, making a grand total of lectures to children of public schools of 116, with a total attendance of 73,766. The lectures to private schools and other organizations numbered 17, with an attendance of 3,078. There has been a gain of nearly 29% in the number of lectures given to school children, and a gain of 50% in the attendance over the year 1919.

The lecture work is under the general supervision of the Associate Curator, Dr. G. Clyde Fisher, upon whom the largest burden of lecturing falls.

The most conclusive evidence of the growing appreciation of the real value of visual instruction material is the great increase in the number of slides used in the schools. Although we have been unable to meet all demands, the number of slides circulated has risen from 80,468 in 1919 to 138,133 in 1920, an increase of nearly 72%. A more accurate index, however, is in the separate loans. These have risen from 1,470 in 1919 to 2,435 in 1920, an increase of nearly 66%. This rapid growth may be attributed to several reasons: First, the active coöperation of the Bureau of Visual Instruction under Director Ernest L. Crandall has been an important factor (not only has the Bureau encouraged the teachers to apply to the Museum for slides, but its efforts have been concentrated upon equipping the schools with lanterns, rather than in producing slides); second, the simplicity of the methods of obtaining the slides (Museum messengers deliver the slides and call for them at the end of the loan periods); third, the overcrowding of the schools necessitates the modified Gary plan with an auditorium teacher who lectures with slides; fourth, the great stress that has been laid upon visual instruction methods in recent educational gatherings. The comparative statistics with previous years are given below:

**Lending of
Lantern
Slides**

	1915	1916	1917	1918	1919	1920
Number of Public Schools Borrowing Slides	35	63	84	102	92	154
Number of Other Borrowers	16	30	39	30	72	81
Total Number of Borrowers	51	93	123	132	164	235
Number of Loans.....	196	680	935	1,084	1,470	2,435
Number of Slides Circulated	11,929	38,912	63,111	72,287	80,468	138,133

Again, it has been shown that the teachers find the Lecture Sets with manuscripts great time savers and therefore even more useful than the general slide collections. About 43% of the slides loaned during the year were in these sets. This percentage would have been higher had more duplicate sets been available. As it was, the Department was unable to fill all the requests for several of the sets. Several new subjects have been added recently to the series, namely:

Set No. 27—Russia in Europe—Its Physical Features, by
Alla Kretchman

Set No. 28—Our National Parks, by Grace E. Fisher

Set No. 29—Visiting the Other Americans, by Grace E.
Fisher

Set No. 30—Plymouth and the Pilgrims, by Jannette Lucas

There are thirty prepared lectures, and, as several of these have been duplicated, the total number of sets in circulation is forty-five.

A new edition of the general catalogue of lantern slides was issued in October, 1920. This catalogue gives the different topics in geography, history, natural science, and industries, and the number of slides available under each group.

The lending of slides is the one phase of the Museum's educational work which receives any direct financial support from the Board of Education. In 1920, \$2,000 was appropriated for this work. This is the same amount allowed as in 1916, although the circulation of slides has increased 260%. This appropriation is wholly inadequate, but rather than see the work stop, the Trustees met the deficit for 1920.

**Support from
Board of
Education**

The slide distribution is under the immediate direction of Miss Grace E. Fisher, whose services deserve special commendation.

The work with the blind and sight conservation classes, under the direction of Miss Ruth E. Crosby, has far surpassed its previous records. From the twenty subjects which were offered during the year, an unusually large number of talks were chosen by the teachers, and good weather permitted regular attendance. During the year, 117 talks were given to 17 different classes, with a total attendance of 1,656. This growth is due in part to the organization of new classes in the public schools and the enlarged enrolment of the existing classes.

**Work with
the Blind**

In addition to this work with the public schools, two nature-study classes from the New York Institute for the Blind have been conducted through the Museum halls to study some of the mounted animals.

Both in the public schools and in the New York Institute for the Blind, the children have the opportunity of examining nature study specimens loaned by the Museum. Eleven of the regular sight conservation classes are now provided with large relief globes made by the Museum especially for their use. Thirteen more of these globes are at present being completed to fill requests of other teachers.

The extensive work with the blind is made possible through the Jonathan Thorne Memorial Fund, which provides for running expenses, new equipment, and even the transportation of the classes to and from the Museum talks. In order to coöperate as fully as possible with other agencies, the Museum has recently become a member of the New York State Federation of Workers for the Blind. Mr. Sherwood has been made a member of the Board of Directors as a representative of the Museum.

Another phase of the extension work carried on by the Department is the lending of natural history and geographical material for exhibition in the Branch Libraries of the City. To our list of eighteen regular exhibits, two new ones have now been added, one on "Bird Engineers," showing some of the types of nests with the birds which made them, and one on "Moths of the Limberlost," comprising the life history cases of the moths mentioned in the book of that name. Besides these, to meet special requests, temporary exhibits have been made up and sent out, on Basketry, Pottery, Birds, Moths and Butterflies, and Indians. On April 6, at the Bruce Memorial Library, West 125th Street, a talk was given by Miss Crosby on the Museum's work with the blind. A special collection of material used in teaching the blind classes was loaned to illustrate the talk and afterwards placed on exhibition in the Library. During 1920, 136,432 persons were reached by these collections, an increase of 31,865 over last year.

In connection with these library collections, there has developed a new line of work which holds promise of future growth. During the last year, the time allowed in the schools for the study of geography has been virtually halved. In the effort to impart something besides names and figures in the short time allowed, the teacher in charge of geography classes in Public School 62, Manhattan, appealed to the Museum for the use of its library collections on geographical subjects. These exhibits, together with maps, photographs and slides, give the pupils a conception of different countries and different modes of life which could not be obtained through text-books alone. The extension service to the libraries is under the immediate direction of Miss Ruth E. Crosby.

As the exhibition collections are extended, there is an increasing demand for guidance through the halls. This applies to the general visitors, but especially to classes of school children. Consequently a considerable amount of the time of Department staff members is given to this practical instruction. The bird habitat groups, the Age-of-Man Hall, the Darwin

**Loans to
Public
Libraries**

**Exhibition
Hall
Instruction**



DEPARTMENT OF PUBLIC EDUCATION

THE NATURE ROOM OF THE SCHOOL NATURE LEAGUE IN PUBLIC SCHOOL No. 62, MANHATTAN

The Museum Coöperates With the League in This Work.

Hall, the mammal groups and the Indian collections are especially popular. These special groups visiting the Darwin Hall during the year numbered 579, comprising 17,622 pupils from 253 institutions. Exhibition hall instruction is also carried on through the comprehensive labels of the exhibits which Director Lucas is developing. The importance of this silent instruction is often overlooked. For instance, during Regents' Weeks thousands of high school pupils carry on laboratory and field work in the halls, using the labels as a text-book. The total attendance of visiting classes numbered 33,152.

The photographic work stands as the indirect educational activity of the Department. Through this illustrative material, which is prepared for *Natural History* and other Museum publications, or which is supplied to the Publicity Committee, writers, publishers and lecturers, the Museum is extending its usefulness. The amount of this work is considerable. During 1920, the photographic division produced 2,013 negatives, 16,385 prints, 796 enlargements and transparencies, and 4,494 lantern slides. The reference file has been augmented by 7,626 negatives, including 3,874 presented by Mr. Julian A. Dimock and 2,000 received from Dr. Frank M. Chapman. Our reference file now contains 68,265 negatives and 79,360 catalogued prints.

Early in the year Miss Ruth E. Crosby was promoted from Assistant to Assistant Curator. In November, Miss Helen M. Vreeland, who for nine years had rendered faithful service as Secretary of the Department, resigned, taking with her in her new career the best wishes of her co-workers. Miss Anne E. Bacon was appointed to this position on November 15, 1920.

Although the regular extension work fully occupies the time of the Department Staff, there have been several instances in which the advice and counsel of staff members have been sought by outside organizations. The Curator was elected one of the Directors of the School Nature League with which the Museum has been actively coöperating. The Curator and Associate

Photographic Services

Changes in Staff

Outside Activities of Staff

Curator prepared the Nature Study Section of the handbook of the Girl Scouts, which was published early in the year. This section, which comprises more than eighty pages of the manual, is illustrated largely from photographs of groups and other exhibits in the American Museum.

Dr. Fisher has been an active member of the committee working to formulate a program of motion pictures on biological subjects to be used by the High Schools of New York City. This committee was appointed by Dr. Ernest L. Crandall, Director of Lectures and Visual Instruction for the Board of Education of this city.

During July and August, Dr. Fisher conducted nature study in Camp Wigwam, a large boys' camp located near Harrison, Maine. He also conducted field work in the study of birds at the Annual Camp Directors' Conference in coöperation with the Woodcraft League, in May.

Besides lecturing before many private schools, clubs and other educational organizations, Dr. Fisher spoke before The New York Association of Biology Teachers, The New England Conference of the American Association of Museums, The Women's Auxiliary of the Staten Island Institute of Arts and Sciences, and the New Jersey State Council of Education, on the subject of Visual Education as provided by the American Museum of Natural History, with special reference to the use of motion pictures in teaching biology.

Miss Crosby represented the Museum at the Annual Meeting of the New York State Federation of Workers for the Blind.

During the year a number of gifts have been received, formal acknowledgment for which is given in the complete accession list. We desire, however, to express our indebted-

**Acknowledg-
ments**

ness to the following individuals and organizations that have extended courtesies which have been of material assistance in carrying on the work of the Department: New York State Conservation Commission, for the loan of motion picture films on forest-fire protection and methods of reforestation; J. H. Foster, State Forester of New Hampshire, for the use of material for lantern slides on the White Pine blister-rust; New York Historical Society, for

permission to photograph historical material for lantern slides; Old Colony Trust Company, Boston, and Continental Life Insurance Company, New York, for the loan of pictures for historical lantern slides. Special mention should be made of the gift by Mr. Julian A. Dimock of nearly 4,000 superb negatives of outdoor subjects; of the gift of a reel of motion picture film entitled "The Why of a Volcano," by the Educational Films Corporation of America; and the gift of one reel and two half reels of educational motion picture films from the Bray Studios.

GEOLOGY, GEOGRAPHY AND PAST LIFE OF THE EARTH *

EDMUND OTIS HOVEY, Curator

The rearrangement of the historical and biological series of fossils had advanced so far that in March the exhibition hall was reopened to the public. Four additional up-right cases were prepared to the point of constructing the wire frame for the background for the reception of topogeologic models. The hypothetical land and sea areas have been painted on the eight paleogeographic models of North America.

Exhibition Hall

The core of the White Mountains, New Hampshire, model was finished early in the year and that of the Porto Rico region was prepared. These, together with those of the Mt. Holyoke Range, Massachusetts, region, Watkins Glen region, and Standing Stone, Tennessee, region, which were completed earlier, were put into the hands of Morgan Brothers for modeling, and all five are promised for installation early in 1921. The core of a similar relief model of the Yosemite Valley will be ready for modeling early in 1921.

Topogeologi- cal Relief Models

The arranging and labeling of exhibition specimens has been advanced, particularly in the sponge, coral, graptolite, cephalopod, trilobite, echinoderm and stratigraphic exhibits. Catalogue cards for the pelecypod exhibit have been completed, also for the Schrammen exhibit of fossil sponges in the type series, and progress has been made in carding the Whitfield catalogue of invertebrate fossils.

Labeling and Catalogue Work

The Curator revised and brought up to date, with the help of

* Under the Department of Geology and Invertebrate Palaeontology (see also pages 210 to 212).

Mr. Adam Brückner and the volunteer assistance of Mrs. E. O. Hovey, the card catalogue of the collection of meteorites, and he has begun the task of putting the numbers on the specimens. This work has emphasized the facts that our collection is second only, in this country, to that of the Field Museum of Natural History, Chicago, in regard to the number of falls and finds represented, and that it surpasses all others in some important respects of scientific value and interest.

A paper by Doctor Carlotta J. Maury, entitled "Tertiary Mollusca from Porto Rico and their Zonal Relations," based on our collections, the study for which was completed in 1919, was published in May, 1920, by the New York Academy of Sciences. One by Doctor Marjorie O'Connell, entitled "Jurassic Ammonite Fauna of Cuba," likewise based on our collections, has appeared this year in the *Bulletin* of the Museum. A paper by Associate Curator Reeds on "Mounting Geological Specimens with Sulphur," was read at the annual meeting of the American Association of Museums in May and published in *Museum Work* in November. Dr. Reeds read a paper on "Some Red Limestones from Oklahoma" at a meeting of the New York Academy of Sciences. He has also completed his Bathymetrical Chart of the Caribbean region, which is ready for publication as soon as his accompanying text has been written. The Curator has published some short articles in *Natural History*.

The Curator did field work connected with the preparation of the topogeologic relief models of the Mt. Washington and Mt. Holyoke areas, the Yosemite Valley area, the Standing Stone, Tennessee, area, and the Watkins Glen area. In the Mt. Washington, Mt. Holyoke and Watkins Glen areas, he was accompanied by Mr. Lester Morgan, the modeler. Mr. Morgan also visited the Standing Stone area by himself. The Curator visited the Copper Queen Mine region at Bisbee, Arizona, and made an extended visit to the Hawaiian Islands, where he collected rock specimens and secured a valuable series of photographic negatives on the islands of Kauai, Oahu, Maui and Hawaii.

**Field
Work**

**Publication
and Research**

Associate Curator Reeds, accompanied by Mr. P. B. Hill, did field work on the Helderberg escarpment near Utica, Cobleskill and Schoharie, New York; Palmerton, Schuylkill Haven and Pine Grove, Pa., and on the outliers near Cornwall and Hudson, New York, which resulted in valuable additions to our series of fossils and photographs from those localities.

Assistant Edward J. Foyles spent nine days in field work on the Standing Stone, Tennessee, relief model area and three weeks in studies and collecting in eastern Kentucky.

Dr. Hovey attended the annual meeting of the Geological Society of America in Chicago, in December. He was one of the delegates representing the Museum at the Annual Meeting in May of the American Association of Museums in Washington, D. C., and he was one of the Museum's representatives at the First Pan-Pacific Scientific Conference, held in Honolulu in August.

The seismograph installed here as a deposit by the New York Academy of Sciences has continued under the care of Dr. Reeds, and he has seen to its operation with the help of Mr. Prentice B. Hill. Some good records have been obtained.

Much of Dr. Reeds's time has been occupied in arranging and supervising the work of the assistants engaged on the palæontological collections. He has also selected and prepared certain material for the explanatory and evolution series and attended to other routine work.

The death of Mr. Adam Brückner on the twelfth of December removed an assistant who had served faithfully for many years, first under Professor Whitfield and then under the present Curator. We wish to record here our tribute to him for his constant effort to do his duty to the limit. He learned much about the collections and worked loyally and persistently even when suffering from physical weakness.

Among gifts received, mention may be made of a large lava stalactite from a grotto formed in the 1919 eruption of Kilauea, collected in March, 1920, by Dr. T. A. **Accessions** Jaggar, Jr., and presented by the Hawaii Volcano Observatory, together with other interesting specimens from the volcano.

Noteworthy additions to our meteorite collection are: An 841-gram (1 pound 13.6 ounce) fragment, the largest in existence, of the Colby, Wisconsin, stone; a 96-gram (3.4 ounce) slice of the rare Chinautla, Guatemala, iron, and an 856-gram (1 pound 14.2 ounce) outside slice of the San Cristobal, Chile, iron. Among other purchases we may cite, as being of particular interest, a lava stalagmite from the 1919 Alike flow from Mauna Loa, Hawaii, and a large collection of Upper Silurian fossils from the Island of Gotland collected by Dr. A. Schrammen.

Through Museum expeditions our collections have been enriched by specimens of sundry lava flows in the Hawaiian Islands, collected by E. O. Hovey; invertebrate fossils from Helderbergian outcrops at localities in New York and Pennsylvania, collected by C. A. Reeds; rocks and invertebrate fossils from the vicinity of Monticello, Ky., collected by E. J. Foyles.

MINERALS AND GEMS *

HERBERT P. WHITLOCK, Curator

To answer the question "What is a Mineral?" one side of a large A-case in the Morgan Hall of Minerals has been utilized for the display of a series of twelve group labels.

Special Exhibits

Taken in order, these illustrate, by diagrams and annotated specimens, the extent of the portion of the earth's crust from which we derive our knowledge of its constituents; the proportion of the elements distributed throughout this zone of rocks in the form of minerals; the minerals exhibited in a piece of common granite; the elements which combine to form these, and their relations as constituting mineral groups; how a mineral specimen differs from a rock; what constitutes a mineral vein and how it is formed, and what part water plays in the formation of minerals.

A similar series, in course of preparation, has for its purpose the demonstration of the grouping of particles of matter to form crystals. Both of these exhibits are treated in a popular way, calculated to appeal to the average visitor.

During the year, the Department has contributed two illustrated lectures to the course prepared under the auspices of the Yonkers Board of Education. These were delivered by the Curator, the subjects being "The Water in the Atmosphere" and "Terrestrial Water and Its Work in Forming and Transforming Earth Matter."

Extension Work

The Department has recently been able to add to its negatives available for lantern slides a series showing the methods of polishing diamonds.

* Under the Department of Mineralogy (see also pages 212 to 214).

The research laboratory is now equipped with a Goldschmidt Two-circle Goniometer for measuring crystal angles, and the initial work with this instrument has already demonstrated that there is a considerable amount of material in the Bement Collection which, subjected to crystallographic study, will yield new forms.

Research and Publication

Work on the list of new crystal forms of minerals has been completed. In addition, the Curator has published during the year "A Model for Demonstrating Crystal Structure," *American Journal of Science*, XLIX, pages 259-264, and "The Percentage of Accuracy in Cutting Semi-Precious Stones," *The Jewelers' Circular*, February 4, 1920.

The year has been a notable one with regard to the number and value of the specimens which have been added to the collections through gifts. From a point of view of scientific interest, by far the most important of these gifts consists of a suite of 68 mounts, received through Dr. George F. Kunz from Professor Alfred Lacroix, of the Muséum d'Histoire Naturelle, Paris. These are practically all type specimens of the material described by Professor Lacroix in his monumental work on the Mineralogy of France and Her Colonies, and they include 18 species and varieties hitherto unrepresented in our collections. The Department has also acquired, through the gifts of Mr. Harry F. Guggenheim and Mr. H. C. Bellinger, excellent series of Chilean and Bolivian minerals, including tin and tungsten ore minerals from Caracoles, Bolivia, and Rancagua, Chile; also a beautiful and highly interesting series of 25 specimens of the sulphate minerals of Chuquicamata, Chile. Many of these latter are beautifully crystallized. Dr. Henry Buttgenbach, of Brussels, has presented a specimen of the new lead-manganese oxide Cesárolite from Tunis, which was discovered by him and named after Professor G. Cesáro, of Liège, Belgium. Mr. C. J. Osman has donated a finely crystallized specimen of the rare mineral Inoyite from Hillsborough, New Brunswick, a new locality for this species, which was hitherto unrepresented in the collections. The New York Mineralogical Club has presented a

Accessions

large and handsome crystal of Hornblende from Hardystonville, N. J.

Among the notable additions to the Gem Collection should be mentioned a ball, ten centimeters in diameter, carved from a flawless rock crystal, and mounted on a bronze elephant of Hindoo workmanship, the gift of Messrs. Sydney and Victor D. Bevin. Through the gift of Mr. M. L. Morgenthau, this collection has also acquired a magnificent light blue Japanese Topaz, cut egg-shaped and covered with facets, weighing 1,463 carats. This is the largest cut topaz in our collection. A fine specimen of fire opal replacing wood, from Humboldt County, Nevada, was given by Mrs. W. H. Bliss; and a large and handsome example of Mediterranean coral surmounted by a figure carved from calcareous lava was presented by Commendatore Bartolomeo Mazza, through Dr. George F. Kunz.

EXISTING INVERTEBRATES *

HENRY EDWARD CRAMPTON, Curator

In the latter part of May, Curator Crampton left for a trip of several months through the South Seas and the Far East.

**Field
Work**

Letters and reports recently received indicate that by November he had successfully completed the first stages of his journey. Two months were spent in Guam and Saipan, of the Mariana Island Group, where Professor Crampton made general collections of invertebrates and continued his studies on the land mollusks of the genus *Partula*, which he has pursued in the Society Islands for several years past. He next stopped at Manila, and after two weeks in Luzon, proceeded to Hongkong and Canton, China. Here he delivered a series of lectures at the Canton Christian College. Early in October he arrived at Bangkok, Siam, whence he journeyed five hundred miles northward to Chiang-mai, the principal city of northern Siam. Here he was entertained by the Viceroy of that region, Prince Bovaradej, and had excellent opportunities to study the highly developed Lao people. Several days were spent in collecting in the elevated forests of the neighboring mountains, and early in November he was about to start for the Malay Peninsula and Java. Thence he planned to return home by way of Australia and the Samoan Islands, reaching New York about the middle of February. Professor Crampton writes:

"The contacts that have been established with many men, and several institutions, out here, will prove valuable for the enrichment of our departmental series. The authorities have been most helpful in all places. Various lots of material have been shipped back from time to time, including the Mariana Islands collections, which were the most complete."

One shipment of these collections has been received.

* Under the Department of Invertebrate Zoölogy (see also pages 215 to 218).

During the summer, Dr. Lutz continued his important entomological survey of the region west of the one hundredth meridian, chiefly in the Red Desert and Jackson Hole regions of Wyoming. Collections were also made in Colorado, Idaho, Utah and Indiana, practically completing the survey as planned for Colorado and its immediate borders. The many specimens resulting from the trip have been mounted and for the most part identified, while reports on the insects of the Southern Rockies are in course of preparation. Mr. Watson's field work in Jamaica, mentioned in last year's report, was completed as planned, and the liberality of Mr. B. Preston Clark will make it possible to continue this phase of the West Indian work in Haiti, possibly during the winter of 1921-1922. Mr. Miner's field work during the year has been confined to local collecting, especially in Southern New Jersey, where, with the coöperation of Mr. Frank J. Myers, studies are being made of rotifers for the proposed Rotifer Group.

The new Bryozoa Group, which was practically completed during 1919, was installed early in the year and placed on exhibition the latter part of February. This exhibit, prepared by Messrs. Herman O. Mueller, Show Shimotori and Chris E. Olsen, under Mr. Darwin Hall, Miner's direction, represents two square inches of sea bottom, magnified twenty-five diameters, or more than 15,000 times. It depicts the rich abundance and diversity of the minute animals and plants of the sea bottom.

An exhibit was also installed illustrating the distribution and variation of the land mollusk *Partula*, as exemplified in the Pacific island, Tahiti, of the Society Group. The mollusks of this genus are abundant in the numerous valleys of the Island, where, through isolation, varieties peculiar to certain areas have been evolved. The exhibit consists of a large relief map of Tahiti, with mollusk specimens representing the range of variation, displayed in their appropriate valleys. Two stages in the subsidence of volcanic islands and the evolution of the coral atoll, according to Darwin, are also illustrated by this relief map, in connection with a second, modeled to show the islands of Raiatea and Tahaa, also of the Society Group. The



DEPARTMENT OF INVERTEBRATE ZOOLOGY

DETAIL OF BRYOZOA GROUP, WHICH SHOWS TWO INCHES OF SEA-BOTTOM HIGHLY MAGNIFIED

exhibit is based on the researches of Professor Crampton in the South Pacific Islands, and was installed under his direction. Considerable progress has been made on the new Sound Bottom Group, which will show the crustacea of Vineyard Sound, at Gay Head, Massachusetts. Work on the proposed Rotifer Group, which will represent, highly magnified, the interesting "wheel-animalcules" of fresh water, has progressed satisfactorily. This work is being carried out by Mr. Miner, with the coöperation of Mr. Frank J. Myers, who has placed his detailed and expert studies on rotifers at the service of the Museum, and has freely and materially assisted in many other ways toward the success of the group. Two beautiful models of highly magnified radiolarians have been executed in glass by Mr. Herman Mueller and added to the protozoan series. Several other individual items are in progress. The remodeling of the museum cases has gone forward, ten being completed, and it is planned to include the rest of this work in a comprehensive scheme embracing the entire east end of the Hall.

During the year 1920, there has been a striking increase in the use of the Darwin Hall by schools and higher educational institutions of New York and its vicinity. A total of 17,622 pupils studied the exhibits in this hall, under the direction of their teachers, in 519 classes from 253 institutions. Of these, 182 are public institutions, 51 private, 14 parochial, and 6 are colleges; 151 are located in New York, and 102 are out of town. Many of the New York schools have included the study of the Darwin Hall exhibits in their regular curriculum.

Very satisfactory progress has been made on the study collections of invertebrates. Dr. Van Name has devoted several months to the identification and rearrangement of the Echinoderm collections, which have greatly increased during recent years. This important work has been done with great care and faithfulness. The Echinoidea have been completed, and good progress has been made with the Asteroidea. Mr. Frank J. Myers has liberally contributed his expert work to the rotifer

**Educational
Work in the
Darwin Hall**

**General
Invertebrates
Collection**

collections, which now number about four hundred species of excellently mounted material. Through his generosity in adding to the collection, he is rapidly making it one of the most important in the country. Mr. Myers has also presented to the Department a complete Stephenson binocular microscope outfit, especially adapted for this work, and a slide cabinet for rotifers, of the most recent make.

Mr. Arthur P. Jacot continued his work on the catalogue of the mollusk collections until he left for China in August. During the two years that Mr. Jacot was with us,

**The Mollusk
Collections**

he catalogued more than 20,000 sets of shells, entailing the writing of 20,000 special catalogue cards, the examination and handling of the shells concerned, and the rearrangement of the collection both in the exhibition cases and in the study collection drawers. In addition to this work, a separate record was made for each item in our reference catalogue, which indexes the entire series, and has involved the writing of 8,000 cards over and above those in the main series.

As the result of his work we may now consider the Marine Gastropod collection completely catalogued. This achievement is especially noteworthy as the part known as the Steward Collection, which has never before been exhibited, proved much larger than was expected and took the greater part of Mr. Jacot's time during the elapsed portion of the present year.

The collection has been consulted by a number of scientists during the past year, and our attention has been called repeatedly to the value of certain parts of our series.

The Lamellibranchs and the Land Shells remain to be done, and a revision of the synonymy on cross reference cards is necessary.

The study collection of insects has been greatly improved during the past year by the completion of the task of assembling the type specimens in special fire-proof and pest-proof cases. The work of arranging the

**Insect
Collections**

Identification Collection is progressing satisfactorily. The Identification Collection is limited to a few speci-

mens of each species, so that a student wishing to identify an unknown insect may glance quickly over many already named species. It also becomes, by means of cross-reference labels, an index to the collections as a whole. During the past summer, Messrs. Watson, Coleman and Operti collected material, accessories and sketches for a number of habitat groups of local butterflies. There are special difficulties in the way of successful insect habitat groups, but we believe that these difficulties can be overcome, and if so the groups will be both interesting and instructive.

Professor Crampton has continued his researches for the distribution and variation of *Partula*. Mr. Miner has made progress with his "Synonymy of American Myriapods," assisted by Miss Anita Ohrtmann. Dr. **Research and Publication** Van Name has continued his investigations on the "Ascidians of the West Indian Region," the results of which are now in press. The following papers, published in the *Bulletin* during 1920, indicate the scope of scientific research in the Department.

"Parasitic Copepods from the Congo Basin," by Charles Branch Wilson; "Isopods Collected by the American Museum Congo Expedition," by Willard G. Van Name; "Amphipods Collected by the American Museum Congo Expedition, 1909-1915," by Clarence R. Shoemaker; "Some Studies on the Biology of the Aquatic Hydrophilidæ," by E. Avery Richmond; "New Species and Synonymy of American Cynipidæ," by Alfred C. Kinsey; "Life Histories of American Cynipidæ," by Alfred C. Kinsey; "Phylogeny of Cynipid Genera and Biological Characteristics," by Alfred C. Kinsey; "Additions to the Ant Fauna of the West Indies and Central America," by William M. Mann; "Notes on American Lepidoptera, with Descriptions of New Varieties," by Frank E. Watson and William P. Comstock; "Report on the Lepidoptera of the American Museum Expedition to Arizona, 1916," by William S. Wright; "Some Neotropical Meliponid Bees," by T. D. A. Cockerell; "Notes on the Distribution and Bibliography of North American Bees of the Families Apidæ, Meliponidæ, Bombidæ, Euglossidæ, and Anthophoridæ," by Frank E. Lutz and T. D.

A. Cockerell; "Staphylinidæ from Florida in the Collection of the American Museum of Natural History, with Descriptions of New Genera and Species," by Howard Notman; "Tipulidæ Collected by the American Museum Congo Expedition," by Charles P. Alexander; "Neuroptera, Panorpatæ, and Trichoptera Collected by the American Museum Congo Expedition, with Lists of the Species Known from the Belgian Congo," by Nathan Banks; "African Stone-flies and May-flies Collected by the American Museum Congo Expedition," by James G. Needham; "Lepidoptera of the Congo, Being a Systematic List of the Butterflies and Moths Collected by The American Museum of Natural History Congo Expedition, Together with Descriptions of Some Hitherto Undescribed Species," by W. J. Holland; Dr. Lutz has also published several articles on insects, one in coöperation with Mr. Watson, in popular magazines.

Papers in press are: "Budding in Compound Ascidians and Other Invertebrates, and Its Bearing on the Question of the Early Ancestry of the Vertebrates," by Willard G. Van Name; "Ascidians of the West Indian Region and Southeastern United States," by Willard G. Van Name; and a very complete treatise on Congo ants, by Professor Wheeler and collaborators.

Among the important accessions of the past year are the following: About 12,000 insects, spiders, etc., collected by

Accessions Dr. Frank E. Lutz, in Wyoming and neighboring states; 2,500 insects, spiders, etc., a gift from Mrs. F. E. Lutz; a large collection of invertebrates, chiefly insects, collected by Mr. Frank E. Watson in Jamaica; 234 mounted and identified rotifers, protozoa and other invertebrates, 95 mounted and identified algæ, a Stephenson binocular microscope outfit and a rotifer slide cabinet, all the gifts of Mr. Frank J. Myers; a valuable collection of pearl shells and pearly growths, presented by Mr. George W. Korper; 269 ascidians received in exchange from the United States National Museum; and a collection of shells, including paratypes, received in exchange from Mr. A. A. Hinkley.

Much to the regret of the department, Mr. Arthur Jacot has severed his connection with the Museum to accept a post at the Shantung University in China. Mr. Show Shimotori is on an extended leave of absence in Japan; Mr. Arnold Olsen has been acting as assistant modeler; and though not on the regular staff, Mr. Herbert F. Schwarz, has, throughout the year, given very freely of his time to the Section of Insects, as a volunteer assistant in the preparation of a paper on bees, with especial reference to those in the Colorado region.

**Changes
in Staff**

RECENT AND EXTINCT FISHES *

BASHFORD DEAN, Honorary Curator

JOHN T. NICHOLS, Associate Curator of Recent Fishes, in Charge

In July and August, Mr. J. C. Bell of the Department of Preparation spent several weeks at Morehead City, North Carolina, close to Cape Lookout, obtaining plaster molds of sharks and rays for exhibition. The Ocean Leather Company courteously furnished him with facilities and material for this work. Dr. Russell J. Coles, who was fishing at Cape Lookout, also contributed material, and the opportunity was an exceptional one for securing these great fishes for the Museum. Dr. Coles, a Member of the Museum, was largely instrumental in arranging for Mr. Bell's trip, which proved very successful. It will now be possible to place on exhibition a large Tiger Shark, finer than anything of the sort now in the Museum. Besides exhibition material, skeletons, a series of shark jaws for purposes of study, and interesting observations, notably on stomach contents, were obtained. This is the most important accession of exhibition material during the year. Limited space has left little room for placing more fishes on view; several desirable specimens are now held in reserve until there be opportunity to show them to advantage, and attention has been given mainly to the study collections.

An important collection of marine fishes, obtained in Peru by Dr. R. C. Murphy, has been received; Dr. Barton W. Evermann of the San Francisco Museum secured some material for this Museum in the Honolulu market; Mr. Harry R. Caldwell is collecting fresh-water fishes in China. The fresh waters of China contain a large variety of interesting fishes, but collections of them are so small and scattered that their systematic study is extremely difficult. It is hoped that a suffi-

* Under the Department of Ichthyology (see also pages 218 to 219).

ciently large and comprehensive collection will be obtained incident to general zoölogical work in Asia which Mr. Andrews has in view, to make possible a more satisfactory treatment of the subject; Mr. Clifford Pope, who will accompany the proposed Asiatic Expedition, will pay especial attention to freshwater fishes.

A new ventilating apparatus has been installed in the basement store-room for study collections, which has greatly improved working conditions there. The laboratory assistant (Mr. Fred Kessler), in addition to routine work necessary for care of the increasing material, and preparation of study skeletons, has been occupied in cleaning shark jaws brought back by Mr. Bell, and in working up fossil material from Cuba collected by Mr. Barnum Brown which Dr. Gregory has agreed to examine.

Work on the "Bibliography of Fishes," which has so long occupied an extensive part of the interest of this department, has been continued throughout the year under the general supervision of Dr. Bashford Dean. The Addendum, consisting of titles not included in the previous volumes by reason of the great amplification and extension of the scope of this work, and including about forty-five hundred additional titles, is now in press.

The section relating to Pre-Linnæan works, compiled and edited by Dr. E. W. Gudger, including all the literature concerning fishes from the earliest times to the publication of the "Systema Natura" of Linnæus in 1758, is likewise in press. This will be of especial interest to students of the origin and development of our modern conceptions of the science of ichthyology. About twenty-three hundred titles are included, with an accurate compilation of their various editions.

The final preparation of the Subject Catalogue, in preparation by Mr. Arthur W. Henn, is necessarily dependent on the completion of the above parts. A number of forms have been set up in order to determine the typographical composition of this part, and to solve the necessary mechanical details. Sections relating to palæontology and fauna, comprising a stratigraphical and geographical arrangement of the fauna of the

**Research and
Publication**

world, and occupying the largest single portions of this section, are ready for the press.

Progress has been made in revisional work on the subfamily of marine fishes known as Crevallies, including publication of the following papers by J. T. Nichols: "*Hymnis* and *Alectis* in the American Museum of Natural History," and "A Key to the Species of *Trachurus*" (in the *Museum Bulletin*); "On the Genus *Citula*," "*Caranx bartholomaei* and *ruber*, compared," "*Caranx crysos*, etc.," "On the range and geographic variation of *Caranx hippos*" and "The Phylogeny of Carangin Fishes" (in *Copeia*); "*Caranx guara*," figured, in *Forest and Stream*. Two papers have been published describing new species and a new genus in the collection of Catfishes loaned by the Museu Paulista, São Paulo, Brazil. These papers are in English and in Portuguese. Collections from Bermuda and Turk's Islands, received in 1919 from Mr. L. L. Mowbray, have been studied. The former has been published on, and a paper on the latter in the *Museum Bulletin* is now in press. A faunal analysis of Dr. Murphy's Peruvian material is under way.

Mr. Van Campen Heilner of Spring Lake, New Jersey, an ardent rod and reel fisherman, spent a month at the Museum compiling a list of record size fishes which was published (*Field and Stream*) in 1920. This is merely a beginning in the accumulation of data of much interest to sportsmen, and it is hoped to continue the work in the future. As usual, some attention has been given to the study of the local Ichthyfauna. The Department from time to time has been in touch with various persons interested in it, more particularly with Mr. Roy Latham of Orient, Long Island, who each year submits a summary of his observations for revision before publishing them, and presents his rarer specimens to the Museum. The Associate Curator made a trip on the Aquarium's collecting boat in July and has recently visited the Aquarium to study the living fishes there and correlate such observations with those on Museum material. Popular articles on local fishes have been published as follows: "An Afternoon on the *Sea Horse*," "True or Long-finned Albacore," and "Finding Fishes on the Beach" (*Forest and*

Stream). Among other publications by members of the department staff are "The Puffer Fishes and Some Interesting Uses of Their Skins" (*Bull. N. Y. Zool. Soc.*), and "A Third Capture on the Florida Coast of the Whale Shark, *Rhineodon typus*" (*Science*), by E. W. Gudger.

EXISTING REPTILES AND AMPHIBIANS *

G. K. NOBLE, Assistant Curator, in Charge

The study collections have grown rapidly during the year, and, while the increase has fallen a little short of the excellent record made during the preceding year, 3,571 specimens were received and catalogued. In addition, a collection of nearly a thousand specimens has arrived too late to be accessioned and included in the total number. Only a very small part of this material has come to the Museum through purchase, 1,309 specimens having been received as gifts. These specimens came from China, Australia, Spanish Guinea, Cuba, Jamaica, Brazil, and various parts of the United States, special effort being made to secure neotropical material. In some cases a small amount of money was advanced to meet the expenses of the collectors.

**Growth of
Collections**

Effort has been made to bring the Department into closer relations with other institutions through exchange of material, and thus 1,943 specimens have been received. Several Museums in South America, the Institute of Comparative Anatomy at Genoa, the Museum of Comparative Zoölogy at Cambridge, the University of Colorado, and Princeton University have been the most generous contributors. More than a thousand specimens have been loaned the Department for study and identification, many of which it is hoped will be retained permanently. These specimens have been sent through the courtesy of several institutions, chiefly the United States National Museum, the Museum of Comparative Zoölogy and the Brooklyn Museum. Return courtesies in the form of loans have been extended to the two former institutions and loans have been made to the Carnegie Institution of Washington and Oberlin College.

No extensive field work was undertaken during the year,

* Under the Department of Herpetology (see also pages 219 to 221).

save that of Mr. Paul Ruthling in Mexico, which was continued until October. Mr. Elwood Johnson spent several months on the Atrato River drainage in Colombia and devoted all of his time to collecting reptiles and amphibians. Local field work was continued throughout the summer by various members of the Department. A permanent file for local field observations has been established, which will serve as a depository for field notes made not only by the members of the Department but also by other observers.

Field Work

A study of the bony and cartilaginous structures of reptiles and amphibians presents many difficulties, especially because of the small size and fragile nature of the material. Rapid strides have been made during the year in perfecting a technique by which specimens of any size may be depigmented, decolorized, and cleared by a single process. Differential stains have been used with success to bring out more clearly the bony structures. This clearing method as now perfected is so much simpler, quicker and more exact than the various skeletonizing methods that there can be no doubt as to its future usefulness. During the year, one member of the Department has cleared without serious interruption to his other work forty-four salamanders, three frogs, and fifty-seven lizards. The total expense of clearing these hundred and four specimens did not exceed ten dollars, which is about half the price demanded by most technicians for skeletonizing a single specimen. The great advantage of the clearing over the dissection method is the absolute freedom from loss, breakage, and disarticulation of parts.

Osteological Collections

Four skeletons were prepared by the ordinary methods. These will probably be used for exhibition.

A new tray system for the storage of study material was inaugurated towards the close of last year, and the entire amphibian collection is now installed in trays, which facilitate rapid handling. The entire reptile collection has been checked over during the year and all the identified material on the storage shelves labeled.

Care of Collections

The card catalogue of species has been completed for the lizards and snakes, but the collection of amphibians, numbering 13,400 specimens, still remains to be thus recorded, though duly entered in the current catalogue. There still remain to be transferred to the new books the data for the 18,108 catalogued reptiles in the Museum.

The Bull Frog Group has been repaired, and several of the other groups renovated. A gigantic specimen of the Alligator Snapper has been prepared and very soon will be installed in one of the floor cases. The entire synoptic series has been rearranged and temporary labels written for all the specimens. A number of casts were made for use in exchanges with other institutions.

The work of Mr. C. L. Camp on the "Myology and Osteology of the Lacertilia" was continued throughout the year and nearly brought to completion. It will be illustrated by forty-eight plates of Mr. Camp's more important dissections.

The work of Mr. K. P. Schmidt was unfortunately brought to an early conclusion in July, when he left the Museum on an extended leave of absence. The first report on the results of his work in Porto Rico appeared in September (*Annals of the New York Academy of Sciences*, XXVIII, pp. 167-200, figs. 1-9). This paper is but an abstract of a more extensive account which Mr. Schmidt has in hand. Three brief papers by Mr. Schmidt (*Proceedings of the Linnaean Society of New York*, XXXVIII, pp. 1-8) on West Indian herpetology have appeared, giving descriptions of several important new species. Two other short papers were published in *Copeia* (No. 82, pp. 41-42; No. 86, pp. 84-85). These latter papers deal with the distribution of *Bufo fowleri* and the common name of *Amphiuma*, respectively. Another paper by Mr. Schmidt, entitled "Notes on the Herpetology of Santo Domingo," is in press and will be published soon in the *Bulletin*.

The Assistant Curator published during the year a paper on some new species of frogs from Colombia (*Bulletin*, XLII, pp. 441-446), including one very interesting new genus. Two

short papers by him have appeared in *Copeia* (No. 79, pp. 16-18; No. 88, pp. 98-100). The first of these papers is a note on *Babina*, the dagger-frog, and the second is on the breeding of the Milk Snake. A fourth paper, on "The Anterior Cranial Elements of *Ædipus* and Certain Other Salamanders," is in press and will appear very soon in the *Bulletin*. Another paper, on "Some New Lizards from Northwestern Peru," has been submitted to the Editor of the *Annals of the New York Academy of Sciences* for publication. A report on the amphibians and reptiles from southern Peru, published jointly with Dr. Thomas Barbour, appeared towards the close of the year. A paper to be published jointly with Dr. Gregory has been completed. It deals with the homologies of the alisphe-noid bone throughout the vertebrate series. Finally, a rather extensive paper on the osteology and phylogeny of four genera of lizards—one new to science—is nearly complete and will probably be published in the *Bulletin*.

The two papers on Congo herpetology, of approximately 400 typewritten pages each, mentioned in last year's report as ready for publication, were placed in the hands of the committee in charge of the Congo reports.

BIRDS *

FRANK M. CHAPMAN, Curator

The year 1920 has been marked by great progress and even greater promise in the work of the Department of Birds. Both in the field and in the study, the members of our staff have labored with enthusiasm and efficiency, and, thanks to the coöperation of patrons of the Museum, we have been able to inaugurate plans for exploration and research of far-reaching importance.

On September 13, Mr. Rollo H. Beck, accompanied by Mr. E. H. Quayle, as assistant, sailed from San Francisco for Tahiti to begin a five years' exploration of the islands of Polynesia.

**Whitney
South Sea
Expedition**

This is the most important expedition which the Department has ever sent into the field. Up to the present time no intensive collecting of birds has been done in the smaller islands of the Pacific, and Mr. Beck's well-known qualifications as a collector of insular and marine forms especially fit him for this difficult task. Thanks to the cordial coöperation of the French Government, Mr. Beck has been accorded the privilege of pursuing his investigations, and permission to collect specimens; and we anticipate the receipt of early shipments from him.

This expedition was made possible through the generosity of Mr. Harry Payne Whitney.

The Museum's biological survey of the Andes has been continued by Mr. Harold E. Anthony, representing the Department of Mammals, and Mr. George K. Cherrie, representing the Department of Birds.

**Expedition to
Ecuador**

Messrs. Anthony and Cherrie left New York City the latter part of June for southern Ecuador. They have made their base at Portovelo, in the Province of Loja, at the

* Under the Department of Ornithology (see also pages 221 to 223).

headquarters of the South American Development Company, where their work has been materially advanced by the coöperation of this company. From Portovelo they have explored the country to the west, north, south, and east, and have not only secured large collections, but much valuable information concerning the character of the country and the southward limits of the Humid Zone in southwestern Ecuador. In October, Mr. Anthony reported that 1,200 birds and 600 mammals had already been secured, and if they meet with equal success during the remaining four months of their stay, they will have obtained one of the largest collections ever made in Tropical America in the same length of time.

Mr. Harry Watkins has continued to represent the Museum in Peru. His collections have been made on the eastern slope of the Andes, in the Perené region, and in western Peru from Lima to the Chilean boundary. Our collections from western Peru are now essentially complete and will permit us to define the life-zones of that region.

While studying the aquatic bird-life of the tableland in Peru and Bolivia, Lord William Percy, field representative of the Museum, made for us a representative collection at Guaqui in Bolivia, a place from which heretofore we had received no specimens.

In addition to the specimens received from our field expeditions, our collections have been greatly enriched through donations and exchanges from various sources. Of these by far the most important is a gift from Mr. Frederick F. Brewster of 3,378 specimens collected by Mr. Rollo H. Beck in South America and the West Indies, the greater part of which represent species new to our collection. This is the most valuable donation the Department of Birds has ever received.

The completion of our *Bulletin* on the Distribution of Bird-Life in Colombia enables us to offer for exchange the duplicate material contained in that collection, and in return for this

material we have received most desirable accessions from other museums, as noted in detail below.

Special mention should be made of a collection of 322 authentically identified Australian birds, received in exchange from Mr. Edwin E. Ashby, "Wittunga," Blackwood, South Australia.

All specimens received during the year have been entered in our catalogues and given their proper serial number in the collection of birds, which now approaches 200,000 specimens. The cataloguing of nests and eggs has also been completed.

The most important work of the department, and that to which all the members of the staff have devoted by far the greater part of their time during the year, is the complete rearrangement of our collection, and the incorporation in it of the thousands of specimens received in recent years, which, pending their study, have been maintained as separate collections. This work has necessitated the reidentification of great numbers of species and has included the separation of our collection into the first and second series. The former will contain a pair of every species represented in the collection, and all the types; the latter will contain the series illustrating variations in plumage due to age, sex, season, and locality. The first series will be used for ready reference; the second for detailed study. It is hoped that this task will be completed during the spring of 1921, when the working value of our collection will have been greatly augmented.

The demands made upon our time by the rearrangement of our collections has left comparatively little opportunity for research work; nevertheless, the Curator has completed his Report on the Bird-Life of The Urubamba Valley, which, when printed, will form a paper of approximately 150 pages, and has also described a number of new species of birds.

Mr. Miller has utilized specimens received in the flesh from

the New York Zoölogical Society and elsewhere, to continue his study of the pterylosis of the bird's wing, and has also worked upon the classification of the Woodpeckers and their allies.

Mr. Chapin has begun his monographic treatment of the birds of Central Africa; and, in coöperation with Mr. Miller, Mr. Griscom has made considerable progress in his studies of the birds of Nicaragua.

Mrs. Reichenberger, having completed her preliminary identification of our Ecuador collections, is now engaged on a revision of the identifications of the Roosevelt collection.

Ten papers by members of our scientific staff (based on the study of Museum material) have been published outside of the Museum. It is to be regretted that the congestion in our printing office prohibited their publication by the Museum.

Six papers were presented by members of the scientific staff before the Annual Congress of the American Ornithologists' Union, held at the United States National Museum in Washington, November 8-11, 1920.

The cordial coöperation which exists between this department and our colleagues in various parts of the world, makes our respective collections accessible to us all.

Loans

As occasion arose during the year we borrowed specimens from our fellow-workers, and it has been our privilege to comply with requests for the loan of material from museums and private individuals both in this country and in Europe.

In addition to the material which we have sent to our colleagues, we have filled the wants of numerous artists who come to the Museum to secure models for their work.

Year by year, as the contact of this department with the public becomes closer, the demands upon us for information and assistance have greatly increased. These are

**Office
Routine**

made by correspondents and visitors, and include not only requests for information in regard to almost every phase of bird-study, but for technical advice concerning the enforcement of game laws and the laws governing the importation of foreign species.

Our card catalogue of reference to the description of new species, and to the literature of ornithology, has been kept up to date by Mrs. Fraser, and it forms an indispensable part of our department equipment.

A number of species received in the flesh from the New York Zoölogical Society, which were not represented in our **Exhibition** exhibition collections, have been mounted for display. Lack of space has made it inadvisable to prepare new collections for our exhibition halls.

MAMMALS *

J. A. ALLEN, Curator

The additions number 1,720 specimens, of which 1,344 were obtained by Museum expeditions, 106 by purchase, 4 by exchange, and 204 by gift. The specimens acquired

Accessions

through expeditions include 1,216 from Northern China and Mongolia, collected by Associate Curator Andrews, leader of the Museum's Second Asiatic Expedition, in 1918 and 1919. They reached the Museum in March, 1920, in perfect condition. This is by far the largest and most valuable collection of mammals the Museum has ever received from Asia, and includes not only a large representation of the smaller species of the region traversed, but also a fine series of the large game animals, including group material for exhibition of several species nearing extinction, as the argali sheep and the wapiti, and also roebuck, goral, and antelope. The Museum has also received its first collection of mammals from Jamaica, numbering about 600, collected by Associate Curator Anthony. A further important accession has been received from British Guiana, through coöperation with the New York Zoölogical Society under the supervision of Mr. C. William Beebe, director of the Society's British Guiana Tropical Research Station. Many valuable specimens have been received in the flesh from the New York Zoölogical Society, and the Department of Parks.

Mr. Roy Chapman Andrews, Associate Curator of Mammals of the Eastern Hemisphere, returned early in the year from his eminently successful researches in China and Mongolia in 1918 and 1919, and has since been occupied mainly in organizing the Museum's Third Asiatic Zoölogical Expedition, which is expected to take the field early in 1921 and extend over a period of five years. Its activities will embrace a wide field of re-

Field Work

* Under the Department of Mammalogy (see also pages 223 to 224).

search, including geological, archæological and anthropological as well as zoölogical explorations, and will be organized with expert investigators in each of these fields. Its financial support seems already guaranteed through the coöperation of the American Asiatic Association and its magazine *Asia*, and other liberal friends of the Museum.

In November, 1919, Mr. H. E. Anthony, Associate Curator of Mammals of the Western Hemisphere, went to Jamaica for four months to investigate the cave fauna of this island. He was accompanied by Mr. Charles Falkenbach, of the Department of Palæontology, as an assistant, and the expedition was financed jointly by the two Departments thus represented. The main purpose was the exploration of the caves of the island for vertebrate fossils, for comparison with similar material already secured from the caves of Porto Rico and Cuba. Some seventy caves were explored, and a large amount of fossil material was obtained, most of it in the form of limestone breccia. The most conspicuous element of this material consists of the remains of a large hystricomorph rodent, and a smaller rodent allied to the species of *Geocapromys* still living on the island. In addition to fossil material, some 600 bats were collected, and nine specimens of the nearly extinct *Geocapromys*, thus greatly increasing our collection of the existing West Indian mammal fauna.

In June, Mr. Anthony, in company with Mr. George K. Cherrie, of the Department of Ornithology, left New York on an expedition to Ecuador and adjoining parts of South America, to collect mammals and birds. Frequent letters from Mr. Anthony indicate that their work has been highly successful, but no material has yet been transmitted to the Museum. As both are experts of long experience in tropical field work, the ultimate results must prove of great scientific value to the Museum. The work will be continued through the early months of 1921. Mr. Anthony will thus acquire first-hand knowledge of the varied ecological conditions of the country that will be of immense value to him in working out the interrelationships of the mammal forms of different areas.



DEPARTMENTS OF MAMMALOGY AND ORNITHOLOGY
CAMP OF THE ECUADORIAN EXPEDITION ON THE RIO PINDO NEAR PORTOVELO

Great advance has been made during the year in the rearrangement of the research collection of mammals, which was resumed by Associate Curator Anthony on his return to the Museum from his expedition to Jamaica, and has since been carried on under the direction of Assistant Curator Lang, with the aid of Messrs. George G. Goodwin and T. D. Carter, who joined the Department staff early in the year.

The former insecure and inconvenient storage cases in Room 15 were replaced during the summer by thirty-five new metal cases of the standard pattern, to which the Rodents, Bats, and other small mammal skins have been transferred and arranged with their skulls, and the trays and cases duly labeled. The current accessions have been catalogued and installed in their proper storage relations. The whole collection has been examined for insect pests and due precautions taken to guard against their intrusion. The rearrangement and labeling of the cases in the osteological room have also been nearly completed, so that the research collection as a whole is in better condition than ever before, as regards both accessibility and safety. The African mammals are still kept separate from the general collection, for convenience of access while under investigation, and are under the special superintendence of Assistant Curator Lang.

Mr. Anthony, on returning from Jamaica, prepared a preliminary report on the fossil mammal remains secured by him in that island, describing four new genera and five new species of hystricomorph rodents, all very distinct from any previously known West Indian forms. A detailed report will be published later when the material has been fully worked out for study.

Several skeletons of African mammals of unusual rarity and interest have been mounted and placed on exhibition. These include exceptionally fine skeletons of Okapi and White Rhinoceros, the Aardvark and Giant Pangolin, and also of a small Flying-squirrel and the "Hero Shrew," unique among mammals for its enormously thickened vertebral column. The mounting was skilfully done

**Study
Collection**

**Exhibition
Collection**

by Mr. F. Schneider, under the supervision of Mr. Lang, from his field studies and photographs of the animals living or in the flesh while leader of the American Museum Congo Expedition.

A large male Sea Elephant has been mounted, thus completing the group of three adults and three young planned for the Hall of Ocean Life. The group, provisionally installed on the second floor, makes a very impressive appearance. A fine group of Howling Monkeys has been added to the series of Primates, small groups of Wildcats and Coyotes added to the North American Mammals, and a number of representative mammals have been mounted for various systematic exhibits, among them a Giant Armadillo and a Tasmanian Wolf.

The Curator has devoted his time almost exclusively to the investigation of the Primates secured by the Congo Expedition of the American Museum, which comprise more than 600 specimens of this order. The report on them is now nearing completion and will be richly illustrated with line drawings and photographs, in coöperation with Mr. Lang.

Research and Publication A card index of the literature of African mammals, comprising some 20,000 cards, has been prepared under Mr. Lang's direction, and an additional set of over 5,000 locality cards, giving the latitude and longitude of points where collections have been made by explorers and collectors, which will be of great use in determining type localities and distribution of forms, information of great utility in other fields as well as in mammalogy. The assistance of Miss R. D. Evans has rendered possible much of this exacting work on African bibliography and zoögeography. While much of Mr. Lang's time has been devoted to the preparation of the reports on mammals, he has also contributed field notes to the various collaborators in other fields for incorporation in their respective monographs. The appointment of Dr. J. Bequaert, as Research Assistant in Congo Zoölogy, has proved of great assistance in the preparation of the Congo reports, owing to his long field experience in Africa as an explorer and collector. The Okapi Monograph, by Dr. H. von W. Schulte, with many anatomical

drawings by Mrs. H. Ziska, is about half completed. Mrs. Ziska has also made excellent progress with the line illustrations for the Report on the African Sciuridæ and Anomaluridæ.

The technical publications of the year, contrary to expectations at the close of last year, have been few and brief, the publication of a volume on the mammals of the Congo expedition having been unexpectedly delayed. Several popular papers on the field work of the Museum have been published by Associate Curators Andrews and Anthony and Assistant Curator Lang, mostly in the Museum's journal *Natural History*, and several technical notes and papers by the Curator and Mr. Anthony have been issued during the year.

EXTINCT VERTEBRATES *

HENRY FAIRFIELD OSBORN, Honorary Curator
W. D. MATTHEW, Curator

Through reductions in staff due to resignations and other causes, the total working force of the department was cut down during the past year from twenty-one to fifteen—a loss of over one-fourth. Mr. Adam Hermann, head preparator, was retired after a service of nearly thirty years, and the preparation staff was further reduced by three other members resigned or dropped. Associate Curator Barnum Brown was absent during practically the entire year, and not technically on the Museum roll. Mr. A. E. Anderson was unable on account of illness to give more than a few days to the photographic work during the year. These reductions are necessarily reflected in a smaller total of work accomplished, in spite of improvement in individual output.

Work was continued during the season at the great Agate Fossil Quarry. An extensive new cut was made at the north-eastern end of the quarry, and carefully prospected. A large amount of skeleton material of the dwarf rhinoceros *Diceratherium* and a number of skeletons of the great Clawed Ungulate *Moropus* were secured, but none of the hoped-for remains of the Giant Pig *Dimohyus*. The best specimen is a *Moropus* skeleton materially larger than any hitherto found. Altogether there were brought back to the Museum thirteen boxes of a total weight of 4,510 pounds.

* Under the Department of Vertebrate Paleontology (see also page 224).

Work was continued upon the carnivorous dinosaur collections from Alberta, especially upon the skeleton of the gigantic

Gorgosaurus mounted in a running pose, and **Preparation** now nearly ready for exhibition. This skeleton **and** is a panel mount, but set up in sections instead **Exhibition** of a single piece. It will be temporarily installed in the fossil mammal hall, as space is not now available with the Cretaceous Dinosaur exhibits where it naturally belongs. Three fine skulls of carnivorous dinosaurs from Alberta were completed and placed on exhibition, and considerable progress was made in the preparation of the slender-limbed Ostrich Dinosaurs and their allies, a rare and little known group of which a number of partial skeletons remain to be prepared, in addition to the complete skeleton on exhibition. Two partial skeletons of a primitive type of Duck-billed Dinosaur were finished up and placed on exhibition.

A model of the great Amphibious Dinosaur *Camarasaurus*, completed by Erwin Christman in accord with the latest researches by Professor Osborn, Dr. Gregory and Dr. Mook on the pose and habits of these animals, was cast and placed on exhibition at the entrance to the Dinosaur hall. This model, representing a very detailed study, is believed to be the most authoritative reconstruction yet made of an amphibious dinosaur.

About a third of the time of the laboratory staff was devoted to the exhibits and study collections of fossil Proboscidea. The skull of the great Long-jawed Mastodon was partly reconstructed in conformity with later comparative studies; and the palate and jaws of another species, *T. campester*, were very carefully and critically reconstructed and restored. A very fine and complete skull and jaws from the Lower Pliocene of Texas was placed on exhibition, and a number of changes made in the panel exhibits of fossil proboscideans. Some progress was made towards the completion of the Primitive Mastodon Skeleton (*Trilophodon productus*).

Preparation of the large block of *Diceratherium* (dwarf rhinoceros) from the Agate fossil quarry has been nearly completed. This block contains twenty-one skulls, and a proportionate number of skeleton bones (reckoning 180 bones to each

skeleton, there should be 3,780 in this block), and the preparation of such a multitude of fossil bones has been a slow process; but it is now well towards completion.

Approximately seven months' time of one man was expended upon preparation of an interesting collection of fossil mammals secured by Mr. Childs Frick from the Pliocene of California. This collection, somewhat unpromising at first appearance, is shown by careful preparation work to be of very considerable scientific importance. It represents a stage, the later Pliocene, almost unrepresented in the American Museum collections.

The reconstruction of the skeleton of the gigantic Eocene bird *Diatryma* has been continued, a series of duplicates being cast which can be used for sale or exchange. It will shortly be ready to place on exhibition as an articulated "open-mount" skeleton.

The mural paintings in this hall present the animal life and environment in which our prehistoric ancestors lived. To the six murals previously completed, two were added during 1920, representing the appearance and life of the primitive Neanderthal man and of his much higher and artistic successor, the Crô-Magnon type of the Old Stone Age.

**Age of Man
Hall Mural
Paintings**

The growing importance of the American Museum as a centre of international research in palæontology, is again illustrated by the visit of Professor H. Matsumoto of the University of Tokio, Japan, a distinguished authority upon fossil vertebrates. Dr. Matsumoto has spent several months upon the study of our collections, especially upon the fossil mammals of the Fayûm, Egypt. He has prepared an important paper upon the primitive Proboscidean *Moeritherium* and has other valuable contributions under way.

**Research and
Publication**

Dr. W. K. Gregory has published two important papers, a memoir describing the osteology of the Eocene Lemuroid *Notharctus* and discussing its affinities and bearing upon the problems of the evolution of the Primates; and a comparative



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DEPARTMENT OF VERTEBRATE PALAEONTOLOGY

CRÔ-MAGNON ARTISTS

Painted Under the Direction of Honorary Curator Henry Fairfield Osborn for the Hall of the Age of Man by Charles R. Knight.

study of the characters of the lachrymal bone of the face in vertebrates, especially in mammals, and its bearing upon various difficult problems in the evolution of the face from the primitive fishes of Palæozoic times to modern man.

Dr. Mook has published a series of articles in the *Bulletin*, presenting the results of his researches upon the osteology of living and extinct Crocodilia.

Professor Osborn continued actively his researches upon the Sauropod Dinosaurs, and especially upon the American Proboscidea.

Dr. Marjorie O'Connell, as special research assistant, gave approximately three months' time to studies upon the new and valuable collections of invertebrates secured by Mr. Barnum Brown in the Jurassic limestones of Cuba. Her report upon the collection will be completed in 1921.

During the autumn Dr. Matthew visited the principal scientific museums of Europe, with a view to renewing old relations of interchange and coöperation which had been largely broken off by the war, and of developing such new relations as might be advantageous. He visited thirty-three museums in Sweden, Germany, Austria, Italy, Switzerland, France, Belgium and England, and made arrangements for exchange of publications, specimens, and casts, finding everywhere a most cordial reception, very friendly attitude towards the American Museum and high appreciation of its work.

The catalogue of photographs of fossil vertebrates contains 2,644 numbers to date, besides 292 photographs not yet catalogued. The additions during the year were chiefly Paleocene mammals.

Photography and Illustration	Paleocene mammals.....	131
	Pliocene " (Frick Collection)	90
	Fossil Proboscidea.....	40
	Dinosaurs	7
	Crocodilia	9
	Miscellanea	15

The time of Mrs. L. M. Sterling was wholly taken during the year upon illustrations for researches by Professor Osborn. Of Mr. Erwin Christman's time approximately one-third was given to illustrations for monographs on Sauropoda and Titanotheriidæ by Professor Osborn, one-third to illustrating researches by Dr. Gregory and Dr. Mook, one-sixth to illustrations for various popular articles, and one-sixth to work in the exhibition hall and miscellaneous departmental routine.

EXISTING AND EXTINCT RACES OF MEN *

CLARK WISSLER, Curator

The Department of Anthropology has been occupied with the development of the larger plans presented in our last report. Of these, the most important were the **Exhibition** exhibits for the Stone Ages of the Old World and those presenting the essential facts in the racial differentiation of men. Work upon these, with minor revisions and improvements in all parts of our exhibition series, it is unnecessary to report in detail, but it may be noted that the Jesup North Pacific Hall is now complete, except for a few totem poles and the end panels of the murals. Models of three typical Mayan temples have been made, showing both exterior and interior constructions, and one of the famous serpent columns from the Temple of the Tigers has been reproduced in full and will be painted like the original. These will greatly improve the instructive aspects of the Mexican Hall.

Our collections have been augmented through the generosity of many donors, a list of whom will be found under a separate head. A large collection of Palæolithic stone **New Collections** implements from Egypt was presented by Mr. August Heckscher. Mr. J. P. Morgan presented an unusually fine collection of Tibetan costumes and sacred objects brought to this country by the Rev. H. B. Marx. By a bequest from the late Herbert M. Lloyd, we received a large archæological collection from Iroquois sites in New York State. Finally, we may note an exceedingly interesting series of Palæolithic implements from North Africa selected by the distinguished French archæologist, Henri Breuil, and purchased from the Jesup Fund.

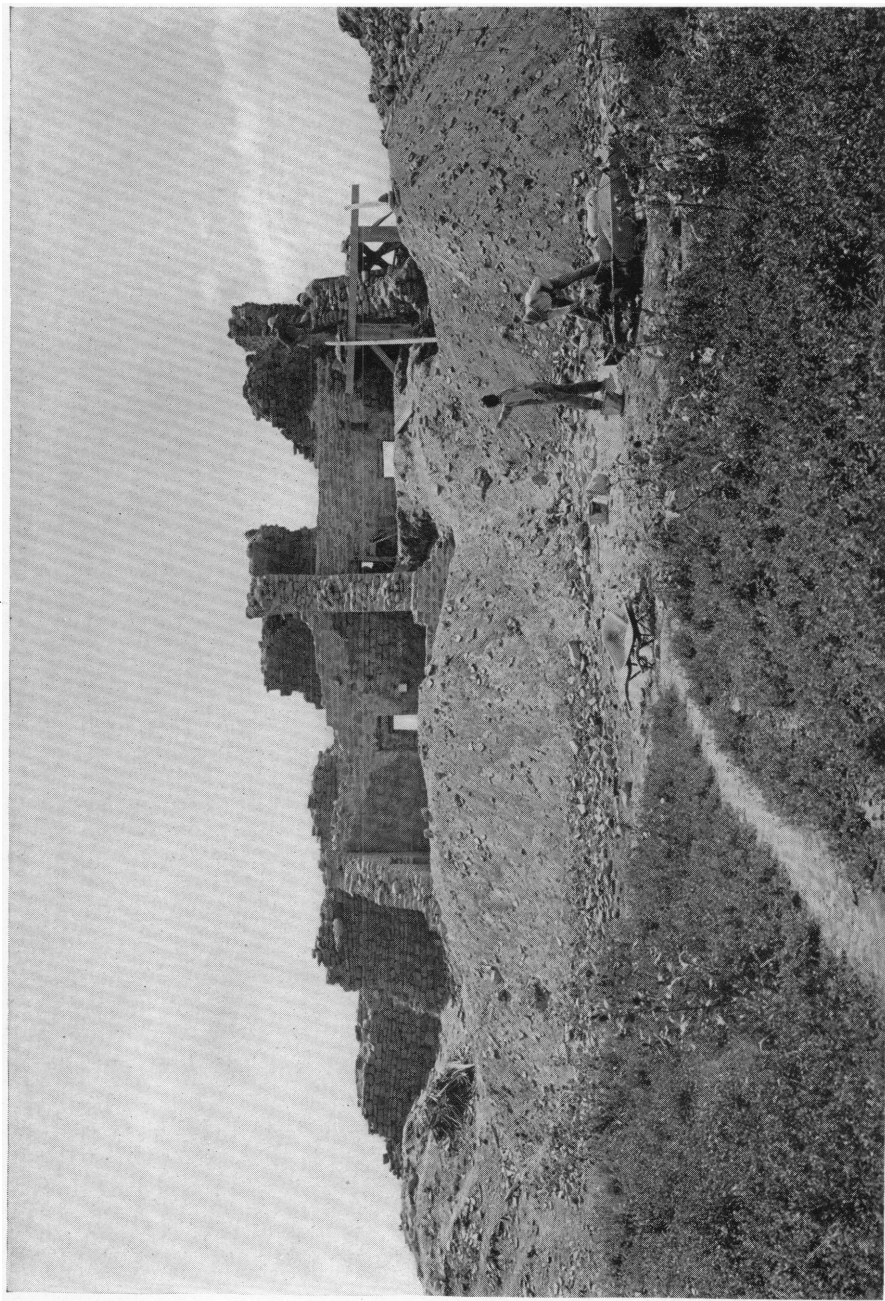
The internal work of the Museum has been largely interrupted by the absence of members of the staff. Since Septem-

* Under the Department of Anthropology (see also pages 225 to 227).

ber, the Curator has spent a large part of his time in Washington, D. C., serving the National Research Council. Assistant Curator Spinden gave the latter half of the year to special service in Cuba for the Department of State, while other members of the staff have been away on extensive field trips. The chief responsibility for the work of the Department has therefore fallen to Dr. Goddard, Curator of Ethnology. Further, the resignations of Dr. Leslie Spier and Mr. B. T. B. Hyde, the only assistants upon our staff, render it increasingly difficult to keep our exhibits in order and to care for incoming collections. It is therefore apparent that the greatest present need of the Department, as a whole, is provision for the training of new assistants.

During the year, the work of the Archer M. Huntington Survey was confined to three enterprises; the continuation of excavations at Aztec, the discovery and preliminary exploration of a new site on the Navajo Reservation, and the further application of the tree-ring method to the dating of ruins. Several important developments are to be reported in the work on the ruin at the town of Aztec. Early in the year, the original owner of the ruin, Mr. H. D. Abrams, gave a deed by which full title to the property passed to the Museum. In due time, this property with the ruin, as uncovered and partially restored by us, will be presented to the United States to become a National Monument and to be administered as a National Park. Thus we shall have provided for the future care and preservation of this remarkable ruin and realized the hopes of its former owner and our generous donor. Returning to the excavations in the ruin, we are happy to report that the rooms opened this year were rich in material, particularly in burials, one room containing seventeen in all. But by far the most distinctive discovery yet made was the uncovering of a decorated room. The room was deeply buried in a mass of débris and its presence was entirely unsuspected, but what in one case seemed to be a rounded heap of earth and stones, such as mark the sites of completely collapsed walls and ceilings, proved to be a buried room in perfect condition. The ceiling

**The Archer M.
Huntington
Survey**



DEPARTMENT OF ANTHROPOLOGY

AZTEC RUIN

Purchased through the generosity of Mr. Archer M. Huntington and to be presented to the United States Government as a National Monument.

was unbroken and the walls were plastered white with a wainscoting of dull red. It is by far the most beautiful room so far opened. That it was used as a sanctuary is evident from the presence of an altar. Another curious feature is that the entrance to the room had been closed, or sealed, before the ruin became uninhabited. Steps have been taken to protect this room, and later a reproduction of it will be erected in the Museum.

During the summer a number of new sites were located on the Navajo Reservation and preliminary explorations begun under a special permit. The sites of some twenty small buildings were located and several adjoining cemeteries. Excavations to date have revealed a great wealth of pottery and other objects. So far as the data go, this site appears to belong to a culture antecedent to that of the great community dwellings like the one at Aztec, and thus represents a stage in the development of Pueblo culture.

The tree-ring investigations of Professor A. E. Douglass, mentioned in earlier reports, while still in the preliminary stage, have proven so promising as a means of estimating the relative ages of ruins, that a special extension of this research is contemplated.

Early in the year an arrangement was entered into with the Bishop Museum in Honolulu for a joint investigation of racial problems in Hawaii. Assistant Curator Sullivan went to Honolulu last April, where he was joined by the Curator in July and August. Attention was first given to the Hawaiian problem. To date, all parts of the Islands have been visited and studies made of the most available types. Measurements, photographs, and plaster casts have been collected for exhibition use and the data organized to present and adequately describe the somatic types encountered. The question of race mixture was also considered, particularly as shown among children in the public schools.

While in Honolulu the Curator and Mr. Sullivan participated in the Pan-Pacific Scientific Congress as representatives of the Museum. At this conference plans for future exploration were proposed in which this Department hopes to participate. The

Curator was appointed Consulting Ethnologist in the Bishop Museum, Honolulu, to assist in the organization and conduct of future Polynesian exploration.

A special expedition to Southern Utah was made possible by gift from Mrs. L. P. Cartier. Assistant Curator Nelson, accompanied by Mr. B. T. B. Hyde, conducted **The Grand Gulch Expedition** Mr. and Mrs. Cartier through the Grand Gulch Canyon, where the first discoveries of Cliff-Dweller culture were made by the Wetherill brothers, thirty or more years ago, and from which the first collections were taken, one of which Mr. Hyde presented to the Museum in 1895. The Canyon was carefully surveyed and many interesting sites located. In some cases, it was possible to identify the particular cliff-houses from which the Museum's collection was taken. Following the Grand Gulch trip, Assistant Curator Nelson visited the Mimbres region of southern New Mexico to examine the ruins from which came the recently acquired Mimbres collection purchased from a local collector. By the results of this journey, definite data are now available as to the sources and setting of this collection.

Research in the Museum, in the main, has been directed to the completion of past exploration projects. In view of the contemplated changes in the staff, Curators **Museum Studies** Lowie and Spinden have given most of their time to the completion of reports in form for immediate publication. Associate Curator Lowie has under way a final paper on his long and intensive field-work among the Indians of the Plains and the Great Basin. Assistant Curator Spinden is similarly engaged with his data from Central and South America. Dr. Goddard, Curator of Ethnology, is completing some important linguistic studies. With the close of the year, the special arrangement for the services of Mr. B. T. B. Hyde terminates. Mr. Hyde gave his time to the uncompleted work of the Hyde Expeditions of earlier years. Largely through his efforts, the results of excavations in the Chaco Canyon have been advanced to

publication and the records of other early and obscure collections completed. There remain unfinished a report of the first discoveries of cliff-houses in Southern Utah and the descriptive catalogue of these early collections. It is regrettable that these also could not have been completed. Finally, note may be made of two outside contributions. Professor A. L. Kroeber visited the Museum during April and May to make a special study of our basketry collections from California and during his stay prepared a publication on the subject and a visitor's guide. Professor Leland L. Locke completed an exhaustive study of the *quipu*, based chiefly upon our collections, and submitted a monograph, ready for publication.

PUBLIC HEALTH *

CHARLES-EDWARD AMORY WINSLOW, Curator

The routine exhibition work of the Department has been concentrated chiefly on the completion of the exhibit on the hygiene of the diet installed in the Forestry Hall. The aspect of the subject dealing with the problems of personal hygiene is practically complete, the most important new material installed dealing with the need of the human body for mineral salts, calcium, iron and phosphorus and with the practical ways in which these needs may be economically supplied. The next, and final, section of the Food Exhibit will deal with the problems of food consumption and distribution, with the broad geographical facts in regard to food production and with the food habits of various races and peoples.

Exhibits of Dietary Hygiene

A novel and important contribution has been made along the line of health education by Museum methods in the completion of the School Exhibit on Dietary Hygiene prepared in coöperation with the Department of Public Education of the Museum at the request of the Board of Education of the City of New York. A set of twenty of these exhibits has been prepared, each including fifteen food models, a set of food composition blocks and eight charts, constituting a unique and invaluable means for the teaching of dietary hygiene to school children. The exhibit in large measure is based on the original investigations of Miss Mary Greig, who has been in charge of the preparation of our food exhibits for three years and whose faithful and efficient service is worthy of special recognition. The syllabus prepared by Miss Greig to accompany the school exhibit is an important contribution to the science of dietary hygiene.

* Under the Department of Public Health (see also page 228).

UNDERFEEDING SPELLS DISEASE

CHILDREN NEED THE RIGHT KIND OF FOOD

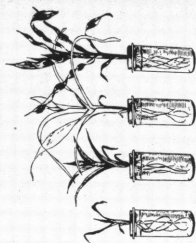
PLANTS NEED THE RIGHT KIND OF FOOD



This child
is undernourished



This child
is normal
and healthy



This plant
lacked
lime

This plant
lacked
phosphorus

This plant
lacked
iron

This plant
had all the
nutrients
it needed

ANIMALS NEED THE RIGHT KIND OF FOOD



This chick is stunted
because it lacked the
right kind of proteins
in its food.



This chick had an ade-
quate diet and has de-
veloped normally.

ARE YOU AND YOUR BROTHERS AND SISTERS UNDER WEIGHT?
WHY?

Dept. of Public Health and
Nutrition
American Museum of Natural History
1926

DEPARTMENT OF PUBLIC HEALTH
NUTRITION CHART

Traveling Food Exhibit Loaned to Public Schools.

The Museum of Living Bacteria has continued its usual service to the bacteriologists of the United States and foreign countries,—a service which is becoming each year more essential to the progress of systematic bacteriology on this continent. The total number of strains under cultivation is now 566. During the year ending December 1, 1920, 3,852 cultures were sent out to different laboratories of health departments and universities, making a total of 30,044 cultures distributed since the opening of the laboratory in 1911.

**Museum of
Living
Bacteria**

Two extensive monographs dealing with the classification of bacteria have been published by the staff during the year, and Miss Ada W. Bancroft, who is at present in charge of the collection, is engaged in a complete re-testing and re-classification of the strains in our collection, which promises to form an important contribution to our knowledge of the systematic relationships of this group.

Curator Winslow has been invited by the League of Red Cross Societies to go to Geneva to organize the public health work of the League in Europe and has been granted leave of absence from February 1 to October 1, 1921, to undertake this task. The League at present represents some thirty national red cross societies, and the possibilities of service through the effective coördination of the health activities of these agencies is an almost unlimited one. It is gratifying to feel that the influence of Museum methods in health education will be extended so widely; and Dr. W. H. Park, Director of Laboratories of the City Department of Health, has consented to give his advice and counsel to the staff Curator Winslow leaves behind so that our work at home may not suffer.

**Foreign
Service for
Curator
Winslow**

The exhibit plans of the Department of Public Health have moved forward steadily, though slowly, during the past few years, owing to the limited funds at the disposal of the Department. It seems desirable to call attention to the broad plans which the Department has throughout kept in mind for what should ultimately form a complete Exhibit of the Natural

**Natural
History
of Man**

History of Man. Such an exhibit would represent the natural and logical development of two obvious tendencies. On the one hand, the leaders in the public health campaign are realizing more and more fully that the success of their cause depends upon the education of the public and that effective education demands the use of the best exhibition methods. On the other hand, Museum authorities are feeling year by year a keener responsibility for broadening and humanizing their activities and making the Museum of the greatest possible service in the upbuilding of the daily life of the people.

These two tendencies could not unite more fruitfully than in the preparation for the American Museum of an exhibit which would deal with man as an animal, with his life history and environment, the dangers which beset him and the methods by which they can be warded off. It should emphasize particularly his place in the general scheme of natural history, his relation to sunshine and rain and other meteorological factors, to the parasites which cause disease and to the animals and plants which serve him for food and clothing. It should aim to give a survey of the cycle of human life, its dangers and safeguards, sufficiently comprehensive to satisfy the curiosity of the ordinary man and to teach him what he needs to know in order to keep sound and well.

Such an exhibit could be made the center of inspiration for the graphic teaching of public health, not only in New York but for the nation; and it would constitute the most vital link in the whole chain of Museum activities with the curriculum of the school child and with the life of the average citizen.

The Exhibit of the Natural History of Man should include the following main sections:

1. A simple demonstration of the known laws of heredity as they govern the initial life capital with which the individual begins his career. (To be prepared in coöperation with the Department of Invertebrate Zoölogy.)

2. Demonstrations by models of the workings of the human body to emphasize the physical and chemical laws which govern it and the necessity for observing

the principles of personal hygiene. (To be prepared in coöperation with the Department of Physiology.)

3. Exhibit illustrating the food needs of the body and the practical ways in which they may be met within reasonable economic limitations.

4. Exhibit illustrating the effects of the atmosphere upon health, including the influences of climate and season, the hygiene of clothing and the modern art of ventilation.

5. Exhibit demonstrating the importance of exercise and rest as factors in personal hygiene, with models illustrating the newer types of physical exercise.

6. Exhibit illustrating the natural history of the bacteria and other parasites which threaten the health and life of human beings.

7. Exhibit dealing with water supply and disease and with the purification of water supplies as practised in modern cities.

8. Exhibit dealing with the disposal of municipal wastes and with the general art of environmental sanitation.

9. Exhibit dealing with milk, meat and other food supplies, as factors in the transmission of disease, and with the practical methods by which foods can be protected against such dangers.

10. Exhibit illustrating the part played by insects and vermin in the transmission of malaria, yellow fever, plague and other pestilences.

11. Exhibit dealing with the transmission and control of the contact-borne diseases, such as influenza, pneumonia, smallpox, scarlet fever and the like, and with the triumphs achieved by the use of sera and vaccines.

12. Exhibit dealing with the problem of the control of tuberculosis.

13. Exhibit illustrating the modern infant welfare campaign and the present day developments in school hygiene and sanitation.

14. Exhibit dealing with mental hygiene, its program and accomplishment.

15. Exhibit dealing with the degenerative diseases of adult life, such as cancer and heart disease, and the methods which can be used for their control.

16. Exhibit illustrating the machinery of modern public health administration in the American state and city.

17. Exhibit dealing with Vital Statistics, indicating graphically the results so far accomplished in the reduction of the death rate and the most promising activities for the control of preventable disease and death in the future.

After ten years of work on the small scale which has been possible in the past, only Sections 3, 7, 8 and 9 as outlined above have been practically completed and Section 6 has been begun. It is earnestly hoped that friends of the Museum and of the cause of public health may realize what such a complete exhibit of the Natural History of Man would mean to the Museum and to the City of New York and that the funds may be found for carrying this conception forward to completion.

THE LIBRARY *

RALPH W. TOWER, Curator

An analysis of the work of the Department for the year just closed shows that a report of material progress can be made. It has long been our aim to be able to compare our methods and practices with those of other libraries of similar character, and to this end Miss Remmey spent a week at the John Crerar Library of Chicago, whose officers extended every courtesy possible, for which we express our highest appreciation. This visit was most beneficial in that new ideas were obtained, and most satisfactory in that many of the problems of the two institutions have been solved in the same way.

The Library has added some 2,830 volumes, which include besides the new current works many of the old classics which have been obtained from the various book centres of the world. The desiderata in these old editions which patrons have requested now number more than a thousand, which reflects the use and value of these collections to the community.

The special works purchased from the Anson W. Hard endowment were

† Jan, Georges & Sordelli, Ferdinand *Iconographie Générale des Ophidiens*. Milan 1860-1881

Monkhouse, Cosmo A *History and Description of Chinese Porcelain*. London 1901

While writing this report, Mr. Ogden Mills, who many times in the past has enriched our Library, has authorized the purchase of some rare ornithological works needed in our collection. A detailed account of this gift can only be given in the next report.

* Under the Department of Books and Publications.

† This copy belonged to Sordelli, the collaborating artist.

Other interesting accessions for the year are:

Jacquelin Du Val, Pierre Nicolas Camille *Genera des Coléoptères d'Europe*. 4 volumes, 4to. Paris 1857-1868

Méheut, M. et Verneuil, P. *Étude de la Mer*. 4to. Paris (1913)

Tanaka, Shigeho *Figures and Descriptions of the Fishes of Japan*. 8vo, 30 volumes. Tokyo 1911-1917

Day, Francis *The Fishes of Great Britain and Ireland*. 2 volumes, 4to. London 1880-1884

Godart, (J. B.) *Histoire Naturelle des Lépidoptères ou Papillons de France*. 14 volumes & 3 Atlases. Paris 8vo. 1821-1842

Wenckstern, Fr. von *A Bibliography of the Japanese Empire*. 2 volumes. Tokyo 8vo. 1907-1910

Matériaux pour l'Histoire Primitive et Naturelle de l'Homme par G. de Mortillet. 22 volumes. Paris 8vo. 1865-1888

An inventory shows that the shelves now contain more than 100,000 volumes, many of which are monographs of extreme interest and rarity.

In order to secure more prompt and successful binding of the scientific publications of the Museum, suitable machinery has been placed in the bindery for doing edition work which has been in partial operation since last July. This branch of the work has correspondingly diminished the binding output for the Library, a condition that will be remedied, it is hoped, by later readjustments. Mr. Francis Curnan, blinded by poison gas when a member of the United States Army in France, has been employed, and has been unusually successful both in operating certain of the machines and at various kinds of bench-work—a commendable example to others who have returned with no disabilities.

The publications of The American Museum of Natural History for the year have been the *Annual Report*, the *Bulletin*, the *Anthropological Papers*, *Natural History Publications* —Journal of The American Museum of Natural History, the *Guide Leaflet* and the *Handbook*.

The *Bulletin* is devoted to the publication of the results of field and laboratory work. It consists of about twenty articles issued at irregular intervals throughout the year. During 1920, Volume XLII was published, which contains seventeen articles: one on mammalogy, two on ichthyology, ten on invertebrate zoölogy, one on herpetology, two on comparative anatomy, and one on invertebrate palæontology. Volume XLIII, which consists of seven articles on the invertebrate zoölogy of the Belgian Congo, was also published. The total pages for the year are 1,110, with 386 text figures and 53 plates.

The *Anthropological Papers* are the organ of the Museum's Department of Anthropology and are now in their twenty-sixth volume. The eight parts which appeared during 1920 include articles on the San Carlos Apache, Crow, Sarsi, Cree, Ojibway, Canadian Dakota, Sisseton Dakota, Shoshoni, Ute, Hidatsa and White Mountain Apache tribes. With the publication of their Title-page and Indices, Volumes XII, XIV and XVII have been completed. The total number of pages is 918, with 45 text figures and 1 map.

Natural History, which has just completed its twentieth volume, has been made a bi-monthly publication.

A new edition of *Handbook* No. 1, "North American Indians of the Plains," has been issued, also of *Handbook* No. 4, "Animals of the Past." There have also been new editions of the *General Guide* and of *Guide Leaflets* Nos. 38 and 39. The following reprint appeared: "Deep Sea Fishes," by Dr. Louis Hussakof. "A First Chapter in Natural History," by Dr. F. A. Lucas, was reissued as *Guide Leaflet* No. 51. "An Hour in the Museum," which takes the place of the former *Key*, gives, as the title implies, a schedule which enables the hurried visitor to see all the most interesting and important exhibits in an hour's tour.

GENERAL SUMMARY.

In closing the *Fifty-second Annual Report* and summing up the work of the year 1920, it seems that in many ways this has been the greatest year in the entire history of the Museum. The recognition by the city, of the Museum as an essential part of its great public educational system, by granting a maintenance fund one hundred fifty-three thousand dollars greater than it granted two years ago, is equivalent to adding three million dollars to our Endowment Fund, because there is no probability that the Museum will receive a lesser amount in future years. This action of the present city administration came after the most thorough examination both of the work which the Museum is actually doing and of its methods of business administration. We have invited the closest scrutiny of not only our minutes and letter files but of all our records and accounts. At a critical moment we decided to introduce the city schedule for our entire list of officers and employees. This means that every name is subject to the scrutiny of the duly authorized officers of the Board of Estimate and the Finance Department. Our summaries of divisions of expenditures, of costs, of increasing scale in wages and salaries can therefore be compared with every other department in the city.

On the other hand, during the past year the Board of Estimate and Apportionment, the Board of Aldermen, the Finance Department of the city, as well as the Department of Parks, have shown the utmost promptitude in meeting our payrolls and in paying our bills. There has been no disposition on the part of any city officials to take advantage of the open method of administration; there have been, on the contrary, the utmost courtesy and good will.

On behalf of the Trustees of this institution the President desires to extend the sincere acknowledgments of the Board of all these courtesies and of this prompt coöperation for the welfare of the Museum. This welfare means increased civility and hospitality to the rapidly increasing number of visitors from all parts of the United States, as well as to the increasing numbers of school teachers and children who are coming to

the Museum or are reached through the Museum extension system. Employees who are adequately reimbursed for their work give cheerful and attentive service. They join in the *esprit de corps* which is now manifest throughout the entire institution, namely, that all are working together to subserve public welfare. It is very rare indeed that we receive any criticism from visitors, perhaps not once a year. On the other hand, we receive many testimonials of the pleasure visitors have experienced in the courtesies shown to them. This hospitable atmosphere extends throughout the entire institution, to young and old, to all classes and conditions.

Now that the remuneration of our scientific and administrative staffs and of our employees has been placed on an adequate basis, we must turn with renewed energy to providing adequate space for the exhibition of our long accumulated collections and for the truly educational arrangement of all our exhibition halls. This great work will be accomplished, we trust, through united effort and good will on the part of the Board of Trustees and of the City and State governments during the coming fifty-third year of the life of the Museum.

Respectfully submitted,

HENRY FAIRFIELD OSBORN,
President.

FINANCES, MAINTENANCE, ENDOWMENT

It is a self-evident fact that progress in research, exploration and the educational activities of the Museum is primarily dependent upon the finances. The care of the finances, therefore, is one of the most important responsibilities that face the Trustees, especially with respect to the investment funds of the Museum. In these days of rapidly changing values of securities of all kinds, eternal vigilance is necessary to conserve our resources. Realizing the importance of this matter, upon the recommendation of the Treasurer, the Trustees early in the year invited Messrs. Arthur M. Anderson, Francis D. Bartow and Charles E. Mitchell to serve as an Advisory Committee on Investments. All three accepted the invitation, and throughout the year they have been gratuitously rendering extremely valuable service. The Museum is fortunate to thus have at its disposal such expert advice. Under the recommendations of the Advisory Committee on Investments, the Finance Committee has disposed of several of the less desirable securities, which had been acquired by gift or purchase years ago, and has converted the proceeds into holdings of greater security. At the same time, new investments have received most careful consideration.

While the financial accounting of the Museum is becoming more complex every year, with the increase in the amount of the budget and the diversification of the Museum's activities, the general methods of accounting have proven satisfactory and no material change has been necessary.

The work of the Treasurer's department, under the direction of the Bursar, Mr. Frederick H. Smyth, has been very efficient.

The receipts and disbursements of all accounts of the Museum are followed under a budget system. In February of each year the Trustees approve a budget, itemized for each character of expense, and at each meeting thereafter there is submitted a statement showing in detail the net receipts and

disbursements to the end of the preceding month and the estimated receipts and disbursements to the end of the year, including all orders placed, salaries due to December 31 and the amount of departmental allowances and reserves available. The strict adherence to a budget system is one of the reasons for the satisfactory financial status of the Museum accounts. The total disbursements for 1920 were \$844,033.85, compared with \$647,382.95 for 1919.

In order to keep the various classes of funds distinguishable from one another, they are kept in five major accounts, namely,

- Endowment and Investment Account
- City Maintenance Account
- General Account
- Morris K. Jesup Fund Account
- Special Funds Account

and four minor accounts, namely,

- Crocker Land Expedition Fund Account
- Corporate Stock Account
- Incidental Account
- Museum Building Fund Account

The details of the receipts and disbursements of each account will be found under the respective headings in the Treasurer's Report, pages 125 to 143.

The Endowment and Investment Account is solely for the transactions relating to the moneys received and disbursed for investment. The principal additions to the capital of the Endowment during 1920 were the first payment, amounting to \$1,000,000, on account of the Margaret Olivia Sage Bequest (the details of the disposition of which are clearly shown in the footnote on page 126); the bequest of Augustus D. Juilliard of \$100,000; of Helen C. Juilliard of \$50,000, and of Fanny Bridgham of \$15,000, which with subscriptions and membership fees show a total of \$1,173,700. During the year, on advice of the Advisory Committee on Investments, the Finance Committee sold certain stocks of the Morris K. Jesup Fund,

**Endowment
and Invest-
ment Account**

General Endowment and the Sage Fund, and purchased bonds. The total par value of securities in the Permanent Endowment on December 31, 1920, was \$9,601,750; the book value (original cash or securities by bequest or gift) was \$8,565,667.73, and the uninvested cash, \$2,202.57.

For the first time since the Museum received appropriations from the City of New York, there was included in the City Budget, for 1920, a schedule of numbers, positions and salaries of all employees paid in whole or in part by the City, and during the year payments were made on this basis. A schedule was also adopted by the City for supplies and expenses. The original budget appropriation was \$253,906 for salaries, and \$41,234 for supplies and expenses, a total of \$295,140. In August, the City granted a general increase of wages to all City employees, including employees of the Museum. To make this new schedule effective, the City provided an additional appropriation for the Museum of \$17,515.37, making the grand total of the maintenance appropriation for the year \$312,655.37. By reason of changes in force, there was a loss of \$1,672.24 which reverted to the City. The net sum expended by the City for maintenance, therefore, was \$310,983.13.

The General Account is for the receipt of unrestricted funds, which the Trustees may apply for general purposes. Any deficit arising from insufficient funds in this or the City Maintenance Account must be met through the General Account. While the capital of the Sage Fund is kept intact as a special bequest, its income is included in this account. The sources of receipts are varied, as is shown by the principal items for 1920.

**Trustees'
General
Account**

Income from the General Account	\$61,956.77
Income from the Sage Fund (including accrued interest from the time of Mrs. Russell Sage's death)	82,804.39
Membership Fees (Sustaining, Annual and Associate)	36,326.00
Sales and Exchanges	9,496.26
Personal Contributions of Trustees	26,350.00
Miscellaneous	5,211.08

From the General Account there was expended for maintenance \$114,764.64, which could have been paid legally from City funds had they been available.

Following the terms of the wills of Mr. and Mrs. Jesup that the fund created by them be used for scientific administration, i.e., for exploration, the enrichment of the collections, researches and the publication of the results of these investigations, it will be noted that every scientific department benefited by this fund. The income from investments amounted to \$271,850.97, increased by sale of publications and exchanges to \$274,606.34.

**Morris K.
Jesup Fund
Account**

The Special Funds Account comprises those special gifts through which a person or group wishes to show special interest in one branch of scientific work, and when a sum is donated for a specific use, the Museum expends it through this account. In 1920 the total received was \$55,205.93.

**Special
Funds
Account**

The minor accounts (pages 140-143) are the Crocker Land Expedition Fund Account; the Corporate Stock Account, for the purpose of recording transactions relating to construction of cases, etc.; the Incidental Account, for all moneys received from individuals and societies, wherever the Museum acts as agent; the Museum Building Fund Account, the nucleus of a fund for building purposes.

**Minor
Accounts**

A full statement of the receipts and disbursements of the Pension Fund, of which the Treasurer of the Museum is ex-officio Treasurer, is published as a part of the Report of the Pension Board, and will be found in the Appendix to this Report.

**Pension
Fund
Account**

Respectfully submitted,

H. P. DAVISON,
Treasurer.

SUMMARY OF CLASSIFICATION
THE AMERICAN MUSEUM OF NATURAL HISTORY

	JESUP FUND		GENERAL ACCOUNT		CITY MAINTENANCE ACCOUNT	
	Salaries	Other Items	Salaries	Other Items	Salaries	Other Items
Scientific	\$198,837.83	\$85,777.25	\$34,874.54	\$36,357.83	\$53,726.42	
Administration	2,625.00		37,343.98	37,461.91	168,455.83	17,539.57
Heating and Lighting..			1,287.42	11,525.45	20,390.00	12,818.46
Repairs and Construc- tion of Heating and Lighting				712.80	2,823.44	3,509.35
Repairs and Construc- tion			7,130.78	1,830.79	24,353.44	7,366.62
General Expenses		2,018.73	18,489.29	11,317.63		
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
	\$201,462.83	\$87,795.98	\$99,126.01	\$99,206.41	\$269,749.13	\$41,234.00
Totals by Account.....	\$289,258.81		\$198,332.42		\$310,983.13	

OF DISBURSEMENTS OF
FOR THE YEAR ENDING DECEMBER 31, 1920

SPECIAL FUNDS ACCOUNT		CORPORATE STOCK ACCOUNT Salaries	GRAND TOTALS 1920		TOTALS 1920	TOTALS 1919
Salaries	Other Items		Salaries	Other Items		
\$8,650.06	\$27,651.42		\$296,088.85	\$149,786.50	\$445,875.35	\$358,633.82
			208,424.81	55,001.48	263,426.29	189,257.30
			21,677.42	24,343.91	46,021.33	32,774.00
			2,823.44	4,222.15	7,045.59	4,983.16
		9,158.01	40,642.23	9,197.41	49,839.64	34,301.56
			18,489.29	13,336.36	31,825.65	27,433.11
<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
\$8,650.06	\$27,651.42	\$9,158.01	\$588,146.04	\$255,887.81	\$844,033.85	\$647,382.95
\$36,301.48		\$9,158.01				

FRED H. SMYTH, *Bursar.*

February 7, 1921.

FINANCIAL STATEMENT

1920

PERMANENT ENDOWMENT

	<i>Par Value</i>	<i>Book Value</i>
Morris K. Jesup Fund	\$6,658,898 07	\$6,062,231 68
The Sage Fund	1,314,250 00	944,842 88
General Endowment Fund*	1,564,189 28	1,497,602 79
Special Endowment Funds:		
Matilda W. Bruce Fund	11,000 00	11,000 00
Anson W. Hard Library Fund	5,000 00	5,000 00
Physical Anthropology Fund	10,528 55	9,997 59
Margaret Olivia Sage Fund	11,000 00	9,995 00
Jonathan Thorne Memorial Fund	26,884 10	24,997 79
	<u>\$9,601,750 00</u>	<u>\$8,565,667 73</u>
Uninvested Cash:		
General Endowment Fund..	\$1,916 48	
Morris K. Jesup Fund	59 00	
Physical Anthropology Fund	2 41	
The Sage Fund	224 68	
	<u>2,202 57</u>	<u>2,202 57</u>
	<u>\$9,603,952 57</u>	<u>\$8,567,870 30</u>

There are also held (Stamped by Special Master)
\$50,000.00 Chicago, Rock Island and Pacific Ry. Coll. Trust Bonds
(not included in any of the above figures)

MUSEUM BUILDING FUND ACCOUNT

	<i>Par Value</i>	<i>Book Value</i>
Bonds	\$119,600 00	\$117,449 54
Cash	98 71	98 71
	<u>\$119,698 71</u>	<u>\$117,548 25</u>

* Principal contributors to the General Endowment Fund:

Hugh Auchincloss	\$10,223 56	A. D. Juilliard	\$100,000 00
Samuel D. Babcock	5,000 00	Helen C. Juilliard	50,000 00
Anna B. Bliss	5,000 00	Frank W. Kitching	10,043 00
Emil C. Bondy	10,000 00	Charles Landon	5,000 00
George S. Bowdoin	5,000 00	Solomon Loeb	5,000 00
Fanny Bridgman	15,000 00	D. O. Mills	125,000 00
James M. Constable	25,000 00	J. Pierpont Morgan	325,000 00
Benjamin P. Davis	22,799 25	Oswald Ottendorfer	30,000 00
Wm. E. Dodge	5,000 00	Percy R. Pyne	45,000 00
Wm. E. Dodge	10,000 00	Wm. Rockefeller	10,000 00
James Douglas	100,000 00	Wm. R. Sands	10,000 00
Mrs. Martha T. Fiske	10,000 00	Wm. C. Schermerhorn	5,000 00
Frederika Gade	5,000 00	Mrs. Mary Stuart	50,000 00
H. O. Havemeyer	25,000 00	Charles E. Tilford	25,070 37
Miss S. M. Hitchcock	5,000 00	Mrs. Emily N. Trevor	30,098 90
C. P. Huntington	5,000 00	Cornelius Vanderbilt	25,000 00
Henry Iden	10,000 00	Wm. H. Vanderbilt	50,000 00
D. Willis James	5,000 00	Henry Villard	5,000 00
Morris K. Jesup	225,000 00		

The income of the Permanent Endowment is the chief source of income of the General Account and of the Morris K. Jesup Fund Account.

ENDOWMENT AND INVESTMENT ACCOUNT

RECEIPTS

1920

GENERAL ENDOWMENT FUND:

Balance	\$6,303 32	
Bequest of Fanny Bridgham	15,000 00	
Bequest of A. D. Juilliard.....	100,000 00	
*Bequest of Helen C. Juilliard.....	17,450 00	
Subscription of J. A. Roebling.....	1,000 00	
Patrons	3,000 00	
Life Members	4,700 00	
Proceeds from Sale of Bonds.....	20,309 90	
		\$167,763 22

MORRIS K. JESUP FUND:

Proceeds from Sale of Stocks.....	140,268 97
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†THE SAGE FUND:

Bequest of Margaret Olivia Sage.....	591,709 58	
Proceeds from Sale of Stocks.....	24,835 00	
		616,544 58

PHYSICAL ANTHROPOLOGY FUND:

Balance	357 75	
Accrued Interest Advanced.....	21 25	
		379 00

INTEREST ON CREDIT BALANCES:

Earnings to December 31, 1920.....	2,229 89
	<u>\$927,185 66</u>

Examined and Approved	{	FELIX M. WARBURG, THOMAS DEWITT CUYLER, FREDERICK F. BREWSTER,	{	Auditing Committee
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* There was also received a mortgage of \$32,550.00, making a total bequest of \$50,000.00.

† The first payment on account of The Sage Bequest of 2/52 shares of the residuary estate was received as follows:

Cash (Applied to Investment).....	\$534,168 81
Cash (Accrued Interest applied to General Account Income 1920)	57,540 77
Stocks and Bonds.....	397,363 75
	<u>\$989,073 33</u>
Deduction of previous gift.....	\$10,000 00
Accrued Interest	926 67
	<u>\$1,000,000 00</u>

ENDOWMENT AND INVESTMENT ACCOUNT

DISBURSEMENTS

1920

GENERAL ENDOWMENT FUND:

Purchase of Bonds \$165,846 74

MORRIS K. JESUP FUND:

Purchase of Bonds 140,209 97

THE SAGE FUND:

Transferred to Income on The Sage Fund,

General Account, as accrued interest.... \$57,540 77

Purchase of Bonds 558,779 13

616,319 90

PHYSICAL ANTHROPOLOGY FUND:

Purchase of Bonds 376 59

INTEREST ON CREDIT BALANCES:

Transferred to Interest on Credit Balances, General

Account 2,229 89

CASH ON HAND DECEMBER 31, 1920 2,202 57

\$927,185 66

H. P. DAVISON, Treasurer

E. & O. E.

NEW YORK, December 31, 1920

CITY MAINTENANCE ACCOUNT

RECEIPTS

1920

Capital Fund:

Cash on hand January 1, 1920..... \$15,000 00

Department of Parks:

Appropriation for 1920:

Salaries, Regular Employees:

From Tax Levy..... \$252,829 40

From Special Revenue Bonds..... 16,919 73

Total \$269,749 13

Expenses for Other Than Personal

Service:

1. Fuel Supplies 9,706 54

2. Office Supplies \$6,091 57

Office Supplies Awaiting

Reimbursement 264 10

6,355 67

3. Laundry, Cleaning and

Disinfecting Supplies..... 1,803 19

4. Motor Vehicle Supplies..... 920 78

5. General Plant Supplies..... 2,666 42

6. Wearing Apparel..... 1,150 97

7. Office Equipment..... 1,193 39

Office Equipment Await-

ing Reimbursement... 571 44

1,764 83

8. General Plant Equip-

ment 224 79

General Plant Equip-

ment Awaiting Re-

imbursement 5 41

230 20

9. General Plant Materials..... 9,668 18

10. General Repairs and

Replacements 670 48

General Repairs and

Replacements Await-

ing Reimbursement.. 480 49

1,150 97

11. Telephone Service..... 844 05

12. Fixed Charges and Con-

tributions 4,963 20

Fixed Charges and Con-

tributions Awaiting

Reimbursement 9 00

4,972 20

Total \$41,234 00

Total net receipts for the maintenance of all departments \$310,983 13

Interest on Credit Balances:

Earnings to December 31, 1920..... 345 53

Loans 32,250 00

\$358,578 66

Examined
and Approved{ FELIX M. WARBURG,
THOMAS DEWITT CUYLER,
FREDERICK F. BREWSTER, }Auditing
Committee

CITY MAINTENANCE ACCOUNT *

DISBURSEMENTS

1920

Geology and Invertebrate Palæontology	\$4,075 79
Mineralogy	3,308 74
Mammalogy	5,174 32
Ornithology	4,581 14
Vertebrate Palæontology	4,007 90
Anthropology	5,555 91
Ichthyology	1,878 52
Herpetology	1,231 12
Invertebrate Zoölogy	7,851 86
Woods and Forestry	439 10
Library	9,415 53
Public Education	9,727 08
Preparation and Exhibition	1,361 25
Division of Printing	5,372 80
Heating and Lighting	40,346 93
Repairs and Installation	39,868 84
General Supplies and Expenses	16,067 55
Administration	150,718 75

Total net disbursements for the maintenance of all departments \$310,983 13

Interest on Credit Balances:

Transferred to Interest on Credit Balances, General Account 345 53

Loans 32,250 00

Capital Fund:

Cash on hand December 31, 1920..... \$13,669 56
 Bills awaiting reimbursement from Department of Parks, December 31, 1920..... 1,330 44

15,000 00

\$358,578 66

H. P. DAVISON, Treasurer

E. & O. E.

NEW YORK, December 31, 1920

* The annual appropriation of the City can be used only for the maintenance of the Museum and is inadequate for this purpose. It cannot be used for the purchase of specimens or for the expenses of exploring and collecting expeditions. The deficiency in maintenance for 1920, amounting to \$114,764.64, has been met from the Trustees' General Account.

GENERAL ACCOUNT

RECEIPTS

1920

Trustees' Unrestricted Funds:

Income from General Endowment	\$61,956 77
Income from The Sage Fund	82,804 39
Interest on Credit Balances	3,081 08
Annual Members	30,990 00
Sustaining Members	2,775 00
Associate Members	2,561 00
Sales and Exchanges	2,110 99
Sale of Publications	5,814 54
Subscriptions to Natural History.....	1,570 73

Contributions of Trustees for General Purposes:

George F. Baker.....	\$2,500 00	Adrian Iselin	\$1,000 00
Frederick F. Brewster..	1,100 00	Arthur Curtiss James..	2,500 00
Thomas DeWitt Cuyler ..	500 00	Walter B. James.....	250 00
H. P. Davison.....	2,500 00	Ogden Mills	2,500 00
Cleveland H. Dodge..	2,500 00	J. P. Morgan.....	2,500 00
Walter Douglas	2,000 00	Henry Fairfield Osborn	1,000 00
Childs Frick	1,500 00	John B. Trevor.....	500 00
W. A. Harriman.....	1,000 00	Felix M. Warburg....	2,500 00

26,350 00

Contributions for General Purposes:

Mrs. Robert Wilson	5 00
Interest on Bequest of Helen C. Juilliard.....	2,125 00

Total net receipts for the development of all departments \$222,144 50

Loans:

City Maintenance Account	\$32,250 00
Morris K. Jesup Fund Account	65,000 00
Bursar's Account	25,000 00
Crocker Land Expedition Fund Account:	
Loans Receivable	15,600 00

137,850 00

Proceeds of Notes held by United States Trust Company of New York... 150,000 00

\$509,994 50

Examined
and Approved

{ FELIX M. WARBURG,
THOMAS DEWITT CUYLER,
FREDERICK F. BREWSTER, }

Auditing
Committee

GENERAL ACCOUNT *

DISBURSEMENTS

1920

Geology and Invertebrate Palæontology	\$3,982 59
Mineralogy	669 75
Mammalogy	1,242 71
Ornithology	1,508 48
Vertebrate Palæontology	2,947 72
Anthropology	3,771 21
Ichthyology	1,019 78
Herpetology	182 10
Invertebrate Zoölogy	3,138 86
Public Health	1,490 77
Library	1,515 51
Public Education	11,399 48
Preparation and Exhibition	1,581 30
Publications	38,735 77
Division of Printing	16,235 24
Heating and Lighting	13,945 69
Repairs and Installation	10,419 13
General Supplies and Expenses	33,051 49
Administration	35,304 79
Pension Fund	14,410 96
Interest on Bank Loans	1,779 09

Total net disbursements for the development of all departments **\$198,332.42**

Deficit of 1919 Account 20,462 08

Loans:

City Maintenance Account	\$32,250 00
Morris K. Jesup Fund Account.....	65,000 00
Bursar's Account	25,000 00
Crocker Land Expedition Fund Account.....	15,600 00
	137,850 00

Cash on hand December 31, 1920:

Cash in Bank	3,350 00
Proceeds of Notes held by United States Trust Company of New York to meet overdrafts.....	150,000 00
	†153,350 00
	\$509,994 50

H. P. DAVISON, Treasurer

E. & O. E.

NEW YORK, December 31, 1920

* The Trustees' Unrestricted Funds are applied to the general purposes of the Museum, including the deficiency in maintenance.

† The Treasurer's books show a balance on hand December 31, 1920, of..... \$153,350 00

The liabilities against this balance are as follows:	
Reserve to meet five notes held by the United States Trust Com- pany of New York.....	\$150,000 00
Orders and contracts outstanding.....	3,350 00
	\$153,350 00

MORRIS K. JESUP FUND ACCOUNT

RECEIPTS

1920

Trustees' Restricted Funds:

Cash on hand January 1, 1920.....	\$35,962 99
Income from Morris K. Jesup Fund.....	\$271,850 97
Sale of Publications.....	1,280 28
Sales and Exchanges	862 60
Interest on Credit Balances.....	612 49
	<u>274,606 34</u>

Total net receipts for the development of all departments **\$310,569 33**

Loans:

General Account 65,000 00

\$375,569 33

Examined
and Approved

{ FELIX M. WARBURG,
THOMAS DEWITT CUYLER,
FREDERICK F. BREWSTER, }

*Auditing
Committee*

MORRIS K. JESUP FUND ACCOUNT *

DISBURSEMENTS

1920

Geology and Invertebrate Palæontology.....	\$14,638 42
Mineralogy	2,592 07
Mammalogy	22,621 23
Ornithology	10,845 31
Vertebrate Palæontology	40,611 88
President Osborn's Science Fund.....	10,462 83
Anthropology	34,457 85
Ichthyology	7,279 37
Dr. Dean's Research and Publication Fund....	1,200 00
Herpetology	10,136 61
Invertebrate Zoölogy	18,839 19
Anatomy and Physiology	39 70
Public Health	4,127 50
Woods and Forestry	3,503 50
Library	18,316 83
Public Education	6,979 99
Preparation and Exhibition	45,514 74
Publications	24,202 06
Division of Printing	7,575 01
General Supplies and Expenses.....	670 99
Administration	2,625 00
Interest on Bank Loans	2,018 73
Total net disbursements for the development of all departments	\$289,258 81

Loans:

General Account	65,000 00
Cash on hand December 31, 1920.....	†21,310 52
	<u>\$375,569 33</u>

H. P. DAVISON, Treasurer

E. & O. E.

NEW YORK, December 31, 1920

* Disbursements of this account are made as the Board of Trustees may direct, for the purchase of specimens, for the expenses of field parties, and for the support of scientific work.

† The Treasurer's books show a balance on hand December 31, 1920, of \$21,310.52, of which \$17,162.85 has been carried forward to 1921 to meet pledges and obligations contracted in 1920. Therefore, the net cash balance as of December 31, 1920, is \$4,147.67.

SPECIAL FUNDS ACCOUNT

RECEIPTS

1920

GEOLOGY AND INVERTEBRATE PALAEONTOLOGY:

Angelo Heilprin Exploring Fund:

Balance	\$1,000 00	
Mr. and Mrs. Paul J. Sachs....	500 00	
		\$1,500 00

Geological Fund:

Balance	850 00	
		\$2,350 00

MINERALOGY:

Matilda W. Bruce Fund:

Balance	\$361 61	
Interest	660 00	
		1,021 61

MAMMALOGY:

Whale Model Fund:

Balance	\$1,000 00	
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Third Asiatic Expedition Fund:

Mr. and Mrs. Charles L. Bern-		
heimer	\$500 00	
Sidney M. Colgate	1,000 00	
Childs Frick	500 00	
W. A. Harriman	250 00	
Mrs. Adrian Hoffman Joline..	100 00	
Gilbert S. McClintock.....	100 00	
J. P. Morgan	7,500 00	
Albert H. Wiggin	250 00	
		10,200 00
		11,200 00

ORNITHOLOGY:

Whitney South Sea Expedition Fund:

Harry Payne Whitney.....	\$10,000 00	
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Margaret Olivia Sage Fund:

Balance	\$1,518 01	
Interest	427 88	
		1,945 89

Crandall Oölogical Fund:

Balance	1,160 00	
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South American Exploration Fund:

Balance	64 55	
		13,170 44

Carried forward \$27,742 05

SPECIAL FUNDS ACCOUNT

DISBURSEMENTS

1920

MINERALOGY:

Matilda W. Bruce Fund:

Purchase of Minerals	\$489 50
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MAMMALOGY:

Third Asiatic Expedition Fund:

Expenses of Field Equipment.....	2,773 52
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ORNITHOLOGY:

Whitney South Sea Expedition Fund:

Field Expenses in Tahiti.....	\$4,676 70
-------------------------------	------------

Margaret Olivia Sage Fund:

Field Expenses in Peru.....	1,554 83
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South American Exploration Fund:

Field Expenses in Peru.....	64 55	
		<u>6,296 08</u>

Carried forward	\$9,559 10
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SPECIAL FUNDS ACCOUNT

RECEIPTS

1920

Brought forward \$27,742 05

VERTEBRATE PALÆONTOLOGY:

Pleistocene Faunal Life Scenes Fund:		
Mrs. Agnes C. Allerton	\$50 00	
Horse Preparation Fund:		
Balance	1,000 00	
Cope Biography Fund:		
Balance	\$50 00	
Mrs. Julia Cope Collins	50 00	
Mrs. Elizabeth W. Garrett....	100 00	
	<u>200 00</u>	
European Fossil Fund:		
Childs Frick	1,000 00	
Pliocene Fund:		
From a Friend	5,050 00	
Asiatic Palæontology Fund:		
Childs Frick	1,000 00	
Special Field Fund:		
Mrs. Adelaide H. C. Frick.....	10,000 00	
	<u>18,300 00</u>	

ANTHROPOLOGY:

East Asiatic Fund:		
Balance	\$1,788 49	
Anthropology of the Southwest Fund:		
Balance	\$3,922 01	
Archer M. Huntington	5,000 00	
	<u>8,922 01</u>	
New Zealand Group Fund:		
Balance	43 71	
Physical Anthropology Fund:		
Interest	509 17	
Grand Gulch Fund:		
From a Friend	2,000 00	
Tibetan Collection Fund:		
J. P. Morgan	2,000 00	
	<u>15,263 38</u>	

ICHTHYOLOGY:

Dodge Ichthyology Fund:		
Balance	\$714 17	
Fish Bibliography Fund:		
Balance	\$1,505 14	
Bashford Dean	1,200 00	
	<u>2,705 14</u>	
	<u>3,419 31</u>	

Carried forward \$64,724 74

SPECIAL FUNDS ACCOUNT

DISBURSEMENTS

1920

Brought forward \$9,559 10

VERTEBRATE PALÆONTOLOGY:

European Fossil Fund:

Examination European Collections (Expenses) \$882 25

Pliocene Fund:

Services of Preparators..... 2,032 69
2,914 94

ANTHROPOLOGY:

East Asiatic Fund:

Purchase of Chinese Specimens..... \$875 00

Anthropology of the Southwest Fund:

Expenses of Field Work..... 8,897 55

New Zealand Group Fund:

Services of Preparator..... 43 71

Physical Anthropology Fund:

Special Services 375 33

Grand Gulch Fund:

Expenses of Field Work..... 2,000 00

Tibetan Collection Fund:

Purchase of Collection..... 2,000 00
14,191 59

ICHTHYOLOGY:

Fish Bibliography Fund:

Services of Bibliographer..... 1,671 23

Carried forward \$28,336 86

SPECIAL FUNDS ACCOUNT

RECEIPTS

1920

Brought forward \$64,724 74

INVERTEBRATE ZOÖLOGY:

Jamaica Entomological Fund:		
B. Preston Clark	\$100 00	
Malaysian Invertebrate Zoölogy Fund:		
B. Preston Clark	\$500 00	
James B. Ford	1,000 00	
	<u>1,500 00</u>	
		1,600 00

LIBRARY:

Anson W. Hard Library Fund:		
Interest		212 49

PUBLIC EDUCATION:

Jonathan Thorne Memorial Fund:		
Balance	\$336 88	
Interest	1,084 20	
	<u>\$1,421 08</u>	
Public Education Fund:		
Balance	170 00	
Children's Room Fund:		
Balance	115 69	
School Fund:		
Department of Education of the		
City of New York.....	2,562 19	
	<u>4,268 96</u>	

PREPARATION AND EXHIBITION:

Sea Elephant Preparation Fund:		
Balance		1,000 00

PUBLICATIONS:

Jesup North Pacific Expedition Publication		
Fund:		
Balance	\$1,121 65	
Museum Journal Fund:		
Balance	1,117 68	
	<u>2,239 33</u>	

Total net receipts for the development of specific depart- ments	\$74,045 52
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INTEREST ON CREDIT BALANCES:

Earnings to December 31, 1920.....	487 63
	<u>\$74,533 15</u>

Examined and Approved	{ FELIX M. WARBURG, THOMAS DEWITT CUYLER, FREDERICK F. BREWSTER, }	Auditing Committee
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SPECIAL FUNDS ACCOUNT

DISBURSEMENTS

1920

Brought forward \$28,336 86

INVERTEBRATE ZOÖLOGY:

Jamaica Entomological Fund:		
Field Expenses	\$100 00	
Malaysian Invertebrate Zoölogy Fund:		
Field Expenses	1,500 00	
		<u>1,600 00</u>

LIBRARY:

Anson W. Hard Library Fund:		
Purchase of Books		212 49

PUBLIC EDUCATION:

Jonathan Thorne Memorial Fund:		
Education for the Blind.....	\$1,186 57	
Public Education Fund:		
Motion Picture Film.....	170 00	
Children's Room Fund:		
Motion Picture Film.....	115 69	
School Fund:		
Loaning Slides to Public Schools.....	2,562 19	
		<u>4,034 45</u>

PREPARATION AND EXHIBITION:

Sea Elephant Preparation Fund:		
Services of Preparator		1,000 00

PUBLICATIONS:

Museum Journal Fund:		
Special Illustrations for <i>Natural History</i>	1,117 68	

Total net disbursements for the development of specific departments	\$36,301 48
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INTEREST ON CREDIT BALANCES:

Transferred to Interest on Credit Balances, General Account	487 63
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CASH ON HAND DECEMBER 31, 1920	<u>37,744 04</u>
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\$74,533 15

H. P. DAVISON, Treasurer

E. & O. E.

NEW YORK, December 31, 1920

CROCKER LAND EXPEDITION FUND ACCOUNT

RECEIPTS

1920

LOANS:

General Account \$15,600 00

INTEREST ON CREDIT BALANCES:

Earnings to December 31, 1920..... 29

\$15,600 29

Examined and Approved	{	FELIX M. WARBURG, THOMAS DEWITT CUYLER, FREDERICK F. BREWSTER,	}	<i>Auditing Committee</i>
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CORPORATE STOCK ACCOUNT

RECEIPTS

1920

DEPARTMENT OF PARKS \$9,158 01

INTEREST ON CREDIT BALANCES:

Earnings to December 31, 1920.....	1 58	
		<u>\$9,159 59</u>

Examined and Approved	{	FELIX M. WARBURG, THOMAS DEWITT CUYLER, FREDERICK F. BREWSTER,	}	<i>Auditing Committee</i>
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CROCKER LAND EXPEDITION FUND ACCOUNT

DISBURSEMENTS

1920

Deficit of 1919 Account \$15,597 71

INTEREST ON CREDIT BALANCES:

Transferred to Interest on Credit Balances, General
Account 29

CASH ON HAND DECEMBER 31, 1920 2 29

\$15,600 29

H. P. DAVISON, Treasurer

E. & O. E.
New York, December 31, 1920

CORPORATE STOCK ACCOUNT

DISBURSEMENTS

1920

PAYROLLS OF MECHANICS, ETC. \$9,158 01

INTEREST ON CREDIT BALANCES:

Transferred to Interest on Credit Balances,
General Account 1 58
\$9,159 59

H. P. DAVISON, Treasurer

E. & O. E.
New York, December 31, 1920

INCIDENTAL ACCOUNT

RECEIPTS

1920

CASH ON HAND JANUARY 1, 1920..... \$957 68

RECEIPTS FROM INDIVIDUALS AND SOCIETIES \$3,522 39

INTEREST ON CREDIT BALANCES:

Earnings to December 31, 1920.....	16 16	
		3,538 55
		<u>\$4,496 23</u>

Examined and Approved	{ FELIX M. WARBURG, THOMAS DEWITT CUYLER, FREDERICK F. BREWSTER, }	Auditing Committee
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MUSEUM BUILDING FUND ACCOUNT

RECEIPTS

1920

CASH ON HAND JANUARY 1, 1920..... \$2,478 82

INCOME FROM INVESTMENT FUND..... 4,795 75

INTEREST ON CREDIT BALANCES:

Earnings to December 31, 1920.....	51 35	
		<u>\$7,325 92</u>

Examined and Approved	{ FELIX M. WARBURG, THOMAS DEWITT CUYLER, FREDERICK F. BREWSTER, }	Auditing Committee
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INCIDENTAL ACCOUNT

DISBURSEMENTS

1920

DISBURSEMENTS FOR INDIVIDUALS

AND SOCIETIES..... \$4,329 74

INTEREST ON CREDIT BALANCES:

Transferred to Interest on Credit Balances,
General Account

16 16

\$4,345 90

CASH ON HAND DECEMBER 31, 1920..... 150 33

\$4,496 23

H. P. DAVISON, Treasurer

E. & O. E.

NEW YORK, December 31, 1920

MUSEUM BUILDING FUND ACCOUNT

DISBURSEMENTS

1920

INVESTMENT FUND:

Purchase of Bonds \$7,227 21

CASH ON HAND DECEMBER 31, 1920 98 71

\$7,325 92

H. P. DAVISON, Treasurer

E. & O. E.

NEW YORK, December 31, 1920

MEMBERSHIP

Our membership roll has continued to grow, and the number of new names added in 1920 was 661. This, we think, is a good showing when one considers the number of calls on our members for contributions to various good causes. The total membership of 5,556 names means that the Museum has many friends who are interested in its work and who believe that it is adding to the forces of education in our city and country.

Members receive current copies of our Journal *Natural History*, a magazine devoted to science stated in non-technical language and of wide interest as giving results in many fields of modern research. It is printed in attractive form and is profusely illustrated.

Members will find the Members' Room on the third floor, near the elevator, a very convenient and attractive place in which to rest during their visits to the Museum. An attendant is on duty, and if Members desire to have some one show them exhibits in the Museum, it is only necessary to make their wishes known to this attendant.

The lecture privileges enjoyed by Members are extensive, and during the year 1920 we were enabled to give Members an opportunity to attend a great number of special lectures, in addition to those in the regular course.

The American Museum of Natural History, in conjunction with certain other museums, is reciprocating with the Buffalo Society of Natural Sciences in the exchange of membership privileges. When a Member of the American Museum visits the Museum of the Buffalo Society of Natural Sciences and presents his membership card at the office, the privileges accorded its Members will be accorded the Member of the American Museum.

This plan, with which we are heartily in accord, was suggested by the Buffalo Society of Natural Sciences, with the hope that such a step would promote the friendly relations



THE MEMBERS' ROOM

already existing between these museums, encourage and stimulate the interest of Members, and serve to increase scientific knowledge.

Among the special lectures and meetings to which Members were invited, mention may be made of the following:

The Spring Course of Lectures to Members included: "With the Big Game Animals of the Yellowstone," by Norman McClintock; "Tahiti and the Islands of the South Seas," by Henry E. Crampton; "The Story of Our Furs," by Frederic A. Lucas; and "Big Game Hunting in Mongolia," by Roy C. Andrews.

The Autumn Course was as follows: "With John Burroughs in His Favorite Haunts," by G. Clyde Fisher; "Hawaii and Its Volcanoes," by Edmund Otis Hovey; "The Bird Islands of Peru," by Robert Cushman Murphy; and "Chile and the Fuegian Archipelago," by Charles W. Furlong.

The Spring Course for the Children of Members included: "Song Birds as Good Citizens," by William L. Finley. The lecture which was to have been given by Mr. Ernest Thompson Seton on "Woodland Tales and Indian Stories" was not given owing to the illness of Mr. Seton. In its place, some new stories about Buster Bear, Reddy Fox, Johnny Chuck and Peter Rabbit were given by Mr. Thornton W. Burgess. The other lectures were: "The Great Bird Colonies of Peru," by Robert Cushman Murphy, and "Our Animal Allies of the Great War," by Ernest Harold Baynes.

The Autumn Course to the Children of Members included: "Some of My Mascots," by Ernest Harold Baynes; "Folk-Lore of Our New England Indians," by Mabel F. Knight; "Our Feathered Neighbors," by Frank M. Chapman; and "Making Friends with the Wild," by Clinton G. Abbott.

The twenty-fifth anniversary of the American Scenic and Historic Preservation Society was celebrated at the Museum on January 13, at which time several addresses were made.

The Aëronautical Society of America, in conjunction with The American Museum of Natural History, held a special meeting devoted to the subject of Aërial Photography in Peace and War, in the auditorium of the Museum on March 25, at which several addresses were made, illustrated by motion pictures, lantern slides and instruments.

**Special
Lectures**

In Conservation Week, the following lectures were given in our auditorium: April 8, "Own Your Home," by the Honorable Charles O'Connell Hennessey; April 9, "Gardening for Profit," by Mr. Van Evrie Kilpatrick; and April 10, "The School Lunch," by Dr. Gustave Straubenmüller.

The American Museum of Natural History and the American Scenic and Historic Preservation Society gave a lecture on "The Proposed Roosevelt Park," by Mr. Herbert W. Gleason, in the auditorium on April 14.

On May 3, at the Opening of the Popular Exhibit of the Wireless Telephone, Dr. Robert W. King gave a lecture on "Scientific Discovery and the Wireless Telephone."

On May 27, under the auspices of the Music League of the People's Institute, a concert was given by the Children's Festival Chorus under the direction of Dr. Tali Esen Morgan.

On May 28, a lecture was given by Mr. Robert C. Murphy, illustrated by films and slides, under the Explorers' Club, in coöperation with the Museum, on Peru.

On October 6, exercises commemorating the hundredth anniversary of the birth of Andrew Haswell Green were held in the auditorium, under the auspices of the Andrew H. Green Memorial Committee, appointed by His Honor Mayor John F. Hylan, pursuant to a Resolution of the Board of Aldermen. Several addresses were made. Music was furnished (through the courtesy of Mr. E. F. Albee, of B. F. Keith's Theatre) by the B. F. Keith's Boys' Band and by Miss Grace Nelson.

At the Annual Meeting of the National Association of Audubon Societies for the Protection of Wild Birds and Animals, on October 25, two addresses were made.

On December 10, an evening of South American photographs and films was given by the Travel Department of the

American Express Company. The pictures were explained by Mr. Albert K. Dawson.

The Horticultural Society of New York held lectures in our auditorium on the Third Wednesday of January, February, March, April, October, November and December:

January 21, "Pruning, Especially as Applied to Fruit Trees and Ornamental Shrubs," by Mr. M. G. Kains.

February 18, "Vegetable Gardens," by Mr. Adolph Kruhm.

March 17, "Rose Gardens," by Mr. Edmund M. Mills.

April 21, "Annuals and Perennials for the Garden," by Mr. J. Otto Thilow.

October 20, "How to Grow the Finest Dahlia Blooms," by Mrs. Charles H. Stout.

November 17, "Garden Harmony and Succession in Planting," by Miss Marian C. Coffin.

December 15, "Rock Gardens," by Richard Rothe.

The number of new Members enrolled during 1920 was 661, of which 66 were Life Members. The loss through death and resignation was 314. There was a net gain of 347, and on December 31, 1920, the total membership was 5,556, divided into classes as follows:

**Status of
Membership**

Founders	0	Fellows	48
Benefactors	5	Honorary Fellows.....	10
Associate Founders.....	10	Life Members.....	896
Associate Benefactors.....	20	Sustaining Members.....	117
Patrons	116	Annual Members.....	3,388
Associate Members (non-resident)..... 946			

NEW MEMBERS

The following was elected an Associate Benefactor:

HENRY P. DAVISON

The following were elected Patrons:

MRS. A. H. BRAWNER
HAZEL DORIS CARTIER
B. PRESTON CLARK
JULIAN A. DIMOCK
WALTER DOUGLAS

CHILDS FRICK
AUGUST HECKSCHER
GERRISH H. MILLIKEN
JOHN A. ROEBLING
H. P. WHITNEY

The following were elected Fellows:

MISS MARY C. DICKERSON MISS E. M. KITTREDGE
GEORGE W. KORPER

The following was elected an Honorary Fellow:

PROF. T. D. A. COCKERELL

The following were elected Life Members through contribution of One Hundred Dollars:

EDWARD F. ALBEE	JAMES J. HIGGINSON
SIMON A. ALCAIDE	SAMUEL HIRD
ANNIE M. ALEXANDER	JOHN HUGHES
HARRY ALEXANDER	LEON ISRAEL
JAMES M. ANDREWS, 4th	FRANK B. KEECH
JOSEPH AINSLIE BEAR	ROBERT S. KILBORNE
MRS. HELEN A. BELL	PIRIE MACDONALD
L. M. BOOMER	CHARLES A. MAURICE
MIDDLETON S. BURRILL	MRS. PAUL McEWEN
C. MONTAGUE COOKE, JR.	MRS. HENRY D. PRESCOTT
WM. NELSON CROMWELL	ARNOLD F. RIEGGER
GEORGE M. DEXTER	WILLIAM ROSENBAUM
WALTER F. DILLINGHAM	GEORGE T. SLADE
ANNA EDGAR DONALD	E. E. SMATHERS
W. DIXON ELLIS	ALBERT ERNEST SMITH
CORNELL EMERY	THEODORE TIEDEMANN
MURRAY W. FERRIS	A. C. VEATCH
HARRY HARKNESS FLAGLER	LOUIS B. WADE
WEBB FLOYD	THOMAS J. WATSON
MRS. GEORGE B. GORDON	RICHARD WELLING
WM. E. HARMON	HENRY D. WHITON
BENJAMIN V. HARRISON	HENRY ROGERS WINTHROP
McDOUGALL HAWKES	FARNHAM YARDLEY
MRS. WILLIAM RANDOLPH HEARST	

The following were made Life Members through Honorary Election:

MISS MARY APPLETON	GILBERT S. McCLINTOCK
SYDNEY BEVIN	LOUIS L. MOWBRAY
VICTOR D. BEVIN	HARRISON GRAY OTIS
DR. JOHN A. FORDYCE	DR. RODRIGUES OTTOLENGUI
MRS. PHILIP C. GARRETT	C. A. PALM
MRS. MARY J. KEARFOTT	EDWARD H. ROGERS, M.D.
GEORGE LANGFORD	S. BRECK P. TROWBRIDGE
DR. GEORGE M. MACKENZIE	MRS. F. VETTEL
JOHN MARSHALL	ALBERT H. WIGGIN

The following have become Sustaining Members :

C. ADSIT	GEORGE I. FOX
STEPHEN PHILBIN ANDERTON	MRS. THOMAS HUNT
MRS. CLARENCE W. BOWEN	MRS. DONALD C. MALCOM
ISAAC BRANDON	FRANCIS RANDOLPH MAYER
HARRY C. BURNHAM	HENRY S. MILLIGAN
HAZEL DORIS CARTIER	MRS. JOHN T. PRATT
LOUIS PIERRE CARTIER	LOUIS J. ROBERTSON
O. E. CHANEY	FREDERICK W. SENFF
CLEMENT L. DESPARD	CHARLES STRAUSS
MRS. COLEMAN DU PONT	W. I. WALTER
EDWARD H. FLOYD-JONES	F. E. WATERMEYER
	FRANK D. WILSEY

DECEASED MEMBERS

Associate Benefactor

JACOB H. SCHIFF

Patrons

GEO. B. HOPKINS
JACOB H. SCHIFF

JONATHAN THORNE
W. K. VANDERBILT

Fellow

LEVI P. MORTON

Honorary Fellow

REAR-ADMIRAL ROBERT E. PEARY, U. S. N.

Life Members

SAMUEL P. AVERY
W. LYMAN BIDDLE
MRS. GHERARDI DAVIS
ALBERT DELAFIELD
EUGENE DELANO
WARREN DELANO
ANTHONY DEY
WILLIAM DUTCHER
MURRAY W. FERRIS
WALTER D. GELSHENEN
WALTER HINCHMAN

GEO. B. HOPKINS
HORACE F. HUTCHINSON
HENRY C. KELSEY
GEORGE A. KESSLER
JAMES McLEAN
MRS. WM. WALTER PHELPS
A. A. RAVEN
JACOB H. SCHIFF
JULIEN STEVENS ULMAN
THEO. N. VAIL
WALTER WINANS

A complete list of Members is appended.

Respectfully submitted,

ADRIAN ISELIN,
Secretary.

LIST OF TRUSTEES AND TERMS OF SERVICE

1869-1921

The Mayor of the City of New York.....	1908-
The President of the Department of Parks.....	1908-
The Comptroller of the City of New York.....	1908-
Auchincloss, Hugh	1876-1890
Baker, George F.	1914-
Baker, George F., Jr.	1921-
Bickmore, Albert S.	1885-1914
Bishop, H. R.	1882-1891
Blatchford, Richard M.	1869-1872
Blodgett, William T.	1869-1875
Bowdoin, George S.	1903-1913
Brewster, Frederick F.	1913-
Choate, Joseph H.	1869-1917
Colgate, Robert	1869-1885
Constable, James M.	1872-1900
Cutting, R. Fulton	1914-1919
Cuyler, Cornelius C.	1904-1909
Cuyler, Thomas DeWitt	1910-
Dana, Chas. A.	1869-1872
Davison, Henry P.	1916-
Dodge, A. G. Phelps.....	1869-1872
Dodge, Cleveland H.	1904-
Dodge, W. E., Jr.	1872-1903
Douglas, James	1909-1918
Douglas, Walter	1919-
Drexel, Joseph W.	1872-1888
Elliot, Daniel Giraud	1915-1915
Field, Benjamin H.	1869-1893
Frick, Henry C.	1914-1919
Gerry, Elbridge T.	1894-1902
Grant, Madison	1911-
Green, Andrew H.	1869-1903
Grinnell, Moses H.	1869-1872
Haines, William A.	1869-1880
Hard, Anson W.	1894-1917
Harriman, Oliver	1878-1895
Harriman, William Averell	1918-
Havemeyer, H. O.	1898-1907
Havemeyer, Theodore A.	1891-1897
Haven, George G.	1892-1895, 1895-1908
Hewitt, Abram S.	1874-1903

Huntington, Archer M.	1909-1912, 1914-
Hyde, Frederick E.	1899-1909
Hyde, James H.	1903-1907
Iselin, Adrian	1869-1905
Iselin, Adrian	1905-
James, Arthur Curtiss	1903-
James, D. Willis	1889-1903
James, Walter B.	1911-
Jesup, Morris K.	1869-1908
Juilliard, A. D.	1898-1919
Kissel, Gustav E.	1894-1911
Landon, Charles G.	1882-1893
Lanier, Charles	1874-
Low, Seth	1905-1916
Mills, D. O.	1882-1910
Mills, Ogden	1910-
Morgan, J. Pierpont	1869-1913
Morgan, J. P.	1908-
Morton, Levi P.	1889-1890
Osborn, A. Perry	1921-
Osborn, Henry Fairfield	1901-
Ottendorfer, Oswald	1886-1900
Parish, Henry	1869-1872
Potter, Howard	1869-1880
Pratt, George D.	1921-
Pyne, Percy R.	1872-1895
Pyne, Percy R.	1900-
Robb, J. Hampden	1886-1911
Rockefeller, William	1895-1913
Rogers, Archibald	1891-1910
Roosevelt, Theodore	1869-1878
Roosevelt, Theodore	1886-1891
Roosevelt, Theodore	1919-
Sanford, Leonard C.	1921-
Sherman, Benjamin B.	1869-1874
Stebbins, Henry G.	1869-1874
Stevens, Frederic W.	1873-1882
Steward, D. Jackson	1869-1898
Stuart, Robert L.	1869-1882
Trevor, John B.	1872-1888
Trevor, John B.	1908-
Vanderbilt, Cornelius	1878-1899
Warburg, Felix M.	1910-
Wickersham, George W.	1910-1917
Whitney, William C.	1891-1904
Wolfe, John David	1869-1872

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 INGLIS M. UPPERCU
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Bartlett, Philip G.	Behrend, Otto F.	Billings, C. K. G.
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Bates, James H. S.	Benedict, Miss Clara J.	Bishop, Wm. F.

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Blackall, Frederick S.	Bonnett, Charles P.	Brooks, Dr. Harlow
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Blair, J. P.	Bound, Mrs. Charles F.	Brown, Charles Hilton
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Bliss, Maj.-Gen.	Bowditch, Charles P.	Brown, Ernest Clive
Tasker H., U.S.A.	Bowdoin, George T.	Brown, Franklin Q.
Blitzer, Moses D.	Bowers, Henry S.	Brown,
Block, Henry	Bowman, John McE.	Mrs. Franklin Q.
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Bloodgood, Robert F.	Brayton,	Brown, Walston H.
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Blumenthal, Hugo	Briggs, Russell E.	Bryant, Dr. Alice G.
Blumenthal, Sidney	Brightman,	Bryant, Chas. E.
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Bondy, Richard C.	Brookman, Mrs. H. D.	Bulkley, Mrs. Jonathan

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Bulkley,	Cammann, H. H.	Chambers, Hilary R.
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Burleigh, George Wm.	Carden, Richard A.	Mrs. John Jay
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Burr, Geo. H.	Carlisle, G. Lister, Jr.	Chatillon, George E.
Burr, Winthrop	Carlisle, Mrs. G.	Chaves, José E.
Burr, Wm. H.	Lister, Jr.	Cheever, H. Durant
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Butler, Maxwell Evarts	Carse, John B.	Childs,
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	Case, Theodore W.	Chisholm, Mrs. Hugh J.
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Cæsar, Harry I.	Cass, Charles Anderson	Mrs. B. Ogden
Cahn, Mrs. Leopold	Cassard, Wm. J.	Choate,
Cahn, Mrs. S.	Castle, Chas. C.	Mrs. Caroline S.
Caldwell, Edward T.	Cauty, Frank H.	Choate, Mabel
Calman, Henry L.	Chaires, Miss Anna E.	Chisolm,
Calvocoressi, L. J.	Chambers, Frank R.	Christie, R. E.

Chubb, Percy	Coakley, Cornelius G.,	Conheim, Hermann
Chubb, S. H.		M.D. Conklin, Roland R.
Church, Charles B.	Coates, Mrs. O. B.	Connell,
Church, C. T.	Cobb, Frank I.	Herbert Stanley
Church, Louis P.	Cochran, G. D.	Conner, C. H.
Cillis, Hubert	Coddington, Mrs.	Connett, E. V., Jr.
Clancy, John Evarts	Clarence Morgan	Connett, Mrs. Lyndon
Claffin, John	Coffin, Miss Alice S.	Connor, Geo. L.
Clapp, A. P.	Coffin, C. A.	Constable,
Clapp, Frederick G.	Coffin, Edmund	Mrs. William
Clapp, George H.	Coffin, Francis A.	Content, Walter
Clark, Anna M.	Coffin, I. Sherwood	Cook, Mrs. Alfred A.
Clark, A. Wayne	Coffin, Mrs. Sturgis	Cook, Mrs. Chas. T.
Clark, Bernard S.	Coffin, William S.	Cook, Robert H.
Clark, Mrs. Charles M.	Coggeshall, Edwin W.	Cooley, Arthur N.
Clark, Charles Martin	Cogswell, W. B.	Cooley, Mrs. Elmer E.
Clark, Clarence M.	Cohen, DeWitt Clinton	Coolidge, Mrs. F. S.
Clark, Edward S.	Cohen, Julius Henry	Cooper,
Clark, Miss E. Mabel	Cohen, Dr. Martin	Mrs. Charles W.
Clark, Harold	Cohen, Max	Cooper, F. G.
	Benjamin	Cooper, Henry E.
Clark, Henry A.	Cohen, William W.	Cooper,
Clark, John M.	Cohen, Wm. N.	Mrs. M. Le Brun
Clark,	Cohn, Martin L.	Corbin, Austin
	Coker, James Lide	Cordley, Frank R.
Mrs. John Peyton	Cole, Frederic A.	Corlies, Howard
Clark, J. William	Cole, Rufus	Cornell, Miss Emily L.
Clark, Louis C.	Cole, Mrs. Rufus	Corning, Christopher R.
Clark, Myron H.	Colebrook, Charles B.	Cottrell, J. C.
Clark, W. A.	Coleman, C. Philip	Covell, Henry H.
Clark, W. H.	Colgate, Mrs. A. W.	Cowdin, Winthrop
Clark, William	Colgate, Gilbert	Cowl, Clarkson
Clarke, E. A. S.	Colgate, Mrs. Gilbert	Dr. James A.
Clarke, John S.	Colgate, Henry A.	Corson, H. C.
Clarke, Thomas B.	Colgate, James C.	Costello, Alfred
Clarkson, Miss Annie	Colgate, Lathrop	Coster, Mrs. C. H.
Clausen, George U.	Colgate, Russell	Cottrell, J. C.
Clayburgh, Albert	Collier, Mrs. R. J.	Covell, Henry H.
Clemens, Dr. James B.	Collins, C. L.	Cowdin, Winthrop
Clerici, John	Collins, Mrs. Robert W.	Cowl, Clarkson
Cleveland,	Colon, George Edward	Cowles, Dr. Edward S.
	Colt, Harris D.	Coyle, Robert M.
Clement, M.D.	Colt, Richard C.	Crabbe, Miss Louise G.
Cleveland, M. E.	Comly, Garrard	Crain,
Clinch, Edward S.	Conboy, Martin	Miss Christobelle
Close, Walter H.	Condit, Wm. L.	Crandall, E. H.
Clowes, Francis J.	Cone, Mrs. Ceasar	Crane, Charles R.
Clowes, Frederick V.	Cone, Frederick H.	Crane, H. M.
Clowry, Robert C.		

Crane,	Daniel, Annie S., M.D.	de Grunne,
Mrs. Jonathan H.	Daniels, Lorenzo	Count Guillaume
Cravath, Mrs. Paul D.	Daniels, Miss Norma	Delafield, Frederick P.
Crawford, R. L.	Danziger, Virginia	Delamar, Alice A.
Crawford, Wm.	Darby, D. M.	Delano, Lyman
Crile, George W., M.D.	Darlington,	De Lanoy, William C.
Crimmins,	Clinton, Pelham	de Laugier-Villars,
Mrs. Thomas	Dashew, Jacob	Countess
Crocker, William H.	Dater, John Grant	De Lee, Mrs. S. T.
Crocker, W. T.	Davenport, Mrs. Ira	Delin, B.
Crockett, Mrs. Stuart	Davey, Wm. Nelson	de Long,
Cromwell, James W.	Davidge, Wm. H.	Mrs. George B.
Cromwell, Lincoln	Davies, J. Clarence	Deming,
Cromwell, Seymour L.	Davis,	Mrs. Horace E.
Cronin, Richard	Rear-Admiral C. H.	Deming, L. C.
Crosby, Maunsell S.	Davis, Everly M.	Dempsey, Geo. C.
Cross, Eleānore	Davis, George S.	Demuth, Leopold
Cross, George D.	Davis, Gherardi	Denison,
Cross, Miss M. R.	Davis, John W. A.	Mrs. Charles Halbert
Cross, Mrs. R. J.	Davis, Leonard M.	Denison, William S.
Cross, W. R.	Davis, Morgan	Denny, Mrs. Lucy W.
Crowley, Timothy F.	Davis, R. C.	Denton, Dr. Myron P.
Crump,	Davis, Waters S.	Deppé, W. P.
Dr. Armistead C.	Davis, Mrs. William C.	De Sola, Mrs. J. C.
Cullman, Jos. F.	Davison, Miss Alice M.	Despard, Walter D.
Cummin, Gaylord C.	Davison, Alvah	Detmer, Julian F.
Curie, Chas.	Davison, C. B.	Deutsch, Lee
Curiel, H.	Davison, Miss E. H.	De Vinne, T. B.
Curtis, F. Kingsbury	Davison, E. Mora	de Wetter, H.
Curtis, G. Warrington	Davison, George W.	DeWolf, W. Ashley
Curtis, Ronald Eliot	Day, Joseph P.	Dey, Richard Varick
Curtis, W. J.	Day, Miss Sarah J.	Deyo, Robert E.
Curtis, Wm. Edmond	Dazian, Henry	Dick, Mrs. Fairman R.
Curtiss, Roy	Dean, Miss Florence	Dick, J. Henry
Cushing, Howard G., Jr.	de Bary, A.	Dickerman,
Cushman, Burritt A.	Debevoise, Thomas M.	Mrs. Wm. C.
Cutcheon, F. W. M.	de Bruyn, I.	Dickey, Charles D.
Cutler, J. Warren	De Buys, A.	Dickey,
Cutter, Ralph L.	de Forest, H. W.	Mrs. Charles D.
Cypra, Anton	de Forest, Johnston	Diedel, Henry R.
	de Forest, Lockwood	Diefenthāler,
	de Forest, Robert W.	Charles E.
Daily, George M.	de Forest,	Dieterich, Chas. F.
Dakin, Mrs. Henry D.	Mrs. Robert W.	Dill, Miss Mary A.
Dallett, Frederic A.	Degener, John F.	Dillingham, F. A.
Dalziel, Mrs. F.	Degener, John F., Jr.	Dillon, Herbert Lowell
Dana, Paul	De Golyer, E.	Dilworth, Jos. R.

Ditson, Charles H.	Dows, Mrs. David	Dworetzky, Morris
Dittenhoefer, I. M.	Drake, Miss Mary E.	
Dittrich, Hermann	Draper, Charles D.	Earle, Ellis P.
Dix, John A.	Draper,	Eaton,
Dix, Mrs. Morgan	Mrs. William K.	Mrs. Frederick H.
Dobbyn, William A.	Draper, Mrs. Wm. P.	Eaton, Geo. Dummer
Dodd, Frederick G.	Drayton, J. Coleman	Ebbitt, Mrs. W. H.
Dodd, Miss Gertrude	Dressler, Mrs. Oscar	Ebert, C. R.
Dodds, Lida L.	Drexel, Mrs. John R.	Eckart, Edmund
Dodge, Mrs. Arthur M.	Dribben, S. F.	Ecker, F. H.
Dodge, Rev. D. Stuart	Drummond,	Eckstein, M. Mawrice
Dodge, Francis P.	Isaac Wyman	Eddy, Geo. Simpson
Doelger, Charles P.	DuBois, Arthur	Eddy, Wm. H.
Doelger, Frank G.	DuBois, Eugene	Eden, John H., Jr.
Dolan, H. Yale	DuBois,	Eder, James M.
Dominick, Mrs. Bayard	Mrs. Matthew B.	Edgar,
Dominick, Bayard, Jr.	DuBosque, F. L.	Mrs. Herman LeRoy
Dominick, H. B.	Dudley, P. H.	Edgar, Mrs. J. Clifton
Dommerich, L. W.	Duell,	Edge, Mrs. C. N.
Dommerich, O. L.	Major Holland S.	Edie, Richard, Jr.
Donaldson, Robert M.	Duer, Mrs. J. B.	Edmonds, John W.
Donoho, Mrs. Ruger	Dull, Mrs. A. P. L.	Edson, Marmont
Donohugh,	Dumbell, Henry T.	Ehret, George, Jr.
Mrs. Agnes C. L.	Duncan, Frederick S.	Ehret, Mrs. Louis J.
Dorman, Benjamin	Duncan, Mrs. John P.	Ehrich, Mrs. Wm. J.
Dorman,	Duncan, Stuart	Ehrmann, Mrs. E.
Mrs. Richard A.	Duncan, Wm. A.	Eilers, Karl
Dorr, John V. N.	Dunham, Mrs. Carroll	Eilers, Miss Meta
Dorrance, Saml. R.	Dunham, H. F.	Eilshemius, Henry G.
Dorsett, R. Clarence	Dunkak, Henry	Eimer, A. O.
Doscher, Henry	Dunn, Henry E.	Eimer, August
Doubleday, F. N.	Dunning,	Eimer, Walter R.
Doughty, Edgar M.	Dr. William B.	Einstein, I. D.
Douglas,	du Pont, Henry F.	Einstein, Wm.
Miss Elizabeth	Durkee, Eugene W.	Eisman, Max
Douglas, Wm. Harris	Durkee, Richard P. H.	Eisner, William J.
Douglass, Alfred	Duryea, Franklin P.	Eldridge, Lewis A.
Douglass, Benjamin, Jr.	d'Utassy, George	Elkan, Benno
Douglass, Mrs. Chas.	Dutcher, John Gerow	Elkus, Mrs. Abram I.
Douglass, Mrs. G. A.	Du Val, Guy	Elliman,
Dow, Mrs. Frederic G.	Duvall, William C.	Lawrence Bogert
Dowd, Joseph	Dwight, Maj. A. S.	Ellinger, Ernest
Dowd, Wyllys E., Jr.	Dwight, John E.	Elliott, Howard
Downer, William J.	Dwight,	Ellis, Ralph
Downes,	Jonathan, M.D.	Ellis, S. A.
William A., M.D.	Dwight, Mrs. M. E.	Ellsworth, John S.
Downey, John I.	Dwight, P. D.	Elmer, C. W.

Elms, Franklin M.	Fairbank, Wallace	Flagler, John H.
Ely,	Fairchild, Charles S.	Fleitmann, Fred T.
Mrs. William Henry	Fairchild, Mrs. Chas. S.	Fleitmann, H. C.
Emanuel,	Fairchild, S. W.	Fleitmann,
John Henderson, Jr.	Falk, Mrs. G.	William Medicott
Embury,	Falk, Kaufman George	Fleming,
Miss Emma C.	Farber, Charles	Mrs. George W.
Emerson, Miss Julia T.	Farish, John B.	Fleming, Henry S.
Emerson, Mrs. Wm.	Farnam, Thomas W.	Fleming, Matthew C.
Emmerich, Robert D.	Farnsworth, William	Fleming, Stephen B.
Emmet, C. Temple	Farrel, Mrs. Franklin	Fletcher, Henry
Emmet, Miss Lydia F.	Fatman, Morris	Flexner, Mrs. Simon
Emmet, Robert Temple	Fatman, S. A.	Flower, Mrs. Anson R.
Endicott, William	Fay, Charles J.	Floyd, William
Crowninshield	Fay, Dudley B.	Floyd, William T.
Enelow, H. G.	Fearing, George R.	Follet, Richard E.
Engelhard, George H.	Feder, Mrs. Joel	Foot, Sandford D.
English, Geo. W.	Feldman, S. J.	Foran, George J.
Erb, Newman	Ferenbach, Mrs. Carl	Forbin, V.
Erbsloh, R.	Ferguson, Alfred L.	Ford, Franklin
Erdmann, Albert J.	Ferguson, Miss Eleanor	Forni,
Erdmann, Martin	Ferguson,	Madame F. G. Fara
Erdmann, William	Mrs. Farquhar	Forsch, Mrs. F.
Erdwurm, Frank, M.D.	Ferguson, Walton	Forsyth, Robert
Erlanger, Abraham	Ferguson, William C.	Foshay, P. Maxwell
Erlanger, Milton S.	Fergusson, Francis	Foster, Edward W.
Erlanger, Sidney C.	Feustman, L. P.	Foster, Frank B.
Ernst, Irving L.	Field, Wm. B.	Osgood Foster, Harold A.,
Erstein, Benedict	Field,	M.D.
Esberg, Henry	Mrs. Wm. B. Osgood	Foster, Macomb G.
Estey, Mrs. A. R.	Fink, E. C.	Foster, Pell W.
Ethical Culture School	Finn, Mrs. J. A.	Foster, Scott
Ettlinger, Louis	Firuski, Louis L.	Foster, Walter H.
Evangelical Lutheran	Fischer,	Fowler, A. A.
Church of St. Mat-	Hermann, M.D.	Fowler, Mrs. R. L., Jr.
thew, Parish School	Fischer, T. Tasso	Fowler,
Evans, Jackson	Fish, Erland F.	Mrs. Thomas Powell
Evans, Dr. Samuel M.	Fish, Wm. L.	Fox, Mrs. A. J.
Everitt, John W.	Fisher, Edwin A.	Fox,
Ewing, B. M.	Fisher, L. G.	Miss Alice Bleecker
Ewing, Charles	Fisher, Miss Ruth B.	Fox, Frederick P.
Exton, H. E.	Fisher, Samuel H.	Fox, Mortimer J.
Exton, W. G.	Fisher, Walter G.	Fox, Thomas Francis
	Fisk, Pliny	Fox, William
Fabbri, Ernesto G.	Fiske, Alex. P.	Francklyn, Mrs. Cyril
Fahnestock, Harris	Fitzhugh, John L.	Frank, Alfred
Fahs, Louis A.	Fitzpatrick, Frank J. E.	Frank, Edgar E.

Frank, Joseph	Fulle, John H.	Gibson, W. Frazer
Frank, Joseph S.	Fuller, Mrs. Eugene	Gidding, Jacob Meyer
Frank, Mrs. Laurence	Fuller, Melville B.	Gilbert, Mrs. C.
Frank, Lawrence D.	Fulton, John H.	Gilbert, Clinton
Franke, Julius	Fulton, Robert Edison	Gilbert, Miss Ellen G.
Frankel, D. J.	Funke, Herbert F. L.	Gilbreth, Frank B.
Frankel, Herbert		Gilchrist, George R. E.
Frankel, Jacob L.		Gillespie, Robert McM.
Frankenberg, Henry E.	Gade, Wm. H. F.	Gillespie, Samuel H.
Frankenberg,	Gaillard, Mrs. Wm. D.	Gillies, Edwin J.
Werner V.	Galban, Eugenio	Gilroy, Thomas F., Jr.
Frankenstein, Edwin	Gale, Mrs. Thomas K.	Gladding, J. R.
Frankfeld, B.	Gallatin, Albert	Glauber, M.
Frankfield, A.	Gallatin, Mrs. Albert	Glazier, Henry S.
Frankfort, M.	Gallatin, Goelet	Gleason, Herbert P.
Franklin, George S.	Galloway, Mrs. R. M.	Glenn, John M.
Fraser, Mrs. A. V.	Gallowhur, W. G.	Glyn, W. E.
Fraser, George C.	Ganss, Herman O.	Goadby, W. H.
Fraser, Miss J. K.	Gardin, John E.	Goddard,
Fraser, Miss S. Grace	Gardiner,	Mrs. Frederic N.
Frauenthal,	Mrs. Robert A.	Goddard, Mrs. Morrill
Henry W., M.D.	Garfunkel, Aaron	Godfrey, Mrs. E. D.
Frederick, Mrs. Leopold	Garrard,	
Freedman, Leo	Miss Margaret H.	Godley,
Freeman, Geo. W.	Garrett, John W.	George McMurtrie
Frelinghuysen,	Garrett, Robert	Goffe, Dr. J. Riddle
Frederick	Garrett, Mrs. Thos., Jr.	Goldman, Albert
Frelinghuysen,	Gartland, George E.	Goldman, Julius
Mrs. Frederick	Garver, John A.	Goldman, Samuel P.
Frelinghuysen, P. H. B.	Gaston, Wm. G.	Goldman, Wm.
French, Daniel C.	Gawtry, Lewis B.	Goldmann, Nathan
French, Mrs. Daniel C.	Gay, William O.	Goldsmith, Frederick
Frese, Fred	Gayley, Florence	Goldsmith, Mrs. H. B.
Frew, Walter E.	Gayley, Mrs. Gardiner	Goldsmith, James A.
Friedlander, Louis	Gaylord, Irving C.	Goldsmith,
Friedlander, Victor	Geer, Robert C.	Mrs. Maurice
Friedlander, Wm. S.	Geer, Walter	Goldsmith, Max
Fries, Miss Emilie	Geiger, J., M.D.	Goldstone, Abraham L.
Fries, Harold H.	Geigerman, Charles	Goldwasser, I. Edwin
Frissell, A. S.	Geller, Frederick	Goldzier, Morris
Frissell, Miss Leila S.	Gelshenen, William H.	Good, Dr. Robert
Frothingham,	Gerrish, Frank Scott	Goodfriend, Jacob
Major John W.	Gerry, Robert L.	Goodfriend, Meyer
Frothingham,	Gertzson, Sven, D.D.S.	Goodhue, Chas. E.
Mrs. Randolph	Gibb, Mrs. H. E.	Goodwin, Walter L.
Fuld, Felix	Gibb, Dr. W. Travis	Gordon, Fred W.
Fuld, Sol.	Gibson,	Gordon, George B.
Fulle, Chas. A.	Miss Florence Wier	

Gordon, Henry W.	Gross, Moritz	Hamburger, L.
Gordon, Mrs. Wm. S.	Grossman,	Hamburger, Samuel B.
Gossler, G. H.	Mrs. Edward A.	Hamerschlag, Royal P.
Götberg, Miss Anna S.	Grosvenor, Thomas	Hammersley,
Gotshall, W. C.	Howard, M.D.	Louis Gordon
Gottgetreu, Wm.	Gruner, William C.	Hamilton, Alexander
Gottheil, Leon	Gude, O. J.	Hamilton, Miss E. S.
Gottheil, Mrs. Paul	Guernsey,	Hamilton,
Gotthold, Arthur F.	Henry William	Mrs. W. Pierson
Goudchaux, Irma	Gugenheim, M.	Hammerslough,
Gould, Charles A.	Guggenheim, B.	Alexander J.
Gould, Edwin	Guggenheim, Simon	Hammerslough,
Gould, Horace S.	Guggenheim,	Edward
Grace, Mrs. L. A.	Mrs. Simon	Hammerslough,
Graham, Miss M. D.	Guggenheim, William	Mrs. Samuel
Grasselli, C. A.	Guinness, Mrs.	Hammill, C. W.
Gratz, Anderson	Benjamin	Hammond,
Graves, Henry, Jr.	Guinzburg, A. M.	Mrs. John Henry
Gray, Arthur R.	Guinzburg, Mrs. Victor	Hammond, Ogden H.
Gray, Henry G.	Guiterman, Percy L.	Hanauer, Jerome J.
Gray,	Guiterman, Rudolph	Hance, John A.
Mrs. H. Winthrop	Gunari, Andrew P.	Hand, Joseph C.
Graydon,	Gurnee, Mrs. Walter S.	Handy, Parker D.
Mrs. Clendenen	Gushee, R. A.	Hansen, Ferdinand
Greeff, Bernhard, Jr.	Gutterson, John Harris	Harbeck, Mrs. J. R.
Greeff, Ernest F.	Guye, C. H.	Hard, De Courcy L.
Green, Fred W.		Hardenbergh,
Greenberg, Arthur	Haas, Miss Edith	Mrs. T. E.
Greene, Miss	Hackett, Frank S.	Hardenbergh,
Augusta Borland	Haff, Frank E.	Mrs. W. P.
Greene, G. S., Jr.	Hage, Daniel S.	Hardin, William B.
Greenbaum, Fred H.	Hagedorn, Hermann	Harding, Eugene C.
Greenhut, Benedict J.	Haggin, Mrs. Terah	Hardinge, Mrs. H.
Greening, Alfred C.	Hague, Miss Marian	Hardon,
Greenwood,	Haigh, George C.	Mrs. Henry W.
Miss Eliza R.	Haines, Charles D.	Hardtmayer, Dr. H. R.
Greer, Charles	Hale, Dr. Henry E.	Hardy, Charles J.
Greer, Louis M.	Hall, Henry B.	Hardy,
Greims, Mrs.	Hall, Henry J. S.	Dr. Sarah Belcher
Herbert Spencer	Hall, Mrs. John H.	Hare, J. Montgomery
Griffin, W. V.	Hall, William Webster	Harlow, Arthur H.
Grinnell, E. Morgan	Hallett, Harrison H.	Harmon, Mrs. Clifford
Griscom, Mrs.	Halls, William, Jr.	Harmon,
Clement Acton	Halsey, Robert H.	Mrs. Frank D.
Griswold, Mrs. Chester	Halsey, R. T. H.	Harriman, E. Roland
Griswold, Wm. E. S.	Hamann, Wm. A.	Harrington, Mary E.
Gross, James S.	Hamburger, D. Ellis	Harris, Abraham

Harris, Albert H.	Heckscher,	Herzog, Paul M.
Harris, Alfred	Mrs. G. Maurice	Herzog, Samuel A.
Harris, Chas. C.	Hedges, Job E.	Hess, Dr. Alfred F.
Harris, Geo. A.	Heide, Henry	Hess, Simon
Harris, Ida M.	Heide, Henry, Jr.	Hess, Victor R.
Harris, Richard	Heide, Herman L.	Hetzler, Theo.
Harris, Mrs. Victor	Heide, William F.	Hewitt, Mrs. Charles B.
Harrison, Archibald	Heilner, Julius	Hewitt, Mrs. E. R.
Harrison, L.	Heimann, Julius	Hewitt, Peter Cooper
Harrison, Philip	Heine, J. F.	Hewlett, Walter Jones
Harrison, Sidney	Heinsheimer, Alfred M.	Heydt, Herman A.
Hartley, Thos. R.	Heller, Abraham A.	Heymann, Albert
Hartshorn, H. I.	Heller, Samuel	Heymann, Charles E.
Hartshorn, Stewart	Heller, William H.	Heymann, Seymour E.
Hartshorne, Edward C.	Hellman, Edgar A.	Hicks, John M. W.
Haskell, J. Amory	Hellman, Milo, D.D.S.	Higbie, James S.
Hasslach, Jacob	Helme, Mrs. Geo. A.	Higgins, Arthur G.
Hastings, Thomas	Helmuth,	Higgins, R. H.
Hatch, Edward, Jr.	John Lockman	Hilborn, Walter S.
Hatch,	Hencken, Hancke	Hilder, Moritz
Mrs. Harold Ames	Henderson, Mrs. E. C.	Hill, Robert Carmer
Hatcher, Arthur B.	Henderson, John B.	Hilyard, George D.
Hathaway, Charles	Hendricks, Mrs. Edgar	Hinckley, Julian
Havemeyer, F. C.	Hendricks, Harmon W.	Hinckley,
Havemeyer, H. O.	Henry,	Mrs. Samuel N.
Havemeyer, J. C.	Mrs. Franklin S.	Hine, Francis L.
Havemeyer, John F.	Henry, Miss H. Maud	Hine, Lyman N.
Havemeyer, T. A.	Henry, James	Hine, Thomas A.
Haven, Mrs. G. G.	Henry, Nelson H.	Hines, Walker D.
Haven, J. Woodward	Henry Philip W.	Hirsch, Chas. S.
Hawes, W. Gerald	Hernsheim, Joseph	Hirsch, Mrs. H.
Hawk,	Hernstadt, William L.	Hirsch, Morris J.
Mrs. William Samuel	Heroy, W. W.	Hirschberg, M. H.
Hawkes, Eva	Herreshoff,	Hirschhorn, Fred
Hawkes,	J. B. Francis	Hirschland, F. H.
Mrs. McDougall	Herrick, Harold	Hirshon, Mrs. Charles
Hawley, Mrs. Henry E.	Herrick, Newbold L.	Hitchcock, Miss Maude
Hawley, Samuel B.	Herrick, Mrs. W. W.	Hoadley, Frank E.
Hay, Clarence L.	Herrman,	Hoagland,
Hayes, Carroll	Mrs. Henry S.	Mrs. Joseph C.
Haynes, W. deF.	Herrmann, Charles E.	Hochschild, Berthold
Hays, David S.	Herrmann, F.	Hochschild, Harold K.
Hayward, J. B.	Hershey, Andrew H.	Hodenpyl, Anton G.
Hazard, Mrs. R. G.	Herter, Albert	Hodenpyl, Mrs. Eugene
Hazen, George H.	Herty, Chas. H.	Hodes, Hal
Heck, George C.	Herz, Fred. W.	Hodges, Geo. W.
Heckscher, Mrs. August	Herzog, Max	Hoe, Geo. E.

Hoe, Richard M.	Horr, L. Wm.	Hurlbut, Miss
Hoe, Mrs. Robert	Horst, L. G.	Margaret C.
Hoffman, Charles L.	Horvitz, Harry	Hurst, Mrs.
Hoffman, Charles W.	Hoskins-Miner,	Albert Edward
Hoffman, F. B.	Miss Charlotte	Hussey, William H.
Hoffman, Harry L.	Hotchkiss, Henry D.	Husted, Miss
Hoffman, Joseph E.	Houghton, Clement S.	M. Katharine
Hogan, Mrs. Jefferson	House, Edward M.	Husted, Seymour L., Jr.
Hoggson, W. J.	House, Frederick B.	Hutcheson, C. L.
Holabird, William	Housman, Clarence J.	Hutcheson, Wm. A.
Holbrook,	Hovet, Henry A.	Hutchins, A. S.
Mrs. Edward	Howard, Fredk. T.	Hutchins,
Holden, Dean Hawley	Howell, M. D.	Mrs. R. G., Jr.
Holden, Mrs. Edwin B.	Howell, Thomas A.	Hutchinson, Cary T.
Holden, Laurence C.	Howells, Mrs. John	Huyler, C. D.
Holland, Arthur L.	Howes, Mrs. Reuben	Huyler, David
Hollenback,	Hoyt, Elizabeth S.	Huyler, Frank DeK.
Miss Amelia B.	Hoyt, Francis S.	Hyatt, A. M.
Hollis, Dr. Austin W.	Hoyt, Geo. H.	Hyde, A. Fillmore
Hollister,	Hoyt, Geo. S.	Hyde, Mrs. Augustus L.
Frank C., M.D.	Hoyt, Gerald L.	Hyde, Mrs. Clarence M.
Hollister, Granger A.	Hoyt, Miss Gertrude L.	Hyde, Courtney
Holt, L. Emmett, M.D.	Hoyt,	Hyde, E. Francis
Holt, R. S.	Miss Virginia Scott	Hyde,
Holter, Mrs. E. O.	Hubbard,	Seymour Worrall
Holzmaister, L. V.	Ernest V., M.D.	Hyde, W. Truslow
Holzman, A.	Hubbard, Louis B.	Hyman,
Holzman, Elkan	Huber, Mrs. J. M.	Abraham, M.D.
Homan, B. H.	Hughes, Charles E., Jr.	
Homer, Chas. C., Jr.	Huidekoper, Edgar	Ingalls, Fay
Homer, Francis T.	Hulswit, Frank T.	Ingersoll, Robt. H.
Hooker, Mrs. Elon H.	Humphrey, Martha K.	Ingraham, Geo. L.
Hooker,	Humphrey,	Ingraham, Mrs. George
Mrs. Ransom S.	Rev. Wm. Brewster	Inman, John H.
Hoole, C. H.	Humphreys, Fredric E.	Innes, O. G.
Hope, Walter E.	Humphreys, F. W.	Inslee, Edwin W.
Hopkins,	Humphreys, Geo. H.	Isaacs, Stanley M.
Miss Augusta D.	Hunt, W. Roger	Iselin, C. Oliver
Hopkins, Emma B.	Hunter, Arthur M.	Iselin, Miss Georgine
Hopkinson, Ernest	Hunter, George Leland	Iselin, Lewis
Hoppin, G. Beekman	Hunter, Stephen C.	Iselin, Mrs. William E.
Hoppin,	Huntington, F. J.	Iselin, Wm. E.
Mrs. W. W., Jr.	Huntington, Mrs. R. P.	Isham, William B.
Hopwood,	Hüpfel, Adolph G.	Isham, Mrs. Wm. B.
Mrs. Everard B.	Hüpfel, Chris. G.	Ives, Frederick D.
Horowitz, Dr. Philip	Hüpfel, J. Chr. G.	
Horr, A. R.	Hurd, Dr. Lee M.	Jackson, Mrs. C. D.

Jackson,	Johnson,	Kaufman, Fred
Francis DeMilt	F. Elmer, M.D.	Kaufmann, B.
Jackson, Mrs.	Johnson, Gilbert H.	Kaufmann, H. M.
Frederic W.	Johnson, Guy B.	Kaufmann, Julius
Jackson, Frederick W.	Johnson, Thos. W.	Kaufmann, Mrs. M. J.
Jackson, Jas. W.	Johnson, Mrs.	Kaupe, Albert G.
Jackson, Mrs. Percy	Wolcott H.	Kayser, Henry A.
Jackson, Samuel	Johnston, J. Herbert	Kean,
Jacobus, John S.	Johnston,	Mrs. Hamilton Fish
Jaffray, Robert	Mrs. J. Herbert Keech,	
James, Ellerton	Johnston,	Mrs. Frank Browne
James, Henry	Dr. Marius E. Keeler,	
James, Henry A.	Jones,	Mrs. Charles Bradley
James, Mrs. Walter B.	Mrs. Adam Leroy	Keen, Barton L.
James, Mrs. Wortham	Jones, A. H.	Keene, Charles S.
Jameson,	Jones,	Keep, C. H.
Mrs. Edwin C.	Mrs. Cadwalader	Keith, Henry M.
Janeway, Henry H.,	Jones, De Witt Clinton	Keith, Minor C.
M.D.	Jones, Mrs. Dwight A.	Keith, Mrs. Minor C.
Jansen, Ed.	Jones, Francis C.	Kelchner, William W.
Jaretzki, Mrs. Alfred	Jones, Frank Morton	Keller, Joseph F.
Jarvie, James N.	Jones, H. Bolton	Keller, S.
Jay, Mrs. Augustus	Jones, William R.	Kellers, Fred. T.
Jeancon, J. A.	Jordan, Richard, M.D.	Kelley, Augustus W.
Jefferson,	Joseph, Eli	Kellogg, L. D.
John Percival	Joseph, Mrs. Hugo S.	Kellogg,
Jekyll, Mrs. Arthur B.	Joseph,	Mrs. Morris W
Jeltrup, Henri	Mrs. John A., Jr.	Kellogg, Mrs. R. S.
Jenkins, A. C.	Josephthal, Louis M.	Kemmerer, M. S.
Jenkins, Alfred W.	Judson, Mrs. Albert L.	Kemp, Prof. James F.
Jenkins, Mary Bernice	Judson, William D.	Kempner, Elias
Jenks, Mrs. Robert I.	Jungbluth, Karl	Kennan, George
Jennings, Miss A. B.		Kennedy, Dr. Harris
Jennings, Percy H.	Kaesche, Max B.	Kennedy, Henry W.
Jennings, Mrs.	Kafka, Otto	Kennedy, Mrs. John S.
Percy Hall	Kahle, Mrs. Julie	Kennerly, M. M.
Jennings,	Kahn, Arthur J.	Kent, Edwin C.
Mrs. Philip B.	Kahn, Otto	Kent, G. H.
Jennings, Robt. E.	Kahn, Otto H.	Keppel, David
Jennings, Walter	Kahn, Dr. Robert	Kern, William M.
Jephson, George S.	Johnstone	Kerr, E. Coe
Jermain, Miss M. C.	Kahn, Walter N.	Kerr, John B.
Jetter, J. Edward	Kahrs, J. Henry	Kerr, John Clapperton
Jewett, George L.	Kane, Mrs. De Lancey	Kerrison, Dr. Philip D.
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Jobe, Miss Mary L.	Kassing, Edwin S.	Keuffel, W. G.
Johnson, Mrs. Bradish	Kathan, Reid A.	Keyes, Dr. E. L.

Keyser, Mrs. Samuel	Koch, William T.	Ladd, W. M.
Kibbee, W. B.	Kodjbanoff, Basil G.	La Dow, Stanley V.
Kidder, Edward H.	Koenig, Otto	Lagai, Dr. G.
Kieger, Emil L.	Kohler, Miss M. E.	Lage, Frederico
Killeen, Edward V.	Kohlman, Chas.	Lagemann, Miss A.
Kilner, S. E.	Kohlman, Mrs. M. L.	Lagowitz, Miss H. L.
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Kimbel, Henry	Kohn, Mrs. Walter T.	Mrs. Henry J.
King, Mrs. Edward	Kohns, Lee	Lamb, Dr. Albert R.
King, Ellen	Kohnstamm, Emil V.	Lambden, John F.
King, Herbert T.	Kohnstamm, Lothair S.	Lambelet, Mrs. H.
King, Miss Isabella C.	Koles, Henry M., M.D.	Lambert, Adrian V. S.
King, James Gore	Konta, Alexander	Lambert, Samuel W.
King, Jerome A.	Koplik, Isador	Lambert, Vitus C.
Kingsford, Daniel P.	Kops, Daniel	Lamont, T. W.
Kingsford, Miss	Kops, Mrs. Max	Lancashire, Mrs. J. H.
Margaret S.	Kosmak, Geo. W., M.D.	Lancashire,
Kingsley, W. M.	Kovacs, Dr. Richard	Dr. J. Henry
Kinney, Morris	Kozminski,	Landon, Francis G.
Kinney, Warren	Mrs. Maurice W.	Landon, Henry Hutton
Kip, Mrs. Garrett B.	Kraemer, J. C., Jr.	Lane, Edward V. Z.
Kip, W. Ruloff	Kremer,	Lane, James Warren
Kirchberger, M.	Mrs. William N.	Lane, Melvin
Kirkpatrick, John	Kress, Claude W.	Lane, Wolcott G.
Kirkpatrick,	Kridel, Alexander H.	Lange, Gustav, Jr.
Mrs. Thomas	Krower, Louis	Langeloth, Mrs. Jacob
Kissel, Mrs. G. E.	Kruse, Edward H.	Langmann, Mrs. G.
Kissel, W. Thorn	Kudlich, H. C.	Langstadter, Aaron
Kitchel, Allan F.	Kugelman, Julius G.	Langton, John
Klass, G. P.	Kuhirt, Geo. A.	Langzettel, Mrs.
Klee, Sigmund	Kuhn, Arthur K.	Marion B. B.
Klein, D. Emil	Kuhn, August	Lanier, Reginald B.
Klein, Leo M.	Kuhn, Edward	Lapham, Mrs. John J.
Kleinberger, François	Kuhn, Julius	Lapham, Lewis H.
Klenke, William H.	Kuhn, Mrs. Walt	Lapsley, Anna Welsh
Klingstein, Charles	Kühne, Mrs.	Larkin, Mrs. James S.
Klipstein, E. C.	Frederick J.	Larkin, Wm. B.
Knapp, Edward J.	Kursheedt, Roland S.	la Rosa, Carlos, Jr.
Knapp, Mrs. H. K.	Kurzman, Charles C.	Lathrop, Alanson P.
Knapp, Joseph P.	Kuser,	Lathrop, Henry R.
Knight, Mrs. J. P., Jr.	Mrs. Anthony R.	Laudler, Mrs. Geo., Jr.
Knight, Samuel Howell	Kuser, John Dryden	Lauer, Edgar J.
Knoblauch Geo. W.	Kuttroff, Adolf	Lauten, Henry G. F.
Knoche, G. A.	Kuttroff, Fredk.	Lavelle, M. J.
Knoedler, Roland F.		Lawrence,
Knowlton, Eben B.	La Bar, Eugene	Mrs. Arthur W.
Koch, Wilhelm	Lacombe, E. Henry	Lawrence, Emlen N.

Lawrence,	Lester, George Bacon	Littauer, Lucius N.
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Lawrence, Townsend	Leventritt, David	Mrs. John R.
Lawrence, W. V.	Levi, Albert A.	Livingston, Miss A. P.
Lawson, John D.	Levi, Emil S.	Livingston,
Lawton, William W.	Levi, Philip J.	Mrs. Charles L.
Lea, Charles M.	Levine, Edmund J.	Livingston, Philip
Leach, Henry Goddard	Levison, Benno	Lobsitz, Maurice
Leale, Charles A., M.D.	Levor, G.	Lockwood,
Leary, Mrs. George	Levy, Edgar A.	Dr. George Roe
Leavitt,	Levy, Ephraim B.	Loeb, C. M.
Mrs. Charles W.	Levy, Louis S.	Loeb, J.
Leberman, Jacob	Levy, Moe	Loeb, Mrs. Morris
Le Blanc, Alfred	Lewis, Mrs. August	Loeb, Mrs. William, Jr.
Ledoux, Albert R.	Lewis, Mrs. Eugene	Loewenthal, Mrs. Julius
Ledyard,	Lewis,	Loewi, Hugo V.
Mrs. Lewis Cass	Mrs. Frederic Elliott	Long, Louis
Lee, Mrs. Arthur	Lewis, Miss Hope	Lord, Daniel M.
Lee, Charles N.	Lewis, Montgomery H.	Lorenz, Mrs. Leo
Lee, Frederic S.	Lewis, Richard V.	Loring, D. A.
Lee, Ivy L.	Lewis, Robert Parker	Loring,
Lee, J. W., Jr.	Lewis, Wm. J., M.D.	Daniel Alden, Jr.
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Lee, Samuel	Lewisohn, Sam A.	Louderback, Arthur E.
Leeds, Mrs. Warner M.	Lewisohn, Mrs. Walter	Lounsbery, Judson
Le Fevre, C. R.	Lexow, Mrs. Allan	Lounsbery, Richard
Lefferts, Mrs. Barent	Lichtenstein, Oscar R.	Love, E. G.
Lefferts, Marshall C.	Lichtenstein, Paul	Loveland, Major
Legg, George	Lichtenstein, Mrs. Paul	John W.
Leggett, Clinton H.	Liddle, Joseph G.	Lovett, R. S.
Lehmaier, James M.	Lieb, Charles C., M.D.	Low, Ethelbert I.
Lehmaier,	Lieb, J. W.	Low, Mrs. Seth
Mrs. Louis A.	Lieber, Dr. Hugo	Low, William
Lehman, Arthur	Liebmann, Mrs.	Gilman, Jr.
Lehman, Harold M.	Charles J.	Lowenstein, Oscar
Lehman, Irving	Liebmann, Samuel	Lowndes, M. E.
Lehman, Isidore H.	Lilienthal, Albert M.	Lowrey, Mrs. G. C. W.
Leigh, R. Walter	Lilienthal, Jos. L.	Lowther,
Leland, Mrs. Amory	Lilly, Mrs. Henry	Christopher M.
Lemmon, Robert S.	Limburg, Herbert R.	Lowther, George
Lemp, Louis	Lindenmeyer, Fritz	Ludington, Mrs.
Leon, Henry	Lindheim, Norvin R.	Charles H.
Leonori, Charles L.	Lindsay, C. Seton	Ludlow, Mrs. Banyer
Le Roy, Mrs. E. A.	Lindsey, Edward	Ludlow, Edwin
LeRoy, Dr. Louis C.	Lisman, Frederick J.	Ludlow, Mrs. E. L.
Leslie, J. C.	Lissauer, Robert	Ludlow, Israel
Lester, A. Edward	Lissberger, Milton L.	Ludlow, James B.

Ludlum, Albert C.	Mallet-Prevost, S.	May, Selon
Ludlum, C. A.	Malone, L. Wm.	Mayer, M. R.
Lueder, E. L.	Manchester, Percival	Mayer, Nelson B.
Lueders, George	Mandell, K.	Mayer, Mrs.
Lufkin, E. C.	Manges, Dr. Morris	R. A. de Lima
Luke, Adam K.	Mansfield, Howard	Mayer, Theresa
Luke, David L.	Mantle, J. G. C.	Mayo, Mrs. George H.
Luke, John G.	Mapes, Eugene E.	Mayor, Dr. Alfred G.
Lummis,	Marble, William A.	McAdoo, William
Benjamin Rush	Marbury,	McAfee, John Knox
Luquer, Lea Shippen	Miss Elisabeth	McAleenan, Joseph A.
Lusk, Miss Anna H.	Marcosson, Isaac F.	McAllister,
Lustbader, Samuel, Jr.	Marcus, B. K.	Robert Edgar
Lüttgen, Walther	Marcus, Samuel	McAlpin, Dr. D. H.
Lybrand, William M.	Marcuse, Alexander J.	McAlpin, George L.
Lyeth, J. M. R.	Marcuse, Bernhard	McBride, Mrs. Herbert
Lyman, Henry D.	Markle, John	McBride, Thomas J.
Lyman, Theodore	Markle, Mrs. John	McBride, Wm. M.
Lynch, Mrs. John H.	Marks, Maurice	McCagg, Louis B.
Lynch, W. J. Turner	Marshall, Robert	McCall, John C.
Lyons, Howard J.	Marston, Edgar L.	McCarthy, J. M.
	Marston, Edwin S.	McClintock, Gilbert S.
	Martin, Bradley	McClure, Samuel G.
Maas, Gustavus	Martin, Robert W.	McCourt, James
Maas, Milton A.	Martin, Walton, M.D.	McCrea, W. S.
Mabon, J. B.	Martin, W. M.	McCreery,
MacCurdy, George	Marvin,	Henry Forbes
Grant	Langdon Parker	McCulloh, Charles S.
MacFadden, Carl K.	Masbach, Robert J.	McCurdy, Robert H.
MacFadden, Robyn	Mason, Miss Fanny P.	McCutchen, Chas. W.
Macfarlane, Wm. M.	Mason, Mrs. Frances B.	McDonald, Ellice
MacIver,	Mason,	McDonald, Wm.
David Randall	Mrs. George Grant	McDuffie,
Mack, Arthur C.	Massey, Mrs. George	Marshall William
Mack, Arthur J.	Massey,	McElheny,
Mack, Fred. A.	Miss Harriet F.	Victor K., Jr.
Mack, M.	Masters, Miss Eliza B.	McEwen, James R. R.
MacKee, Geo. M.	Masters, Francis R.	McGee, Wm. H.
Mackenzie, Mrs.	Masters, Sarah W.	McGinley, J. R.
Hugh Ross	Mastin, Mrs. J. Edward	McGregor, Robert
Mackenzie, Kenneth K.	Mather, Samuel	McIlhenny, E. A.
Mackey, Oscar T.	Mathesius, Fredk., Jr.	McIlvaine, Tompkins
MacManus, Edward A.	Matheson, Mrs. W. J.	McIntyre, John G.
Macy, W. Kingsland	Matheson, Wm. J.	McKelvey, Charles W.
Mager, F. Robert	Mathews, Dr. Frank S.	McKelvey, J. J.
Mainzer, Herbert R.	Mathewson, Charles E.	McKelvy, Robert
Mainzer, Robert H.	May, George O.	McKenna, Thos. P.

McKenney, Henry P.	Merritt, Dr. Arthur	Moller, William G.
McKeown, Matilda J.	Hastings	Molleson, George A.
McKernon, Dr. Jas. F.	Metcalf, Stephen O.	Mommer, Ewald
McKim, Mrs. Haslett	Metcalf, Mrs. Walter	Monae-Lessèr, Dr. A.
McKim, John A.	Willson	Monae-Lessèr, Mozart
McKim, Le Roy	Metcalfe, Henry	Monroe, Robert Grier
McKnight, Charles	Meyer, Mrs. Eugene	Montague, C. D.
McLain, F. J.	Jr.	Montgomery, Carleton
McLane,	Meyer, Felix	Montgomery,
Miss Elizabeth	Meyer, Harry H.	Charles S
McLane, Miss Sophie	Meyer, Harry J.	Montross, N. E.
Hoffman	Meyer, J. Edward	Moore,
McLane, Thomas S.	Meyer, Dr. Julian J.	Major Barrington
McLaren, W. A.	Meyer, Max	Moore, Casimir de R.
McLean, Miss Ethel L.	Meyer, Robert B.	Moore,
McLean, John Emery	Mezes, S. E.	Mrs. Casimir de R.
McLean,	Mielke, Henry	Moore, Frederic P.
Malcolm, M.D.	Migel, J. A.	Moore, Russell W.
McMahon,	Milbank, Albert G.	Moore, William A.
Rev. Joseph H.	Milhau, Louis J. de	Moorhead, Horace R.
McManus, Edward F.	Millard, William J.	Moos, Louis H.
McMillan, Francis W.	Miller, Mrs. Charles E.	Moot, Adelbert
McNair, William	Miller, Clifford L.	Morgan, Miss Anne
McNall, Robert H.	Miller, C. R.	Morgan, E. D.
McNaugher, David W.	Miller, Emanuel	Morgan, Mrs. Junius S.
McNeir, George	Miller, J. Doull	Morgan,
McRoberts, Samuel	Miller, Nathan J.	W. Forbes, Jr.
McWilliams, Howard	Miller, Simon	Morgan,
Mead, Charles N.	Miller, William W.	Wm. Fellowes
Mead, Herbert, Jr.	Millett, Stephen C.	Morgenthau, Henry
Means, Philip	Milliken, Hugh K.	Morgenthau,
Ainsworth	Mills, Dr. Adelaide	Mrs. Henry
Meeker, Henry E.	Mills, Frederic C.	Morris, Ira Nelson
Meeks, Howard V.	Milne, Clyde	Morris, Mrs. John A.
Mehl, Henry	Milne, George D.	Morris, Lewis Spencer
Meinhard, Morton H.	Miner, Edward G.	Morris, Louis M.
Melcher, John S.	Minford, Levis W.	Morris, Mrs. L. R.
Mellen, Chase	Mitchell, Miss Addison	Morris, Stuyvesant F.
Meloy, Andrew D.	Mitchell, A. M.	Morris,
Menke, William	Mitchell, C. E.	Theodore Wilson
Menken, S. Stanwood	Mitchell,	Morrison, A. Cressy
Merriam, Edwin W.	Mrs. John Murray	Morse, Perley
Merriam, Henry F.	Mitchell, Wesley C.	Mortimer, Geo. T.
Merrihew, George W.	Mitchell, Mrs. William	Morton, Mrs. Paul
Merrill, Edwin G.	Mitchell, Wm.	Morton, Quincy L.
Merrill, John Lenord	Moffat,	Mosenthal, Philip J.
Merrill, Mrs. Payson	Mrs. R. Burnham	Moses, Mrs. E.

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Moses, Mrs. James	Nesmith, James	Obermeyer, Jos.
Moses, Moss Ferris	Nessler, H. D.	Obrig, Mrs. Adolph
Mosle, A. Henry	Neuburger, David	Ochs, Adolph S.
Mosle, Max A.	Neugass, Isidore	O'Connell, Dr. J. H.
Mosman, Philip A.	Neustadt, Mrs. S.	O'Connor, James C.
Moss, Augustus L.	New, Wm. Wesley	Offerman, John
Motley, Jas. M.	Newberry, Truman H.	Ogden, David B.
Mott, Henry C.	Newbold, Fredc. R.	Ogden, J. R.
Mott, Mrs. J. L.	Newborg, M.	Ogle, Mrs. Ponsonby
Mott, Mrs. John B.	Newburger,	Olcott, E. E.
Mott, Miss Marian	Mrs. Lester M.	Olin, S. H.
Mowry, Eugene C.	Newcomb,	Ollesheimer, Henry
Muendel, Christina	Mrs. James E.	Olney, Elam Ward
Mulford, Edwin H.	Newcomb, James G.	Olyphant, Robert
Müller, Carl	Newhall, Henry B., Jr.	O'Neill, Edwin F.
Müller, Mrs. Carl	Newton, Mrs. Francis	Opdycke,
Muller-Schall, Fred	Nichols, C. W.	Mrs. Emerson
Mullins, W. H.	Nichols, William B.	Opdycke,
Mundy, Floyd W.	Nicholson, John E.	Mrs. Leonard E.
Munn, Dr. John P.	Nickerson, Hoffman	Oppenheim, J.
Munsey, Frank A.	Nicoll, Benjamin	Oppenheim, Laurent
Munson, C. W.	Nicoll, Mrs. Benjamin	Oppenheimer, Harry C.
Munson, S. L.	Nicoll, Mrs. Fancher	Oppenheimer, Julius
Murdock, Harvey	Nies, Rev.	O'Reilly, John B.
Murphy, G. M.-P.	James B., Ph.D.	Orr, William C.
Murphy, Wm. C.	Nolan, John H., M.D.	Orteig, Raymond
Murray, F. W., M.D.	Nones, Walter M.	Orvis, Edwin W.
Murray, J. Archibald	Noonan, W. T.	Osborn, Mrs.
Murtha, Thomas F.	Norman,	Frederick H.
Muschenheim, Fred. A.	Mrs. Bradford	Osterholt, Ehler
Musliner, Silas	Nolker, Robert E.	Otis, Mrs. George L.
Myers, L.	Norrie,	Otis, Harold
Myers, William S.	Mrs. E. L. Breese	Ottinger, Marx
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	Northrup, Wm. P.	
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Nally, Edward J.	Noyes, H. F.	Paddock,
Nash, William A.	Nugent, Frank L.	Mrs. Eugene H.
Nathan, Miss Bessie	Nute, Mrs. John W.	Page, F. Palmer
Nathan, Harmon H.		Page, Wm. H.
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Necarsulmer, Henry	Oakes, Gill N.	Pagenstecher, A., Jr.
Neeser, John G.	Oastler, Dr. F. R.	Pagenstecher, G.
Neilson, Ernst A.	Oberdorfer, George	Paine, A. G., Jr.

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Painter, Dr. H. McM.	Peabody, Stephen	Mrs. Romaine A.
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Palmer, Edgar	Pearson,	Pickhardt, Carl
Palmer, Howard	Mrs. Frederick	Piel, Gottfried
Palmer, John Stanton	Peck, Charles E.	Pierrepoint, Seth Low
Palmer, Laura A.	Peck, Charles H.	Pierson, Mrs. C. W.
Palmer, N. F.	Peck, Morton R., M.D.	Pierson, D. H.
Palmer, William J.	Peckham,	Pierson, J. Fred
Palmieri, F. Louis	Mrs. William H.	Pinchot, Mrs. Gifford
Pappenheimer,	Pedersen, Dr. James	Pinkerton, Allan
Alvin M., M.D.	Pedersen, Victor C.,	Piquet, Lily S.
Pardee, Ario	M.D.	Pitkin, William Taft
Pardoe, J. B., D.D.S.	Pegram,	Pitman, Gen. John,
Parish, Mrs. Henry	Edward Sandford	U.S.A.
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Park, F. A.	Pell, Walden	Pitney, John O. H.
Parker, A. W.	Perera, Lionello	Place, Ira A.
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Parker, Winthrop	Perkins, F. Curtis, Jr.	Platt, Charles H.
Parks, Elton	Perkins, G. Lawrence	Platt, Mrs. Frank H.
Parodi, Dr. Teofilo	Perkins,	Platt, Henry B.
Parson,	Miss Hattie W.	Platt, Livingston
Hubert Templeton	Perkins, R. P.	Platzek, M. Warley
Parsons, Chas. W.	Perlman, L. H.	Plaut, Edward
Parsons, Edgerton	Perry, O. B.	Plaut, Joseph
Parsons, Edwin	Perry, Mrs. William A.	Polhemus, Miss R. A.
Parsons, Frank H.	Peters, Miss Alice R.	Polk, Mrs. William M.
Parsons,	Peters, Capt.	Pollak, Bernard E.
Miss Gertrude	Edward McClure	Pomeroy, D. E.
Parsons, Herbert	Peters, Miss Isabel M.	Pond, Miss Florence L.
Parsons,	Peterson,	Poole, Mrs. Ernest
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Paskus, Benj. G.	Petrasch, Carl Schurz	Poor, Mrs. Horace F.
Pasvolsky, Leo	Peyton, William C.	Poor, Roger M.
Paton, David	Peyton, Mrs. William C.	Poor, Ruel W.
Paton, Dr. Stewart	Pfeiffer, Curt G.	Pope, G. D.
Patterson, Benjamin	Pfender, W. S.	Pope, Mrs. James E.
Patterson, Frederick H.	Pforzheimer, Walter	Pope, Sylvester
Patterson, Henry S.,	Phelan, John J.	Popper, A. W.
M.D.	Phelps, Mrs. G. M.	Popper, Wm. C.
Patterson, Joseph Read	Philipp, M. Bernard	Porter, Alexander J.
Patterson,	Philipp, Philip B.	Porter, Gen. Horace
Mrs. Rufus L. Phillips,		Porter,
Patterson, Stuart H.	Mrs. Alfred Noroton	Mrs. Rachel Lenox
Patterson, T. H. Hoge	Phillips, John M.	Porter, William L.
Paul, John J.	Phillips, T. W. S.	Porter, Wm. H.

Post, Abram S.	Rabe, Rudolph F.,	Renwick,
Post, Carroll J., Jr.	M.D.	Edward Brevoort
Post, Mrs. Charles A.	Rafferty, Mrs. Ewing L.	Reynal, Mrs. E. S.
Post, Sylvester	Rahlson, K. J.	Reynolds, John D.
Potter, Miss Blanche	Rainsford, Mrs. W. S.	Reynolds, Thos. A.
Potter, Mrs. Edward	Raisler, Samuel	Rheinauer, Daniel
Potter, James Brown	Ramsay, D. S.	Rhoades,
Potter,	Ramsperger, H. G.	Miss Katharine N.
Dr. Mary Goddard	Randolph, Coleman	Rhoades, Miss Nina
Potter, Orlando B.	Randolph, Evan	Rice, Arthur
Potter, R. Burnside	Ranger, Stanley G.	Rice, Philip B.
Pottier, Auguste Ruffin	Rathborne, Richard C.	Rich, M. P.
Potts, William B.	Rau, Henry M.	Rich, William L., Jr.
Powers,	Rauch, William	Richard, E. A.
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Mounted Barred Owl.
- MISS L. B. BROOMALL, Far Rockaway, N. Y.
Black-poll Warbler, Myrtle Warbler, Maryland Yellow-throat, Hermit Thrush, Brown Thrasher, Towhee, Savannah Sparrow, Song Sparrow.
- JOSEPH CASSEN, New York City.
White Conch Shell.
- COLUMBIAN ROPE Co., Auburn, N. Y.
13 Lantern slides.
- JULIAN A. DIMOCK, East Corinth, Vt.
3,874 Negatives ($6\frac{1}{2} \times 8\frac{1}{2}$).
- RICHARD EARLE and THEODORE WEY-
RAUCH, New York City.
Purple Grackle's egg.
- EDUCATIONAL FILMS CORPORATION OF
AMERICA, New York City.
870 Feet positive motion picture film,
"The Why of a Volcano."
- ALESSANDRO FABBRI, Bar Harbor, Me.
1,175 Feet positive motion picture
film: Hydromedusæ, etc.
- LEOPOLD SIMON FRIEDBERGER, New York
City.
23 Shells, 1 Starfish, 6 Corals, and 1
Sawfish.
- DR. MAX GHERTLER, New York City.
Case of mounted Birds.
- MRS. HARLEY GOODE, Rutherford College,
Burke Co., N. C.
Nest of Ruby-throated Hummingbird.
- HAMILTON AND HANSELL, INC., New
York City.
25 Photographs showing the Renner-
felt Electric Arc Furnace and Re-
verberatory.
- GEORGE HASTINGS, New York City.
19 Lantern slides (Cicada).
- S. ICHIKAWA, New York City.
102 Postal cards of Japanese scenes.
- GEORGE W. KOSMAK, M.D., New York
City.
Photograph of an encaustic tile
panel, "The Pageant of the Sun
God."
- LAFAYETTE NATIONAL PARK SERVICE, Bar
Harbor, Me.
51 Plain lantern slides.
- MISS EDITH L. LEVY, New York City.
2 Large pine cones, and 1 lichen, from
Yosemite Valley, Cal.
- FRED LIMEKILLER, New York City.
Flicker in the flesh.
- NORMAN MCCLINTOCK, Pittsburgh, Pa.
2 Lantern slides of Hermit Thrush
and young.
- DEAN F. F. MOON, Syracuse, N. Y.
1 Box of woods containing 30 differ-
ent specimens, and descriptive book-
let.
- E. MOSHEIM, New York City.
18 Mounted Birds.
- A. OPERTI, New York City.
15 Negatives of Cuban subjects.
- MRS. HENRY FAIRFIELD OSBORN, New
York City.
A black oak dining table, with leaves.
- MRS. NINA L. PARMLY, Orange, N. J.
Cabinet of Birds' eggs, presented in
memory of Mr. E. Parmly.
- PEABODY MUSEUM, Salem, Mass.
2 Photographs: Capt. John Carnes
and Schooner Battick.
- MRS. WILLIAM ALFRED PERRY, New
York City.
Collection of Minerals and Rocks.
P. S. No. 15, Manhattan, New York City.
Catbird.

MISSIS REYNOLDS, New York City.

Collection of Minerals and Shells.

MRS. WILLIAM B. RUNK, New York City.

9 Shells and 1 piece of Coquina.

HERMAN SEIM, New York City.

Myrtle Warbler in the flesh.

ARTHUR E. SNYDER, West Nyack, N. Y.

Screech Owl.

SNYDER ELECTRIC FURNACE Co., Chicago, Ill.

6 Prints.

MRS. JOHN STOUTENBURGH, New York City.

Buffle-headed Duck and a group of mounted Birds.

Pair of mounted Bob-whites.

MISS DOROTHY VAN VLIET, New York City.

Baltimore Oriole's nest.

BY EXCHANGE

GORDON E. VAN LOON, Highland Park, Mich.

5 Lantern slides: John Burroughs.

BY PURCHASE

210 Feet of positive motion picture film of Birds, from Minnesota.

Celluloid print, "The Making of an American."

Celluloid print, "The Priceless Gift of Health."

2 Bird skins, 36 mounted Birds and 5 mounted Mammals.

14 Bird skins and 1 Mole.

132 Mounted Birds and 25 Bird skins.

DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALÆONTOLOGY

BY GIFT

EDWARD AMMANN, Salt Lake City, Utah (through H. P. Whitlock).

Specimen of Cave Onyx, from Wamsatch Co., Utah.

GILBERT E. AUSTIN, New York City.

"Sand Dollar" Echinoderm, from Morrow Beach, San Luis Obispo Co., Cal.

H. W. BENNETT & Co., New York City.

Specimen of Manganese Ore.

CHARLES W. BOISE, New York City.

26 Palæozoic and Mesozoic fossils, from Lowe Sound District; Coal from Advent Bay Mine; Asbestos from peridotite intrusion in slates and sandy limestones, probably Silurian, at Recherche Bay, Spitzbergen.

ADAM BRÜCKNER, New York City.

Slice of stone Meteorite (Bluff ?), 51 grams.

J. C. CONN, Boonton, N. J.

Quartz Geodes ("Keokuk Limestone"), from Mississippi River.

EDWARD J. FOYLES, New York City.

Rocks, fossils and minerals, from Franklin Furnace, N. J., and Delaware Water Gap, N. J.

DR. GOFFES.

Geological specimens from the Garden of the Gods, Yellowstone Park and Cumberland Gap.

F. C. GREENE, Tulsa, Okla.

Collection of fossils, Cottonwood Falls, Kan.

DR. GEORGE ELLERY HALE, Pasadena, Cal.

2 Photographs of the moon taken on Sept. 15, 1919, with 100-inch telescope; 2 photographs of the sun.

HAWAIIAN VOLCANO OBSERVATORY, Hawaii, T. H.

Magnesium sulphate stalactite from volcano of Kilauea, collected by Observatory assistants; 1 large and 1 small stalactite, $MgSO_4$, from tube vacated by lava in November, 1919, collected by T. A. Jaggar, Jr., March, 1920; 1 small lava stalagmite from 1823 flow of Mauna Loa; 1 large lava stalagmite, 1 gypsum-coated stalactite, and 4 fragments of gypsum coating of lava stalactites, collected by R. F. Finch, May 24, 1920.

AUGUST HECKSCHER, New York City.

4 Flint or Chert nodules, 3 silicified Echini, 3 siliceous casts of Pelecypods, 1 silicified shell Conglomerate, 1 Pelecypod shell, 1 fragment of silicified Palm trunk; from vicinity of Luxor, Thebaid District, Egypt.

CHARLES HOADLEY, Englewood, N. J.

Hand specimen of Wissahickon Gneiss carrying narrow vein of Feldspar, from O'Neill Quarry, Philadelphia, Pa.

- 1 Specimen of Calcite, Franklinite, etc., from Franklin Furnace, N. J.
CARL E. MALMQUIST, Astoria, L. I.
Fragments of decomposed Conglomerate, Pegmatite, and Chlorite schist (7 specimens), from Astoria, L. I.

DEPARTMENT OF MINERALOGY (Transfer).

- 1 Large Stalagmite and 1 curtain stalactite, from an old cave in Copper Queen Mine, Bisbee, Ariz.
25 Specimens of Azurite and Malachite.
2 Boxes of miscellaneous fossils (R. C. Kemp Collection).

J. P. MORGAN, New York City.

- 9 Fossils (found 13,500 feet above sea level), Tibet. Collected by Rev. H. B. Marx.

W. H. MURDOCK, Brooklyn, N. Y.

- 3 Iron-sand concretions, from Para, Brazil.

HERMANN PAPKE, Weehawken Heights, N. J.

- Specimen of fossilized Wood, from Clay Bank, Kreischerville, S. I.
9 Fragments of highly quartzitic Sandstone showing natural cast of an originally underlying drainage (?) system, from Richmond, S. I.

H. D. PERRINE, New York City.

- Oil painting, "Bridge of Candi."

F. E. REESE, St. Paul, Minn.

- 5 Boxes of Ordovician fossils, from near St. Paul.

OSCAR SANTORO, Paterson, N. J.

- Tooth of a Shark (Cretaceous).

O. P. SNIDER, Manitou Springs, Col.

- Fragments of Limestone, from near Cave of the Winds, Colorado.

WILLIAM SULZER, New York City.

- Native Copper from Mt. Natatak, near Mt. McKinley, Alaska; Graphite from near Seward Peninsula, near York, Alaska; copper ores from southern end of Prince of Wales Island, Alaska; and Asbestos from Grand Canyon, Col.

WARREN TRAVELL, New York City.

- 22 Fossil specimens of Hamilton age, from Kashong Glen, near Geneva, Wis.

VAN DYKE SCHOOL, Bayside, L. I. (through Mrs. Falconer).

- Clay-iron-stone concretion shaped like a bison's horn, from Bayside.

DEPARTMENT OF VERTEBRATE PALAEONTOLOGY (through Dr. W. D. Matthew).

- 5 Drawings and 3 enlarged photos from illustration prepared for Professor Henry Fairfield Osborn's paper entitled "Mutations of Waagen," 1916.

VICTORY MINES, Spring Mt. Mining District, Lemhi Co., Idaho.

- Vein Quartz intersected with veinlets of Argentite, etc., partly oxidized.

JAMES H. WALLING, Brooklyn, N. Y.

- Pot-hole pebbles, one of which shows coal and shale together, from Carbondale, Pa.; Corals, etc., from Michigan.

WARD'S NATURAL SCIENCE ESTABLISHMENT, Rochester, N. Y.

- Fragment of Lower California Meteorite: 7 grams.

CLEMENT L. WEBSTER, Charles City, Iowa.

- 2 Photographs of type specimens of *Pachyphyllum irregularis*, Webster, N. S.

H. P. WHITLOCK, New York City.

- Iron-stone concretions, from Kreischerville, Staten Island.

BY EXCHANGE

R. N. BUCKSTAFF.

- Aërolite, "Colby," 24.5 grams, from Colby, Wis.

MILWAUKEE PUBLIC MUSEUM (through H. L. Ward).

- Aërolite, "Colby," 841 grams, from Colby, Wis.

WARD'S NATURAL SCIENCE ESTABLISHMENT, Rochester, N. Y.

- Meteorites: Canyon City, 815 grams; Mt. Sterling, 1,465 grams; Murphy, 560 grams; Nejed, 1,822 grams; Youndegin, 3,230 grams; Lancon, 92 grams.

BY PURCHASE

- Fossils, Sharks' teeth, Mastodon tooth. Chinaulta Siderite: 96 grams.

- Modoc Aërolite (20 fragments).

- 22 Fossil Corals and Pentremites.

- Lava stalagmite, from 1919 Alika flow.

- Fossils: unsorted Bryozoans and other fossils from shales and limestones near St. Paul, Minn.

- Upper Silurian fossils from Island of Gotland.

- Model of restoration of Trilobite (*Neolenus*).

THROUGH MUSEUM EXPEDITIONS

Lava specimens and photographs from the Hawaiian Islands. Collected by E. O. Hovey.

Fossils from Helderbergian outcrop portions of New York and Pennsylvania. Collected by C. A. Reeds.

Fossils and rocks from Standing Stone quadrangle, Tennessee, and about 50 photographs; 200 specimens of fossil invertebrates from the Monticello quadrangle, Kentucky. Collected by E. J. Foyles.

24 Fossil specimens from Mona Island. Collected by K. P. Schmidt.

DEPARTMENT OF MINERALOGY
BY GIFT

SYDNEY and VICTOR D. BEVIN, New York City.

Crystal sphere mounted in bronze, from Japan.

W. F. BLEEKER, Boulder, Col. (through Dr. George F. Kunz).

Autunite, New Mexico; Carnotite, Mess Co., Col.; Tungsten Ore, Boulder, Col.; Ferberite, Boulder, Col.

MRS. W. H. BLISS, Santa Barbara, Cal. (through Dr. George F. Kunz).

Fire Opal, Humboldt Co., Nev.

PHILIP BURAGE, New York City.

Onyx, from England; Moss Agate, from India.

DR. HENRY BUTTGENBACH, Brussels, Belgium.

Cesarolite, from Sidi-Amor-ben Salem, Tunis.

CHILE EXPLORATION Co., New York City (through H. C. Bellinger).

2 Alunite, 3 Alunite on Krohnkite, 2 Atacamite, 2 Blodite, 3 Brocantite, 2 Chalcantite, 1 Copiapite, 1 Coquimbite and Amarantite, 2 Cuprite, 1 Fibroferrite, 2 Krohnkite, 2 Melanterite, 2 Miabilite, 1 Natrochalcite, 3 Pisanite; from Chuquicamata, Chile.

EDWARD S. CLINCH, New York City.

Collection of about 100 miscellaneous minerals.

JOHN H. DEANE, Yonkers, N. Y.

Collection of about 250 miscellaneous minerals.

H. A. ENGLISH, New York City.

Calcite, from the vicinity of Boston.

EDWARD J. FOYLES, New York City.

Minerals, from Paterson, N. J.; Ores from Franklin Furnace, N. J.

48 Specimens of Minerals: 2 Apatite, 4 Franklinite, 2 Feldspar, 3 Feldspar with Franklinite, 3 Franklinite with Willemite, 4 Sphalerite, 1 Willemite, 1 Zeolite, 3 Zincite, from Franklin Furnace, N. J.; 4 Calcite, 2 Chalcedony, 3 Datolite, 1 Hematite, 3 Pectolite, 5 Prehnite, 3 Quartz Pseudomorph, 3 Stilbite, 1 Thomasite, from West Paterson, N. J.

DEPARTMENT OF GEOLOGY (Transfer).

114 Specimens of Cave Material, Calcite, Aragonite and Gypsum, from Chihuahua, Mexico.

3 Specimens of Azurite, from Bisbee, Ariz.

HARRY F. GUGGENHEIM, New York City.

2 Specimens of typical Braden Andesite Ore, 3 of typical Braden Teniente Breccia Ore, from Rancagua, Chile.

14 Specimens of Tin Ore from Caracoles, Bolivia; 8 Tungsten Ore, from Pecuni, Bolivia.

C. A. HERBERLEIN, New York City.

Aragonite, 6 Vanadinite, 2 Calcite and Vanadinite, from Bright Angel, Ariz.

F. G. HILLMAN, New Bedford, Mass. (through Dr. George F. Kunz).

Brown Tourmaline in Dolomite, from Ship Canal, Kingsbridge, New York City.

CHARLES W. HOADLEY, Englewood, N. J. Epidesmine, from Robson, Berks Co., Pa.

Graphite, from Queensboro, Orange Co., N. Y.

Pectolite and Natrolite, from Snake Hill, N. J.

B. T. B. HYDE, New York City.

Hematite pebble, from Grand Gulch, Utah.

WILLIAM JONES, Albany, N. Y.

1 Halite, Retsof, N. Y.

KEMP, DAY & Co., New York City.

4 Carved Agalmatolite specimens from China, and 500 miscellaneous minerals.

DR. GEORGE F. KUNZ, New York City.

1 Cut Olivine, package of Olivine Sand, package of Olivine pebbles, from Napali Coast, Kauai, Sandwich

- Islands; 1 Tantalite, from Pima Co., Ariz.
- 39 Specimens of Pearl shells, from Japan.
- PROF. A. LACROIX, Paris, France (through Dr. George F. Kunz).
125 Specimens of Minerals.
- T. MATSUMOTO, Tokyo, Japan.
3 Specimens of Piedmontite Schist, from Oyahanabashi, Chighibu, Japan.
- COMMENDATORE BARTOLOMEO MAZZA, Torre del Greco, Italy (through Dr. George F. Kunz).
Coral surmounted by a statuette carved from hardened indurated clay, from Vesuvius.
- Bas-relief carved on stone from Spalato (Dalmatian Coast), representing bust of Augustus Cæsar, Emperor of Rome, 99 A.D.; 3 fragments of stone (Calcare silicio) from Vesuvius eruption of 79 A.D. which destroyed Herculaneum, Pompeii, Oplanti, Torre del Greco, Stabia and adjacent towns; 9 fragments of stone (Marna arzillifera) from the mountains of Avellino and St. Angelo dei Lombardi, 31 B.C.; 5 fragments of stone (Marna arzillifera) from the mountains of Spalato, 1643 A.D.
- MENGO L. MORGENTHAU, New York City.
Cut Topaz, 1,463 carats, from Japan.
- EDWIN C. MOTT, Yonkers, N. Y.
Chrysoberyl.
- NEW YORK MINERALOGICAL CLUB, New York City.
Hornblende in Calcite, from Hardystonville, N. J.
- C. J. OSMAN, Hillsborough, N. B. (through Dr. J. Dwight).
Inoyite, from Hillsborough, N. B.
- H. PAPKE, Weehawken Heights, N. J.
2 Calcite, 1 Gmelinite, and 1 Sphalerite on Stilbite, from Snake Hill, N. J., and 1 Sphalerite, from Jerome Park Reservoir, New York City.
- GEORGE N. PINDAR, New York City.
Gold, from Philippine Islands.
- E. T. ROBERTS, New York City.
Pyrite, Fox Island River, Newfoundland.
- R. DE RUSTAFJAEEL, New York City.
Psilomelane, from Asia Minor.

- DR. L. E. SMITH, Lexington, Ky.
Chrysolite on Basalt, from West Coast of Africa.
- F. W. A. STEMLER, Rosebank, Staten Island, N. Y.
Chalcedony, from Belair Road, Rosebank, S. I.
- WILLIAM SULZER, New York City.
2 Specimens of Epidote, from Green Monster Mt., Prince of Wales Island, Alaska.
- WALTER WHITE, Bisbee, Ariz.
3 Crystallized Azurites, from Sacramento Mine, Bisbee, Ariz.

BY EXCHANGE

- CHARLES W. HOADLEY, Englewood, N. J.
Calcite and Natrolite, from West Paterson, N. J.
- Corundum and Margarite, from Unionville, Pa.
- Calcite, Heulandite and Laumontite, from Great Notch, N. J.
- Phlogopite, Franklinite and Hodgkinsonite, from Franklin, N. J.
- Biotite, from Queensboro, Orange Co., N. Y.
- JAMES G. MANCHESTER, New York City.
Calcite, from West Paterson, N. J.
- HARRY PECK, Albany, N. Y.
Corundum crystal, from Transvaal, South Africa.
- GEORGE S. SCOTT, New York City.
1 Bindheimite, Zimapan, Mexico.
1 Bismutite, Mohave Co., Ariz.
2 Epidote, Burke Ave., Bronx, New York City.
1 Epidote and Pyrite, Burke Ave., Bronx, New York City.
1 Pectolite, Paterson, N. J.
1 Tantalite, Pima Co., Ariz.
1 Turgite, Ore Hill, Conn.
3 Zincite, Franklin, N. J.

BY PURCHASE

(General Fund)

- 1 Aragonite, Sicily; 1 Calcite, Songo Pond, Me.; 1 Quartz, Mt. Mica, Me.; 1 Cyanite.
- 2 Pyrite on Lignite, from Kreischer-ville, Staten Island, N. Y.

(Matilda W. Bruce Fund)

- 1 Albite, Portland, Conn.
- 1 Apangabeite, Ambatofotsikely, Madagascar.
- 1 Apophyllite, Bergen Hill, N. J.
- 1 Apophyllite and Datolite, Snake Hill, N. J.
- 1 Apophyllite and Gmelinite, Snake Hill, N. J.
- 1 Apophyllite and Pectolite, Snake Hill, N. J.
- 1 Aragonite, Alepo, Syria.
- 1 Barite, Jersey City, N. J.
- 1 Beryl, Pala, Cal.
- 10 Beryl crystals, East Hampton, Conn.
- 1 Bismuth, Queensland, Australia.
- 1 Calcite, Jersey City, N. J.
- 1 Calcite, Poretta, Italy.
- 1 Calcite, Mt. Pleasant, N. J.
- 1 Calcite, Guamajuato, Mexico.
- 12 Calcite, Paterson, N. J.
- 2 Calcite, Snake Hill, N. J.
- 1 Calcite on Galena, Joplin, Mo.
- 1 Calcite and Chabazite, West Paterson, N. J.
- 1 Calcite and Heulandite, West Paterson, N. J.
- 1 Calcite and Prehnite, West Paterson, N. J.
- 2 Calcite and Stilbite, Montclair, N. J.
- 1 Calcite, Apophyllite and Stilbite, Snake Hill, N. J.
- 1 Calcite, Chalcopyrite and Prehnite, West Paterson, N. J.
- 1 Calcite, Datolite and Stilbite, Snake Hill, N. J.
- 1 Cebollite, Gunnison Co., Col.
- 1 Cerargyrite, Potosi, Bolivia.
- 1 Chabazite, West Paterson, N. J.
- 1 Chalcedony coating Calamine, Leadville, Col.
- 20 Chastolite, Lancaster, Mass.
- 1 Chrysocolla pseudomorph after Malachite, Globe, Gila Co., Ariz.
- 1 Columbite, Branchville, Conn.
- 1 Columbite, Portland, Conn.
- 1 Cuprite, Bisbee, Ariz.
- 1 Datolite, East Granby, Conn.
- 1 Datolite, West Paterson, N. J.
- 5 Datolite, Snake Hill, N. J.
- 1 Datolite and Heulandite, Snake Hill, N. J.
- 2 Datolite and Stilbite, Snake Hill, N. J.
- 2 Enargite, Potosi, Bolivia.
- 1 Eosphorite, Branchville, Conn.
- 1 Ferberite, Boulder, Col.
- 1 Galena, near Durango, Col.
- 1 Gmelinite and Datolite, Snake Hill, N. J.
- 1 Hambergite, Prov. of Vakinankarata, Madagascar.
- 1 Hodgkinsonite, Franklin, N. J.
- 1 Ilsemanite, near Ouray, Col.
- 1 Jarosite, Tintic District, Utah.
- 1 Microlite, East Haddam, Conn.
- 1 Miargyrite Sombreto, State of Zacatecas, Mexico.
- 1 Nagyagite, Boulder Co., Col.
- 1 Natrolite, Bergen Hill, N. J.
- 2 Nesquehonite, Carbon Co., Pa.
- 1 Orpiment in Calcite, Manhattan, Nev.
- 1 Orthoclase, Haddam Neck, Conn.
- 1 Pectolite, Snake Hill, N. J.
- 1 Phillipsite, Sasbach, Kaiserstuhl, Baden.
- 1 Powellite pseudomorph after Molybdenite, Clifton, Utah.
- 1 Proustite, Potosi, Bolivia.
- 2 Pyrargyrite, Potosi, Bolivia.
- 1 Pyrite, Gilpin Co., Col.
- 1 Quartz, Fort Madison, Iowa.
- 1 Reddingtonite, Branchville, Conn.
- 1 Sapphire, Fiskernaese, West Coast of Greenland.
- 1 Scheelite, Trumbull, Conn.
- 1 Smaltite, Prov. of Huelva, Spain.
- 1 Sphaerosiderite, Jersey City, N. J.
- 1 Sphalerite, Middletown, Conn.
- 2 Sphalerite, from Snake Hill, N. J.
- 1 Sphalerite, Huanchaca, Bolivia.
- 1 Sphalerite and Quartz, Huanchaca, Bolivia.
- 1 Sphalerite with Pyrite, Gilpin Co., Col.
- 1 Stilbite, West Paterson, N. J.
- 1 Stromeyerite, Boulder Co., Col.
- 1 Szajbelyite, Dognacska, Greenland.
- 6 Tetrahedrite, Coro Coro, La Paz, Bolivia.
- 4 Uraninite, Portland, Conn.
- 1 Vanadinite, near Tucson, Ariz.
- 1 Wulfenite, Bolivia.
- 1 Zinc-hausmannite, Franklin, N. J.

THROUGH MUSEUM EXPEDITIONS

- 1 Apatite and Wernertite, 3 Pyroxene, Amphibole and Titanite, 1 Pyroxene and Wernerite, 1 Pyroxene, 3 Phlogopite, 2 Phlogopite in Calcite, 3 Titanite, Pyroxene and Wernerite, 2 Wernerite and Pyroxene, 1 Zircon in Microcline; from Orange Co., N. Y. Collected by H. P. Whitlock.

DEPARTMENT OF WOODS AND FORESTRY

By Gift

- HARRIS F. SMITH, New York City.
13 Specimens of samples of native Cuban and Porto Rican woods.
- WILLIAM SULZER, New York City.
6 Specimens of samples of wood from Prince of Wales Island, Alaska.

DEPARTMENT OF INVERTEBRATE ZOOLOGY

By Gift

- C. P. ALEXANDER, Urbana, Ill.
1 *Erioptera straminea* O. S.; from Muncie, Ill.
- JAMES M. ANDREWS, 4TH, Nantucket, Mass.
6 Specimens of *Spirula peroni* and 1 of *Pandora trilineata*, from Nantucket, Mass.
- GILBERT E. AUSTIN, Atascadero Beach, Cal.
Sand Dollar, from Atascadero Beach, Cal.
- DR. C. W. BEEBE, New York City.
Land Mollusk, from Kartabo, British Guiana.
- E. L. BELL, Flushing, L. I.
230 Specimens of Lepidoptera and Coleoptera, from Long Island and Idaho.
- JOHN BELL, Los Angeles, Cal.
12 Land shells, 4 Myriapods, and 3 vials of Worms and Slugs, from Los Angeles, Cal.
- DR. JOSEPH BEQUAERT, New York City.
Coleoptera and 1 Lepidopteron (50 specimens).
Ancyla oraniensis and *Mellissodes condigna* (6 specimens).
- COL. WILLIAM W. BISSELL, Governors Island, N. Y.
Specimen of Coral.
- W. S. BLATCHLEY, Indianapolis, Ind.
Paratype of *Desmopachria mutchleri*, from Dunedin, Fla.
- C. H. BLOOD, New York City.
2 Lepidoptera.
- MRS. ELIZABETH G. BRITTON, New York City.
Many shells, from Cuba, Isle of Pines, and Staten Island.
- Y. L. BRUCE, Yonkers, N. Y.
Lantern fly, from Costa Rica.
- JOSEPH BYRNE, New York City.
Piece of Branch Coral, from Buenos Aires.
- MISS M. V. CALLAHAN, New York City.
12 Insects, from Lake Champlain and New Jersey.
- C. L. CAMP, New York City.
1 Crayfish and 1 Leech, from Plainfield, N. J.
- GEORGE CARPENTER, Kingsbridge, N. Y.
1 *Cambarus limosus*, from Stuyvesant on Hudson, N. Y.
- SAMUEL E. CASSINO, Salem, Mass.
37 Insects, chiefly Lepidoptera, from Florida.
1800 Moths and Butterflies, from British Guiana and other localities.
- W. J. CHAMBERLAIN, Corvallis, Ore.
43 Specimens of Scolytidae (Beetles), from Oregon.
- GEORGE K. CHERRIE, Newfane, Vt.
10 Insects, from Venezuela.
- WILLARD N. CLUTE, Joliet, Ill.
About 100 Beetles (*Hippodamia convergens*), from Sunset Mt., Flagstaff, Ariz.
- PROF. T. D. A. COCKERELL, Boulder, Col.
About 340 Insects.
- "COUNTRY LIFE," Garden City, N. Y.
3 Water-color pictures of various species of *Papilio* by Mrs. Beutenmüller.
- JOHN J. DAVIS, Riverton, N. J.
Paratypes of 4 *Phyllophaga pearliae*, 3 *P. soror*, 4 *P. foxii*, 2 *P. hirticola* var. *comosa*, 4 *P. perlonga*, 4 *P. fraterna* var. *mississippiensis*.
- BASSETT DIGBY, New York City (London, England).
Collection of Invertebrates and Shells, from Japan and China.
- MRS. J. HALL DOW, Hobkirk Inn, S. C.
Trap-door Spider nest, from South Carolina.
- MRS. M. MAURICE ECKSTEIN, New York City.
4 Specimens of shells, from Costa Rica.
- D. T. FARLEY, New York City.
1 Aberrant Butterfly, from Maine.
- ALFREDO FAZ, Valparaiso, Chile.
260 Specimens of Hymenoptera, Diptera, and Coleoptera, from Chile.

- DR. G. C. FISHER, New York City.
33 Insects, from Florida.
- ARTHUR D. GABAY, New York City.
3 Lepidoptera.
- G. C. HALL, New York City.
53 Lepidoptera, including 4 aberrant Butterflies.
- THOMAS HALLINAN, Paterson, N. J.
Collection of about 1,800 Lepidoptera.
- DR. H. HAUPT, JR., New York City.
Invertebrates from Porto Rico.
- W. J. HERLIHY, New York City.
1 Section of Mahogany wharf pile and 1 Mahogany slab, bored by *Teredo*, also 6 *Teredo* valves.
- DEPARTMENT OF HERPETOLOGY (Transfer).
3 Myriapods and 1 Crab, from Brazil; 1 Centipede, from Porto Rico, and 5 Beetles, from Yunnanfu, Yunnan, China.
- PROF. J. S. HINE, Columbus, O. (through Joseph Bequaert).
22 Specimens *Bombus*.
- MRS. E. O. HOVEY, New York City.
12 Insect Galls, from Stewartsville, Cal.
- THOMAS and WILLIAM HOWELL, Southampton, N. Y.
1 Specimen of *Squilla empusa*, from Great Peconic Bay.
- B. T. B. HYDE, New York City.
41 Insects, from Utah.
- MISS ALMEDA E. JOHNSON, Clinton, Conn.
3 Beetles, from Clinton.
- R. D. O. JOHNSON, Colombia, S. A.
1 Leech, 1 Crab, and 12 Insects, from Colombia.
- JOHN R. JOHNSTON, Havana, Cuba.
7 Vials and 38 microscopic slides of Thrips, Aphids, etc., from Cuba.
- MISS A. H. JONES, New Bedford, Mass.
2 Specimens of Coral.
- FRANK M. JONES, Wilmington, Del.
8 Butterflies and 4 proofs of drawings (original) of Lepidoptera.
- REV. C. R. KELLOGG, Foochow, China.
5 Specimens of *Attacus atlas* Linné, from Foochow, China.
- A. BARRETT KLOTS, New York City.
90 Insects, chiefly Lepidoptera.
- GEORGE W. KORPER, New York City.
Collection of 37 American and Oriental Pearl Shells, containing Pearlaceous growths, from the United States, South America and India.
- R. A. LENSSLER, Omaha, Neb.
4 Lepidoptera, 2 of which are paratypes.
- C. L. LEWIS, New York City.
Butterfly, from Poughkeepsie, N. Y.
- N. LIEBERMAN, New York City.
2 Specimens of Wood showing borings of *Neoclytus erythrocephalus*, from New York.
- D. E. LOWEREE.
2 Valves of Naiades, from Rodriguez River, Mexico.
- ERNEST LURCH, New York City.
10 Lepidoptera, from Catskill Mts., N. Y.
- MRS. FRANK E. LUTZ, Ramsey, N. J.
2,500 Specimens of Insects, Spiders, etc., from Wyoming, Colorado, Idaho and Utah.
- H. E. MACHADO, Jamaica, B. W. I.
133 Insects, chiefly Lepidoptera, from Jamaica, B. W. I.
- D. S. MAINS, Summerhaven, Ariz.
7 Lepidoptera, from Arizona.
- WILLIAM H. MARDOCK, Brooklyn, N. Y.
7 Specimens of Insects, from Pará, Brazil.
- G. B. MERRILL, Gainesville, Fla.
14 Weevils and 4 Beetles, from Florida.
- C. W. METZ, Cold Spring Harbor, L. I.
659 Hymenoptera, from Western United States.
- J. P. MORGAN, New York City.
52 Beetles, from Tibet. Collected by Rev. H. B. Marx.
- MRS. GUSTAVE MOURRAILLE, New York City.
About 225 Insects, from Brazil.
- L. L. MOWBRAY, New York City.
5 Specimens of Crustacea, from Turk's Island, Bahamas.
- ROBERT C. MURPHY, Brooklyn, N. Y.
2 Myriapods, from Chincha Island, Peru.

- F. J. MYERS, Ventnor, N. J.
234 Slides of Rotifera and other invertebrates; collection of mounted and identified Marine Algae; 1 vial of *Plumatella repens*; 1 Rotifera slide cabinet; 1 Stephenson binocular microscope and outfit, and 4 additional microscope objectives.
- JASON A. NEILSON, New York City.
1 Tarantula, from Brazil.
- NEW YORK AQUARIUM, New York City.
75 Specimens of Crustacea (Crayfish, Hermit Crabs, Squillas, etc.).
- NEW YORK STATE MUSEUM, Albany, N. Y.
5 Specimens of *Polyxenus* (Myriapods), from Greenville, N. Y.
- NEW YORK ZOÖLOGICAL SOCIETY, New York City.
655 Insects.
- TROPICAL RESEARCH STATION OF THE NEW YORK ZOÖLOGICAL SOCIETY, Kartabo, British Guiana.
About 400 Termites, including paratypes of 38 species, from Kartabo.
- J. T. NICHOLS, New York City.
3 Specimens of Crustacea (Macrura), from Goose Creek, Wakulla Co., Fla.
- A. S. NICOLAY, Brooklyn, N. Y.
6 Coleoptera—1 from New York and 5 from France.
- HOWARD NOTMAN, Brooklyn, N. Y.
22 Beetles (Carabidae), and 82 Lepidoptera, from Essex Co., N. Y.
- R. J. ORTLEPP, Grahamstown, South Africa.
Mollusca, Peripatus, Scorpion, etc. (34 specimens), from Grahamstown, South Africa.
- DR. R. OTTOLENGUI, New York City.
38 Moths, from Brazil, S. A.
- R. STANWAY PARIS, Broadstairs, England.
12 Lepidoptera, from England.
- CARLOS E. PEREIRA R, New York City.
2 Specimens of Beetles (Buprestidae), from Brazil.
- A. S. PINKUS, Hartford, Conn.
8 Lepidoptera, including 1 aberration, from Hartford.
- MISS POLLAK, New York City.
1 Sea Fan (*Gorgonia flabellum*).
- DR. FRANK REGNIER, Regnier, Col.
1 Sphingid pupa, 2 Scorpions, 1 Spider and 3 Beetles, from Regnier, Col.
- E. AVERY RICHMOND, Bayard, Neb.
Larvæ, pupæ, etc., of Hydrophilidae, in alcohol (70 specimens).
- FRANK E. ROBINSON, Mt. Everett, Mass.
Parasitic Isopod.
- DR. VICTOR J. RODRIGUEZ, Havana, Cuba.
Collection of Insects and other Invertebrates, from Cuba.
- DR. L. C. SANFORD, New Haven, Conn.
1 Moth, from Quebec.
- DR. WM. SCHAUS, Washington, D. C.
63 Moths, from American Tropics.
- F. W. J. SCHMIDT, Stanley, Wis.
353 Insects, from Stanley.
- CAPT. JOHN F. SHERIDAN, New York City.
1 Beetle and head of another, from Panama.
- SOUTHERN BIOLOGICAL SUPPLY Co., INC., New Orleans, La.
4 Sea Anemones, from Gulf of Mexico.
- MISS STACKPOLE, New York City.
1 Mahogany plank with Ship-worm (*Teredo*) borings.
- MRS. L. M. STANTON, New York City.
1 Land Snail, from Fontainebleau, France.
- HARRY STENDER, Jersey City, N. J.
2 Phasmidae (walking-sticks).
- O. A. STEVENS, Fargo, N. D.
Nest of *Trypoxalon albitarse*, from North Dakota.
- MISS B. G. STILLMAN, New York City.
Nest of *Vespa crabro*, from Cornwall-on-Hudson, N. Y.
- J. D. STORNBORGER, Rowley, Mass.
1 Aberrant *Eurymus philodice*, from Massachusetts.
- DR. A. H. STURTEVANT, New York City.
12 Types of *Drosophila* (Diptera), from the United States, Central America and Cuba.
38 Insects, from Kushla, Ala.
- ALBERT THOMSON, New York City.
Insects and nest of Bumblebee (56 specimens), from Agate, Neb.
- PROF. RALPH G. VAN NAME, New Haven, Conn.
8 Vials of miscellaneous Invertebrates, from Newfoundland.

HARRY B. WEISS, New Brunswick, N. J.
Numerous specimens of Insects and
Plants showing injury to the Even-
ing Primrose.

Insect Work.

19 Photographs of Insects and Insect
Work.

Insects, including type specimens of
Captodisca kalmiella (360 speci-
mens).

Insects and their work (about 1,150
specimens).

All from New Jersey.

PROF. WILLIAM MORTON WHEELER, For-
est Hills, Boston, Mass.

180 Specimens of Bees, 2 of Beetles.

MISS MARGUERITE S. WILLARD, Clinton,
Conn.

3 Beetles, *Calosoma sycophanta*, from
Clinton.

FRANCIS X. WILLIAMS, Honolulu, Ha-
waii.

13 Specimens of Wasps and their
nests, from Philippine Islands.

M. C. G. WITTE, Clinton, Conn.

11 Beetles, *Calosoma sycophanta*,
from Clinton.

LEWIS B. WOODRUFF, New York City.

8 Beetles, from New York City.

WILLIAM S. WRIGHT, San Diego, Cal.

1,280 Insects, chiefly Lepidoptera, in-
cluding paratypes of Lepidoptera,
from California.

BY EXCHANGE

EDWIN ASHBY, Blackwood, South Aus-
tralia.

195 Specimens of Shells: Amphineura,
from Southern Australia.

GEORGE H. CLAPP, Cambridge, Mass.

254 Specimens of *Liguus fasciatus*
(land shells).

A. A. HINKLEY, DuBois, Ill.

Collection of Shells (55 species, in-
cluding paratypes), from Alabama
and Mexico.

IDA S. OLDROYD, Leland Stanford Uni-
versity, Cal.

138 Species of West Coast Shells
(identified)—138 specimens.

UNITED STATES NATIONAL MUSEUM,
Washington, D. C.

269 Alcoholic specimens of Ascidians,
from West Indies, Florida, etc.

FRANCIS X. WILLIAMS, Honolulu, Ha-
waii.

47 Bees.

BY PURCHASE

314 Insects, from Brazil.

Numerous specimens of Beetle larvæ,
pupæ, etc.—240 species.

3,970 Diptera.

THROUGH MUSEUM EXPEDITIONS

12,000 Specimens of Insects, Spiders,
etc., from Wyoming, Colorado, Ida-
ho, Utah, and Indiana. Collected
by Dr. F. E. Lutz.

1 Starfish, from Sinaloa, Mexico. Col-
lected by Paul D. Ruthling.

Specimens of Invertebrates, chiefly
Insects, from Jamaica. Collected by
F. E. Watson.

4 Insects, from Jamaica, B. W. I. Col-
lected by H. E. Anthony.

DEPARTMENT OF ICHTHYOLOGY

BY GIFT

A. BAUDON, Bossangoa, West Africa.

50 Small fresh-water fishes, from
Equatorial Africa.

20 Small fresh-water fishes, from
West Africa.

MRS. J. BREMNER, New York City.

Fossil fish, from Caithness-shire, Scot-
land.

VAN CAMPEN HEILNER, Spring Lake,
N. J.

8 Brackish-water fishes, 3 young
Squirrel Hake, from Spring Lake.

DEPARTMENT OF HERPETOLOGY (Trans-
fer).

9 South American fishes.

DEPARTMENT OF INVERTEBRATE ZOÖLOGY
(Transfer).

19 Dried fish skins, from Japan.

DR. DAVID STARR JORDAN, Leland Stan-
ford University, Cal.

Numerous fossil fishes, from Mio-
cene of Lompoc, Santa Barbara Co.,
Cal.

8 Slabs of fossil fishes, from same lo-
cality.

ROY LATHAM, Orient, L. I.

1 *Trachurus* and 1 young White
Perch, from Orient, L. I.

WILLIAM MACK, New York City.
2 Dried Aquarium fishes.

NEW YORK AQUARIUM, New York City.
Muscalonge, female (length 3' 11",
weight 35 lbs.).

CHAPMAN ROPES, New York City.

1 Mounted Trigger-fish, from Cape
Horn Seas.

MRS. WILLIAM B. RUNK, New York
City.

Small-mouthed Black Bass (weight
3¼ lbs.), mounted, from Lake Ont-
ario.

BY EXCHANGE

BRITISH MUSEUM OF NATURAL HISTORY,
London, England.

Cast of *Edestus newtoni* (fossil fish).

MANCHESTER MUSEUM, Manchester,
England.

83 Specimens of fossil fishes (47 spe-
cies: spines, teeth, casts, dental
plates, etc.), chiefly Devonian and
Carboniferous of England and Scot-
land.

BY PURCHASE

20 Miscellaneous fresh-water fishes,
from Yunnanfu, Yunnan, China.
Gar skeleton.

1 Fossil fish, from Benito, West Af-
rica.

1 *Diplomystus goodi* Eastman, from
Benito, West Africa.

THROUGH MUSEUM EXPEDITIONS

Plaster molds of 15 rays and sharks,
complete skeletons of 2 large Tiger
Sharks, and 22 jaws of miscellane-
ous species; formalin material of 4
sharks and 5 heads; miscellaneous
material, fins, skins, stomach con-
tents, etc., and field notes on food
and capture of sharks and rays,
from Morehead City, N. C. Col-
lected by J. C. Bell.

100 Hawaiian fishes from the Hono-
lulu market. Collected by Dr. Bar-
ton W. Evermann.

About 250 Marine Fishes, from Peru.
Collected by R. C. Murphy.

5 Egg-cases of Skates, 3 or 4 skeletal
fragments; about 15 larval fishes,
from Beaufort, N. C. Collected by
J. T. Nichols.

DEPARTMENT OF
HERPETOLOGY

By GIFT

M. BAYLIFF, Cherokee, Okla.

Snake skin, from Cherokee, Okla.

THEODORE BEARD, Sapulpa, Okla.

11 Frogs and Toads, Tadpoles, 21 Liz-
ards, 10 Snakes, and 9 Turtles, from
Sapulpa.

C. WILLIAM BEEBE, Tropical Research
Station of the New York Zoölogical
Society, Kartabo, British Guiana.

1 Caiman, 2 Snakes; 54 Amphibians
and Reptiles, from British Guiana.

RUDOLF BELASKE, Cold Spring-on-Hud-
son, N. Y.

1 Snake, from Cold Spring-on-Hud-
son.

J. BELL, Los Angeles, Cal.

2 Salamanders, 3 Lizards and 1 Snake,
from Los Angeles.

DR. G. A. BOULENGER, Brussels, Bel-
gium.

22 Lizards.

BRITISH MUSEUM (Natural History),
London, England.

2 Frogs.

PROF. ALVIN R. CAHN, College Station,
Tex.

2 Salamanders, 22 Frogs and Toads,
10 Lizards, 6 Snakes, 7 Turtles, and
3 eggs, from Lake Caddo, Harri-
son Co., Tex.

MRS. BERTHA CARTER, New York City.

2 Snake skins, from Africa. Col-
lected by Raymond DeCaylus.

RUSSELL J. COLES, Danville, Va.

1 Snake, from Danville.

MAJOR M. L. CRIMMINS, Fort Sam
Houston, Tex.

3 Snakes, from Fort Sam Houston.

MISSES ALDEN and KATHRYN DEMING,
New York City.

3 Snakes and 2 Turtles, from Red-
ding, Conn.

HALL DEMING, Ridgefield, Conn.

1 Lizard, from Columbus, Ga.

BASSETT DIGBY, New York City (Lon-
don, England).

2 Frogs, 1 Toad, 7 Tadpoles, and 1
Snake, from Hongkong Island,
China.

- ENRIQUE FEYER, Riobamba, Ecuador.
58 Amphibians, 17 Lizards, and 79 Snakes, from Ecuador.
- MISS ADA GALLAHER, Valdosta, Ga.
1 Lizard and 2 Snakes, from Valdosta.
- CHAPMAN GRANT, Detroit, Mich.
13 Salamanders, from Belle Island, Mich.
- MRS. A. C. GREEN, New York City.
1 Turtle, from near Jamaica, L. I.
- THOMAS HALLINAN, Paterson, N. J.
1 Cecilian, from Gatun, Panama Canal Zone.
- J. G. HAWLEY, West Redding, Conn.
1 Snake, from West Redding.
- WILLIAM T. HELMUTH, New York City.
1 Frog, 5 Lizards and 5 Snakes, from Palm Beach Co., Fla.
- VICTOR HILL, Sierra Madre, Los Angeles Co., Cal.
1 Snake, from Kaweah River, Tulane Co., Cal.
- ERNEST G. HOLT, Rio de Janeiro, Brazil.
2 Amphibians and 3 Lizards, from Rio de Janeiro.
- B. T. B. HYDE, New York City.
Frog and Toad tadpoles, 9 Lizards and 1 Snake, from Grand Gulch, Utah.
- PROF. GEORGE E. JOHNSON, Rio Piedras, P. R.
Embryo of *Eleutherodactylus auriculatus* (frog), from Porto Rico.
- R. D. O. JOHNSON, Quibdo, Colombia.
74 Amphibians, 50 Lizards, and 7 Snakes, from Colombia.
- WILLIAM J. LAVARRE, Washington, D. C.
75 Amphibians and 196 Reptiles, from Brazil.
- DR. F. E. LUTZ, Ramsey, N. J.
5 Frogs and Toads, and 3 Lizards, from Wyoming and Idaho.
- WILLIAM MACK, New York City.
2 Dried Frogs.
- BUREAU OF SCIENCE, Manila, Philippine Islands (through Dr. E. D. Merrill).
1 *Hazelia spinosa*, from Philippines. Collected by E. H. Taylor.
- W. DEW. MILLER, New York City.
1 Snake, from Moe, N. J.
- FRANK MITCHELL, Bristol, Tenn.
1 Salamander, from Bristol, Tenn.
- RICHARD MOLDENKE, JR., Watchung, N. J.
2 Salamanders and 2 Snakes, from Watchung, N. J.
- E. H. MORRIS, Aztec, N. M.
1 Lizard, from Aztec.
- R. C. MURPHY, Brooklyn, N. Y.
1 Lizard, from Port au Prince, Haiti.
- NEW YORK AQUARIUM, New York City.
1 Caiman, from British Guiana.
4 Frogs, 6 Salamanders, 3 Lizards, 4 Snakes, and 25 Turtles.
- NEW YORK ZOÖLOGICAL SOCIETY, New York City.
80 Amphibians and Reptiles.
- J. T. NICHOLS, New York City.
6 Turtles, from Mastic, L. I.
- J. T. NICHOLS and C. H. ROGERS, New York City.
1 Turtle, from Mastic, L. I.
- G. K. NOBLE, New York City.
12 Amphibians.
- PROFESSOR HENRY FAIRFIELD OSBORN, New York City.
1 Snake skin, from Garrison, N. Y.
- PAUL REGNIER, Two Buttes, Col.
1 Lizard, from Two Buttes, Col.
- EDWARD RODIN, New York City.
2 Frogs and 7 Lizards, from Mexican border, near McAllen, Tex.
- V. RODRIGUEZ, Havana, Cuba.
1 Frog, 15 Lizards, and 1 Snake, from Cuba.
- F. J. W. SCHMIDT, Stanley, Wis.
1 Salamander and 2 Frogs, from Stanley.
- KARL P. SCHMIDT, Stanley, Wis.
5 Amphibians and 144 Reptiles, from Santo Domingo.
- DR. LUCIEN SMITH, Lexington, Ky.
1 Frog, 2 Lizards, 1 Chameleon, and 8 Snakes, from Benito, Spanish Guiana, Africa.
- DR. MALCOLM A. SMITH, Bangkok, Siam.
1 Crocodile and 2 Turtles, from Siam.
- CARLOS CUESTA TERRON, Mexico City, Mexico.
3 Toads, from Jalisco, Mexico.
- MR. TWEEDY, Nabon, Ecuador.
30 Frogs, from Nabon, Ecuador.
- MISS DOROTHY WILLIAMS, Mt. Holyoke College, South Hadley, Mass.
11 Frogs, from South Hadley, Mass.

JOHN WILLIAMS, Changsa, China.
64 Frogs and Toads, 17 Lizards, and
33 Snakes, from China.

BY EXCHANGE

ANONYMOUS.

77 Frogs and Toads, Tadpoles, 20
Lizards, and 10 Snakes (and eggs),
from Colombia.

ANONYMOUS.

792 Amphibians, 81 Tadpoles, 288 Lizards,
1 Crocodile, and 95 Snakes,
from Colombia.

INSTITUTE OF COMPARATIVE ANATOMY,
Genoa, Italy (through Dr. G. Cattaneo).

8 Salamanders and 2 Lizards, from
Italy and Sardinia.

DR. H. L. KESTEVEN, New South Wales,
Australia.

3 Frogs, 21 Lizards and 12 Snakes,
from Bulladelah, New South Wales.

ARTHUR LOVERIDGE, Cardiff, Wales.

88 Lizards, 6 Chameleons, and 42
Snakes, from Africa.

229 Amphibians, from East Africa.

MUSEUM OF COMPARATIVE ZOOLOGY,
Cambridge, Mass.

29 Amphibians from Peru; 20 Amphibians
from Madagascar; 27 Amphibians,
1 Lizard and 1 Snake,
from Africa; 1 Frog and 1 Lizard.

PRINCETON UNIVERSITY, Princeton, N. J.

2 Frogs, 1 Lizard, 1 Snake, and 1
Turtle.

PEDRO SERIE, Buenos Aires, Argentina.

16 Amphibians and 26 Lizards, from
Argentina.

UNIVERSITY OF COLORADO, Boulder, Col.

1 Salamander, 6 Frogs and Toads, 5
Lizards, 6 Snakes and 1 Turtle.

BY PURCHASE

3 Frogs, 5 Lizards and 4 Snakes, from
Yunnanfu, Yunnan, China.

6 Frogs and Toads, 1 Lizard and 10
Snakes, from Yunnanfu and Wuting
Chow District, China.

4 Amphibians, 14 Lizards, and 10
Snakes, from South America.

63 Snakes, from Brownsville, Tex.

7 Snakes, from Louisiana.

1 Snake, from Texas.

57 *Ascapthus truei*, from Lake Cushman,
Washington.

THROUGH MUSEUM EXPEDITIONS

5 Frogs and Toads, 40 Lizards and 2
Snakes, from Jamaica. Collected by
H. E. Anthony.

23 Salamanders, 4 Frogs and 2 Snakes,
from Plainfield, N. J.

13 Salamanders, 4 Frogs and 1 Snake,
from Mountainville, N. Y. Collected
by C. L. Camp and G. K. Noble.

34 Frogs and Tadpoles, and 4 Toads
and Tadpoles, from Lakehurst, N. J.
Collected by C. L. Camp, G. K.
Noble, and K. P. Schmidt.

5 Salamanders, 2 Frogs, 3 Frog Tadpoles,
1 Snake and 2 Turtles, from
New Jersey. Collected by K. P.
Schmidt.

16 Frogs and 8 Lizards, from Jamaica.
Collected by F. E. Watson.

DEPARTMENT OF ORNITHOLOGY

BY GIFT

CHARLES ALLGOEVER, New York City.

1 Ovenbird in the flesh.

ANONYMOUS.

Body of Hooded Merganser in the
flesh, 1 Goldfinch.

ANONYMOUS.

30 Skins of Hummingbirds.

ANONYMOUS.

1 Wood Thrush in the flesh.

MRS. G. EDWIN BARTOW, Northport, L. I.

1 Myrtle Warbler, from Northport.

JAMES A. BEATTY, Ridgefield, N. J.

Living Plymouth Rock Hen.

DR. W. H. BERGTOLD, Denver, Col.

3 Skins of Lark Bunting, from Denver,
Col.

FREDERICK F. BREWSTER, New Haven,
Conn.

3,378 Skins of Birds, collected by R.
H. Beck, from South America and
West Indies.

JAMES P. CHAPIN, New York City.

1 Skin of Winter Wren, from Vermont.

E. S. CHRISTMAN, Farmingdale, L. I.

5 Common Chickens, in the flesh, and
1 Turkey, in the flesh, from Farmingdale.

MRS. JULIUS HENRY COHEN, New York
City.

1 Heron in the flesh.

- MAUNSELL CROSBY, Rhinebeck, N. Y.
1 Redpoll, in the flesh.
- DR. W. E. DEEKS, New York City.
Skin of Quetzal, from Central America.
- BERNARD FREAD, New York City.
1 Blue Jay, in the flesh, from Staten Island.
- G. V. HOLLINS, New York City.
Barnacle Goose, from Money Island, Great South Bay, N. Y.
- E. INGERSOLL, New York City.
1 Evening Grosbeak, in the flesh.
- MISS ALMEDA E. JOHNSON, Clinton, Conn.
1 Hybrid Purple-bronzed Grackle, in the flesh, from New Rochelle, N. Y.
- ANDREW M. JOHNSON, New York City.
1 Crossbill, in the flesh, from New York City.
- E. H. JOSEPH, Sidney, New South Wales.
1 Weaver, 1 Parakeet, 1 Gallinule, 2 Cockatoos, and 1 Podargus, all in the flesh.
- WILLARD L. METCALF, New York City.
2 Orioles, from British East Africa.
- W. DEW. MILLER, New York City.
1 White-throated Sparrow and 2 young Black-billed Cuckoos in the flesh, from New Jersey.
- ALBERT MOYER, New York City.
2 Buffleheads, in the flesh, from Broad Water Bay, Va.
- DR. JOHN P. MUNN, New York City.
1 Heron, in the flesh.
- ROBERT CUSHMAN MURPHY, Brooklyn, N. Y.
4 Bird skins from Peru.
- NEW YORK ZOOLOGICAL SOCIETY, New York City.
Weaver, Quail, Horned Screamer, 4 Parrots, 4 Pigeons, 2 Rails, Kingfisher, 2 Pheasants, 5 Parakeets, Bower bird, Black-necked Screamer, Stock Dove, Emu, Maribou, Curassow, Motmot, Water-turkey, Trumpeter Swan, Whistling Swan, 2 Cranes, 2 Buntings, Magpie, Sharp-shinned Hawk, Stork, Wood Duck, Brant, Troupial, Crake, Green Bulbul, Adjutant Stork, Partridge, Bobwhite, Rough-legged Hawk, Ka-ka, Cockatoo, Owl, 2 Toucans.
- F. NOVAK, Fairfield, Conn.
5 Crows, in the flesh, from Fairfield.
- MRS. NINA L. PARMLY, Orange, N. J.
Cabinet of Birds' eggs, presented in memory of E. Parmly.
- DEPARTMENT OF PARKS, New York City.
1 Golden Pheasant, in the flesh, 1 Silver pheasant, 2 Mute swans.
- WALLACE PECK, New York City.
Loon, mounted flying, from Maine.
- LORD WILLIAM PERCY, London, England.
98 Bird skins, from Bolivia.
- RAYMOND B. POTTER, New York City.
1 Cooper's Hawk, 1 Canada Warbler, 1 Yellow-bellied Flycatcher, 1 Shrike, 2 Woodcocks, in the flesh, from West Nyack, N. Y.
- DR. F. REGNIER, Regnier, Col.
1 Red-shafted Flicker, from Regnier, Col.
- W. B. RICHARDSON.
92 Bird skins, from Colombia.
- CHARLES H. ROGERS, New York City.
1 Horned Grebe, in the flesh, from Long Beach, L. I.
- DR. L. C. SANFORD, New Haven, Conn.
1 Skin of Western Gull, 1 of Turkey Vulture.
6 Hummers, 7 Hawks, and 1 Penelope, from Florida and Mexico.
Bodies of Shoveller, Gadwall, Brant, Bufflehead and Pintail Ducks, from Pea Island, N. C.
- CAPT. F. SHERIDAN, New York City.
Skin of Bellbird, from Panama.
- MRS. GEORGE WYNN SHIRK, New York City.
1 Woodcock, in the flesh, from New York City.
- GEORGE D. STERLING, New York City.
1 Purple Grackle, in the flesh.
- DAN. R. WELLS, New York City.
1 Troupial and 1 young Night Heron.
- J. VON Lengerke, New York City.
3 Cooper's Hawks, in the flesh, from Stag Lake, Sussex Co., N. J.

BY EXCHANGE

- EDWIN E. ASHBY, Blackwood, South Australia.
322 Bird skins, from South Australia.
- V. RAFAEL BARROS, Rio Blanco, Chile.
35 Bird skins, from Chile.
- HENRY F. COALE, Highland Park, Ill.
27 Bird skins.

J. H. FLEMING, Toronto, Canada.
2 Skins of *Gallinago pusilla*.

THOMAS HALLINAN, Paterson, N. J.
285 Bird skins from Panama and 11 from Chile.

MUSEO NACIONAL DE HISTORIA NATURAL,
Buenos Aires, Argentina.
163 Birdskins.

MUSEUM OF COMPARATIVE ZOÖLOGY,
Cambridge, Mass.
77 Specimens from various localities.

UNITED STATES NATIONAL MUSEUM,
Washington, D. C.
417 Birdskins, from Celebes and Costa Rica.

ZOÖLOGICAL MUSEUM OF MUNICH, München, Germany, through Dr. C. E. Hellmayr.

108 Birdskins from Venezuela.

BY PURCHASE

16 Bird skins, from Egypt.

THROUGH MUSEUM EXPEDITIONS

87 Bird skins, from China. Collected by Roy C. Andrews.

28 Bird skins, from Jamaica. Collected by H. E. Anthony.

1,157 Bird skins, from Peru. Collected by Harry Watkins.

DEPARTMENT OF MAMMALOGY

BY GIFT

F. D. BARSTOW, Chittenden, Vt.
4 Young Silver Foxes, in the flesh.

CHARLES D. BROWER, Pt. Barrow, Alaska.
46 Lemmings, 2 Ground Squirrels, 8 Least Weasels, and 1 embryo in alcohol, 1 Weasel, and 1 Shrew, from Pt. Barrow.

JAMES P. CHAPIN, New York City.
3 Specimens *Peromyscus maniculatus nubiterrae*, 2 *Evotomys carolinensis*, 2 *Neosorex albibarbis*, and 3 *Myotis lucifugus* Le Conte, from North Carolina, Vermont, and New York.

J. CONNOLLY, New York City.
1 Bat, New York City.

BUREAU OF FISHERIES, Department of Commerce, St. Paul Island, Alaska.
13 Fur Seals, from St. Paul and St. George Islands, Alaska.

GEORGE GOODWIN, New York City.
Lasiurus borealis, South Orange, N. J.

A. K. HAAGNER, Pretoria, Transvaal.
Wild, captive Mountain Zebra, from South Africa.

GEORGE G. HEYE, New York City.
Odd bones: Mammals, Birds, and Fish, from Santo Domingo.

DEPARTMENT OF INVERTEBRATE ZOÖLOGY (Transfer).

2 Specimens of Bats, from Jamaica. Collected by F. E. Watson.

R. D. O. JOHNSON, Colombia, S. A.
Skin and skeleton of Ash Sloth, from Colombia.

MRS. M. B. KENT, New York City.
Chihuahua Dog, in the flesh.

GEORGE KIRK, Rutland, Vt.
1 *Sorex fumeus* Miller, from Rutland, Vt.

DR. G. A. MACCALLUM, New York City.
Skin of Giant Squirrel.

J. P. MORGAN, New York City.
Skin and skull of Fox, skull of Fox and horn of *Panthalops hodgsoni*, from Tibet. Collected by Rev. H. B. Marx.

R. C. MURPHY, Brooklyn, N. Y.
Skin of South American *Canis*, from Peru.

MUSEUM OF THE AMERICAN INDIAN, New York City.

Mammal bones, from Tennessee.

NEW YORK ZOÖLOGICAL SOCIETY, New York City.

Jaguar, Sloth Bear, 16 Monkeys, Pigmy Hippo, Ocelot, 3 Agouties, Kit Fox, Ringtail Cat, Opossum, Marmoset, Capuchin, Deer, 2 Coati Mundis, 4 Lemurs, Spanish Ibex, 3 Hyraxes, Peccary, 6 Squirrels, 2 Spotted Cavies, Sea Lion, Coypu Rat, Adenota Antelope, 2 Rocky Mountain Sheep, Crab-eating Raccoon, 2 Water Mongooses, Chipmunk, Galago, Zorilla, Wallaroo, Black Wallaby, African Elephant "Congo," Panda, 2 Meerkats, Kinkajou, 2 Bandicoots, 4 Phalangiers, Tasmanian Devil.

MRS. F. H. PARKER, New York City.
Mounted head of South American Steer—spread of horns tip to tip 5' 3".

DEPARTMENT OF PARKS, New York City.
Agouti, Polar Bear, 4 Monkeys, young Camel, Black Bear, Coati, 3 Canadian Porcupines, Sea Lion, Zebra, Ringtail Cat, Ocelot, 1 young Deer, 2 Foxes, Raccoon, and Fallow Deer.

RAYMOND POTTER, New York City.
Skull of Polar Bear.

VICTOR J. RODRIGUEZ, Habana.
7 Jars of Bats in alcohol, from South America.

M. F. SAVAGE, New York City.
Horns of South American Buffalo.

CHARLES SCHWARZ, Astoria, L. I.
2 Specimens of *Mus musculus* from Astoria.

C. ROY STROTZ, New York City.
Giant Armadillo skin, from Paraguay.

JACQUES SUZANNE, Fort Montgomery, N. Y.
"Siberian" Rabbit.

J. M. VANDERGRIFF, New York City.
English Bulldog, Champion "Katerfelto," mounted.

BY EXCHANGE

MUSEUM OF COMPARATIVE ZOOLOGY,
Cambridge, Mass.

2 Specimens of *Chilonycteris ful. torrei*, from Cuba.

UNITED STATES NATIONAL MUSEUM,
Washington, D. C.

2 Marsupials: *Orolestes*, from Peru.

BY PURCHASE

3 Agoutis, 4 Anteaters, 3 Armadillos, 86 Bats, 5 Deer, 4 Mice, 19 Monkeys, 10 Opossums, 1 Paca, 1 Pecary, 6 Rats, 3 Sloths, 2 Tayras, from British Guiana. Collected by William Beebe.

7 Specimens of small Mammals, from Brazil.

Group of Wildcats, male, female and 3 young, from Douglas, Co., Col.

Pygmy Sperm Whale in the flesh, from South Beach, S. I.

3 Ibex skins and skulls, from Italy.

2 Fœtal porpoises, 1 porpoise skull.

Spectacled Bear, from Merida, Venezuela.

Skin of Black Wolf (Alaskan).

THROUGH MUSEUM EXPEDITIONS

1,216 Mammals, from Mongolia and Northern China. Collected by R. C. Andrews.

628 Small Mammals, and 1 lot of Fossil and subfossil Mammal remains, from Jamaica. Collected by H. E. Anthony and Charles Falkenbach.

2 Specimens of *Cavia*, and 14 *Epimys*, from Peru.

DEPARTMENT OF VERTEBRATE PALAEONTOLOGY

BY GIFT

PROFESSOR MARCELLIN BOULE, Paris, France (through Professor Osborn).

Cast of bison figure incised on a water-worn slate by a Crô-Magnon artist, Upper Palæolithic, France.

W. R. BROWN, Berlin, N. H.

13 Photographs of Arabian horses, from Berlin, N. H.

H. K. BUSH-BROWN, Washington, D. C.
Horse skeleton ($\frac{1}{2}$ Arabian), from Washington, D. C.

EDWARD H. DAVIS and JOSEPH MENAGER, Mesa Grande, San Diego Co., Cal.

3 Lower molars of *Elephas imperator*.

MISS HAZEL E. KLEIPA, Brooklyn, N. Y.
Articulated human skeleton.

E. P. MATHEWSON, New York City.

Part of fossil bison skull with horn cores, from Great Falls, Mont.

PROFESSOR G. ELLIOT SMITH, London, England.

2 Lantern slides of a part of the Pilt-down skull.

DR. SPALDING, New York City.

Skull and limbs of Russian Wolfhound, in the flesh.

VICTORIA MEMORIAL MUSEUM, Ottawa, Canada.

Casts of caudals of *Gorgosaurus*.

H. VON IHERING, Santa Catharina, Brazil.

Series of fossil shark teeth from Tertiary formations of Argentina (13 specimens).

BY EXCHANGE

BRITISH MUSEUM (Natural History), London, England.

Casts of fossil specimens: *Elephas columbi* type tooth, and *Archaeopteryx*, part of skeleton.

BY PURCHASE

Russian Wolfhound, from New York City.

THROUGH MUSEUM EXPEDITIONS

Collection of Moropus and Dicera-therium skeletons from Agate Spring Quarry, Neb. Collected by Albert Thomson.

DEPARTMENT OF
ANTHROPOLOGY

By Gift

COPLEY AMORY, JR., New York City.

Collection of photographs, mainly racial types, from Transcaucasia.

MISS MARY APPLETON, Newport, R. I.

1 Piece of Pottery from South America, 2 strings of Beads, from Peru, 1 string of trade Beads from California, 1 Beaded Bag from the Plains.

MRS. WILLIAM LINCOLN BALCH, New York City (through Metropolitan Museum of Art).

Kauri Heart, emblem of love and purity, made by natives from gum of Kauri tree growing in the Province of Auckland, N. Z.

MISS LAURA E. W. BENEDICT, Montclair, N. J.

Ethnological specimens, from Bagobo, Philippine Islands.

CHARLES L. BERNHEIMER, New York City.

Archæological collection: 5 pots, 3 bone implements, 7 stone implements, a number of chipped points and potsherds, 1 medicineman's outfit, 1 sandal stone, and stone mortar, from Utah.

MRS. RICHARD BIGELOW (deceased)—(through Miss Ella Lockwood, New York City).

Tapa bedspread, made from bark of trees by the natives of the Sandwich Islands.

PROF. FRANZ BOAS, New York City.

Pottery fragments and 1 pottery head, from Laguna, N. M., and Porto Rico.

HOWARD P. BULLIS, Brooklyn, N. Y.

16 Chipped points, 2 hammerstones, 1 axe of iron fragment, 1 wedge, 1 chipped blade, 4 chipped points, from New York, Illinois and Lake States.

MRS. NATALIE BURLIN, New York City.

Collection of phonographic records of African and North American Indian music.

CHASE NATIONAL BANK, New York City (through Mr. Smith).

Human bones, animal bones, and crockery.

MRS. JOHN DALLET, New York City.
Venezuelan Indian Hammock.

MRS. EDWARD L. DUFOURCO, New York City.

1 Pot of arrow poison, 2 bows, 10 arrows, 10 spears, from South America.

1 Long woven band, 1 long woven cord, 1 bead necklace—Mexican; 2 swords and 2 foils—American; 2 large Chinese fighting spears; and 1 buckskin pouch, 1 small knife, and 1 wooden blade in bamboo case.

MISS ELSIE EARLE, New York City.

1 Pair of children's moccasins, 1 pair of men's moccasins, 2 beaded bags, 1 small cradle board with doll, 2 small bows, and 1 rabbit stick.

DR. M. P. GILMORE, Bismarck, N. D.

20 Squashes representing types of squash raised by Hidatsa-Mandan Indians, from Bismarck, N. D.

G. W. GRAFFIN, Shiprock, N. M.

2 Navajo medicine bags from Medicineman's outfit; 2 Navajo pots; from New Mexico.

R. P. GREEN, New York City.

Stone axe (found in anthracite coal).

ALBERT GUGGENHEIM, JR., New York City.

2 Stone arrow points, from El Paso, Tex.

AUGUST HECKSCHER, New York City.

Archæological collection, from Egypt.

JAMES HENNESSEY, JR., New York City.

Musical instrument, from Haiti.

MISS M. M. HINMAN, Tuckahoe, N. Y.

Ethnological collection from the Pacific Islands.

DR. S. DANA HUBBARD, New York City.

1 Indian skull, Chinese saddle stirrups, 1 pair of Indian shoes, 1 pair shoes, 2 arrows, and grass knife, from Florida and the Philippine Islands.

LOUIS D. HUNTOON, New York City.

1 Human sacrum, 1 piece of human jaw, 1 vertebra, pottery fragments, and 4 flints, from cave in Arkansas.

DAVID B. INGERSOLL, New York City.

2 Rattling dancing sticks and 2 basket trays, from Hupa Indians, Cal.

MISS ISLES, Bay Ridge, Brooklyn, N. Y.

10 Pottery vessels, from Catawba(?), N. Y.

MRS. ROBERT JOHNSTONE KAHN, New York City.

2 Figures of Bushmen, male and female; figure—life size—showing musculature of man; Siamese twins—plaster models; tanned human skins, male and female; "Klastic" copy of gorilla skeleton; from "Kahn's Museum." (Received January, 1919.)

MRS. AUGUSTUS KIRKHAM, New York City.

Mexican blanket, belonging to a notorious Mexican bandit named Vidauri, who, after making many raids over the border, was pursued by our troops, captured and killed by them in 1857. The troops were under the command of Lieut. Fritzburgh Lee, a nephew of Gen. Robt. E. Lee.

L. D. LANGLEY, New York City.

1 Flint implement, from Upper Norwood, London, Eng.

MRS. FREDERIC S. LEE, New York City.

1 Piece of tapa cloth.

MARSHALL C. LEFFERTS, New York City.

Japanese bow, 10 arrows, and quiver.

WALTER LLOYD, New York City (bequest of Herbert M. Lloyd).

Archæological specimens consisting of arrow and spearheads, sinkers, tomahawks, axes, drills, scrapers, pipes, etc., from Lake Piseco, Hamilton Co., N. Y.

MISS BERYL H. LOVEJOY, Huntington, N. Y.

Collection of cloth and raw material, also 3 wooden needles, Huacho, Peru.

JOHN MARSHALL, Prov. di Lucca, Italy.

Horn of Indian Rhinoceros, presented to Pope Gregory XIV in 1590 by the Prior and Brothers of the Monastery of Saint Mary of Guadalupe, Spain.

MISS K. A. MCCARREN, New York City.

Ethnological specimens, from Mexico.

DR. JOSEPH A. MCPHILLIPS, New York City.

1 Adze and 7 adze blades, from South Sea Islands.

WALTER MEYNER, New York City.

3 Wooden masks.

J. P. MORGAN, New York City.

Large collection of ethnological specimens from Tibet. Collected by Rev. H. B. Marx.

E. R. MORRIS, New York City.

6 Hats, 1 pair of clogs, 8 baskets, 2 small basket-trays, 2 sieves, 1 basket, from Islands of Panay and Negros, Philippine Islands; 1 basket, 1 pair of wooden sandals, from China; 2 pairs of moccasins, 1 small beaded pouch, 2 buckskin pouches, from North America; 1 basket, Pima or Papago; 1 fibre bag, 1 god, chains of shell and bamboo.

EMIL MOSONYI, New York City.

1 Carved stone, from Antigua, Guatemala.

MRS. GUSTAVE MOURRAILLE, New York City.

7 Poisoned arrows, from Brazil.

WILLIAM J. O'REARDON, New York City.

Fibre from a palm, from Nicaragua.

MRS. E. C. PARSONS, New York City.

Ethnological specimens (feather sticks, etc.), from Laguna.

MRS. WILLIAM ALFRED PERRY, New York City.

6 Arrowpoints, 4 shells on string, 2 pieces of quartz, from Colorado.

MISS CORNELIA PRIME, Huntington, L. I.

2 Bows and 2 clubs, from South Seas.

MRS. A. SUMNER ROSE, New York City.

1 Bow, 1 quiver, and skin robe, from Tarahumare Indians, Mexico.

JAMES H. RUTTER, New York City.

Broken pot, from England.

M. F. SAVAGE, New York City.

Stone pestle, from Brooklyn, N. Y.; rubbing stone, from Northport, L. I.; and club, from New Guinea.

J. SCHACK, New York City.

Trap for catching birds, made by natives of Africa.

CAPT. JOHN F. SHERIDAN, New York City (through Dr. Chapman).

Stone image, from Panama.

ALANSON SKINNER, New York City.

Necklace of jaguar teeth and carved gourd for cocoa, from Costa Rica.

E. ALBERT SMITH, New York City.

- 4 Photographs of Geronimo (copy-righted), taken March 27, 1886, three days before he escaped, from Arizona.

LEE PRESCOTT TALMAN, New York City.
1 Spear and 1 Club, from Fiji Islands. Collected by Captain Bird.

IRVING K. TAYLOR, New York City.
2 Fish skin boots.

COL. JOHN C. F. TILLSON, U. S. A., Governors Island, N. Y.
1 Pair of duel knives and case, from China.

Chinese shield from Boxer Expedition in 1900; Boxer uniform; portfolio of Chinese paintings of butterflies; 2 lacquer boxes of artist's inks encased in one ornamental box; 1 pair Manchu woman's shoes; 1 pair spectacles and case from Boxer Expedition; Chinese compass; camel's hair brush; 4 opium pipe bowls; 1 Egyptian lamp; 1 Apache cane.

PARK J. WHITE Co., New York City.
1 Paddle, and bundle of bows and arrows, from South America.

F. L. WILDE, New York City.
Piece of pottery, from Chiriqui, Panama.

G. F. WILL (through Dr. H. J. Spinden).
Casts of squashes, from Hidatsa-Mandan Indians, N. D.

MRS. O. A. WOODRUFF, New York City.
2 Sudanese assegai from above Second Cataract, Nile; 1 Laplander's hunting knife, 1 Laplander's knife, 1 Laplander's spearpoint, from northern Norway; 1 beaded pipestem from India; 3 whips of rhino hide from Egypt; cap and parasol handle from Trinidad; 1 bamboo spearpoint.

BY EXCHANGE

BRITISH MUSEUM (through Department of Vertebrate Palæontology).
Cast of bone implement, from Piltown, England.

LIEUT. G. T. EMMONS, Princeton, N. J.
Shaman's charm, of a section of whale tooth, Nishka, Lower Nass River; headdress mask of birch, ceremonial, Kineolith, mouth of Nass River.

Mammoth ivory cup, from Indians of Alaska.

B. E. HOOVER, New York City.
1 Zufii pot, from Zufii, N. M.

S. ICHIKAWA.

1 Short sword, 1 sword guard, and 1 ivory carved toggle, from Japan.

GEORGE B. JORDAN, London, Ind.

1 Chipped point, 1 chipped blank, 1 clam shell (camp site), 2 pieces of bone (camp site), 10 sets of potsherds, Shelby Co., Ind.

GEORGE LANGFORD, Joliet, Ill.

Archæological material from the Des Plaines River, Ill.

UNIVERSITY MUSEUM, Dunedin, N. Z.

2 Maori slabs, made by old Arawa carvers of Rotorua, New Zealand.

FRANK WOOD, New Bedford, Mass.

3 Ethnological specimens from South Sea Islands.

BY PURCHASE

Collection of palæolithic implements, from Sahara and Algiers.

Ethnological and archæological specimens from Minnesota (Ojibwa); 3 Carved wooden birds.

Collection of Peruvian textiles (130 pieces) and 20 pottery vessels, from Trujillo and Nazca, Peru.

Maori Kumete (food bowl called Ipu Kuru), from New Zealand.

Skull from Cliff-dwellings and broken pottery, from Mancos Canyon, Col.

2 Birchbark baskets, Canada; wooden spoon and blanket, Navajo.

9 Skulls from India, and 1 skull from Mexico.

1 Poncho, 4 beaded bands, and 1 headdress, from Piros Indians, Peru.

2 Pottery vases, from Arizona.

Japanese vase of Kutani ware.

1 Woven blanket, 1 buffalo robe, 1 medicine bundle containing 2 flutes and 1 rattle, 1 girdle with feathers and bells, 1 bunch of feathers with sweet grass, 1 bunch of feathers, 1 red cotton handkerchief, and 3 bundles of other specimens, from Pawnee, Okla.

Micmac wigwam, from Cape Breton Island band.

Ethnological and archæological collection from Tadousac and Eastern Canada.

- Clay pot, from Upper Colville River, Alaska.
 2 Furs, 20 pieces of carved red lacquer, 8 pieces of porcelain, 8 of jade, 6 of ivory, and 2 of chalcodony, from China.
 6 Casts of archæological specimens, from France.

THROUGH MUSEUM EXPEDITIONS

- Archæological specimens, from Aztec, N. M. Collected by E. H. Morris.
 1 Box of Potsherds, and archæological specimens, from Arizona. Collected by N. C. Nelson.

DEPARTMENT OF
PUBLIC HEALTH

BY GIFT

- JOHN S. BUCKLEY, Washington, D. C.
 3 Bacterial specimens.
 BUREAU OF ANIMAL INDUSTRY, Washington, D. C.
 Bacterial specimen.
 COLLEGE OF PHYSICIANS AND SURGEONS, New York City.
 Bacterial specimen.
 DR. I. C. HALL, Chicago, Ill.
 7 Bacterial specimens.
 DR. E. R. LONG, Chicago, Ill.
 Bacterial specimen.

- MICHIGAN AGRICULTURAL COLLEGE, East Lansing, Mich.
 Bacterial specimen.
 DR. W. C. NOBLE, New York City.
 5 Bacterial specimens.
 SWAN-MYERS Co., Indianapolis, Ind.
 Bacterial specimen.

MISCELLANEOUS

BY GIFT

- JOHN C. LAMON, Calderood, Blount Co., Tenn.
 Live Rattlesnake, from Tennessee.
 WILLIAM H. TAYLOR, New York City.
 Mounted toy Dog (about 3 inches high), from India.

ART

BY GIFT

- MRS. ALBERT S. BICKMORE, New York City.
 Oil painting of Professor Albert S. Bickmore, painted in Holland in 1903, by Louis Betts.
 MRS. E. H. HARRIMAN, New York City.
 Bronze bust of John Muir, by Malvina Hoffman.

BY PURCHASE

- Bronze Eagle, for proposed Memorial Tablet.

INCORPORATION

AN ACT

TO INCORPORATE THE

AMERICAN MUSEUM OF NATURAL HISTORY

Passed April 6, 1869

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

SECTION 1. John David Wolfe, Robert Colgate, Benjamin H. Field, Robert L. Stuart, Adrian Iselin, Benjamin B. Sherman, William A. Haines, Theodore Roosevelt, Howard Potter, William T. Blodgett, Morris K. Jesup, D. Jackson Steward, J. Pierpont Morgan, A. G. P. Dodge, Chas. A. Dana, Joseph H. Choate and Henry Parish, and such persons as may hereafter become members of the Corporation hereby created, are hereby created a body corporate, by the name of "The American Museum of Natural History," to be located in the City of New York, for the purpose of establishing and maintaining in said city a Museum and Library of Natural History; of encouraging and developing the study of Natural Science; of advancing the general knowledge of kindred subjects, and to that end of furnishing popular instruction.*

SEC. 2. Said Corporation shall have power to make and adopt a Constitution and By-Laws, and to make rules and regulations for the admission, suspension and expulsion of its members, and their government, the number and election of its officers, and to define their duties, and for the safe keeping of its property, and, from time to time, to alter and modify such Constitution, By-Laws, Rules and Regulations. Until an election shall be held pursuant to such Constitution and By-Laws, the persons named in the first section of this Act shall be, and are hereby declared to be, the Trustees and Managers of said Corporation and its property.

SEC. 3. Said Corporation may take and hold by gift, devise, bequest, purchase or lease, either absolutely or in trust, for any purpose comprised in the objects of the Corporation, any real or personal estate, necessary or proper for the purposes of its incorporation.†

SEC. 4. Said Corporation shall possess the general powers, and be subject to the restrictions and liabilities, prescribed in the Third Title of the Eighteenth Chapter of the First Part of the Revised Statutes, and shall be and be classed as an educational corporation.*

SEC. 5. This Act shall take effect immediately.

STATE OF NEW YORK, }
OFFICE OF THE SECRETARY OF STATE. } ss.:

I have compared the preceding with the original law on file in this office, and do hereby certify that the same is a correct transcript therefrom, and of the whole of said original law.

[L. s.] Given under my hand and seal of Office at the City of
Albany this fourteenth day of April, in the year one
thousand eight hundred and sixty-nine.

D. WILLERS, JR., *Deputy Secretary of State.*

† Section 3. As amended by Chapter 303, Laws of 1898, of the State of New York, entitled "An Act to amend chapter one hundred and nineteen, laws of eighteen hundred and sixty-nine, entitled 'An Act to incorporate the American Museum of Natural History,' relative to its charter."

* Sections 1 and 4. As amended by Chapter 162 of the Laws of 1909, entitled "An Act to amend chapter one hundred and nineteen of the laws of eighteen hundred and sixty-nine, entitled 'An Act to incorporate the American Museum of Natural History,' in relation to classifying said corporation and modifying its corporate purposes."

CONTRACT

WITH THE DEPARTMENT OF PUBLIC PARKS

FOR THE OCCUPATION OF THE NEW BUILDING

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

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

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

Whereas, it is desired as well by the said party of the first part, as by the said party of the second part, that, immediately upon the completion and equipment of said building, the said party of the second part should be established therein, and

should transfer thereto its museum, library and collections, and carry out the objects and purposes of the said party of the second part;

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

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

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

Thirdly.—That as soon after the completion and equipment of said building as practicable, said party of the second part shall transfer to, and place and arrange in said building, its museum, library and collections, or such portion thereof as can be properly displayed to the public therein, and shall have and enjoy the exclusive use of the whole of said building, subject to the provisions herein contained, and the rules and regulations herein prescribed, during the continuance of the term granted, or until a surrender thereof, as herein provided.

Fourthly.—That the exhibition halls of said building shall, on Wednesday, Thursday, Friday and Saturday of each week,

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

Fifthly.—That the museum, library and collections, and all other property of said party of the second part, which shall or may be placed in said building, shall continue to be and remain absolutely the property of said party of the second part, and neither the said party of the first part nor the said the Mayor, Aldermen and Commonalty, shall by reason of said property being placed in said building, or continuing therein, have any right, title, property or interest therein; nor shall the said party of the second part, by reason of its occupation and use of said building under this agreement, acquire, or be deemed to have any right, title, property or interest in said building, except so far as expressly granted by this agreement.

Sixthly.—That the said party of the second part shall, on or before the first day of May, in every year, during the continuance of this agreement, submit to the said party of the first part, its successor or successors, a detailed printed report of the operations and transactions of the said party of the second part, and all its receipts and payments, for the year ending with the 31st day of December next preceding.

Seventhly.—That said party of the first part shall have, at all times, access to every part of the said building for general

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

Eighthly.—That said party of the second part may, at any time, after the expiration of three, and before the expiration of six, months from the date of the service of a notice in writing to said party of the first part, its successor or successors, or to the Mayor of the City of New York, of its intention so to do, quit and surrender the said premises and remove all its property therefrom; and upon and after such notice, the said party of the second part shall and will, at the expiration of the said six months, quietly and peaceably yield up and surrender unto the said party of the first part and its successors all and singular the aforesaid demised premises. And it is expressly understood and agreed by and between the parties hereto that if the said party of the second part shall omit to do, perform, fulfill or keep any or either of the covenants, articles, clauses and agreements, matters and things herein contained, which on its part are to be done, performed, fulfilled or kept, according to the true intent and meaning of these presents, then and from thenceforth this grant and demise shall be utterly null and void. And in such case it shall and may be lawful for said Department to serve or cause to be served on the said party of the second part a notice in writing declaring that the said grant hereinbefore made has become utterly null and void and thereupon the said party of the first part, its successor or successors (ninety days' time being first given to the said party of the second part to remove its property therefrom, may reënter, and shall again have, repossess and enjoy the premises aforementioned, the same as in their first and former estate, and in like manner as though these presents had never been

made, without let or hindrance of the said party of the second part, anything here contained to the contrary notwithstanding.

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

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

In presence of
D. PORTER LORD.

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

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

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

.....
SEAL
: of the American :
: Museum of :
: Natural History :
.....

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

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

[SEAL]

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

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

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

[SEAL]

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

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

Witness my hand and official seal,

[SEAL]

FREDERICK W. LOEW,
Register.

NOTE.—July 25, 1892, by consent of the Trustees, section fourth was modified to enable the Trustees to open the Museum free to the public "throughout the year, excepting Mondays, but including Sunday afternoons and two evenings of each week."

June 29, 1893, by consent of the Trustees, section fourth was modified to enable the Trustees to open the Museum free of charge to the public "throughout the year for five days in each week, one of which shall be Sunday afternoon, and also two evenings of each week."

CONSTITUTION
OF THE
AMERICAN MUSEUM OF NATURAL HISTORY
IN THE CITY OF NEW YORK

REVISED AND AMENDED TO FEBRUARY 7, 1916

ARTICLE I

This Corporation shall be styled THE AMERICAN MUSEUM OF NATURAL HISTORY.

ARTICLE II

The several persons named in the charter, and such others as they may add to their number, which shall not exceed twenty-five in all at one time, and in addition, the Mayor, the Comptroller, and the President of the Department of Public Parks, of the City of New York, for the time being, *ex-officio*, shall be the Trustees to manage the affairs, property and business of the Corporation.

The members of the Board of Trustees holding office at the time of the regular quarterly meeting of November, 1905, shall then, or at the first meeting of the Board thereafter, be divided by lot into five classes of five members each, to serve for the terms of one, two, three, four and five years respectively from the date of the annual meeting of February, 1906. The Board of Trustees at each annual meeting thereafter, or an adjournment thereof, shall by ballot, by a majority vote of the Trustees present at the meeting, elect five Trustees to supply the places of the class whose term expires at that meeting; said newly elected Trustees to hold office for five years or until their successors are elected. In case of a vacancy in the Board by death, resignation, disqualification or otherwise, the vacancy shall be filled by ballot, in like manner, by the Board of Trustees at any regular meeting or special meeting, for the unexpired term. No person shall be eligible for election as Trustee unless his name shall be presented by the Nominating Committee at a regular or special meeting of the Board previous to

the meeting at which his name shall be acted upon. Written notice of such election and the vacancy to be filled shall be sent to the Trustees at least one week prior to said meeting.

ARTICLE III

The Trustees shall meet regularly, on the first Monday of every February and May, and the second Monday of November, at an hour and place to be designated, on at least one week's written notice from the Secretary, and shall annually, at the regular meeting in 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, who shall be elected from among the Trustees. These officers shall be elected by ballot, and the persons having a majority of the votes cast shall be deemed duly elected. They shall hold their offices for one year or until their successors shall be elected.

SEC. 2. The Board of Trustees shall appoint each year, in such manner as it may direct, the following Standing Committees: an Executive Committee, an Auditing Committee, a Finance Committee and a Nominating Committee. These Committees are all to be elected from the Trustees, and the members shall hold office for one year or until their successors shall be elected.

The Board of Trustees shall also have authority to appoint such other committees or officers as they may at any time deem desirable, and to delegate to them such powers as may be necessary.

The Board of Trustees shall have power to appoint a Director who, acting under the authority and control of the President, shall be the chief administrative officer of the Museum; but shall not be a member of the Board. He shall hold office during the pleasure of the Board.

ARTICLE V

SECTION 1. The President shall have the general supervision, direction and control of the affairs of the Corporation, and shall preside at all the meetings of the Museum and of the Trustees. In his absence or inability to act, the First or Second Vice-President shall act in his place, or in the absence of these officers, a Trustee appointed by the Executive Committee.

SEC. 2. The Secretary shall be present, unless otherwise ordered by the Board, at all the meetings of the Museum and Trustees, of the Executive Committee and such other Committees as the Board may direct. He shall keep a careful record of the proceedings of such meetings, shall preserve the seal, archives and correspondence of the Museum, shall issue notices for all meetings of the Trustees and various committees, and shall perform such other duties as the Board may direct.

The Board of Trustees shall have power to appoint an Assistant Secretary, who, under its direction, shall perform the duties of the Secretary in his absence or inability to act. The Assistant Secretary shall be an administrative officer of the Museum and shall act under the direction of the President or the Secretary. He shall hold office during the pleasure of the Board.

SEC. 3. The Treasurer shall receive and disburse the funds of the Museum. He shall report in writing, at each regular meeting of the Trustees, the balance of money on hand, and the outstanding obligations of the Museum, as far as practicable; and shall make a full report at the annual meeting of the receipts and disbursements of the past year, with such suggestions as to the financial management of the Museum as he may deem proper.

The Board of Trustees shall have power to appoint an Assistant Treasurer, who shall perform such duties as it may direct, and who shall hold office during its pleasure.

SEC. 4. The accounts of the Museum shall be kept at the General Office, in books belonging to it, which shall at all times be open to the inspection of the Trustees.

ARTICLE VI

The Executive Committee shall consist of nine Trustees, the President, the Secretary and the Treasurer *ex-officio* and six others, to be appointed each year in the manner provided in Article IV. They shall have the control and regulation of the collections, library and other property of the Museum; and shall have power generally to conduct the business of the Museum, subject to the approval of the Board. Five members of the Committee shall constitute a quorum for the transaction of business.

ARTICLE VII

The Auditing Committee shall consist of three Trustees. They shall have the books of the Museum duly audited, at least once in six months, by an authorized public accountant to be selected by them.

ARTICLE VIII

The Finance Committee shall consist of five Trustees, the Treasurer *ex-officio* and four others to be elected each year in the manner provided in Article IV. They shall have general charge of the moneys and securities of the Endowment and other permanent funds of the Museum, and such real estate as may become the property of the Corporation, with authority to invest, sell and reinvest the same, subject to the approval of the Board of Trustees.

Three members shall constitute a quorum.

ARTICLE IX

The Nominating Committee shall be composed of three Trustees, to whom shall be first submitted the names of any persons proposed as candidates for election to membership in

the Board of Trustees. The Committee shall report on such candidates from time to time, as it may deem to be for the interest of the Museum. A fortnight before the annual meeting they shall prepare and mail to each member of the Board of Trustees a list of the candidates for officers and Trustees to be balloted for at the said meeting.

ARTICLE X

Nine Trustees shall constitute a quorum for the transaction of business, but five Trustees meeting may adjourn and transact current business, subject to the subsequent approval of a meeting at which a quorum shall be present.

ARTICLE XI

By-Laws may be made from time to time by the Trustees providing for the care and management of the property of the Corporation and for the government of its affairs, and may be amended at any meeting of the Trustees by a vote of a majority of those present, after a month's notice in writing of such proposed amendment.

ARTICLE XII

The incorporators of The American Museum of Natural History shall be designated as Founders of the Museum.

Any person contributing or devising \$50,000 in cash, securities or property to the funds of the Museum may be elected a Benefactor of the Museum.

Any person contributing \$25,000 in cash, securities or property to the funds of the Museum may be elected an Associate Founder of the Museum, who after being so elected shall have the right in perpetuity to appoint the successor in such associate foundership.

Any person contributing \$10,000 to the funds of the Museum may be elected an Associate Benefactor of the Museum, who after being so elected shall have the right in perpetuity to appoint the successor in such associate benefactorship.

Any person contributing \$1,000 to the funds of the Museum, at one time, may be elected a Patron of the Museum, who

after being so elected shall have the right in perpetuity to appoint the successor in such patronship.

Any person contributing \$500 to the funds of the Museum, at one time, may be elected a Fellow of the Museum, who after being so elected shall have the right to appoint one successor in such fellowship.

No appointment of a successor shall be valid unless the same shall be in writing, endorsed on the certificate, or by the last will and testament.

Any person contributing \$100 to the funds of the Museum, at one time, may be elected a Life Member of the Museum.

Any person may be elected to the above degrees who shall have given to the Museum books or specimens which shall have been accepted by the Executive Committee, or by the President, to the value of twice the amount in money requisite to his admission to the same degree.

Benefactors, Associate Founders, Associate Benefactors, Patrons, Fellows and Life Members shall be elected by the Board of Trustees or by the Executive Committee, and the President and Secretary shall issue diplomas accordingly under the seal of the Museum.

In recognition of scientific services rendered, the Trustees may also elect Honorary Fellows of the Museum in their discretion.

ARTICLE XIII

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

ARTICLE XIV

No alterations shall be made in this Constitution, unless at a regular meeting of the Trustees, or at a special meeting called for this purpose; nor by the votes of less than a majority of all the Trustees; nor without notice in writing of the proposed alterations, embodying the amendment proposed to be made, having been given at a previous regular meeting.

BY-LAWS

REVISED AND AMENDED TO FEBRUARY 7, 1916

I

If any Trustee shall accept a salary from this Corporation he shall thereby be disqualified for the time being from acting as a Trustee thereof; provided, that the Board of Trustees shall have power to suspend the operation of this law in any special case.

II

Any vacancies occurring in the membership of the several committees during the interval between the regular meetings of the Board of Trustees may be filled at a regular meeting of the Executive Committee, until the next meeting of the Board.

III

The regular meetings of the Executive Committee shall be held on the third Wednesday of each month, but special meetings may be held at any other time on a two days' call issued by order of the President, or at the request of three of its members.

IV

All bequests or legacies, not especially designated, and all membership fees, excepting Sustaining, Annual and Associate Membership fees, shall hereafter be applied to the *Permanent Endowment Fund*, the interest only of which shall be applied to the use of the Museum as the Board shall direct.

V

SECTION I. No indebtedness (other than for current expenses) shall be incurred by any committee, officer or employee of the Museum, except as provided for in the Constitution.

SEC. 2. No bills shall be paid unless approved by the Director or, in his absence, the Assistant Secretary, and countersigned by one of the following named Trustees: President, Chairman of the Executive Committee, or Treasurer.

SEC. 3. The accounts of the Museum shall be under the care of a Bursar, who, on recommendation of the President and the Treasurer, shall be appointed by the Board of Trustees and be under its direction. He shall give such bonds for the faithful performance of his duties as the Board may direct, and shall hold office during the pleasure of the Board. The Bursar, acting under the direction of the President or Treasurer, shall be the official representative of the Treasurer at the Museum, and as such shall be the head of the Treasurer's office there.

VI

The Board of Trustees shall have power to appoint, on recommendation of the Director, a Superintendent of Building and such other officers as may be deemed necessary, who, acting under the instruction of the Director, shall have charge of the construction, maintenance, alterations and repairs of the buildings, and shall be responsible for their sanitary condition. They shall hold office during the pleasure of the Board.

VII

The Board of Trustees shall have power to appoint a Registrar, who, acting under the instruction of the Director or Assistant Secretary, shall inspect all incoming and outgoing shipments, and shall attend to the details of matters relating to customs.

VIII

Benefactors, giving \$50,000, are each entitled to 1 Subscriber's Ticket, 10 Complimentary Season Tickets and 10 Tickets for a single admission.

Associate Benefactors, giving \$10,000, are each entitled to 1 Subscriber's Ticket, 10 Complimentary Season Tickets and 10 Tickets for a single admission.

Patrons, giving \$1,000, are each entitled to 1 Subscriber's Ticket, 5 Complimentary Season Tickets and 10 Tickets for a single admission.

Fellows, giving \$500, are each entitled to 1 Subscriber's Ticket and 10 Tickets for a single admission.

Life Members, giving \$100, are each entitled to 1 Subscriber's Ticket and 7 Tickets for a single admission.

Sustaining Members, paying \$25 yearly, are each entitled to 1 Subscriber's Ticket and 5 Tickets for a single admission.

Annual Members, paying \$10 yearly, are each entitled to 1 Subscriber's Ticket and 4 Tickets for a single admission.

Associate Members, paying \$3.00 yearly, are each entitled to 1 Subscriber's Ticket, admitting to the Members' Room, and 2 Tickets for a single admission; also to current copies of the Museum Journal and the Annual Report.

IX

The Board of Trustees hereby creates a class of honorary Members, without membership fee, to be designated as Corresponding Members. Upon recommendation of the Scientific Staff, any person interested in or actively engaged in scientific research may be elected by the Board of Trustees a Corresponding Member, such election being for a period of five years and subject to renewal. Corresponding Members shall be entitled to current numbers of *Natural History* and to a copy of such scientific publications of the Museum as they may desire for the prosecution of their researches.

NOTE.—A Subscriber's Ticket admits to the Members' Room, also to all Receptions and Special Exhibitions, and may be used by any member of the Subscriber's family.

The Single Admission Tickets admit the bearers to the Members' Room, and are issued to Subscribers for distribution among friends and visitors.

EIGHTH ANNUAL REPORT
OF THE
PENSION BOARD
OF
THE AMERICAN MUSEUM
OF NATURAL HISTORY

FOR THE YEAR 1920

OFFICERS AND MEMBERS OF THE PENSION BOARD

1920

Chairman

FELIX M. WARBURG

Vice-Chairman

RALPH W. TOWER

Treasurer

HENRY P. DAVISON

Secretary

GEORGE N. PINDAR

TRUSTEE MEMBERS

ADRIAN ISELIN

WALTER B. JAMES

PERCY R. PYNE

FELIX M. WARBURG

EMPLOYEE MEMBERS

HARRY F. BEERS

GEORGE N. PINDAR

RALPH W. TOWER

Bursar

FREDERICK H. SMYTH

Counsel

LEWIS L. DELAFIELD

Consulting Actuary

S. HERBERT WOLFE

Medical Examiner

GEORGE M. MACKENZIE, M. D.

*To the President and Trustees of The American Museum of
Natural History and to the Subscribers to the Fund:*

In accordance with the Rules and Regulations, I have the honor to transmit to you herewith the Eighth Annual Report of the activities of the Pension Board and of its financial operations for the fiscal year ending December 31, 1920.

FELIX M. WARBURG,
Chairman.

February 1, 1921

After eight years of successful operation, it is the consensus of opinion that the basic principles of our pension system were soundly formulated, and that the success of the plan has been due in great measure to the foresight which created a pension committee composed jointly of employer and employee representatives.

In one of his essays, Thomas Carlyle says:

"The man who must work and the man who must find work for that man to do should be bound by ties that are stronger than mere wages."

This conviction lies at the root of our pension system, and its expression was prophetic of the whole present trend of relations between employer and employee.

The Pension Fund operations of these eight years are especially gratifying in view of the restrictions we have been under owing to lack of endowment, and the fact that full credit for their years of service previous to the formation of the Fund is allowed our employees, without the exaction of contributions or the allocation of funds to cover such years. All claims have been paid, however, and an unusually satisfactory investment fund has been accumulated. And, to gauge the value of our system from another standpoint, the Museum Administration assure us that the pension plan serves to attract the best class of workers, to retain skilled employees, to increase the general good will and to promote efficiency and initiative.

There are of course certain features of the present system which it is felt could be improved with benefit to the employee body and the Corporation mutually. This applies particularly to the rules governing pension grants, service requirements and general administration of the funds. It has been suggested, for instance, that the present minimum pension payments should be increased; that workers should have the option of retiring after a continuous service of twenty-five years; that in order to establish the status of part-time employees a rule should be fixed defining what portion of a year of service an employee must give to the Museum in order to be eligible to membership in the Fund; and that more exact provisions should be made for the direction by the Pension Board of matters of Pension Fund administration.

Our pension system is now constituted on an old-age basis exclusively. The idea is gaining strength that long service is also entitled to its reward, and that after twenty-five years of faithful work, the employee should be given the opportunity to retire on pension, (and, if he finds it necessary so to supplement his income, to engage in such other less exacting work as he feels able to undertake), in order that the remaining years of his life may yield a personal profit and satisfaction which are not to be enjoyed during the working life of the average wage-earner, but which are a part of everyone's birth-right and for which any just and successful economic scheme must make provision. So far as the Museum is concerned, experience indicates that on the present basis few of our employees avail themselves of their right to retire unless driven to do so by physical necessity. The probability is that the number of employees who would retire on a service basis would be small.

This is of course due to the fact that Museum personnel is composed largely of workers whose work is their first interest in life and therefore their most vital and enjoyable form of self-expression. It is probably among the clerical and mechanical workers that most retirements on a service basis would be sought. The additional liability against the Fund would be slight, and the granting of the privilege could not act otherwise than to improve the general morale of the workers. Such additional financial obligation as a service pension provision would involve, moreover, might be compensated for by the taking out of group insurance (briefly discussed below), to take the place of Pension Fund death gratuities.

The problem of the status of part-time employees is a difficult one. So far as has been ascertained at this time, the opinion prevails that nine months per year of continuous service should be required of every employee who is to be classed as "permanent," and that in no event should any employee be permitted to become a subscriber whose name and yearly salary rate is not included in the annual budget.

A committee is at the present time engaged in the consideration of these and other proposed revisions of the Rules and Regulations, and in its investigations is giving attention to all

available material bearing on the subject of pension fund regulations and administration.

In this connection the subject of group insurance will be considered, for, if this form of insurance should be found adapted to our needs and be approved by the Trustees of the Corporation, it would go far in helping to solve the problem of reducing age and service requirements for retirement.

Group insurance, as the name suggests, means an insurance issued under a single contract (renewable yearly) covering all the persons of a group working under the same employer. It can be undertaken if at least 75% to 80% of the permanent employees accept the plan. The policy is issued without medical examination. It insures the individual employee in the event of death in the amount of his annual salary, up to \$5,000, and is obtainable at a rate of between $\frac{3}{4}\%$ and 1% of his annual salary. In the hypothetical case where the personnel of the employee body remains the same from year to year, the rate, naturally, increases; but with a "turnover" of at least 15% (such as may be reasonably counted on in our institution), the rate would remain almost constant.

Frequently the policies are effected and paid for by the employer, sometimes by the employee; or the premium rate may be divided jointly. It is also permissible to base the insurance on length of service, the policy calling for a lesser amount during the early years of employment and gradually increasing until the maximum, \$5,000, is reached. But it is thought that the salary basis, described above, is the better.

When the contract is effected, the employer receives the general policy and each employee an individual certificate. New permanent employees taken on during the year are automatically insured from the first day of permanent employment. Those leaving the service have the option for thirty days of continuing their insurance, in the amount of their salary on leaving, without medical examination, under any of the various options offered by the insurance company, i. e., ordinary life, twenty payment life, or endowment. This insurance is carried, of course, under the regular company rates.

There are several decided advantages in group insurance as compared with the death insurance features of our pension

system, namely: under the group insurance plan, the employee is insured immediately from the time his status is defined as permanent, while under our present plan, the insurance feature does not become active until the employee has been a member of the Pension Fund for an entire year; group insurance offers a gratuity from 40% to 75% greater than that provided for under our present plan; the group plan provides insurance at a much lower rate than it is possible for the Pension Fund, with its additional responsibilities and limited resources, to offer; participants in the group insurance plan have the privilege of continuing their policy, without medical examination, after leaving the employ of the Museum.

We are glad to report that at the close of 1920 we have 249 contributors. There have been forty new members admitted into the Fund during the past year, eighteen have resigned and two have been dismissed. We have lost by death four subscribers, of whom further mention is made later in this report. There has been one retirement.

In the recent death of Horace F. Hutchinson, banker and financier, a fine and generous man was lost, and, so far as the Museum was concerned, a valued member and very good friend, who for eight years past has given to Museum employees in need the frequent and free use of his endowed beds in the Presbyterian Hospital.

To Mr. Lewis L. Delafield, Colonel S. Herbert Wolfe, Dr. John A. Fordyce and Dr. George M. Mackenzie, we are under deep obligation, and we take this opportunity to express our sincere gratitude to them.

Deceased Subscribers

We deeply regret to have to report the deaths of the following members during the year 1920:

ADAM BRICKNER

Adam Brickner was born in New York City on June 17, 1875. He came to the Museum in 1897 and was first attached to the Department of Vertebrate Palaeontology, but soon after was transferred to the Department of Geology as an assistant under the late Professor Whitfield. In this capacity he served with great efficiency and faithfulness, despite a distressing physical condition which existed for the last ten years of his life, until his death on December 12, 1920. Because of his knowledge of the specimens in the department, his services were always in demand, and it will be very difficult to fill his place. Of most kindly disposition, and steadfast in his friendships, he was always welcome in groups of his fellow employees.

JOHN T. DAVIS

John T. Davis was born on September 9, 1844, in Flagtown, New Jersey. After being employed for many years as a ship-joiner, he began general carpentry work for contractors who were engaged in Museum building and case construction. In 1901, he entered the service of the Museum and became a member of the Construction Department, in which capacity he

served until 1917, when he was forced to retire because of declining health. He died on August 15, 1920. He was the fortunate possessor of an exceedingly happy disposition and courteous manner, and of the faculty of retaining the friendship of those with whom he came in daily contact.

RICHARD P. SCHUTZ

Richard P. Schutz was born in Honesdale, Pennsylvania, on June 1, 1857. In 1910, he became an attendant in the Museum, in which position he served during his remaining years. His services were always satisfactory to the Administration, and his uniform kindness toward all with whom he associated will long be remembered. His sudden death on August 27, 1920, came as a distinct shock to all the employees of the Museum who had known him.

BENJAMIN L. SMITH

Benjamin L. Smith was born in New York City on December 29, 1877. In 1902, he became a member of the Construction Department, where he served as a painter until March 15, 1919, when, because of ill health, he was obliged to go on leave of absence. His condition became such that it was necessary for him to live in the mountains of Pennsylvania. There he died on October 2, 1920. He was an excellent worker at his trade and of cheerful disposition. His death was a matter of general regret among his associates.

RETIREMENTS

Name	Former Position	Date of Retirement	Yearly Allowance	Period of Pension
H. Ernestine Ripley.....	Secretary..	Jan. 1, 1919..	\$416 00..	16 years
George A. Young.....	Carpenter..	Feb. 1, 1919..	253 03..	15 years
Adam Hermann.....	Preparator..	Jan. 1, 1920..	988 00..	Life

FINANCIAL STATEMENT
OF THE
PENSION FUND
OF THE
AMERICAN MUSEUM OF NATURAL HISTORY
1920

INVESTED FUNDS

	Par Value	Book Value
Endowment Fund	\$1,258 37	\$1,140 39
Investment Fund	147,741 63	136,752 37
	<hr/>	<hr/>
Total	\$149,000 00	\$137,892 76

STATEMENT OF INVESTED FUNDS

Par Value	Securities	Due	Rate of Int.	Interest Payable	Ann. Int.	Date Acquired	Book Value
\$5,000 00	Union Pacific Railroad Company, 1st Lien & Refunding Mortgage Bonds.....	2008	4%	Mar.-Sept.	\$200 00	Feb. 26, 1914	\$4,687 50
5,000 00	Chicago & Northwestern Railway Company, General Mortgage Bonds.....	1987	4%	May-Nov.	200 00	July 7, 1914	4,725 00
5,000 00	Pennsylvania Railroad Company, General Mortgage Bonds.....	1965	4½%	June-Dec.	225 00	June 4, 1915	4,887 50
5,000 00	Baltimore & Ohio Railroad Co., Refunding & General Mortgage Bonds.....	1995	5%	June-Dec.	250 00	Dec. 29, 1915	5,050 00
5,000 00	Chicago, Milwaukee, St. Paul Railway Company, General & Refunding Mortgage Bonds.....	2014	4½%	Apr.-Oct.	225 00	May 5, 1916	4,668 75
5,000 00	Atchison, Topeka & Santa Fe Railway Company, General Mortgage Bonds.....	1995	4%	Apr.-Oct.	200 00	May 29, 1916	4,687 50
5,000 00	Norfolk & Western Railway, First Consol. Mortgage Bonds.....	1996	4%	Apr.-Oct.	200 00	May 29, 1916	4,681 25
5,000 00	New York Central Railroad Co., Refunding & Improvement Bonds.....	2013	4½%	Apr.-Oct.	225 00	May 29, 1916	4,706 25
5,000 00	Southern Pacific Railroad Co., First Refunding Mortgage Bonds.....	1955	4%	Jan.-July	200 00	May 29, 1916	4,533 75
5,000 00	Northern Pacific Railway Co., Refunding & Improvement Mortgage Bonds.....	2047	4½%	Jan.-July	225 00	July 17, 1916	4,825 00
5,000 00	Illinois Central Railroad Co., Refunding Mortgage Bonds.....	1955	4%	May-Nov.	200 00	Oct. 18, 1916	4,518 75
5,000 00	Chicago, Burlington & Quincy R. R. Company, General Mortgage Bonds.....	1958	4%	Mar.-Sept.	200 00	Dec. 30, 1916	4,717 50
5,000 00	Louisville & Nashville R. R. Co., Unified Mortgage Bonds.....	1940	4%	Jan.-July	200 00	Apr. 12, 1917	4,656 25
6,000 00	Baltimore & Ohio R. R. Co. (Pittsburgh, L. Erie & W. Va.), Refunding Mortgage Bonds.....	1941	4%	May-Nov.	240 00	July 16, 1917	4,808 75
5,000 00	Pennsylvania R. R. Co., General Mortgage Bonds.....	1965	4½%	June-Dec.	225 00	Oct. 19, 1917	4,608 75
1,000 00	Atchison, Topeka & Santa Fe Ry. Co., General Mortgage Bonds.....	1995	4%	Apr.-Oct.	40 00	Mar. 12, 1918	821 25
1,000 00	Norfolk & Western Ry. Co., Consolidated Bonds.....	1996	4%	Apr.-Oct.	40 00	Mar. 12, 1918	831 25
2,000 00	Union Pacific R. R. Co., 1st Lien Refunding Mortgage Bonds.....	2008	4%	Mar.-Sept.	80 00	Mar. 12, 1918	1,502 50

Par Value	Securities	Due	Rate of Int.	Interest Payable	Ann. Int.	Date Acquired	Book Value
2,000 00	Southern Pacific R. R. Co., 1st Refunding Mortgage Bonds	1955	4%	Jan.-July	80 00	Mar. 12, 1918	1,582 50
5,000 00	Great Northern Ry. Co., 1st Refunding Mortgage Bonds	1961	4½%	Jan.-July	212 50	May 10, 1918	4,456 25
4,000 00	Atchison, Topeka & Santa Fe Ry. Co., General Mortgage Bonds	1995	4%	Apr.-Oct.	160 00	Aug. 19, 1918	3,250 00
2,000 00	Chicago, Burlington & Quincy Ry. Co., General Mortgage Bonds	1958	4%	Mar.-Sept.	80 00	Aug. 20, 1918	1,602 50
5,000 00	United States of America Third Liberty Loan Bonds	1928	4½%	Mar.-Sept.	212 50	Nov. 30, 1918	4,890 00
3,000 00	Chicago, Burlington & Quincy R. R. Co., General Mortgage Bonds	1958	4%	Mar.-Sept.	120 00	Jan. 27, 1919	2,486 25
3,000 00	Union Pacific Railroad Co., 1st & Refunding Mortgage Bonds	2008	4%	Mar.-Sept.	120 00	Jan. 27, 1919	2,460 00
5,000 00	United States of America Victory Liberty Loan Bonds	1922/3	4¾%	June-Dec.	237 50	May 15, 1919	5,000 00
5,000 00	United States of America Victory Liberty Loan Bonds	1922/3	4¾%	June-Dec.	237 50	June 17, 1919	4,998 00
3,000 00	N. Y. C. Municipal Bonds	1927	4½%	Jan.-July	135 00	Sept. 19, 1919	3,001 88
2,000 00	Pennsylvania R. R. Co., General Mortgage Bonds	1968	5%	June-Dec.	100 00	Oct. 2, 1919	1,827 50
5,000 00	United States of America Victory Liberty Loan Bonds	1922/3	4¾%	June-Dec.	237 50	Dec. 11, 1919	4,954 00
5,000 00	United States of America Victory Liberty Loan Bonds	1922/3	4¾%	June-Dec.	237 50	Mar. 10, 1920	4,875 00
5,000 00	United States of America Victory Liberty Loan Bonds	1922/3	4¾%	June-Dec.	237 50	May 7, 1920	4,803 56
5,000 00	United States of America Third Liberty Loan Bonds	1922/3	4¾%	June-Dec.	237 50	July 9, 1920	4,798 56
5,000 00	United States of America Third Liberty Loan Bonds	1928	4¾%	Mar.-Sept.	212 50	Oct. 11, 1920	4,535 13
5,000 00	United States of America Fourth Liberty Loan Bonds	1933/38	4¾%	Apr.-Oct.	212 50	Nov. 12, 1920	4,364 13
					\$6,445 00		\$137,892 76
\$149,000 00							

PENSION FUND ACCOUNT

RECEIPTS

1920

CASH ON HAND, JANUARY 1, 1920..... \$7,731 48

CONTRIBUTIONS OF SUBSCRIBING EM-
PLOYEES:

Deductions of 3% from Payrolls of

City Maintenance Account..... \$7,018 75

General Account 2,086 92

Morris K. Jesup Fund Account.. 4,484 61

Special Funds Account..... 42 54

Corporate Stock Account..... 174 36

Incidental Account 7 83

—————\$13,815 01

Personal Contributions of Subscribing Em-

ployees 595 95

————— 14,410 96

CONTRIBUTIONS OF BOARD OF TRUSTEES:

To Equal Contributions of Subscribing Employees..... 14,410 96

Return of Contributions (Previously Refunded)..... 43 25

Interest on Repayments of Contributions and Interest.... 39

Interest on Deferred Contributions..... 04

INTEREST ON INVESTMENT FUND..... 5,652 85

INTEREST ON ENDOWMENT FUND..... 50 34

INTEREST ON CREDIT BALANCES..... 217 03

BURSAR'S ACCOUNT 500 00

—————
\$43,017 30
—————

Examined
and Approved

{ ADRIAN ISELIN }
{ PERCY R. PYNE }

Auditing
Committee

PENSION FUND ACCOUNT

DISBURSEMENTS

1920

RETURN OF CONTRIBUTIONS	\$1,724 58	
INTEREST ON CONTRIBUTIONS RETURNED.....	113 07	
		<u>\$1,837 65</u>
SERVICE PENSIONS "A".....	422 22	
SERVICE PENSIONS "E".....	988 00	
PENSION IN EVENT OF ILLNESS, DISMISSAL, ETC...	416 00	
DEATH GRATUITIES PAID UNDER SECTION 13.....	1,854 86	
" " " " " 18.....	868 35	
		<u>4,549 43</u>
PURCHASE OF SECURITIES:		
Investment Fund		23,376 38
EXPENSES		50 00
LOAN ACCOUNT		500 00
CASH ON HAND DECEMBER 31, 1920:		
Deposited with the United States Trust		
Company of New York.....	12,203 84	
Deposited with Colonial Bank (Bursar's		
Account)	500 00	
		<u>12,703 84</u>
		<u>\$43,017 30</u>

E. & O. E.
NEW YORK, *December 31, 1920*

H. P. DAVISON, *Treasurer*

PENSION FUND—SPECIAL FUNDS ACCOUNT

RECEIPTS

1920

LIBERTY LOAN ACCOUNTS:

Interest on Credit Balances..... \$100 79

AMERICAN MUSEUM LIBERTY LOAN No. 1:

Cash on hand, January 1, 1920..... 05

AMERICAN MUSEUM LIBERTY LOAN No. 2:

Cash on hand, January 1, 1920..... 43

AMERICAN MUSEUM LIBERTY LOAN No. 4:

Cash on hand, January 1, 1920.... \$95 00

Subscribers' Payments:

Personal Payments \$84 30

Deducted from Salaries..... 1,660 00

1,744 30

Interest on Unpaid Balances:

Personal Payment..... 40

Deducted from Salaries..... 17 05

17 45

1,856 75

AMERICAN MUSEUM VICTORY LIBERTY LOAN:

Subscribers' Payments:

Personal Payments 605 00

Deducted from Salaries..... 6,328 64

6,933 64

Interest on Unpaid Balances:

Personal Payment..... 6 40

Deducted from Salaries..... 160 86

167 26

7,100 90

\$9,058 92

Examined { ADRIAN ISELIN } Auditing
and Approved { PERCY R. PYNE } Committee

PENSION FUND—SPECIAL FUNDS ACCOUNT

DISBURSEMENTS

1920

LIBERTY LOAN ACCOUNTS:

Advances for 1919 Accounts.....	\$45 21
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AMERICAN MUSEUM LIBERTY LOAN No. 4:

Purchase of Bonds:

Loan Account	\$1,839 30	
Interest on Loans	18 28	
	<hr/>	1,857 58

AMERICAN MUSEUM VICTORY LIBERTY LOAN:

Purchase of Bonds:

Loan Account	6,933 64	
Interest on Loans.....	166 74	
	<hr/>	7,100 38

CASH ON HAND, DECEMBER 31, 1920:

Deposited with the United States Trust Company of New York	55 75
	<hr/>
	<u>\$9,058 92</u>

E. & O. E.

NEW YORK, *December 31, 1920*

H. P. DAVISON, *Treasurer*

Press of B. H. Tyrrel

206 - 208 Fulton Street

New York, N. Y., U.S.A.

Free Public Education

City of New York

The American Museum of Natural History, founded in 1869, to promote the theory and practice of free public education, is in coöperation with the following municipal and other free institutions:

	Founded
Department of Education of the City of New York . .	1842
Including	
College of the City of New York	1847
Hunter College	1870
New York Training School for Teachers . .	1904
Brooklyn Training School for Teachers . . .	1905
High Schools, Public Schools, etc.	
Brooklyn Institute of Arts and Sciences	1843
New York Public Library and Branch Libraries . .	1854
Cooper Union for the Advancement of Science and Art	1857
Metropolitan Museum of Art	1870
New York Zoölogical Park	1895
Public Education Association of the City of New York	1895
New York Aquarium	1896
School Nature League	1917