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FIELD MUSEUM OF NATURAL HISTORY.

PUBLICATION 140.

REPORT SERIES.

VOL. III, No. 4.

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ANNUAL REPORT OF THE  
DIRECTOR

TO THE

BOARD OF TRUSTEES

FOR THE YEAR 1909.



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# ANNUAL REPORT OF THE DIRECTOR.

## 1909.

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To the Trustees of Field Museum of Natural History:

I have the honor to present a report of the operations of the Museum for the year ending December 31, 1909.

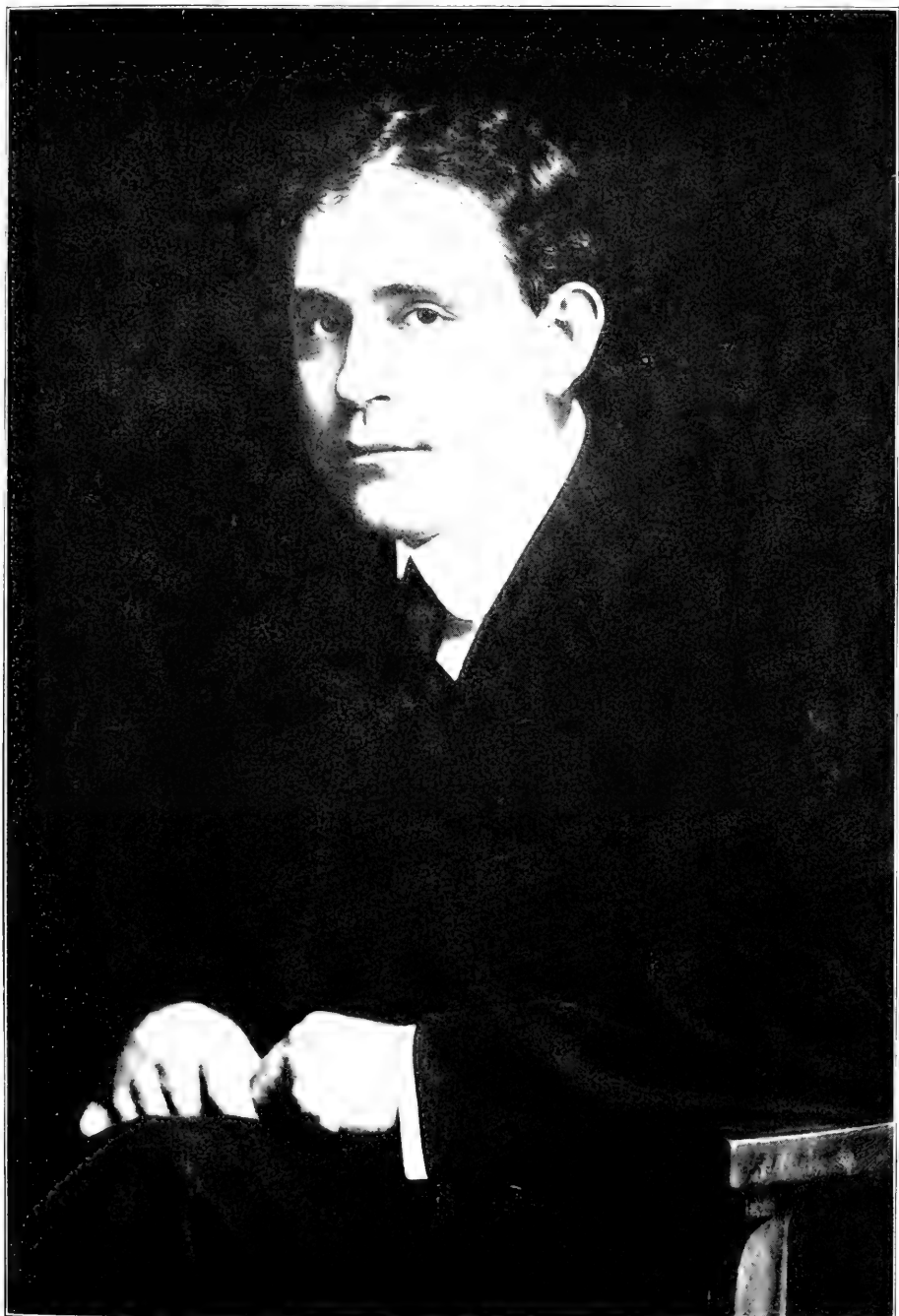
In the extension of its scientific operations into remote lands, and in the accumulation of material of great value from new fields consist the more important activities of the Museum for 1909. The expedition into Tibet, in the South Pacific Islands, and in the Philippines, and the acquisition of material by purchase from Egypt and German New Guinea, the Rothrock herbaria and library, and the collections made by subordinate Museum expeditions in Guatemala, British New Guinea, Bermuda, Fiji Islands, etc., have unitedly brought to the stores of the institution the most valuable material from every point of view that any year has recorded. This has been done without interference with the work of rearranging and labeling and recasing old material and the installation of new material in accordance with the plans for the occupation of the new building, inaugurated four years ago. In the introduction of new material to the exhibition series in all departments, and the consequent extension of geographical areas, scientific discrimination has resulted in considerable elimination of material in all departments, both because of space requirements and because of the transfer of apparent duplicates to the study collections, whereby the latter were rendered more complete in themselves without detracting from the interest of the exhibited collections, at least from a popular standpoint. In all the scientific departments increased storage facilities for duplicates and for exchange material have been provided and the spaces and systems for the accommodation of study material have been enlarged and improved. It will be observed too, that in response to the demands for reference books, necessary for the identification and description of material, the departmental libraries have had gratifying additions. The capacity of the printing shop has been doubled to meet the requisitions for labels, the output of which this year has greatly increased. The generous appropriations for exhibition cases for all departments have hardly equaled the requirements, but the pro-

vision made has resulted in a noticeable improvement in the physical appearance of the exhibition halls throughout the building, more especially in the Departments of Botany and Geology, which now present as near an appearance of completeness as it is desirable or possible for an active Museum to attain.

In the publications of the Museum for the year, Curator Cory's "Birds of Illinois and Wisconsin" has attracted much favorable and extensive attention, while the descriptive catalogue, by Prof. Tarbell, of the collection of reproductions of the bronzes in the Naples Museum, selected by Mr. Edward E. Ayer, constitutes by general consent a valuable contribution to the literature of classical archaeology.

The murder of Dr. William Jones of the Department of Anthropology, while on an expedition for the Museum among the Hlongots of the Philippine Islands, was a shock to his associates in the Museum, no greater, however, than it was to his compeers and to student ethnologists throughout the world. Dr. Jones was a young man of the very best attainments in his chosen field, whose death came while performing service fully as patriotic and high in purpose as that actuating any man whose career has had a tragic close. The Museum has just learned of the intended return of Assistant Curator S. C. Simms, who visited the scene of Dr. Jones' last work and has secured the material and notes gathered by him and caused a suitable monument, funds for which were privately provided, to be erected at the spot where the body of Dr. Jones was buried. The Trustees have caused a bronze memorial tablet designed by Theodore Lescher to be cast for insertion in the wall surrounding the Philippine collection in the Museum.

The engagement of Curator Dorsey to prepare a series of articles on the ethnology and sociology of the Old World for publication in the Chicago Tribune, while depriving the Museum for a time of the important service of a much valued member of the scientific staff, is nevertheless so closely allied with the purposes and possibilities of the Department of Anthropology, that the arrangement might be said to enlarge its scope. The letters thus far published have attracted wide attention and there can be no doubt of the importance of this contribution to the knowledge of those concerned in the sociologic conditions of the world and those specially interested in the rapidly changing intellectual and moral averages of the United States by reason of the introduction into its body politic of the peoples undergoing the capable scrutiny of Dr. Dorsey. Among other changes in the staff is the acceptance by Mr. Wilfred H. Osgood of an appoint-



The Late Doctor William Jones.

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ment to the Assistant Curatorship of Mammalogy and Ornithology. Mr. Osgood brings to the Department of Zoölogy an established reputation of high order. He is a scholar, an author, and an educator. His better known labors have been with the mammals of the Northwest Coast, and he is an acknowledged authority among the younger group of mammalogists. He is at present in London working up the Museum African material, in which it is believed a number of new types will be found. Prof. B. E. Dahlgren, the well known modeler in wax and glass, especially assigned to the Department of Botany, is an acquisition of importance. A number of striking pieces resulting from the art, skill, and scientific knowledge of Prof. Dahlgren have already been placed on exhibition in the Botanical gallery. One or more minor resignations have been offered in the scientific departments, capable men accepting advancement to higher positions in other institutions.

The creation by the Board of Trustees of an Administration Committee to which was assigned some of the duties theretofore imposed upon the Executive Committee, and the monthly meetings of this new Committee at the Museum, has been of distinct advantage in the more prompt consideration of important questions by the corporation authorities.

The President (Señor Don Manuel Estrada Cabrera) of the Republic of Guatemala requested the United States Bureau of Fisheries to recommend some person to make a survey of Lakes Amatitlan and Atitlan, for the purpose of determining whether and how the quantity and quality of the food and game fishes of those lakes could be increased. Assistant Curator Meek was recommended, because of his knowledge of and interest in Tropical fresh-water fishes. The survey was made by Dr. Meek while on a Museum expedition to Central America. The scientific result of this survey was recorded in a publication of the Museum, Vol. VII, pages 159 to 206. Three other Museum publications with a total of 75 pages resulted from this expedition.

By consent of President Higinbotham of the World's Columbian Exposition, the collection of sketch models loaned to the Museum by the World's Fair of 1893, which have been on exhibition in the Rotunda since 1894, were presented to the West Chicago Park Commissioners for exhibition in the public parks of the city, excepting a few pieces selected by and presented to the Art Institute. A number of these models have been installed in Garfield Park, and add a distinct note of artistic culture to the grounds.

**MAINTENANCE.** The Annual Budget authorized by the Board of Trustees provided the sum of \$174,200 for the maintenance of the Museum for the fiscal year. The actual amount expended was \$141,112, leaving a balance within the anticipated expense for the year of \$28,728. In addition to the cost of maintenance, sums were expended for collections and new installation, expeditions, etc., that brought the total to \$168,472. As will be observed from the details of the financial statement, the total sum of \$21,103, in individual contributions, has also been disbursed for special collections and expeditions.

**LECTURE COURSE.** The Spring and Autumn Lecture Courses, comprising course number thirty in March and April and course number thirty-one in October and November, seventeen lectures in all, had the same gratifying attendance that has now become the custom. There have been few lectures when the demands for admission have not exceeded the capacity of the hall, and in no case has the attendance been unsatisfactory.

Following is the Thirtieth Free Lecture Course, with the subjects and lecturers, delivered during the months of March and April, 1900:

- March 6. "The R. F. Cummings' Philippine Expedition: Travels Among the Bataks, Apayaos, and Tinguians."  
Mr. F. C. Cole, Ethnologist.
- March 13. "The Nation's Resources and the Nation's Future."  
Prof. Joseph A. Holmes, Geological Survey, Washington, D. C.
- March 20. "An Ancient Delta and its Fossil Treasures."  
Prof. E. C. Case, University of Michigan.
- March 27. "The Yosemite National Park."  
Mr. William E. Curtis, Washington, D. C.
- April 3. "Cross Roads in Evolution."  
Dr. S. Dearborn, Assistant Curator of Ornithology.
- April 10. "Evolution of Swimming Animals."  
Mr. E. N. Gueret, Assistant Curator of Osteology.
- April 17. "The German South Seas - I. Solomon Islands and New Ireland."  
Prof. George A. Dorsey, Curator of Anthropology.
- April 24. "The German South Seas - II. New Guinea."  
Prof. George A. Dorsey, Curator of Anthropology.

Following is the Thirty-first Free Lecture Course, with the subjects and lecturers, delivered during the months of October and November, 1900:

- Oct. 2. — "The Bermuda Islands."  
Prof. Oliver C. Farrington, Curator of Geology.
- Oct. 9. — "Canadian Lakes."  
Rev. Frederic Campbell, Brooklyn, New York.
- Oct. 16. — "Savage Mutilation and Ornament."  
Dr. Walter Hough, United States National Museum,  
Washington, D. C.
- Oct. 23. — "Patterns and Colors of Marbles."  
Prof. Henry W. Nichols, Assistant Curator of Geology.
- Oct. 30. — "The Plant Life of the Sea."  
Dr. Marshall A. Howe, Curator New York Botanical  
Garden.
- Nov. 6. — "The Indians of the Painted Desert."  
Mr. Frederick I. Monsen, New York City.
- Nov. 13. — "Our Present Knowledge of Human Lineage."  
Dr. William Albert Locy, Department of Zoölogy,  
Northwestern University.
- Nov. 20. — "Zoölogical Collecting in Alaska."  
Prof. Wilfred H. Osgood, Assistant Curator of Mam-  
malogy and Ornithology.
- Nov. 27. — "Southern Florida and its Fishes."  
Dr. Seth E. Meek, Assistant Curator of Zoölogy.

**PUBLICATIONS.**—The following list is presented of the publications issued since the date of the last report, with the number of pages and illustrations:

- Pub. 129. — Geological Series, Vol. III, No. 7. Notes on Various Minerals in the Museum Collection. By O. C. Farrington and E. W. Tillotson, Jr. 32 pp., 17 illustrations (1 colored plate), edition 1,500.
- Pub. 130. — Anthropological Series, Vol. VII, No. 3. Catalogue of Bronzes, etc., in Field Museum of Natural History. By F. B. Tarbell. 144 pp., 300 half-tones, edition 2,500.
- Pub. 131. — Zoölogical Series, Vol. IX. The Birds of Illinois and Wisconsin, by C. B. Cory, 764 pp., illustrated, edition 2,500.
- Pub. 132. — Zoölogical Series, Vol. VII, No. 7. New Species of Fishes from Tropical America. By S. E. Meek. 5 pp., edition 1,500.

- Publ. 133 Botanical Series, Vol. III, No. 3. Annual Report of the Director to the Board of Trustees, for the year 1908. 48 pp., 1 illustration (half-tone), edition 2,500.
- Publ. 134 Geological Series, Vol. IV, No. 1. New Echinoids from the Ripley Group of Mississippi. By A. W. Slocum. 16 pp., 3 half-tones, edition 1,500.
- Publ. 135 Ornithological Series, Vol. I, No. 4. Catalogue of a Collection of Birds from British East Africa. By Noel Dearborn. 40 pp., 1 map, edition 1,500.
- Publ. 136 Botanical Series, Vol. II, No. 7. Praeunciæ Bahamenses. II. Contribution to a Flora of the Bahamian Archipelago. By C. F. Millspaugh. 32 pp., edition 1,500.
- Publ. 137 Ornithological Series, Vol. I, No. 5. The Birds of the Leeward Islands, Carribean Sea. By C. B. Cory. 63 pp., 1 map, edition 1,500.
- Publ. 138 Zoological Series, Vol. X, No. 1. A Peculiar Bear from Alaska. By W. H. Osgood. 3 pp., 1 half-tone, edition 1,500.

The Museum exchange list now numbers 1,241 names, of which 940 are in foreign countries and 502 in the United States and its possessions.

The following table shows the number of exchanges with each of the foreign countries:

Argentine Republic	12	Great Britain	175
Australia	23	Greece	2
Austria	18	Italy	12
Belgium	18	India	16
Borneo	1	Japan	7
Brazil	8	Java	4
British Guiana	2	Liberia	1
Canada	28	Malta	1
Central America	6	Mexico	17
Ceylon	2	Netherlands	18
Chile	2	New Brunswick	1
China	1	New Zealand	6
Cuba	1	Norway	8
Denmark	7	Peru	2
East Africa	1	Portugal	6
Egypt	1	Roumania	1
France	57	Russia	19
Fiji Islands	1	Spain	5
Germany	133	Sweden	14



Switzerland . . . . .	16	Uruguay . . . . .	1
South Africa . . . . .	12	West Indies . . . . .	4
Tasmania . . . . .	3	Yucatan . . . . .	1
Trinidad . . . . .	1		—
U. S. Colombia . . . . .	1		649

The following table shows the number of foreign exchanges receiving the different publications:

Anthropological . . . . .	241
Botanical . . . . .	337
Geological . . . . .	314
Ornithological . . . . .	212
Zoölogical . . . . .	287
Report . . . . .	649

The publications are distributed to the different States and

Insular Possessions as follows:

Alabama . . . . .	2	New Jersey . . . . .	16
Arkansas . . . . .	1	New York . . . . .	83
California . . . . .	26	North Carolina . . . . .	6
Colorado . . . . .	12	New Mexico . . . . .	2
Connecticut . . . . .	23	Ohio . . . . .	17
Delaware . . . . .	2	Oklahoma . . . . .	1
District of Columbia . . . . .	70	Oregon . . . . .	1
Florida . . . . .	2	Pennsylvania . . . . .	41
Illinois . . . . .	57	Rhode Island . . . . .	5
Indiana . . . . .	12	South Dakota . . . . .	2
Iowa . . . . .	13	Tennessee . . . . .	2
Kansas . . . . .	7	Texas . . . . .	3
Kentucky . . . . .	2	Utah . . . . .	2
Louisiana . . . . .	3	Vermont . . . . .	4
Maine . . . . .	7	Virginia . . . . .	3
Maryland . . . . .	9	Washington . . . . .	4
Massachusetts . . . . .	66	West Virginia . . . . .	4
Michigan . . . . .	13	Wisconsin . . . . .	16
Minnesota . . . . .	9	Wyoming . . . . .	2
Mississippi . . . . .	3	Philippine Islands . . . . .	2
Missouri . . . . .	14	Porto Rico . . . . .	1
Montana . . . . .	2	Hawaii . . . . .	6
Nebraska . . . . .	7		
Nevada . . . . .	2		
New Hampshire . . . . .	4		
			591

The following table shows the number of domestic exchanges receiving the different publications:

Anthropological . . . . .	247
Botanical . . . . .	324
Geological . . . . .	326
Ornithological . . . . .	166
Zoölogical . . . . .	276
Report . . . . .	591

**THE LIBRARY.** The Library now contains 50,639 volumes distributed as follows:

General Library	15,038
Departmental Library	2,136
Herbarial Library	4,884
Geological Library	5,984
Zoological Library	1,894
Library of Education Literature	703
	<hr/>
	50,639

The additions for the year consist of 3,152 books and pamphlets. Including books received with collections, gratifying additions have been made, though the continued source of growth is through exchanges, the publications received in this way being quite an element in the library's accessions. During the year approximately 500 letters have been written soliciting exchanges from contemporary societies not on the exchange list. A number of favorable replies have already been received and exchanges effected. The largest single acquisition received was that which accompanied the Rothrock herbarium, consisting of 342 books and 380 pamphlets. Many of the books filled gaps in the Museum collection, and where they duplicated, the corresponding copy was placed in the Departmental library. The Rothrock library is valuable in that it is representative of the botanical literature of many years and contains volumes of rare works. It is also interesting and significant to note that the price has advanced over the original cost of many of the books in the collection from fifty to seventy-five per cent. Other noteworthy acquisitions were received from the following: Madame Leo Errera, Brussels; Mrs. Henry Dibblee, Mr. Edward E. Ayer; Academie des Sciences de L'Empereur Francois Joseph I, Prague; Botanic Gardens, Copenhagen, Deutsch Natur. Medizin. Verein fur Bohm; K. Universitets Bibliotek, Lund; Royal Botanic Gardens of Calcutta; Royal Gardens, Kew, and Superintendent of Documents, Washington. Twenty-five volumes of Linnæana were loaned by the University of Chicago to the Museum for use in the Department of Botany. Collaboration has been rendered in the second edition of the *Union List of Serials* for the libraries of Chicago, and 1,017 titles have been supplied. The list in preparation is to be published by the John Crerar Library. The first edition of this publication has proven of value both to the staff and students generally. An earnest effort is being made to dispose of the unaccessioned duplicate material now in the Library. A list of this material was submitted to each Curator from which

to select such material as might be desirable to retain. The remainder was then classified and twenty-five typewritten lists were sent to as many societies and libraries, with request for exchange. It was evident from replies received that the majority of these institutions did not have their duplicate material available for exchange. However, small exchanges were effected, and as several of the lists are still out, it is possible that some further exchanges may be made. By request of the United States Department of Agriculture 375 duplicate bulletins and circulars received from that department were returned for redistribution. Fourteen thousand two hundred and twenty cards have been written and inserted in the card catalogues. Monthly installments of the John Crerar Library catalogue have been received. To accommodate the ever increasing card catalogues in the library it became necessary to again add to the card cabinet. In view of the future use of these cabinets it seemed wise that, instead of adding to the wooden cabinets now in use, purchase be made of steel cabinets. A satisfactory type has been adopted.

DEPARTMENTAL CATALOGUING, INVENTORYING, AND LABELING.—The most important collections catalogued in the Department of Anthropology have been the R. F. Cummings' Philippine Collection, secured by Mr. F. C. Cole among the Tinguian and near-by tribes of Northwestern Luzon, and also among the pigmy Bataks and the Tagbanua of Palawan; the collections secured by the Curator in 1908 in India, Ceylon, Sumatra, Java, New Ireland, Admiralty and Solomon Islands; also the superb Parkinson collection from German New Guinea, the gift of Mr. Joseph N. Field of Manchester, England. Additions have been made to the classified Tribal Lists, and the Card Catalogue for the same has been maintained. 5,400 catalogue cards were written and entered in the Inventory Books, which now number 33. The work of labeling has also continued with gratifying results. 3,725 new black labels were placed in the department, distributed as follows: 525 in the Igorot collection; 930 in the Tinguian, Apayao' and Kalinga collections; 835 among the Bella Coola, Tsimshian, and Haida exhibits. The work of labeling the North Court, with its alcoves, has practically been completed. For this purpose 1,350 standard black labels, in aluminum ink, were used. About 85 other large case and hall labels of varying size were placed here and there throughout the department.

The Curator of the Department of Botany reports that the labeling of specimens in cases being installed, and those previously

hanging labels has been more satisfactory than in previous years; 41,000 have been fully labeled with the prospect of a completely labeled installation by Spring. During the addition of the labels to previously installed collections a number of these were rearranged, and the cases entirely reinstalled, to meet the demands of better methods. The mounting and cataloguing of the smaller accessions of the year is complete, while heavy inroads upon the material in the larger herbaria have been made. 31,079 specimens have been catalogued in the 54 record books of the department, of which 13,959 were from the University of Chicago herbarium and 6,000 from the Rothrock collection. The Geographic index and that of the Collectors are both complete to date. The card indices of the department library and of economic plant names have multiplied, 1,250 cards having been written and organized into the 15,850 now in the cases.

All specimens in the Department of Geology received during the year have been inventoried and catalogued, as received, the number of entries for the year being 4,102 and the total number on the Department books 103,081. Sixty cards have been added to the catalogue of vertebrate fossils and a complete card catalogue of the Department library has been made. This numbers to date 1,816 cards. A considerable number of temporary written labels have been prepared and placed in the collections to serve until printed ones can be provided. About 400 such labels were prepared for the collections in Halls 65 and 66, and about 300 for the collections in Hall 72. Some of the latter are more or less descriptive. Sixty-two printed labels have been prepared and distributed in the gem collection in Higinbotham Hall, completing the labelling of this collection, and 271 paleontological labels, some of them descriptive, have been made and distributed in the paleontological collections. In addition, copy for about 800 labels chiefly relating to the economic collections has been prepared and placed in the hands of the printer.

The cataloguing and labeling of specimens in the Department of Zoology has continued and at a rate exceeding that of the increase of the collections and encourages the belief that this work, which has fallen behind on account of sudden large accessions in the past, will be completed in due time. During the year, about 8,000 regular catalogue entries were made, including 6,700 in Ornithology, 1,300 in Mammalogy, and 100 in Oology. Many of the specimens thus catalogued have required new labels and these have been supplied, while a large percentage of the entries have been recorded in the systematic card catalogues. Labels for exhibition specimens have

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been prepared and installed from time to time as required. The entire collection of both mammals and birds has been critically examined with regard to possible damage by insects and found to be in excellent condition. Material in pickle has been carefully examined and supplied with fresh preservative. This material, which consists mostly of skins of large mammals secured by Museum expeditions, is being removed from pickle and dressed as fast as possible. Since July 1, about 150 of these large skins have been treated by the tanners.

The year's work on catalogues and inventorying is shown in detail below.

	No. of Record Books.	Total No. of Entries to Dec. 31, 1909.	Entries during 1909.	Total No. of Cards Written.
Department of Anthropology	33	99,543	5,403	103,933
Department of Botany . . .	54	276,421	31,679	.....
Department of Geology . . .	20	103,081	4,102	6,740
Department of Zoölogy . . .	40	82,206	9,077	28,718
The Library . . . . .	12	72,037	8,116	90,300
Section of Photography . . .	6	80,762	11,344	.....

ACCESSIONS.— Among the most important accessions of the year in the Department of Anthropology should be mentioned the two collections from German New Guinea, one from Huon Gulf, numbering 500 specimens; another, a general collection of more than a thousand pieces, from the central coast region. The latter includes carved posts, large carved canoes, and two rare dance masks from Hansa Bay, the larger one more than 16 feet in height. These valuable acquisitions were the gift of Mr. Joseph N. Field of Manchester, England. The material obtained by Mr. Ayer last year but not prepared for exhibition until last Spring consisted of 18 strings of beads, composed of carnelian, glass, and glazed earthenware; 18 mortuary stone vases and jars of great beauty and value, among which is a beautiful alabaster vase for ointment; 49 weights of a wide range of sizes, made of stone and copper; a mirror and bottle, each of bronze; 16 stone statuettes, some in a more or less fragmentary condition, among which is a beautiful figure of Osiris and also a fine red stone statue of the twelfth dynasty (inscribed "His father Teta, His mother Nefertari"); 4 mortuary cloths (in frames upon the east wall of Hall 9); 1 coffin lid of wood; 8 coffin lids of stone, all somewhat fragmentary, with one exception; a large, inscribed brick; 4 burnt clay mortuary offerings; 2 wooden mortuary boxes; 2 small mortuary figures of wood, one containing a rectangular cavity for receiving a papyrus; a mummied hawk; 2 mummied antelopes;

the head of a mummy, a mummy and a rectangular coffin. In addition to several models of arming and stone tablets there are colored casts of statues in Hatshepsut Temple, representing the procession of the Sacred Boat. Of very special interest is a small wax figure, of the Ptolemaic Period, in the form of Osiris, Lord of Bekha (the Eastern Mountain), found at Tehneh, Province of Mirich, Upper Egypt. With it is the mummy of a falcon. With the figure are images of a gem, along with cakes of an undetermined substance. A portion of this accession consisted of a small group of cinerary vessels from Etruria and ancient Roman bronze vessels, now installed in the North Court. The two large Mastaba tombs, excavated under the direction of Mr. Edward E. Ayer at the Necropolis of Sakara, one of them being the gift of Mr. Martin A. Ryerson, referred to in the 1928 report as anticipated accessions, were received at the Museum the past year and given storage in a special brick tomb constructed at the east-museum entrance to the Museum, as it was not considered advisable to erect the tombs in the present building. The tombs filled 206 large cases, some of them ten feet in length, the total shipment weighing 66 tons, the installation of one of the stela in Egyptian Hall is referred to in another part of this report. Among gifts from Mr. Edward E. Ayer were two rare, carved wooden images from New Ireland. Mr. R. F. Cummings gave a small Mangyan collection, made by Dr. Fletcher Gardner, Bloomington, Indiana, while serving as a surgeon in Mindoro. This accession is valuable, owing to the extreme scarcity of cave material in the Philippines, about 55 specimens of the lot coming from the burial cave of Pokam, midway between the towns of Bulalacao and Mansalay in Southern Mindoro. Other interesting gifts were 8 paintings of Hopi Indians by E. W. Burbank, presented by Mr. Stanley McCormick, and a unique woven garment, ornamented with tufts of human hair, found in an old mission of Lower California by Mr. W. H. Dupee of Chicago and by him given to the Museum. Of the important and interesting accessions by purchase, were an Egyptian sarcophagus of granite, a collection of Kabyle (Algiers) jewelry, and several Assanian and Babylonian seals collected by Mr. Ayer. Mention should be made of a small accession from Angola, West Central Africa, which forms a valuable addition to the Woodside-Ozimbundu collection.

The most conspicuous addition to the herbarium during the year is that of the personal herbarium and library of Dr. J. T. Rothrock, who, as a member of several of the early surveys of the West, not only amassed large and valuable collections himself, but through his asso-



ciation with Dr. Asa Gray, Dr. George Thurber, Dr. John Torrey and other early botanists, was able to secure many rare plants and sets of plants. His herbarium consists of nearly 25,000 sheets, largely from the west, north and southwest, Mexico and Florida. It contains long series of the plants of Bean, Berlandier, Bigelow, Bischoff, Bolander, Brendel, Burk, Canby, Chapman, Clinton, Curtiss, Garber, Ghiesbright, Hall and Harbour, Sutton Hayes, Kellogg, Kenney, Lemon, Leow, Mann, John Stuart Mill, Palmer, Parry and Palmer, Pope, Porter, Pringle, Regel, Reverchon, Thurber, Vasey, Ward, Wolf, and Wright. This herbarium comprises collections made principally from 1840 to 1880, thus directly supplementing that of Patterson, secured by the Museum some years ago, which dates from 1880 to 1900. The Rothrock herbarium is mostly mounted and 6,000 sheets have already been put through and placed in the organized herbarium of the Museum. The other notable herbaria now incorporated with that of the Museum are those of Dr. Arthur Schott, M. S. Bebb, H. N. Patterson, C. F. Millspaugh, A. A. Heller, John K. Small, L. J. Wahlstedt, A. S. Hitchcock, and the University of Chicago. Other series secured to the herbarium this year are: Clemens, Philippine, 1,150; Bloomer, Arizona, 900; von Tuerckheim, Guatemala, 406; Conzatti, Mexico, 185; Purpus, Mexico, 523; C. R. Barnes and Land, Mexico, 303; Stewardson Brown, Bermuda, 150; S. S. Visher, Dakota, 198; Botanic Gardens, Natal, 105; Fiebrig, Paraguay, 155; Tracy, Gulf States, 507; Britton and Harris, Jamaica, 770; J. T. Rothrock, Bahamas, 162; L. J. K. Brace, Bahamas, 231; Percy Wilson, Bahamas, 489; R. A. Dixon, Illinois, 400; Wright, Illinois, 139; J. H. Maiden, New South Wales, 100; W. E. Broadway, Trinidad and Tobago, 450; J. Macoun, Canada, 335, and H. H. Smith, Georgia, 479. Arranged geographically the specimens added to the organized herbarium during the year are as follows:

	University of Chicago Loan.	Museum Addition to Herbarium.	Total now in Herb'm*
Alaska . . . . .	...	195	537
Canada (in general) . . . . .	38	3	1,950
Alberta . . . . .	...	47	331
British Columbia . . . . .	...	103	793
Newfoundland . . . . .	244	...	464
Quebec . . . . .	9	...	45
United States			
Alabama . . . . .	20	39	793
Arizona . . . . .	1,227	1,867	6,634

\* Totals are from these few geographic localities only. This does not tabulate the whole herbarium.

United States:	University of Chicago Loan	Museum Acquisitions Herbarium	Total now in Herbim.
Arkansas	1		188
California	1,804	1,367	16,769
Colorado	206	1,094	6,734
Delaware	4		24
North Dakota		4	47
South Dakota		108	282
District of Columbia	1		1,813
Florida	111	171	13,087
Georgia	11	340	2,192
Illinois	232	260	16,087
Indiana	100	14	3,440
Iowa	1		1,282
Kentucky	215		644
Louisiana		2	943
Maine	228	1	1,093
Massachusetts	2	1	2,032
Mexican Boundary		11	1,390
Michigan		12	2,111
Minnesota	1		589
Mississippi	1	45	1,860
Missouri	14	18	631
Montana	21	3	2,079
Nevada	1	10	491
New Hampshire	4		977
New Jersey	71	1	1,402
New Mexico	111	12	2,266
New York	144	11	4,772
North Carolina	212	10	1,133
Oklahoma		123	286
Oregon	703	9	4,913
Pacific Coast	114		470
Pennsylvania	2	1	6,491
Rocky Mountains	1		728
South Carolina	1		547
Southwestern States	74		74
Tennessee	11	8	681
Texas	1,417	693	6,056
Utah	417	162	1,322
Vermont	181	21	1,302
Virginia	111	2	1,078
Washington	881		4,201
West Virginia		16	1,254
Wisconsin		4	743
Wyoming		126	863
Yellowstone Park	1		267
Bahamas			
Andros Island		1	1,261

	University of Chicago Loan.	Museum Addition to Herbarium.	Total now in Herb'm.
<b>Bahamas</b>			
Cat Island . . . . .	...	18	446
Crooked Island . . . . .	...	20	331
Eleuthera . . . . .	...	71	664
Fortune Island . . . . .	...	21	344
Inagua . . . . .	...	21	441
Long Island . . . . .	...	1	141
Mariguana . . . . .	...	1	169
New Providence . . . . .	...	440	2,386
Hog Island . . . . .	...	121	190
Riding Rocks . . . . .	...	13	13
Salt Cay Bank			
Elbow Cay . . . . .	...	7	7
Water Cay . . . . .	...	26	26
Anguilla . . . . .	...	134	134
Cat Sal . . . . .	...	43	43
Watling's . . . . .	...	9	458
Bermuda . . . . .	...	151	627
<b>West Indies</b>			
Cuba . . . . .	...	167	5,093
Dominica . . . . .	...	2	78
Grenada . . . . .	...	24	801
Jamaica . . . . .	...	780	6,056
Porto Rico . . . . .	...	1	3,969
St. Kitts . . . . .	...	1	10
St. Thomas . . . . .	...	11	438
Tobago . . . . .	...	16	56
Trinidad . . . . .	...	310	394
Mexico . . . . .	3,138	2,268	25,402
Coronados Island . . . . .	...	2	10
Lower California . . . . .	227	20	1,632
<b>Central America</b>			
Costa Rica . . . . .	116	...	487
Guatemala . . . . .	584	423	2,141
Honduras . . . . .	75	...	484
Panama . . . . .	...	7	51
<b>South America</b>			
Argentina . . . . .	1	...	824
Paraguay . . . . .	...	155	1,392
Venezuela . . . . .	...	17	959
<b>Europe</b>			
Denmark . . . . .	...	1	1
Germany . . . . .	...	1	4,051
Italy . . . . .	3	...	917
Sardinia . . . . .	1	...	2
<b>Asia</b>			
India . . . . .	2	...	727
Palestine . . . . .	...	23	1,134

	Received Chicago Loan	Museum Acquisition Herbarium	Total Now in Herb.
Vegetation			
Pines		1,180	1,225
Others		60	168
Mosses			1,813
Mosses		7	9
Others		105	254
Algae		206	1,140
Total	13,607	14,819	

Total increase of the organized herbarium during the year, 28,476 specimens.

In Geology the gift of the Tonopah meteorite, weighing nearly two tons, is a notable accession. This was presented through the generosity of Messrs. Stanley Field, R. T. Crane, Jr., Cyrus H. McCormick, and George F. Porter, of the Board of Trustees. The mass was obtained entire and is the largest meteorite specimen in the Museum collection as well as one of the largest known. The meteorite exhibits atmospheric shaping and pitting in a remarkable degree. A very interesting specimen of copper boulder weighing 22 pounds found near Lake Geneva, Wisconsin, and a specimen of asbestos from Canada, were presented by Mr. Edward E. Ayer of the Board of Trustees. Mr. William J. Chalmers of the Board of Trustees kindly added to the Chalmers crystal collection a superb crystal of golden beryl showing negative crystals. From Thomas S. Chalmers were received three specimens of gold ore from Cripple Creek, Colorado, showing some of the richest ore found in the early days of the Independence Mine. A large collection, comprising over 300 specimens, of native copper, silver, calcite, hematite, datolite, and other minerals and fossils, chiefly from the Lake Superior region, was received from Mrs. Joseph Austrian of Chicago. The collection was made by her husband, the late Mr. Austrian, during the early days of copper mining in the Lake Superior region and hence contains many specimens no longer procurable. From F. Pereira Gamba were received 11 specimens of gold ores and associated rocks of Colombia; from Nippon Toki Gomer Kwaisha 12 specimens of clays and other minerals used in the manufacture of Japanese porcelains; from L. V. Kenkel a large photograph, 5 feet in length, of the Miles glacier, and other photographs of Alaska; from President John Goff 45 specimens of fossil columnals from Mississippi; and from W. W. Newberry 24 specimens of olite and fossils from Oklahoma. By exchange, specimens of the Dokachi and Futtehpur meteorites were obtained from

the Geological Survey of India, and from Grebel, Wendler & Co., a specimen of the Buschhof meteorite and ten specimens of minerals. Important material obtained by purchase included an unusually complete mastodon skull from Yorkville, Illinois, and a nearly complete skeleton of the rare fossil beaver-like animal *Castoroides ohioensis* from Indiana. A large slab  $31\frac{1}{2}$  square feet in area showing over 200 calices of the fossil crinoid *Uintacrinus* from Kansas and a series of well-preserved crinoids from the Kinderhook group of Le Grand, Iowa, were also obtained by purchase. Accessions by collection include several hundred specimen fossils of Bermuda; about 200 specimens of ores and minerals of the Pacific Northwest and Alaska, obtained from exhibitors at the Seattle Exposition; 76 specimens of fossils, ores and minerals from Oklahoma and nearly 3,000 specimens of invertebrate fossils from Wilmington, Illinois, and adjoining localities.

The acquisitions during the year in the Department of Zoölogy were extensive and important, comprising 122 mammals, 1,170 bird skins, 300 eggs, 4,989 specimens of fishes, and 201 reptiles. An interesting and important collection of mammals and birds was obtained through the kind offices of Mr. Rodway of the Georgetown Museum, British Guiana. Mr. Rodway's interest in the Museum is gratifying and highly appreciated. Approximately 1,300 of the fishes were collected on the Florida Keys by Assistant Curator Meek; 30 specimens were collected in Venezuela by Mr. J. F. Ferry, and the remainder from near Chicago by Mr. Hildebrand. A large collection of mostly fresh-water fishes was purchased from Mr. Woolman. The collection contains many rare species from the Southern States and from Mexico. Of the reptiles, 71 important ones were collected on the islands near Venezuela by Mr. Ferry, and the next in importance were secured through exchange from Mr. Hunter of St. Louis. The acquisitions in the Division of Entomology consisted mainly of small lots of insects, mostly of local species, though by purchase 163 specimens were obtained from Charles Weber, who collected them on the island of Palawan, Philippine Islands.

**EXPEDITION AND FIELD WORK.**— One of the most important expeditions of the year has been that of Assistant Curator Simms in continuation of the survey of the Philippine Islands, the funds for which are provided by Mr. Robert F. Cummings. On his arrival at Manila Mr. Simms proceeded to the Cagayan valley with the object of assembling the material collected by Dr. Jones and arranging for its dispatch to Manila. Dr. Jones, having made an exhaustive study

of the Igorots of Dumabatu, Tausi, Alcad, and Cagadyangan, and having assembled his collections at Dumabatu, was preparing to raft them to Iloilo, when he was killed by natives. The following report from Assistant Curator Simms, dated November 26, 1909, from Tagulain, Mt. Province, is of interest. "I have the pleasure to report that my stay in the Itugao territory (where I journeyed after completing my work in connection with the affairs of the late Dr. Jones) was one of success, having collected more than a thousand specimens forming a typical and comprehensive collection from this interesting people, who, up to the time of making this collection were but poorly represented in the Museum. In this collection there is a full size typical house, also forges, models, objects in progress of manufacture, etc. My next scene of investigation and collecting was among the Igorot of the sub-province of Amburayan - principally at Bacun and immediate vicinity. From this little known area I made a collection of several hundred specimens which greatly increase the value of an already large and valuable collection of Igorot material. This collection, in a previously existing gap. I sincerely hope to get my material shipped soon, that it may reach Chicago the first of the coming year." The collections of Dr. Jones and Assistant Curator Simms are now in transit from Manila. Dr. Berthold Laufer continued his ethnological survey of Tibet under the Blackstone fund. Early in May, Assistant Curator Lewis left for New Guinea and the adjacent islands, beginning the three years survey under the Joseph N. Doolittle Pacific Islands Fund. After a brief stay in Hawaii he proceeded to the Fiji islands, where he was able to secure a fairly comprehensive collection, comprising about 70 type specimens, baskets, mats, posts, fishing outfits, etc., in various stages of completion. From Fiji Mr. Lewis journeyed to Sydney, Australia, and from thence to Herbertshöhe, Bismark Archipelago. From here, without delay, he set out upon a trip along the coast of German New Guinea, from Huon Gulf to Berlin Hafen, with the intention of returning to the former locality to begin work. Early in October Mr. Cole returned to the Philippines on his second R. F. Cummings' Expedition, to make investigations among the wild tribes of the southern islands. He will first work among the Mangyans of Mindoro, a Malayan tribe having a written language quite different from that used by other Malayan people. After visiting certain sections of Palawan he will go to Negros for a somewhat lengthy sojourn. Upon completion of this work he will go to Mindanao for an extended stay among pagan tribes found toward the interior of that island.

Three field trips in the interest of the Department of Botany have been successfully made during the year. The herbarium staff spent a week among the sandstone outcrops of the Starved Rock region, not only to assure a representation of the plants of that interesting locality in the herbarium, but to secure valuable exchange material. This trip resulted in 183 specimens, and 11 sets of specimens for exchange with other herbaria. Mr. R. A. Dixon, one of the preparators of the department, made a like trip to Madison, Montgomery, and Walther counties, Texas, securing 189 specimens for the herbarium and 575 specimens for exchange. Mr. Huron Smith, Dendrologist, made his field base this year in the mountains of West Virginia and Northern Georgia where he collected 149 tree specimens, 110 negatives of trees, 250 herbarium specimens of trees, 592 specimens of various plants for the general herbarium, and 1,342 specimens for exchange. Mr. B. E. Dahlgren made a trip to Jamaica in February and March to secure studies, and specimens of tropic fruits for reproduction. From this expedition he returned 117 specimens, molds, and mounts together with a long series of water-color studies of living plants and fruits in situ. In his work on the island he was generously accorded accommodations at the Hope Botanical Gardens at Kingston and material assistance by the Director, Mr. H. H. Cousins, Mr. William Harris, and other members of the staff.

In March a trip was made to the Bermuda Islands by the Curator of Geology and full series obtained illustrative of the coral and æolian limestones, cave products, soils and erosion forms of these islands. Of the latter forms, two large potholes nearly two feet in depth collected were especially important in illustrating these peculiar formations. Specimens of the fossil shells and corals of the islands were obtained in large number and about 60 photographs made, illustrating various geographic features but more especially the variations in elevation and subsidence of the islands. The Alaska-Yukon-Pacific Exposition at Seattle was visited near its close by the Curator and a considerable quantity of valuable material illustrative of the ores and minerals of Alaska and the Pacific Northwest obtained from exhibitors there. Among the material obtained was a number of pay gravels from placer mines of Alaska, low grade gold ores of Alaska, copper ores, including those of native copper, from the Copper River district, tin and tungsten ores from Teller, Alaska, showing associations like those of the Cornwall region, specimens illustrating the coals of Alaska, including anthracite and natural coke, sulphur and antimony ores from Alaska, representative ores from the mines of

the State of Washington, including ores from the New Republic mine, gold-bearing lead ores from Metaline, nickel, mercury, and antimony ores from Cle Elum, a series of copper ores illustrating transition from carbonate to sulphide from the Glacier Peak district, iron and chromium concentrates from the black sands of Cape Flattery, talc, fire clays and pottery clays and a series of silver-lead ores of the important mines of the Coeur d'Alene district, Idaho. Some choice mineral specimens were also obtained, including a fine group of smoky quartz crystals from Mt. Hood and a specimen of the new mineral hulsite. Some excellent Cretaceous fossils of unique form of preservation and including a new nautiloid species were also obtained. On the same trip the asphalt fossil beds near Los Angeles, California, and the Grand Canyon of Arizona were visited and valuable specimens collected and photographs made. A brief trip to Southern Oklahoma was made by the Assistant Curator from which ores, fossils, and other geological material of the territory were obtained. The ores secured were chiefly of iron and manganese and illustrative of the gradations among these ores and the replacement of limestone by iron. Good specimens of glass sand were also obtained. The fossils obtained were chiefly bryozoa and brachiopods. In addition, specimens of calcareous and siliceous oolites were collected and some field studies made regarding the origin of the latter. The Assistant Curator of Invertebrate Paleontology continued during the year the work of collecting invertebrate fossils in the Chicago area and at Wilmington, Illinois. In the Chicago area over 500 specimens of Niagara age were collected, chiefly crinoids, sponges, and corals. Several of the crinoids furnished additional illustrations of the new species recently described by the Assistant Curator and some new forms were obtained. Several hundred Pleistocene shells were also collected in the area. At Wilmington over 2,000 specimens of Richmond age were obtained, nearly all of which are new to the collections. These include representatives of about 20 species of Brachiopods, several species each of Pelecypods and Cephalopods, and 35 species of Bryozoans.

During January, February and March, Mr. John F. Ferry of the Department of Zoology, visited the islands of Bonaire, Aves, Los Roques, Orchilla, Tortuga, Blanquilla, Los Hermanos, Margarita, and Testigos, situated off the northern coast of South America. His collections number 824 birds, 27 birds' eggs, 19 mammals; and in addition small collections of fishes, reptiles, and invertebrates were made. As a result, 8 species and subspecies of birds new to science were discovered and a large number of species new to the collections





Tonopah (Nevada) Meteorite. Weight 3,275 lbs.

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of the Museum were obtained. In addition much information of value in the study of migration, variation, and geographic distribution was secured. In May, June, and July Mr. Ferry again took the field and worked in the vicinity of Prince Albert and Quill Lake, Saskatchewan, where he secured 195 birds, 22 mammals, 36 sets of birds' eggs with nests, and a large amount of accessory material for the preparation of exhibition groups of the water birds which breed in this region. Later a second expedition to the same locality was undertaken by Mr. Ferry, accompanied by Mr. L. L. Pray, to procure a series of pelicans and additional accessory material, which proved successful. In the early part of December, Mr. C. A. Corwin, Artist, and Mr. L. L. Pray, Taxidermist, spent two weeks in northern Louisiana, securing sketches and accessories for bird groups in course of preparation. During March, April, and May, Assistant Curator Meek and Mr. Heim visited Key West and Dry Tortugas, Florida, for the purpose of collecting fishes and accessory material for fish groups, as well as making studies for the same. On this expedition 1,300 alcoholic specimens together with 400 fish skins were secured, representing 50 species. There was also collected a large quantity of sea ferns, sea feathers, sponges, corals, starfish, sea urchins and other material for accessory work. Of the 400 fish skins about 200 were preserved in brine, 175 are mounted but not finished, and 25 are mounted, ready for exhibition. Over 1,500 entomological specimens were collected by the Assistant Curator of the division on a trip made in the late summer to the southern part of Illinois. Among the insects obtained were a number of interesting species which are not found in the northern section of the State, where most of the field work has been done in the past. As a result of a trip made by Mr. Freisser to Northern Mexico, over 200 very desirable insects were obtained from that section.

Following is a list of the expeditions since the date of the last Report:

Locality.	Collector.	Material.
Key West and Tortugas.	S. E. Meek,	Fishes for groups and study material.
Margarita Islands and various other islands off north coast South America	J. F. Ferry,	Birds and mammals.
Saskatchewan	J. F. Ferry,	Birds, birds' eggs, nests, etc., for groups.
Jamaica	B. E. Dahlgren,	Tropical fruits.
Fiji — German New Guinea (Huon Gulf)	A. B. Lewis,	General Ethnological collections.

Locality	Collector	Material
West Virginia and Northern Georgia	H. H. Smith.	Timbers.
State of R. I. (Rhode Island)	J. M. Greenman.	Herbarium specimens.
Hawaii (Laysan)	O. C. Farrington.	Geological specimens.
Luzon, P. I.	S. C. Simms.	Collections among Igorot tribes of northern Luzon.
Mindanao, P. I.	F. C. Cole.	Collections and investigations among Mangyans.
China and Tibet	B. Laufer.	General collection of Ethnology and investigations.
Mexico	G. A. Dorsey.	Reconnaissance of certain ruins in Chiapas.
Oklahoma	H. W. Nichols.	Ores.
A. Y. P. Expedition	O. C. Farrington.	Ores and minerals of Pacific Northwest and Alaska.
Sakatchewan	J. F. Ferry.	Birds, including adults and young, birds' eggs and nests for groups and study material.
Lehigh and Wilmington, Illinois	A. W. Slocum.	Invertebrate fossils.
Southern Illinois	W. J. Gerhard.	Insects, etc.
Luzon, P. I.	Wm. Jones.	Investigations and collections among the Hongots, province Isabela.
Texas	R. A. Dixon.	Herbarium specimens.

**INSTALLATION, REARRANGEMENT, AND PERMANENT IMPROVEMENT.**—The ethnological material secured by Mr. Cole in Northwestern Luzon during the second Robert F. Cummings' Philippine Expedition, chiefly among the Tinguian, Apayao, and Kalinga tribes, has been installed in new cases entirely, filling Hall 41 and partially filling Hall 57, with the exception of two cases. Hall 41 is entirely occupied with material from the Tinguian tribe. This comprehensive exhibit consists of basketry, matting, a case fully illustrating the manufacture of textiles, blanketry, women's costumes, men's dress and accessories, medicine and foods, toys and musical instruments, fishing paraphernalia. Two Tinguian groups are about completed for Hall 41. A life-size forge group of five figures, illustrates the manufacture of head axes and spears. A miniature village group, built to scale by Dumagat, a native boy, consists of house models, rice granary, balana, spirit houses, rice seed-beds, and accompanying accessories. About thirty figures of the natives at their daily tasks will lend added interest to this case. Two cases of Kalinga-Tinguian-Igorot material from the Saltan River Valley and from the Tinguian-

Apayao-Kalinga people of the Tineg River Valley complete the quota of 21 cases filling this Hall. In Hall 57 are already installed two additional cases of Kalinga-Tinguian-Igorot ethnological specimens from the Saltan River Valley; two cases of Kalinga material, one case each of Batak and Tagbanua ethnological material from Palawan. Over 200 photographs, along with new maps, have been placed in these cases to further illustrate the use of objects shown. In this Hall there yet remain to be installed two cases of Batak material and three of Apayao, for which cases are still lacking. 17 New Guinea house posts have been placed in the coves of Hall 58. In Hall 53 two cases of ethnological specimens, comprising basketry, weapons, house posts, drums, carved figures, a wooden bed, shell money, etc., from New Ireland and close-by islands, have been temporarily installed. This material, except a small quantity from the Parkinson collection, was gathered by the Curator of the Department during his hurried trip around the world in 1908. From the hall ceiling were suspended boats, outrigger canoes, from the Solomon Islands, New Guinea and New Britain, and a surf raft from the Solomon Islands. Upon the east and west walls were fastened ceremonial house carvings from New Guinea, a portion of the Voogdt collection, presented by Mr. Joseph N. Field. Here also have been installed two dance masks, the larger over 16 feet in height, from Hansa Bay, German New Guinea. These masks are rare since they are usually destroyed after having served the temporary purpose for which they were made. In Hall 37 has been installed a case of material from Sumatra and one from Java, consisting of material collected by the Curator during his recent visit to these islands. A case of Java ethnology stands in Hall 39 and two cases of the same material yet remain to be installed upon the arrival of the consignment of new cases. Here also is a case of Apache-Yuma and Havasupai ethnology. In the south cove of Hall 38 have been placed temporarily four Philippine spirit houses collected by Mr. Cole on the second R. F. Cummings' Expedition. On the wall of the cove are four large rice planters from the Island of Cuyo. In the center of the Hall stand temporarily three cases of Apache material, consisting of two cases of Medicine Dance paraphernalia, and one case of painted buckskins, implements of the chase, various household utensils, tools used in tanning, etc. Some confusion of installation exists in Halls 37, 38, and 39, leading to the east annex, owing to the temporary use of Hall 7 by Zoölogy. As soon as it is released to Anthropology this condition will be improved by the installation of the collections originally designed for this hall. In Hall

were installed six cases of Apache material, comprising objects of personal adornment, accessories to dress, children's playthings, machine tools, games, and cases, musical instruments, grinding implements, transportation, basketry, and warfare. Three cases will be required to complete the installation of the Apache material. In the south end of the Hall have been installed the Navaho exhibits, largely the gift of Mr. Ayer, and consisting chiefly of blankets and a splendid lot of old Navaho basketry. A case of old Tlingit armor has been installed in Alcove 111. Owing to the crowded condition of the Egyptian Hall, the installation there of the sarcophagus and large false doorway, recently secured by Mr. Ayer, made considerable rearrangement necessary. Case 41, Alcove 123, has been rearranged. In Hall 40 a rearrangement of five cases was rendered necessary through the addition of certain material procured by Mr. Cole in Northern Luzon. The cases of the North Court have been retied anew and provided with suitable screws, rendering them more nearly dust proof than before.

The economic botanical collections have received the addition of 215 specimens of more than ordinary interest. The progress of installation in the Department of Botany has far exceeded that of any previous year. The entire west galleries have been completed through the installation of 40 cases, and 42 have been completely labeled. The large and valuable dendrologic series from Paraguay has been resawed, redressed, and installed with bark and wood in approximation, in 7 highly interesting cases; the 30 principal woods of the Island of Trinidad occupy a half case brilliant and attractive in color, these with 41 species of woods from British Guiana, complete the case, another case sets forth 70 species of Colombian woods, another, 161 species of the woods of Venezuela, the latter a very complete and carefully identified series. The dendrologic collections end with 28 cases of more than ordinary interest; one of these contains an enlarged model showing the structure of wood; the other a long series of specimens illustrating the manner and results of government timber tests. The unique and highly attractive display of woods in the Department now comprises 45 complete cases fully and descriptively labeled. To the systematic display in economic botany, 29 cases have been added during the year; one of these illustrates the plants of the Bible, the labels presenting relative quotations concerning each, another is devoted to tea in its various forms, types, and characters, another contains 9 small families of plants, the snakeroots, the medicinal woods, waterlilies, butter-tups, pinks and bear-

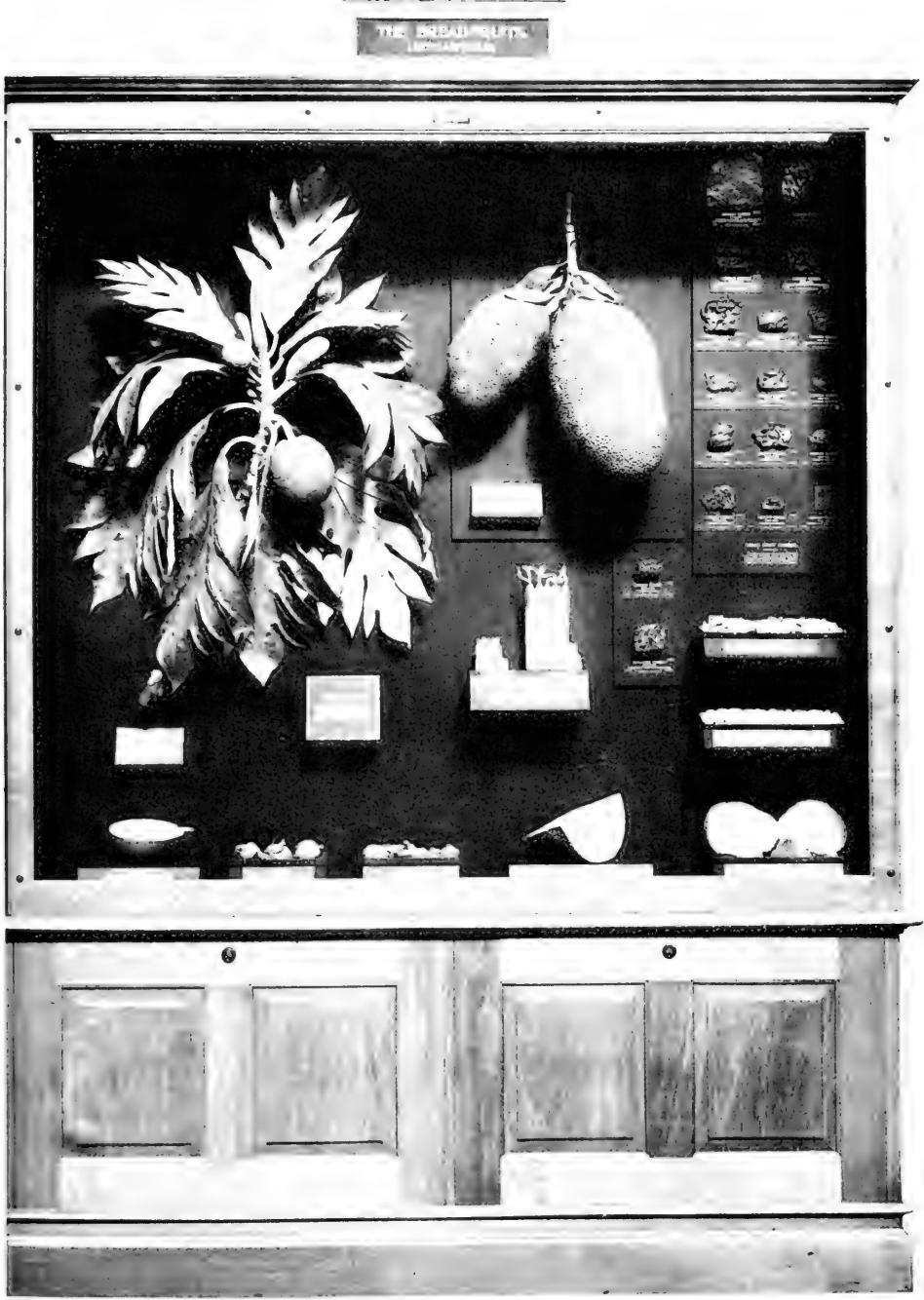
berries; and another the pines, cedars, and fir. A case illustrates the wood chip industry of Japan together with a long series of interesting and comparative coniferous fruits from the Orient, Australia, and the tropics. A case of Coontie starch plants with their interesting cone-like flowers and fruits; and the cattail flags and objects of their utilization. An additional case in the grass family shows the utilization of grass fibres in cordage and basketry, and the roots in dyeing. Two and a half further cases, illustrating the palms, bring the representation of this utilitarian family up to 14 cases. An additional case of the oaks, walnuts, and birches has been added, and another to the representation of the mulberry family, containing the interesting tapa cloth, letter-wood, fustic, and other products. A highly interesting case of the breadfruit family with its rubber gum, nuts, and meal. A case illustrating the magnolia, custard apple, witch-hazel and sycamore families with their instructive fruits, woods, and other products. Four cases in the bean family have been added to the four previously on exhibition, the four new ones include the woods, fibres, fruits, seeds, gums, and dyeing and tanning barks produced by this valuable family. The mahogany family now occupies a case of high interest as do also the orange family, the spurge family, and the soapworts. The buckthorns and vines yield a highly instructive exhibit of products with the tea family occupying a part of the same case. The gutta-percha family with its rubbers, gums, and resins, and the passion flowers and lace-barks completes another installation. The cacti, pomegranates, and mangroves fill another case, and the interesting and curious monkey-pot family with that of the clove and allspice another. The family of the parsleys yielding many odorous fruits such as the cumin, anise, angelica, caraway, and the ill-smelling gums asafœtida and angelica, is now well represented. The black gum, azalea, dogwood, and ebony families, producing many valuable products, and the sapodilla family, of chewing gum notoriety are fully exploited. The morning glory family, with the milkweeds, complete another interesting case; the mint family, and that of the sesames, another. The madder family with its coffee, dyes, and tans, and the potato family with many common food examples, complete the economic installation of the year. The plans of the Curator of Botany have been, from the first, to combine both taxonomic and economic characteristics in the cases devoted to systematic botanical installation. Up to the present year the absence of a capable reproductionist upon the staff of the department has necessitated installation of economic material only; now, how-

ever, a Modeler's section has been equipped and placed in charge of Dr. B. E. Dahlgren, a capable scientific artist, and the results of his work in reproduction are finding places in the plant families. The case devoted to the breadfruit family, illustrated in this Report, clearly indicates the proposed plan of installation. In this case the material illustrates the family characters and products as follows: A life-size reproduction of the end of a leaf, flowering, and fruiting branch of the breadfruit (*Artocarpus* *muzy*) shows the leaf-form and characters; the disposition and characteristics of the flowers, and the immature and mature fruit in exact relation; with this are two enlargements from nature exemplifying the intimate structure and character of the flowers, both male and female, the more delicate features of which are reproduced in glass to insure stability and permanence in the reproductions; in close association is a natural sized ripe fruit, shown in section, to illustrate both the developed ovary and the peculiarities of the fruit itself. These four reproductions together exemplify all the botanical characters that distinguish the family and unite its genera and species in intimate relationship. Another similar installation has been completed illustrating the chocolate family; in this a chocolate tree (*Theobroma cacao*) is represented in full fruit and leaf, an enlarged model depicts the peculiar flower in botanic detail, and a third the ripe fruit with its seeds (chocolate beans) invested in their natural coating of mucilaginous tissue. Several other group models now well under way will soon add deep and renewed interest to cases already installed with products only. No Museum has ever before attempted such comprehensive educational installation, and the result in interesting the public in plant life is already being felt. A rearrangement of the two easterly herbarium rooms became necessary in order to better arrange the departmental library to accommodate the increase of books obtained through the Rothrock accession. The herbarium cases in the northeast room were removed to the southeastern to replace the books therein. The entire walls of the former room are now in book shelves the content of which makes a creditable beginning of a botanical library. The subject, author, and species card indices have been kept up to date and the accessibility and utility of the library notably increased. The herbarium work has progressed satisfactorily during the year, though there is still a large part of the Wahlstedt, Rothrock, and University of Chicago herbaria awaiting the organization that will render the specimens an integral part of the Museum herbarium.



In Higinbotham Hall the series of gold nuggets and crystallized gold was moved to one of the floor cases and mounted and labeled in accordance with the method employed for the general gem collection. Unlabeled specimens of the gem collection were supplied with labels to the number of about sixty. In Hall 36 the large slab of *Uintacrinus* acquired during the year and shown in Plate LII was placed on exhibition. The preparation of this slab for exhibition involved considerable labor as the slab had been imperfectly mounted when received and was unsafe for exhibition without further treatment. In order to prepare it for exhibition and make a firm and durable mount, the surface designed for exhibition was covered with tissue and a thick covering of plaster poured over it. The slab was then reversed and the plaster previously forming the bed carefully removed from the rear side. A thick bed of plaster was provided for this side and a heavy and durable framework placed around it. The plaster was then removed from the front side and the whole framed in heavy plate glass. In Hall 59 a fine mastodon skull from Yorkville, Illinois, has been installed in place of the large cast of *Elephas ganesa*. Some needful repairs were made upon the mastodon skeleton in the same Hall. A wall case, corresponding in pattern to those already in the Hall, was provided for a series of Tertiary and Quaternary invertebrate fossils, including those collected by the Curator in Bermuda, and the specimens installed in it. Other specimens installed in the Hall include a slab mount of a nearly complete skeleton of the Miocene wolverine *Aelurocyon*, a skull and fore and hind legs of *Moropus elatus*, two skulls of *Diceratherium*, two skulls of *Archæotherium mortoni*, a skull of *Oligobunus*, and a fore leg of *Hypohippus*. In Hall 61 a nearly complete skeleton of *Castoroides* from Indiana was assembled and installed in a wall case. This is a rare form of beaver-like animal of which only one other skeleton and three incomplete skulls have been found, although the first remains were found in this country in 1838. Besides its rarity this skeleton is remarkable for its large size, the animal having been more than two feet in height and five feet in length and having incisors ten inches long. In Hall 62 a large floor case four feet square was provided for the Tonopah meteorite and the meteorite, weighing nearly two tons, installed in it. The case is of the same pattern as the other floor cases in the Hall. Some readjustment of the other floor cases was necessary in order to obtain space for this one, and the time during readjustment was improved to thoroughly paraffin the series of Toluca meteorites, in order to check incipient

be arranged. Some small meteorite specimens were also installed in their proper places in the collection. In Hall 65 a large metal case one and a half feet square by 8 feet high has been provided for an exhibit of selenite crystals from Utah. These are mounted in the form of the geode in which they originally occurred. The case is provided with glass on one side and the interior is lighted with electricity. A large number of crystals are shown in this exhibit many of them weighing between 50 and 100 pounds each, and the restoration of the conditions under which they were found in nature has been made as realistic as possible. A case has also been provided in this Hall for the remarkable fulgurite, 9 feet in length, obtained from Indiana, and the specimen installed therein. The remaining collections in the Hall have been completely rearranged and labeled and some new material added, including the specimens of concretions and potholes brought by the Curator from Bermuda. In addition to the exhibits named the Hall as now installed contains two cases of cave products, one of ripple marks, mud cracks, etc., a half case of glacial material and a half case illustrating rock weathering, two cases of concretions and one case of septaria. In order to complete the labeling of this Hall temporarily, about 200 written labels were prepared and installed. A similar rearrangement and labeling has been made of the material in the wall cases in Hall 66. A half case is now devoted to rock textures, a half case to rock jointing, two cases to volcanic products, a half case to faults and folds, a half case to dendrites, a half case to oolites, a half case to veins, and a half case to products of metamorphism. A considerable quantity of rough building-stone and marble material of various sizes which had been obtained from a number of sources was reduced to uniform size for installation with the regular building-stone and marble collection in Hall 67. Twenty four-inch cubes of limestone and fine granites, and other building stones were added in this way to the building-stone collection and six large polished slabs of granite, basalt, and other eruptive rocks. In addition about 100 specimens of colored marbles smaller than the standard size were grouped by locality or pattern in frames of the standard size of 10 x 15 inches and added to the marble collection. Twenty-five of these frames containing from one to eight specimens each have been installed and thus a considerable number of important specimens which it had not been possible to exhibit hitherto was added. About 70 temporary labels written in white ink on black cards were also prepared for this collection and installed. A series of specimens illustrating the manu-



Combined Taxonomic and Economic Installation. The Botanical Characters Modeled.

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ture of Japanese pottery received from Nippon Toki Gomei Kwaisha has been installed in Hall 68. This series exhibits both material and stages of manufacture. Hall 70, devoted to varieties of coal and hydrocarbons, has been completely reinstalled during the year. New cases have been provided throughout and the specimens, with some additions, reinstalled in them. The cases adopted are wall and floor cases of the type already in use in Hall 68, with the exception that the wall cases are deeper. Seven wall cases and six floor cases of these types have been placed in the Hall. Five of the wall cases are devoted to the collection illustrating varieties of coal from lignite to anthracite. Besides the coals of this country those of England, Germany, and Australia are especially well represented. The two additional wall cases are three feet deep and are devoted to large specimens of asphalts, cannels, and other coals, including a complete section, six feet in height, of an Australian coal seam. Of the floor cases, one is occupied by diamonds and diamond-bearing earths and rocks from most of the important diamond-bearing regions of the world. Another is devoted to a very complete collection of graphites from various localities and countries. The others contain asphalts, gilsonite, and other hydrocarbons of economic importance as obtained from various localities. A complete collection of rocks associated with the coals of Saarbrücken, Germany, and illustrating in a general way the rocks usually associated with coal occupies another floor case. The total number of specimens now exhibited in the Hall is as follows: 44 American lignites, 9 American cannels, 55 American bituminous coals, 29 English and miscellaneous European coals, 54 German coals, 17 specimens illustrating German coal washing, 12 specimens foreign bituminous coals, 17 specimens anthracite coals, 17 large specimens of French and California asphalts, American anthracites, cannels, etc., 31 specimens diamondiferous rocks and gravels, 50 specimens graphite, 50 specimens of peat and its products, and 63 specimens of asphalts and related hydrocarbons. Hall 72, devoted to ores of the precious metals and lead has also been completely reinstalled during the year. New cases have been provided and a complete reorganization of the collections made. The wall cases are of the type used in Hall 79 with some changes in the felting and hinging. Ten of these wall cases have been provided. On the floor of the Hall fifteen cases have been placed, five of which, placed in the center of the Hall, are devoted to larger specimens. These cases are similar to those used in Hall 79 except that the sides have been made in a single light of glass instead of two lights, and

these lights are removable entire when it is desired to open the case. The other floor cases are of the type already in use in Hall 68. Before reinstallation of the specimens they were carefully cleaned and any essentially duplicate material eliminated. The general plan of installation which had been previously adopted was retained, the ores being placed in geographic order in the wall cases. As before, the ores of a group of mining districts have been placed together and for all such groups an individual label has been prepared. It may be said that most of the important mining districts of the precious metals of the world are represented in this collection. The large specimens on the floor of the Hall are grouped geographically also as far as possible. Specimens too large for these cases were removed to the West Dome. All of the specimens in Hall 72 are now protected by glass, so that much better preservation of them is insured than has been possible hitherto. In addition to the large specimens the floor cases contain a number of special collections, such as those illustrating alloys of gold and silver, salvage of gold and silver waste, and platinum ores from various parts of the world. Three floor cases are also devoted to the metallurgy of the precious metals and lead. In one of these is exhibited an elaborate German method of treating silver and lead ores, the results of the different processes being connected by lines to show the course of treatment. A collection illustrating smelting of silver-lead ores in the ordinary manner occupies another case. In order to make the representation of the process somewhat more graphic, this collection has been provided with a model of a blast furnace. In this model, which was constructed in the Department, the various features of the blast furnace are shown in detail and a portion of the wall of the furnace is represented as removed from the rear so that the interior charge of the furnace may be seen. A model of a cyanide plant for the extraction of gold has also been constructed and placed in one of the floor cases. The model shows five wooden tanks placed upon trestles and filled with representations of the solutions and ores used in the processes. The tanks are connected by pipings shown in the model and a steam pump and zinc box are shown. A summary of the collections at present exhibited in the Hall and their distribution is as follows: One case, synoptic collection, placer gold ores, Canadian ores and Appalachian Mountains ores; one half case, lead ores of the Mississippi Valley; two and one-half cases, Colorado ores; one case Nevada, Montana, Idaho, South Dakota, Washington, and Utah ores; one case, California and Arizona ores, one-half case, New Mexico ores, one case, Mex-

ican ores; one-half case, South American ores; one case, Colombian ores; one case, ores of Australia, Africa, and Europe; one case, gold ores of Alaska; one case alloys of precious metals; one case salvage of gold and silver wastes; one case ores of platinum; one case metallurgy of silver-lead ores; one case metallurgy of gold, silver, and lead, illustrated by models; one case large specimens South American ores; one case large specimens Mexican ores; one case large specimens New Mexico and Colorado ores; one case large specimens Colorado ores; and five cases large specimens of typical gold and silver ores from all parts of the world. The relief maps of Leadville, Mt. Blanc, Carmelo Bay, and Mt. Desert exhibited in Halls 76 and 77 were repainted and framed during the year. Some additions were made to the map of Auvergne and one of the large maps of the Henry Mountains was framed. About fifty labels were placed in Hall 78 in number sufficient to complete the labeling of the collections in this Hall and a few additional specimens were installed. In Hall 79 the large mass of manganese ore from Brazil weighing 3,300 pounds, obtained from the St. Louis Exposition, was installed upon a mahoganzed base. There was also added to the exhibition series in this Hall the important series of copper ores from Alaska and Washington secured by the Curator at the Seattle Exposition, and a number of mercury, tin, tungsten, antimony, cobalt, nickel, and iron ores from the same source. About 100 hand-written labels were made for the new specimens. The West Dome not proving sufficiently well lighted for the display of small specimens, the four cases of lead ores previously exhibited there were removed and a number of large specimens brought from Hall 72 to take their place. For these as well as for the large specimens already on exhibition in the dome, neat mahoganzed bases were provided and the general appearance of this hall much improved thereby. A number of important specimens have during the year been prepared in the laboratory of vertebrate paleontology for exhibition. The largest of these was the mastodon skull with one tusk obtained from Yorkville, Illinois. Although this skull was nearly complete when received, some restoration was found necessary to insure its preservation. The restorations made were based on careful studies of skulls both of ancient and modern elephants. Considerable treatment of the tusk was also found necessary on account of its strong tendency to fall apart, and long experimentation was required before a satisfactory mode of preservation was discovered. By imbedding the tusk entire in paraffin, however, and then removing the excess of paraffin, a

satisfactory result was obtained. As only one tusk was present, another was modeled in plaster and the whole carefully assembled and bolted together. It was then mounted upon a well-constructed base. An excellent specimen of especial local interest has thus been secured. Another important preparation was that of a skeleton of the Miocene camel (*Oxydactylus longipes*) the material for which was collected by the Museum Paleontological Expedition of 1908 in Nebraska. By means of the restoration of a few bones a complete skeleton was obtained. This skeleton stands over six feet in height and exhibits to a striking degree the characters of the camel family. Only one other complete skeleton of the form is known. A nearly complete skeleton of the Miocene wolverine, *Aclurocyon*, was chiseled from its matrix and mounted in slab form. Two skulls of *Archæotherium*, one of which was collected in South Dakota in 1898 and the other in Nebraska in 1908, were also cleaned from matrix and mounted. These skulls were unusually well preserved and one may be a new species. A fore leg of *Hypohippus* obtained in Nebraska in 1908 and illustrating an interesting stage in the evolution of the horse was mounted. Two skulls of the two-horned rhinoceros or *Diceratherium* from Nebraska, a skull of *Oligobunus* from the same locality and a skull and fore and hind legs of the remarkable form *Moropus* were also prepared and mounted. Two cases of storage trays were provided in addition to those already employed for storage of vertebrate fossils and were nearly filled with cleaned and identified specimens. A similar case of trays has also been provided for the invertebrate fossils which will be used for specimens awaiting identification, before their removal to the exhibition or the study series. Considerable progress has been made in organizing the study collection of ores and other economic minerals, a large part of the specimens having been cleaned, wrapped, labeled, and distributed. To the Department photograph albums 179 prints have been added during the year, making the total number 2,372. Books, pamphlets, and charts to the number of 492 have been added to the Department library, making the total number in the library 6,042, and some binding and repairing of books and rearrangement of shelf series in this connection has been performed.

The Department of Zoölogy installed during the year a striking pair of African elephants in the central rotunda of the Museum. Aside from this, no large groups have been completed though several important studies both of mammals and of birds are well under way





Group of African Elephant (*Elephas africanus peeti*. Lydekker).

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and will doubtless be installed during the year. A habitat group of antelopes (*Antilocapra americana*) has been begun and in November Mr. Julius Friesser visited northern Mexico securing the necessary accessory material. Owing to the generosity of Mr. Stanley Field, who provided the necessary funds, four large habitat groups of birds have been begun and bid fair to excel any work of the kind which has been undertaken. These groups will show the following North American species under natural conditions: 1, California condors (scene, mountains of Southern California); 2, wild turkeys (scene, forest of Northern Louisiana); 3, white pelicans, cormorants, gulls, etc. (scene, breeding grounds, Quill Lake, Saskatchewan region, Canada); 4, wild geese, ducks, terns, etc. (scene, breeding grounds, vicinity of Prince Albert, Saskatchewan, Canada). In this connection the services of Mr. C. A. Corwin have been secured to prepare the painted backgrounds. Ten large mammals have been added to the systematic series of mounted mammals during the year. These include 2 glacier bears, 1 Stone's caribou, 1, mountain goat, 2 Alaska wolves, 1 wolverene, and 2 Alaska lynx. About 80 small and medium-sized birds have been finished and placed on exhibition. A collection of photographs of living animals intended especially for use of the taxidermists has been begun and proves most valuable. One fish case containing 4 groups of fresh-water fishes and 36 jars of fishes in formaldehyde have been installed. One python has been mounted, and a large alligator has been installed in the exhibition rooms. In progress of preparation is a case 6 x 12 feet to contain 6 groups of tropical fishes, each group with a glass front 3 x 6 feet; below these groups, occupying the entire floor of the case, is being installed a group consisting of a large tiger shark and her 44 young. Much attention has been given during the past year to the collection of local insects, with a view to installing an exhibition collection representing the insect fauna of the State. For several years it has not been possible to prepare the specimens as rapidly as they were received, with the result that a large amount of material has accumulated which has not been pinned. It was to the preparation of these insects that more time was devoted than to any other work, by the Assistant Curator. Owing to facilities for degreasing skulls and skeletons, which were secured through the courtesy of Mr. William Warwick, Superintendent of the Standard Oil Company plant at Whiting, Indiana, who placed a building at the disposal of the Museum for that purpose, 43 skeletons and skulls were degreased.

In the Museum laboratory the following specimens were prepared:

Skulls cleaned for the Division of Mammalogy . . . . .	753
Skeletons repaired and remounted . . . . .	8
Skulls mounted for Craniology . . . . .	17
Skeletons mounted for Osteological collection . . . . .	8
Total . . . . .	786

**PRINTING.** It will be noticed that a large number of labels have been printed during the year. The office is now well equipped, its facilities enlarged, and the number of employees increased. The following figures show the number of impressions in the way of label printing and other impressions:

	Labels	Other Impressions
Department of Anthropology . . . . .	3,724	5,250
Department of Botany . . . . .	6,081	19,630
Department of Geology . . . . .	271	255
Department of Zoology . . . . .	391	20,025
Director's Office . . . . .		75,005
Hughes'ham Hall . . . . .	62	...

**PHOTOGRAPHY AND ILLUSTRATION.** Unusual activity marked the progress in this important division. 875 negatives, made in the field, were developed; over 1,200 lantern slides, and 84 Lumiere Autochrome photographs. The following is a statement of the work performed:

	Negatives.	Prints	Lantern Slides.	Enlargements.	Lumiere Autochrome.	Negatives for Field Expedition.
Director's Office . . . . .	24	281	.	1	...	...
Department of Anthropology . . . . .	1,807	5,000	772	...	...	6
Department of Botany . . . . .	28	834	...	25	4	282
Department of Geology . . . . .	83	208	166	...	65	114
Department of Zoology . . . . .	200	288	219	28	15	473
General . . . . .	...	97	...	...	...	...
Gift . . . . .	...	118	60	...	...	...
Sale . . . . .	...	91	26	...	...	...
Total . . . . .	2,142	6,917	1,273	53	84	875

Total number of inventory entries to December 31, 1900 . . . . . 80,762  
 Entries from December 31, 1908, to December 31, 1909 . . . . . 11,344

ATTENDANCE.—The attendance for the year shows a slight decrease over the previous year. The following is the list of school classes (thirty pupils or more) that visited the Museum during the year:

Schools and Location.	Teachers.	Pupils.
University High — Fifty-ninth Street and Monroe Avenue . . . . .	2	31
Hyde Park High — Fifty-seventh Street and Kimbark Avenue . . . . .	1	45
Hyde Park High — Fifty-seventh Street and Kimbark Avenue . . . . .	1	35
Hyde Park High — Fifty-seventh Street and Kimbark Avenue . . . . .	1	55
University Elementary — Fifty-ninth Street and Monroe Avenue . . . . .	3	75
Forest Park — Forest Park, Illinois . . . . .	2	47
Parkside — Seventieth Street and East End Avenue . . . . .	1	36
University Elementary — Fifty-ninth Street and Monroe Avenue . . . . .	2	30
Oglesby — Seventy-ninth Street and Emerald Avenue . . . . .	2	32
Hyde Park High — Fifty-seventh Street and Kimbark Avenue . . . . .	1	43
Hyde Park High — Fifty-seventh Street and Kimbark Avenue . . . . .	1	45
Hyde Park High — Fifty-seventh Street and Kimbark Avenue . . . . .	2	52
Parkside — Seventieth Street and East End Avenue . . . . .	2	34
Parkside — Seventieth Street and East End Avenue . . . . .	1	36
Hyde Park High — Fifty-seventh Street and Kimbark Avenue . . . . .	1	42
Joliet Township — Joliet, Illinois . . . . .	2	92
Blue Island — Blue Island, Illinois . . . . .	2	55
Burke — Fifty-second Street and Prairie Avenue . . . . .	3	38
South Harlem — Harlem, Illinois . . . . .	2	35
James Shields — South Rockwell, corner West Forty-third . . . . .	1	31
Englewood High — West Sixty-second Street and Stewart Avenue . . . . .	1	169
Prescott — Wrightwood Avenue and North Ashland Avenue . . . . .	1	30
Harrison — Twenty-third Place and Wentworth Avenue . . . . .	3	31
University Elementary — Fifty-ninth Street and Monroe Avenue . . . . .	1	45
University of Chicago — Chicago, Illinois . . . . .		30
James Shields — South Rockwell, corner West Forty-third . . . . .	1	44
Harvey — Harvey, Illinois . . . . .	1	30
Frances E. Willard — Forty-ninth Street and St. Lawrence Avenue . . . . .	1	31
Gladstone — Robey Street, corner Washburne Avenue . . . . .	1	37
Blue Island — Blue Island, Illinois . . . . .	4	149
Hyde Park High — Fifty-seventh Street and Kimbark Avenue . . . . .	1	109
Kershaw — Union Avenue and Sixty-fourth Street . . . . .	1	45
Frances E. Willard — Forty-ninth Street and St. Lawrence Avenue . . . . .	2	36
Earle — Sixty-first Street and Hermitage Avenue . . . . .	2	44
Raymond — Thirty-sixth Place and Wabash Avenue . . . . .	3	60
Blue Island — Blue Island, Illinois . . . . .	2	64
Kenwood — Lake Avenue and Fiftieth Street . . . . .	2	45
Blue Island — Blue Island, Illinois . . . . .	6	35

	Teachers.	Pupils.
Prescott - Wrightwood - 1 Avenue and North Ashland Avenue	2	52
James Shields - South Rockwell, corner West Forty-third	2	50
Mark Shields - Twenty-seventh Street and Wallace Street	1	68
James Shields - South Rockwell, corner West Forty-third	1	47
James Shields - South Rockwell, corner West Forty-third	1	30
St. Vincent - Webster Avenue, corner Sheffield Avenue	2	30
Seward - Forty-sixth Street and Hermitage Avenue	2	35
L. A. S. - Leavitt Street and Belle Plaine Avenue	2	33
William Penn - Sixteenth Street and Avers Avenue	2	148
R. W. High - Eighty-ninth Street and Manistee Avenue	2	59
University of Chicago - Chicago, Illinois	2	104
Pullman - One Hundred and Thirteenth Street and Morse Avenue	1	39
Barnard - One Hundred and Fourth Street, corner Charles Avenue	1	30
M. J. L. - Seventy-first and Loomis Street	1	42
McGinnick Vacation - West Twenty-seventh Street, corner Sawyer Avenue	13	261
University of Chicago - Chicago, Illinois		30
University of Chicago - Chicago, Illinois		61
University of Chicago - Chicago, Illinois		30
University of Chicago - Chicago, Illinois		45
St. Ignace - 113 West Twelfth Street		32
Raymond - Thirty-sixth Place and Wabash Avenue	2	80
James Walworth - Sixty-fourth Street and Greenwood Avenue		95
Forest Park - Forest Park, Illinois	4	67
James Walworth - Sixty-fourth Street and Greenwood Avenue		40
Wenell Phillips High - Thirty-ninth Street and Prairie Avenue	1	37
Bismarck - Central Park, corner Armitage Avenue	2	81
James Walworth - Sixty-fourth Street and Greenwood Avenue		37
James Walworth - Sixty-fourth Street and Greenwood Avenue		44
Thompson Township High - Harvey, Illinois	2	72
Jewish Training - 554 West Twelfth Place	2	35
Walter Scott - Sixty-fourth Street and Washington Avenue	2	43
Oakland - Fortieth Street, between Langley and Cottage Grove Avenues		43
Larue - Evanston, Illinois	1	31
Jewish Training - 554 West Twelfth Place	3	32
Oak Park High - Oak Park, Illinois		35

Herewith are also submitted financial statements, list of accessions, names of members, etc.

FREDERICK J. V. SKIFF,

Director.

# FINANCIAL STATEMENT.

## GENERAL ACCOUNT.

### RECEIPTS AND DISBURSEMENTS

From January 1, 1909, to December 31, 1909.

#### RECEIPTS

Cash in Treasurer's hands, December 31, 1908 . . . . .		\$47,348.32
Petty Cash on hand, December 31, 1908 . . . . .		739.95
Dues of Annual Members . . . . .		1,590.00
Admissions and Check Rooms . . . . .		5,719.50
Sales of Guides . . . . .		359.25
South Park Commissioners . . . . .		15,000.00
Interest on Investments . . . . .		45,280.28
Field Endowment Income . . . . .		172,156.89
Interest on Daily Balances . . . . .		1,069.47
Sundry Receipts and Refunds . . . . .		2,385.00
Sundry Sales . . . . .		239.16
R. F. Cummings' Philippine Fund . . . . .		4,273.07
Joseph N. Field South Pacific Islands Fund . . . . .		10,000.00
Stanley Field Ornithology Fund . . . . .		1,000.00
Huntington W. Jackson Fund . . . . .		40.00
Special Donations —		
Richard T. Crane, Jr. . . . .	\$ 693.75	
George F. Porter . . . . .	693.75	
Cyrus H. McCormick . . . . .	693.75	
Stanley Field . . . . .	1,193.75	
Sundry . . . . .	250.00	3,525.00
		<hr/>
Marshall Field Endowment Sinking Fund . . . . .		1,000.00
New Building Moving and Furnishing Fund In- come . . . . .		1,200.00
		<hr/>
		\$312,934.98

Departmental		
		\$82,333.74
General Service		12,796.32
Janitor Service		8,557.82
Fire Protection		2,013.18
Heat and Light		
Wage	\$3,666.00	
Fuel	7,172.31	
Supplies, gas, etc.	1,304.41	12,142.71
Repairs and Alterations		
Wages of Carpenters, Painters, Roofers, etc.	\$11,542.46	
Material used — paints, oils, glass, lumber, plaster, etc.	1,346.16	12,888.62
Furniture and Fixtures		4,334.93
The Library		
Books and Periodicals	\$1,581.15	
Binding	734.32	
Sundries	71.56	2,387.03
Sections of Printing and Photography		2,171.18
Collections, etc., Purchased		29,644.21
Departmental Expense		6,442.00
Expeditions		7,314.77
Publications		7,881.55
General Expense Account		
Freight, Expressage and Teaming	\$1,023.52	
Stationery, Postage, Telephone, etc.	988.03	
Northern Trust Company, Custodian fee	564.05	
Sundries	1,195.84	3,771.44
Mr. Timothy B. Blackstone Fund		15,000.00
R. F. Cummings' Philippine Fund		3,306.93
Storer Field Ornithology Fund		967.60
		\$219,636.05
In Treasurer's hand, December 31, 1929	\$65,014.41	
Petty Cash on hand	739.95	
New Building Moving and Furnishing Fund Investment	25,621.51	
Marshall Field Employment-Sinking Fund Investment	1,221.66	92,607.92
		\$312,634.98



ATTENDANCE AND RECEIPTS FROM JANUARY 1, 1909 TO  
DECEMBER 31, 1909.

ATTENDANCE.

Paid Attendance		
Adults . . . . .	20,160	
Children . . . . .	1,210	21,370
Free Admission on Pay Days		
School Children . . . . .	5,318	
Students . . . . .	3,524	
Teachers . . . . .	477	
Members: Corporate . . . . .	77	
Annual . . . . .	76	
Life . . . . .	7	
Officers' Families . . . . .	144	
Special . . . . .	146	
Press . . . . .	2	9,771
Admission on Free Days		
Saturdays . . . . .	38,499	
Sundays . . . . .	139,530	178,029
Total Attendance . . . . .		209,170
Highest Attendance on any one day (July 25, 1909) . . . . .		6,941
Highest Paid Attendance on any day (September 6, 1909) . . . . .		549
Average Daily Attendance (365 days) . . . . .		573
Average Paid Admissions (259 days) . . . . .		82

RECEIPTS.

Guides sold — 1,437 at 25 cents each . . . . .	\$359.25
Articles Checked — 11,176 at 5 cents each . . . . .	558.80
Admissions . . . . .	5,160.70
	<hr/>
	\$6,078.75

## ACCESSIONS.

### DEPARTMENT OF ANTHROPOLOGY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

- AYER, E. E., Chicago.  
 1 Clay mask from Cat's eye — Egypt.  
 2 Carved wooden images — New Ireland. (Collected by G. A. Dorsey.)  
 1 Facsimile of the Papyrus of Ani, in the British Museum.
- CUMMINGS, R. F., Philippine Expedition.  
 1 Skull of Igorot, Tinguian, Hocanos — Luzon Island. (Collected by F. C. Cole.)  
 1 Bagobo skull — purchased from Miss Laura E. W. Benedict.  
 115 ethnological specimens, 48 objects from burial cave of Pokann — Mindoro, Philippine Islands (purchased from Dr. Fletcher Gardner).
- DORSEY, GEO. A., Chicago.  
 1 Tinguian skull.
- DUPEE, WALTER HAMLIN, Chicago.  
 1 Rectangular woven garment, probably kilt, ornamented with tufts of human hair — Lower California.
- FERRY, J. F., Chicago.  
 1 Flat carrying basket — Margarita Island.
- FIELD, JOSEPH N., Manchester, England. South Pacific Islands' Fund.  
 115 ethnological specimens from Central Coast, carved posts, etc. — general ethnological collection, canoes, etc. — New Guinea (purchased from Captain H. Voogdt).  
 12 ethnological specimens from Huon Gulf. (purchased from Captain H. Voogdt).
- FIELD MUSEUM OF NATURAL HISTORY.  
 1 Collected by Edward E. Ayer and Geo. A. Dorsey:  
 1 Mastaba tomb from Necropolis of Sakkara — Egypt.  
 1 Granite sarcophagus — Egypt.
- 1 Collected by A. B. Lewis:  
 14 ethnological specimens — Berlin Hafen, New Guinea.  
 Purchases:  
 1 Ethnological specimens from Angola, West Central Africa, mostly from the interior from the district of Bihe, and used by the tribe known as the Ovimbundu.  
 1 Ethnological specimens — Ceylon.  
 22 pieces of Kabyle jewelry — Algiers, Africa.  
 11 Roman seals — Algiers, Africa.

2 Skokomish baskets — Washington.

38 models of Igorot figures, to be used in group work of Northern Luzon, Philippine Islands.

McCORMICK, STANLEY, Chicago.

6 oil paintings of participants in the famous Hopi Snake Dance — Arizona. (Painted by E. A. Burbank).

2 oil paintings of children in ceremonial costumes — Arizona. (Painted by E. A. Burbank).

RYERSON, MARTIN A., Chicago.

Mastaba tomb from Necropolis of Sakkara — Egypt.

VOOGDT, CAPTAIN H., Friedrich-Wilhelms Hafen, New Guinea.

1 stone image — Huon Gulf, New Guinea.

## DEPARTMENT OF BOTANY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

AIKEN, W. H., Cincinnati, Ohio.

1 herbarium specimen — Oklahoma.

AKERMAN, ALFRED, Athens, Georgia.

1 herbarium specimen — Georgia.

BERNICE PAUAHI BISHOP MUSEUM, Honolulu, H. I.

4 economic specimens — Hawaii.

BIRUM, ELI W., Saratoga, Indiana.

5 economic specimens as follows:

1 five pound can sorghum molasses, 3 complete sorghum plants, sorghum canes, extracted canes, 4 fruiting heads — Indiana.

BOTANIC GARDENS, Sydney, Australia.

109 herbarium specimens — Australia (exchange).

1 herbarium specimen — Tasmania (exchange).

103 herbarium specimens — Australia (exchange).

101 herbarium specimens — New South Wales, Australia (exchange).

BRANDEGEE, T. S., Berkeley, California.

5 herbarium specimens — Mexico.

CALKINS, W. W., Berwyn, Illinois.

1 herbarium specimen — Illinois.

CHAMBERLAIN, C. J., Chicago.

4 herbarium specimens — Mexico.

2 fruits in alcohol — Mexico.

CLARK, H. W., Chicago.

1 *Toxylon pomiferum* fruit — Illinois.

CONZATTI CASSIANO, Oaxaca de Juarez, Mexico.

185 herbarium specimens — Mexico.

COULTER, J. M., Chicago.

1 herbarium specimen — Michigan.

CUSICK, WM. C., Union, Oregon.

9 herbarium specimens — Oregon.

DEAM, C. C., Indianapolis, Indiana.

1 herbarium specimen — Indiana (exchange).

- 16 herbarium specimens - Guatemala.  
 17 herbarium specimens - Florida (exchange).
- DESERT LABORATORY, Tucson, Arizona  
 26 - same specimens, fruits and gum - Arizona.
- DIXON, R. A., Chicago  
 1 herbarium specimen - Grass Lake, Illinois.  
 21 herbarium specimens - Vermont.  
 1 herbarium specimens - Montana.  
 187 herbarium specimens - Illinois.  
 21 herbarium specimens - Utah.
- FIELD MUSEUM OF NATURAL HISTORY  
 Collected by J. M. Greenman:  
 11 plates.  
 2 photographs.  
 2 plant descriptions.  
 1 photograph of type specimen.
- Collected by C. F. Millspaugh:  
 18 herbarium specimens - Bahamas, Cuba, and Jamaica.  
 1 photograph of type specimen.  
 1 economic specimens - Kentucky, British India, West Indies and Peru.  
 1 economic specimens - Jamaica.  
 1 tracing.  
 7 herbarium specimens.  
 12 economic specimens.  
 3 economic specimens - California.  
 1 straw specimen.  
 2 economic specimens - California and Illinois.  
 2 economic specimens - Spain and Ceylon.
- Collected by B. E. Dahlgren:  
 118 economic specimens - Jamaica.
- Collected by R. A. Dixon:  
 762 herbarium specimens - Texas.
- Collected by J. M. Greenman, O. E. Lansing, Jr., and R. A. Dixon:  
 1,133 herbarium specimens - Illinois.
- Collected by C. F. Millspaugh:  
 1 fruit specimens.
- Collected by H. H. Smith:  
 10 herbarium specimens - West Virginia.  
 12 seed specimens - West Virginia.  
 25 leaf specimens - West Virginia.  
 7 wheel specimens - West Virginia.  
 7 economic specimens - West Virginia.  
 2 fruit specimens - West Virginia.  
 1 specimen, fruits in formalin - West Virginia.  
 1 herbarium specimen - Illinois.  
 179 herbarium specimens - Georgia.  
 112 economic specimens - Georgia.  
 6 specimens, dry fruits - Georgia.

- 4 specimens fruits in formalin — Georgia.
- 13 herbarium specimens — West Virginia.
- 7 dry fruits — West Virginia.
- 28 economic specimens — West Virginia.
- 40 winter twigs — West Virginia.
- 101 slab specimens — West Virginia.
- 82 board specimens — West Virginia.
- 29 specimens wheel sections — West Virginia.

## Purchases:

- 374 herbarium specimens — various localities.
- 54 herbarium specimens — Tobago, West Indies.
- 155 herbarium specimens — Paraguay.
- 338 herbarium specimens — West Indies.
- The private herbarium and library of Dr. J. T. Rothrock, West Chester, Pennsylvania.
- 61 herbarium specimens — various localities.
- 303 herbarium specimens — Arizona.
- 198 herbarium specimens — Black Hills, South Dakota.
- 4 herbarium specimens — Tobago, West Indies.
- 522 herbarium specimens — Mexico.
- 507 herbarium specimens — various localities.
- 406 herbarium specimens — Guatemala.
- 597 herbarium specimens — Arizona.
- 32 specimens crude drugs.
- 414 herbarium specimens — West Indies.
- 1,150 herbarium specimens — Philippine Islands.
- 28 herbarium specimens — Palestine.
- 15 economic specimens — Palestine.

## Modeled by B. E. Dahlgren:

- 11 models of plants — Jamaica.
- 3 models of plants — Indiana.

## FULLER, GEORGE D., Chicago.

- 40 herbarium specimens — Alberta, British Columbia.
- 7 herbarium specimens — various localities.

## GARRETT, A. O., Salt Lake City, Utah.

- 14 herbarium specimens — Utah.

## GATES, FRANK C., Chicago.

- 43 herbarium specimens — various localities (exchange).
- 27 herbarium specimens — Illinois.

## GLOYE, MAX C., Michigan City, Indiana.

- 1 specimen Brazilian cedar — Brazil.
- 1 specimen laurel — British Guiana.
- 1 board specimen — Mexico.

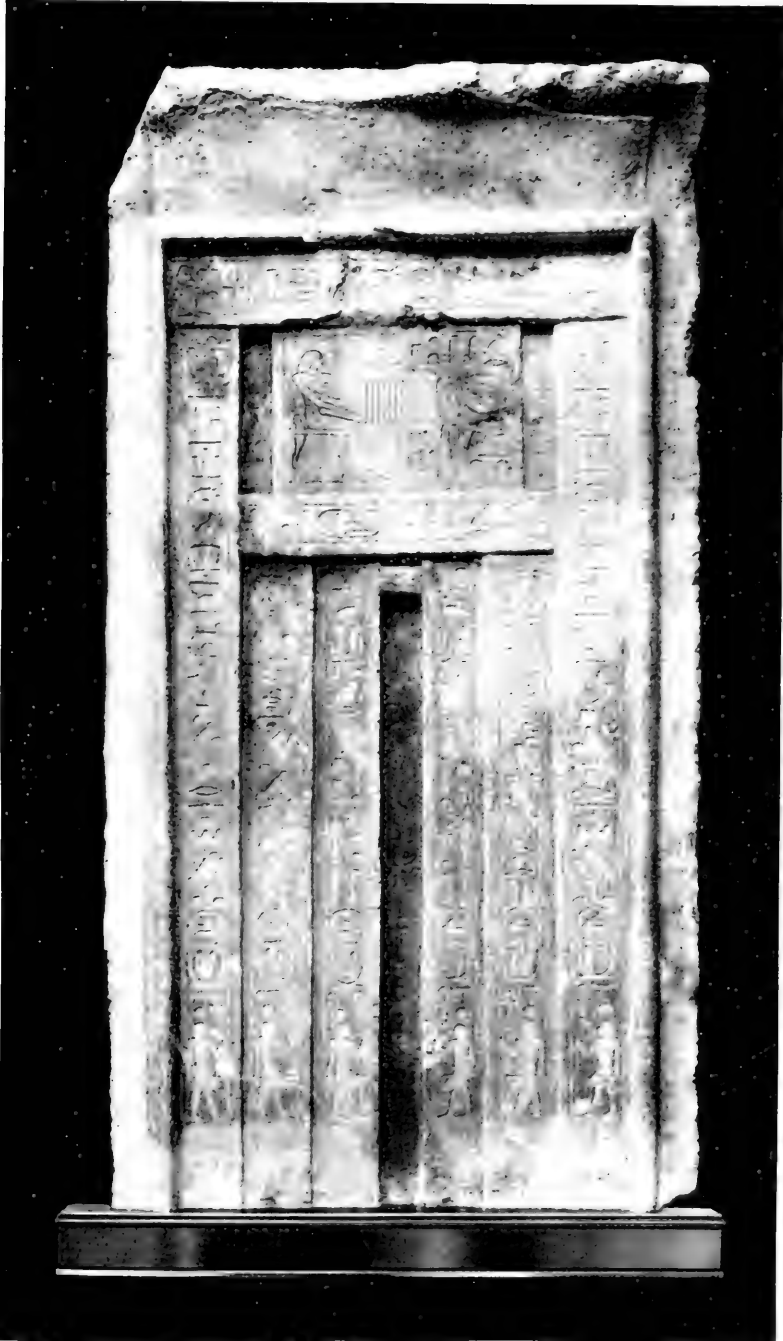
## GREEN, CHARLES D., Allegheny, Pennsylvania.

- 1 fruit specimen — Norway.

## GREENMAN, J. M., Chicago.

- 1 herbarium specimen — Massachusetts.
- 5 herbarium specimens — Indiana.
- 2 herbarium specimens — Utah.

- HILL, F. J., Chicago.  
27 herbarium specimens — various localities.
- HOPE BOTANICAL GARDEN, Kingston, Jamaica.  
1 trunk of tree fern — Jamaica.
- ISELY, F. B., Tonkawa, Oklahoma.  
124 herbarium specimens — Oklahoma.
- KIRKWOOD, J. E., Tucson, Arizona.  
7 herbarium specimens — Mexico.  
1 herbarium specimen — Arizona.
- LANSING, O. E., Jr., Chicago.  
1 fungus specimen — Illinois.
- LUNELL, J., Leeds, North Dakota.  
4 herbarium specimens — North Dakota.
- MAC DOUGAL, D. T., Tucson, Arizona.  
2 photographs of Juliana — Mexico.  
9 economic specimens — Arizona.  
2 cactus candy specimens — Tucson, Arizona.
- MILLSPAUGH, C. F., Chicago.  
17 economic specimens.  
2 economic specimens — Japan.  
1 economic specimen — Jamaica.  
2 economic specimens — Mexico.  
1 economic specimen — Curacao.  
1 economic specimen — Florida.  
1 fruit specimen.  
3 herbarium specimens — Pennsylvania.
- MISSOURI BOTANICAL GARDEN, St. Louis, Missouri.  
1 description of *Calliearpa cinerea*.
- MITCHELL, J. C., Chicago.  
1 specimen strawberry fruits — Chicago.
- MYERS, G. W., Chicago.  
3 herbarium specimens — Colorado.
- NATAL BOTANIC GARDENS, Berea, Durban, Natal.  
133 herbarium specimens — various localities (exchange).
- N. Y. STATE HERBARIUM, Bronx Park, New York.  
1 economic specimens — Bahamas, Jamaica, and Mexico (exchange).  
213 herbarium specimens — Cuba and Bahamas (exchange).  
3 economic specimens — Java (exchange).  
774 herbarium specimens — Jamaica (exchange).  
6 herbarium specimens — Florida (exchange).  
133 herbarium specimens — Bermuda (exchange).  
333 herbarium specimens — Bahamas (exchange).  
1 herbarium specimens — Barbadoes (exchange).
- REEDER, S. E., Sparta, Illinois.  
27 herbarium specimens — Illinois.  
6 herbarium specimens — Missouri.
- REYNOLDS, MISS CARRIE A., Mayfair, Illinois.  
4 herbarium specimens — Illinois.  
3 herbarium specimens — Illinois.



False Door of Large Mastaba Tomb.

THE LIBRARY  
OF THE  
UNIVERSITY OF ILLINOIS



- ROTHROCK, J. T., West Chester, Pennsylvania.  
 1 steel engraving of Dr. Asa Gray.  
 1 photograph of John Bartram House.  
 1 photograph of C. S. Bradford.  
 1 photograph of *Quercus Muhlenbergii*.  
 1 photograph of M. Woronin.  
 1 photograph of Andre Michaux.  
 1 photograph of A. de Bary.  
 1 photograph of E. Stahl.  
 394 herbarium specimens — West Indies.
- ROWLEE, W. W., Ithaca, New York.  
 1 fruit specimen.
- ROYAL GARDENS, Kew, London, England.  
 1 specimen seeds — Niger River (exchange).
- RUSBY, H. H., New York City.  
 1 economic specimen — Holland.
- SMITH, H. H., Chicago.  
 4 economic specimens — Indiana.  
 2 herbarium specimens — Illinois.  
 2 economic specimens — Indiana.
- THE CHINA TEA ASSOCIATION, London, England.  
 18 samples of English breakfast teas — Hankow, China.
- THE JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J.  
 12 specimens illustrating steps in the manufacture of lead pencils.
- TRELEASE, WM., St. Louis, Missouri.  
 1 herbarium specimen — Mexico.
- UNITED STATES BUREAU OF PLANT INDUSTRY, Washington, D. C.  
 1 specimen macaroni wheat — South Dakota.
- UNIVERSITY OF CALIFORNIA, Berkeley, California.  
 173 herbarium specimens — Arizona (exchange).
- UNIVERSITY OF CHICAGO, Chicago.  
 303 herbarium specimens — Mexico.
- WERTER, P. J., Miami, Florida.  
 1 economic specimen — Florida.
- WRIGHT, WILBUR H., Chicago.  
 209 herbarium specimens — Illinois, Indiana, and Wisconsin.

#### DEPARTMENT OF GEOLOGY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

- AUSTRIAN, MRS. JOSEPH, Chicago.  
 322 specimens of minerals, fossils, etc.
- AYER, E. E., Chicago.  
 1 specimen asbestos — Ontario.  
 1 glaciated copper boulder, weight 22 lbs.— Lake Geneva, Wisconsin.
- BEEBE, J. O., Burlington, Iowa.  
 10 plaster casts of fossil crinoids.
- CATLIN, H. W., Oaxaca, Mexico.  
 5 specimens silver ore — Oaxaca, Mexico.

- CHAMBERS, THOMAS, Chicago  
 1 specimen glaucophane — Cripple Creek, Colorado.
- CHAMBERS, WM. J., Chicago  
 1 specimen hematite — Poland, Maine.
- COX, E. H., Fort Dodge, Iowa  
 1 specimen lake concretion — Fort Dodge, Iowa.
- DOWD, JOHN, Bristol, Illinois  
 1 leg bone of the deer — Bristol, Illinois.
- FARRINGTON, O. C., Chicago  
 1 specimen diamond, in matrix — Brazil (loan)  
 1 specimen crystalized topaz — New Hampshire (loan).
- FIELD, STANLEY, CRANE, R. T., Jr., McCORMICK, CYRUS H.,  
 PORTER, GEO. F.  
 1 specimen meteorite.

## FIELD MUSEUM OF NATURAL HISTORY

## Collected by O. C. Farrington

- 11 specimens ores and minerals of Washington, Idaho, and Alaska.
- 1 specimen volcanic dust — Alaska.
- 1 specimen trilobites — British Columbia.
- 1 specimen cretaceous fossils — Washington.
- 2 specimens fossil wolf — Los Angeles, California.
- 11 specimens rocks — Arizona and Oregon.
- 1 glaciated pebble — Homewood, Illinois.
- 1 specimen pyrrhotite — Oaxaca, Mexico.
- 2 specimens silver ore — Oaxaca, Mexico.
- 1 specimen copper ore — Oaxaca, Mexico.
- 1 specimen chert — Oaxaca, Mexico.
- 7 specimens rocks — Bermuda.
- 1 specimen pathologies — Bermuda.
- 4 specimens concretions — Bermuda.
- 1 specimen soil and sands — Bermuda.
- 1 specimen building stone — Bermuda.
- 110 specimens fossils — Bermuda.
- 7 specimens fossil shells — Yorkville, Illinois.

## Collected by J. P. Ferry

- 1 specimen magnetite — Margarita Islands, Venezuela.

## Collected by H. W. Nichols

- 25 specimens fossils, ores, and minerals — Bromide, Coal Co., Oklahoma.

## Collected by A. W. Slossom

- 11 specimens invertebrate fossils — Petoskey and Bay View, Michigan.
- 111 specimens invertebrate fossils — Wilmington, Illinois.
- 12 specimens invertebrate fossils — Cook County, Illinois.
- 1 specimen clay — Cook County, Illinois.
- 1 concretion — Cook County, Illinois.
- 11 specimens gels — Romeo, Illinois.
- 1 specimen invertebrate fossils — Cook County, Illinois.

- 2 specimens sandstone — Lemont, Illinois.  
 46 specimens invertebrate fossils — Cook County, Illinois.  
 1 specimen bitumen — Thornton, Illinois.  
 350 specimens Pleistocene shells — Willow Springs, Illinois.
- Purchases:
- 3 specimen slabs of crinoids — Le Grand, Iowa.  
 23 specimens crinoids (10 species) — Le Grand, Iowa.  
 1 slab *Uintacrinus socialis* — Beaver Creek, Logan Co., Kansas.  
 1 skeleton of fossil beaver (*Castoroides ohioensis*) — Fairmount, Indiana.  
 1 skull of mastodon with one tusk — Yorkville, Illinois.
- GAMBA, F. PEREIRA, Pasto, U. S. of Colombia.  
 11 specimens gold ores and associated rocks — Porvenir mine, Piedrancha.
- GEOLOGICAL SURVEY OF INDIA, Calcutta, India.  
 1 specimen Dokachi meteorite (exchange).  
 1 specimen Futtehpoor meteorite (exchange).
- GOFF, JOHN, Pontotoc, Mississippi.  
 45 specimens (2 species) fossil echinoids — Pontotoc, Mississippi.
- GOODALE, FRED, Bristol, Illinois.  
 1 specimen eroded limestone.
- GREBEL, WENDLER & COMPANY, Geneva, Switzerland.  
 1 specimen Buschhof meteorite (exchange).  
 10 specimens minerals (exchange).
- HOWLAND, LOUIS M., Paris, France.  
 7 specimens fossil sharks' teeth — Cavaillon, France.
- KENKEL, LOUIS V., Harper, Washington.  
 34 views of mines, caves, and rock formations — Montana and Washington.  
 16 photographs of Alaska glaciers.
- LIEBINGER, FELIX, Vienna, Austria.  
 2 maps of Dolomitic Alps.
- MILLAR, A. Q., Minneapolis, Minn.  
 3 specimens diamond-bearing peridotite — Pike Co., Arkansas.  
 2 specimens fuller's earth — Pike Co., Arkansas.
- NEWBERRY, W. W., Chicago.  
 5 specimens silicious oölite — Bromide, Oklahoma.  
 1 concretion — Bromide, Oklahoma.  
 2 pseudomorphs — Bromide, Oklahoma.  
 1 piece stalactite — Bromide, Oklahoma.  
 15 specimens fossils — Bromide, Oklahoma.
- NIPPON TOKI GOMEI KWAISHA, Noritake, Japan.  
 12 specimens clays and other minerals used in the manufacture of Japanese porcelain.
- SLOCOM, A. W., Chicago.  
 1 specimen jasper in hematite — Ishpeming, Michigan.
- TALBERT, JOS. T., Chicago.  
 6 specimens gilsonite — Utah.  
 1 specimen anthracite — Colorado.

WHEELER, JOHN A., Chicago:  
 1 specimen native copper — Lake Superior

## DEPARTMENT OF ZOOLOGY.

(SPECIMENS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

- ANNIS, N. P., Chicago:  
 2 fls. — Chicago
- BAKER, HENRY D., Hobart, Tasmania:  
 1 mounted platypus — Tasmania
- BLESS, RAYMOND E., Jr., Chicago:  
 2 fishes, mounted — Manitowish Waters, Wisconsin
- COALE, HENRY K., Highland Park, Illinois:  
 1 mink — Deerfield, Lake County, Illinois  
 1 deer mouse — Highland Park, Illinois
- DEVILIER, L., Chicago:  
 2 fls. — Hessville, Indiana.  
 2 beetle — Hessville, Indiana.
- DEWEY, C. L., Chicago:  
 1 turtle — Dowagiac, Michigan.
- DOHMAN, U. A., Chicago:  
 1 bee — Chicago.  
 1 beetle-larva — Chicago.  
 1 bumblebee — Chicago.
- DORSEY, GEO. A., Chicago:  
 1 paradise bird — Solomon Islands  
 1 kangaroo — Solomon Islands.  
 1 sasana — Solomon Islands
- FERRY, J. F., Chicago:  
 1 bat — Chicago.  
 1 moth — Port Lamar, Margarita
- FIELD MUSEUM OF NATURAL HISTORY
- Collected by C. E. Akeley:  
 1 millipede — Voi, British East Africa  
 1 bug — Tana River, British East Africa  
 1 beetle — Tana River, British East Africa
- Collected by E. B. Chapin:  
 211 dragonflies, grasshoppers, bugs, beetles, flies, moths and bees,  
 wasps, etc. — Illinois and Wisconsin.  
 581 spiders, dragonflies, grasshoppers, bugs, butterflies, moths,  
 beetles, flies and bees, wasps, etc. — Northern Illinois.
- Collected by Geo. A. Dorsey:  
 1 new frog toad — Interior of Bougainville, Solomon Islands.
- Collected by J. F. Ferry:  
 100 flies — Venezuela, South America.  
 100 bees — Venezuela, South America.  
 1 frog — Venezuela, South America.

- 1 turtle — Venezuela, South America.
- 31 fishes — Venezuela, South America.
- 1 frog — Quill Lake, Saskatchewan.
- 17 mammals — Saskatchewan.
- 1 moth — Margarita Islands.
- 835 bird skins — Margarita Islands.
- 15 mammal skins, 1 butterfly, 1 centipede — Margarita Islands.
- 195 bird skins — Saskatchewan.
- 36 sets of eggs (with nests) 192 eggs — Saskatchewan.
- 27 nests (without eggs)— Saskatchewan.

Collected by Julius Friesser:

- 208 grasshoppers, bugs, beetles and bees, wasps, etc.— Mexico.

Collected by W. J. Gerhard:

- 735 spiders, nerve-wings, grasshoppers, dragonflies, bugs, beetles, butterflies, moths, flies and bees, wasps, and parasites—Northern Illinois and Northern Indiana.

- 1 lizard — Olive Branch, Illinois.

Collected by S. F. Hildebrand:

- 168 fishes — Stendal and Pikeville, Indiana.
- 71 reptiles — Stendal and Pikeville, Indiana.
- 1 millipede — Pikeville, Indiana.

Collected by O. E. Lansing:

- 1 beetle — Starved Rock, Illinois.

Collected by S. E. Meek and W. Heim:

- 360 fishes — Dry Tortugas, Florida.
- 942 fishes — Key West, Florida.
- 5 lizards — Key West, Florida.

Collected by L. L. Pray:

- 3 fox squirrel skins — Tallulah, Louisiana.
- 4 gray squirrel skins — Tallulah, Louisiana.
- 5 black fur squirrels — Tallulah, Louisiana.
- 5 mice — Tallulah, Louisiana.
- 12 squirrels — Tallulah, Louisiana.
- 5 mice — Tallulah, Louisiana.
- 2 bird skins — Tallulah, Louisiana.
- 1 turkey buzzard — Tallulah, Louisiana.
- 1 pileated woodpecker — Tallulah, Louisiana.

Collected by V. Shelford and S. F. Hildebrand:

- 254 fishes — Illinois.
- 4 turtles.
- 3 snakes.
- 3 frogs.

Collected by A. B. Wolcott:

- 533 dragonflies, grasshoppers, bugs, moths, beetles, flies and bees, wasps, etc.— Illinois and Indiana.

Purchases:

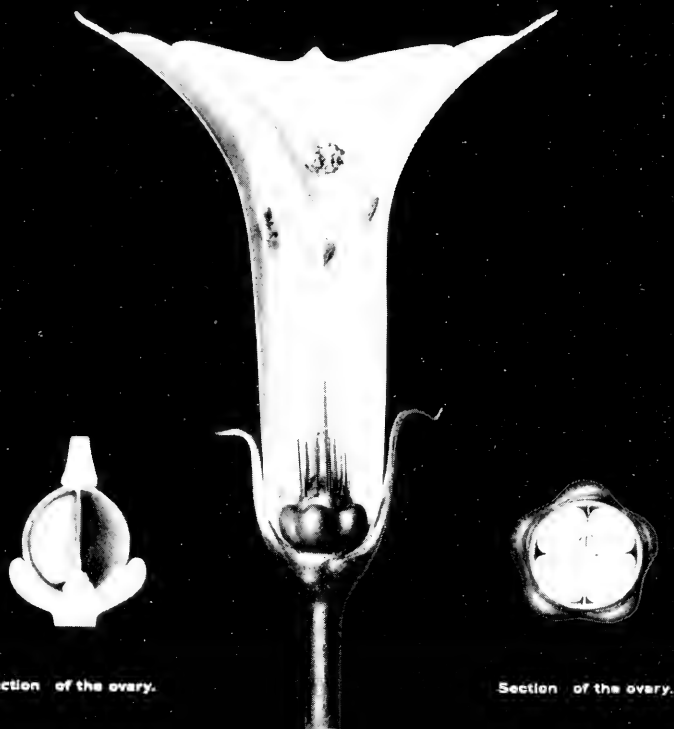
- 5 mounted reptiles as follows: 1 snake, 1 frog, 1 toad and 2 lizards — Europe.

- 1 small rodent — Darjeeling, India  
 4 beetles — Darjeeling, India  
 10 moths — Darjeeling, India  
 218 butterflies — Darjeeling, India  
 3 monkeys — British Guiana  
 1 porcupine — British Guiana  
 1 paca — British Guiana  
 1 agouti — British Guiana  
 1 bracket — British Guiana  
 1 dog — British Guiana  
 1 jaguar — British Guiana  
 1 ocelot — British Guiana  
 12 squirrels, muskrats, mice, minks, weasels, moles, and shrews,  
     2 flying lizards — Palawan, Philippine Islands  
 218 shells — Palawan, Philippine Islands  
 112 butterflies — Palawan, Philippine Islands  
 3 moths — Palawan, Philippine Islands  
 1 mantis — Palawan, Philippine Islands  
 4 katydids — Palawan, Philippine Islands  
 6 bees, parasites, etc. — Palawan, Philippine Islands  
 14 beetles — Palawan, Philippine Islands  
 2 sowbugs — Palawan, Philippine Islands  
 2 spiders — Palawan, Philippine Islands  
 1 mountain goat skin  
 1 porpoise  
 1 spoon bill cat fish — Scotts, Arkansas  
 1231 fishes — various localities  
 1 golden eagle — Bozeman, Montana  
 11 bird skins — Darjeeling, India.  
 1 wild turkey — Missouri.  
 18 bird skins — Jamaica, West Indies  
 142 ducks, ibises, toucans, tinamous, parrots, hawks, woodpeckers,  
     humming-birds, and others mostly small passerine birds —  
     British Guiana.  
 1 American rough leg hawk — Geneva, Illinois.  
**FREEBURG, GUS**, Liverpool, Indiana  
 2 snakes — Liverpool, Indiana.  
**FRIESSER, JULIUS**, Chicago.  
 10 beetles, flies, and specimens of scale insects — Illinois and Michi-  
     gan  
 1 turtles — McHenry, Illinois  
**GERHARD, WM. J.**, Chicago.  
 16 grasshoppers, crickets, etc. — Eastern Pennsylvania, Southern  
     New Jersey, and Maryland  
**GLYNN, PETER**, Chicago  
 1 salamander — Downer's Grove, Illinois.  
**GREGOR, DARLING K.**, Fulton, Missouri  
 21 lizards — Oklahoma  
 7 frogs — Oklahoma

- GUERET, E. N., Chicago.  
1 short eared owl — Grass Lake, Illinois.  
4 red wing black birds — Grass Lake, Illinois.  
1 rusty black bird — Grass Lake, Illinois.  
1 snake — Wauconda, Lake County, Illinois.
- HARDEE, F. E., Chicago.  
1 snake — India.  
1 skeleton of snake.
- HELLER, ISIDORE, Chicago.  
1 owl (mounted).  
1 cormorant (mounted).
- HILDEBRAND, S. F., Chicago.  
1 beetle — Chicago.  
2 scorpions — Globe, Arizona.  
5 lizards — Globe, Arizona.
- HOWE, MURRAY, Chicago.  
2 skulls of bear — Alaska.
- HURTER, JULIUS, St. Louis, Missouri.  
19 reptiles (exchange).
- JACKSON, H. H. T., Madison, Wisconsin.  
3 owls, 2 shorebirds, 1 bobwhite, 2 woodpeckers, 8 passerine birds —  
Wisconsin (exchange).
- KWIAT, ALEX., Chicago.  
1 fly — Palos Park, Illinois.
- MCCOY, G. W., San Francisco, California.  
5 rats — San Francisco, California.  
1 mole — San Francisco, California.  
1 weasel — San Francisco, California.  
15 fleas — San Francisco, California.
- McINTYRE, G., Walworth, Wisconsin.  
6 moths — Walworth, Wisconsin.
- MOULTON, MRS. G. M., Chicago.  
1 spine of catfish — Caribbean Sea.
- MUNZNER, H., Chicago.  
1 bumblebee — Chicago.
- OSGOOD, W. H., Chicago.  
1 skunk skull.  
1 raccoon skull.
- PARK FISHERMEN, Jackson Park, Chicago.  
1 turtle — Jackson Park, Chicago.
- RADDATZ, R. C., Chicago.  
2 woodchuck skulls — Dry Bay, Alaska.
- RAVEN, HENRY F., Simon, Costa Rica.  
1 squirrel skin — Simon, Costa Rica.  
1 oriole — Cumana, Venezuela.  
1 parrot — Cumana, Venezuela.  
47 bird skins — Costa Rica and Venezuela.
- SETON, ERNEST T., Cos Cob, Connecticut.  
16 mice and shrews.

- GILBERT, HENRY, Philadelphia, Pennsylvania.  
   2 butterflies — Ft. Wingate, New Mexico.
- SMITH, C. F., Chicago.  
   8 swamps — San Carlos, Vera Cruz, Mexico.  
   1 Yeez — Chicago.  
   1 Katydid — Palos Park, Illinois.  
   1 Yeez — Chicago, Illinois.
- SMITH, AUSTIN PAUL, Brownsville, Texas.  
   1 rock wren — Brownsville, Texas.  
   1 cardinal — Brownsville, Texas.  
   1 titmouse — Brownsville, Texas.  
   1 sparrow — Brownsville, Texas.  
   1 warbler — Brownsville, Texas.  
   1 water thrush — Brownsville, Texas.
- STEVENS, MRS. A., Chicago.  
   1 beetle — Chicago.
- THAYER MUSEUM, Lancaster, Massachusetts.  
   41 sets of bird's eggs including 73 eggs — Lower California
- THOMPSON, S. L., Chicago.  
   1 ichneumon fly — Chicago.
- TUTTLE, MRS. M.  
   10 bryozoans — Santa Cruz, California.
- UNITED STATES DEPARTMENT OF COMMERCE AND LABOR  
 Washington, D. C.  
   10 fresh-water shells — various localities.
- UNITED STATES EXPRESS COMPANY, Chicago.  
   1 monkey.
- UNITED STATES NATIONAL MUSEUM, Washington, D. C.  
   2 squirrels — Venezuela (exchange).
- WEBER, C. M., Palawan, Philippine Islands.  
   2 shells — Tara Islands, Palawan.  
   1 shell — Bacuit, Palawan.  
   1 shells — Coron Islands, Palawan.  
   1 shell — Binga, Mt. Capoas, Palawan.  
   1 shell — Palawan.
- WILLARD, F. C., Tombstone, Arizona.  
   1 snake — Tombstone, Arizona.
- WOLCOTT, A. B., Chicago.  
   1 moth — Chicago.  
   1 moth — North Evanston, Illinois.  
   1 beetle — New Harmony, Indiana.  
   1 wasp — New Harmony, Indiana.  
   1 beetle — West Pullman, Illinois.  
   1 fly — West Pullman, Illinois.





Section of the ovary.

Section of the ovary.

**ENLARGED FLOWER OF A MORNING GLORY.**

(*Ipomoea batatas*).

**ILLUSTRATING FAMILY CHARACTERISTICS.**

Floral Envelope.

Essential Organs.

**FLOWERS:** - Arranged singly or in clusters that spring from the axils of the leaves.

**CALYX:** - Of 5 separate sepals in two series the outer overlapping (to some degree at least) the inner.

**COROLLA:** - Of 5 petals, completely united into a bell-shaped or cylindrical, plaited corolla, the rim being mostly entire though sometimes lobed.

**STAMENS:** - 5, in two series one shorter than the other, the bases inserted upon the tube of the corolla, the anthers not rising above the rim.

**STYLE:** - Single, slender, tipped with a 2-lobed stigma.

**OVARY:** - (Partly invested by a lobed, fleshy disk) 2-3 celled (usually 2) with two ovules in each cell.

**SEEDS:** - With or without a long fringe of hairs on the angles.

Modelled (enlarged) from nature by B. E. Dahlgren, 1908.

Enlarged Model of a Convolvulaceous Flower.

LIBRARY  
OF THE  
UNIVERSITY OF ILLINOIS

## SECTION OF PHOTOGRAPHY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

DAYKIN BROTHERS, Cleveland, Ohio.

16 views of Bermuda scenery (exchange).

FIELD MUSEUM OF NATURAL HISTORY.

Made by C. H. Carpenter:

2,142 negatives, 6,917 prints, 1,273 lantern slides, 53 enlargements,  
84 Lumiere Autochrome photographs, 875 negatives developed.

Made by F. C. Cole:

6 portraits of natives, etc. — Philippine Islands.

Made by O. C. Farrington:

54 negatives of general views — Bermuda Islands.

24 negatives of general views — Mexico.

18 negatives of general views — California and Arizona.

Made by J. F. Ferry:

300 negatives of general views — Saskatchewan.

Made by S. E. Meek:

84 negatives of fishes, views, etc.— Florida.

Made by W. H. Osgood:

4 negatives of landscapes — South Chicago.

Made by H. H. Smith:

12 portraits of trees — Chicago.

146 portraits of trees, landscapes, etc.— West Virginia.

36 portraits of trees, landscapes, etc.

Purchases:

721 portraits, views, landscapes, etc.

465 portraits of mammals.

80 views of India and types of natives.

6 colored lantern slides — Bermuda.

10 lantern slides — Bermuda.

32 lantern slides — Bermuda and the Colorado River.

34 lantern slides — Alaska.

SKIFF, FREDERICK J. V., Chicago.

9 portraits of living mammals.

UNITED STATES NATIONAL MUSEUM, Washington, D. C.

1 portrait of adult walrus.

## THE LIBRARY.

## BOOKS, PAMPHLETS, AND SERIALS.

(ACCESSIONS ARE BY EXCHANGE UNLESS OTHERWISE DESIGNATED.)

ABERDEEN UNIVERSITY, Aberdeen, Scotland.

1 reprint.

ADAMS, F. D. T., Montreal, Canada.

1 pamphlet.

ALABAMA AGRICULTURAL EXPERIMENT STATION, Auburn, Ala-  
bama.

Bulletin, current numbers (gift).

- ALLEN, J. V., New York City.  
2 reprints.
- AMANT BIOLOGISCH LANDWIRTSSCHAFT-INSTITUT, Deutsch Osta-  
frika.  
Der Pflanzenz., v. 3, no. 1-8.
- AMERICAN ACADEMY OF ARTS AND SCIENCES, Boston, Massachu-  
setts.  
Proceedings, current numbers.
- AMERICAN ANTIQUARIAN SOCIETY, Boston, Massachusetts.  
Proceedings, current numbers.
- AMERICAN ASSOCIATION OF MUSEUMS, Pittsburgh, Pennsylvania.  
Proceedings, v. 2, 1908.
- AMERICAN CHEMICAL JOURNAL PUBLISHING COMPANY, Balti-  
more, Maryland.  
Journal, current numbers.
- AMERICAN FOLK-LORE SOCIETY, Cambridge, Massachusetts.  
Journal, current numbers.
- AMERICAN GEOGRAPHICAL SOCIETY, New York City.  
Bulletin, current numbers.
- AMERICAN INSTITUTE OF MINING ENGINEERS, New York City.  
Transactions, v. 30, 1908.  
Yearbook, 1909.
- AMERICAN MINING CONGRESS, Denver, Colorado.  
Report of proceedings, 11th annual session, 1908 (gift).
- AMERICAN MUSEUM OF NATURAL HISTORY, New York City.  
13 publications.
- AMERICAN ORIENTAL SOCIETY, New Haven, Connecticut.  
Journal, v. 29.
- AMERICAN PHILOSOPHICAL SOCIETY, Philadelphia.  
Proceedings, current numbers.
- AMES BOTANICAL LABORATORY, Easton, Pennsylvania.  
Contributions, no. 9.
- AMSTERDAM DUTCH ROYAL GEOGRAPHICAL SOCIETY, Amsterdam,  
Netherlands.  
Zandvoort New-Guinea Expeditie, 1904-5.
- AMSTERDAM K. AKADEMIE VAN WETENSCHAPPEN, Amsterdam,  
Netherlands.  
4 publications.
- ANGERS SOCIÉTÉ D'ÉTUDES SCIENTIFIQUES, Angers, France.  
Bulletin, v. 37.
- ANGERS SOCIÉTÉ NATIONALE D'AGRICULTURE, SCIENCES ET  
ARTS, Angers, France.  
Mémoires, v. 15.
- ANNALES DES MINES, Paris, France.  
Current numbers.
- ANTHROPOLOGICAL INSTITUTE OF GREAT BRITAIN AND IRE-  
LAND, London, England.  
Journal, current numbers.

- ARCHAEOLOGICAL INSTITUTE OF AMERICA, New York City.  
American journal of archaeology, current numbers.  
Index, vol. 1-10.
- ARCHIV FÜR RELIGIONSWISSENSCHAFT, Leipzig, Germany.  
Current numbers.
- ARCTOWSKI, HENRY K., Melle, Belgium.  
1 pamphlet (gift).
- ARDENNES. SOCIÉTÉ D'HISTOIRE NATURELLE, Ardennes, France.  
Bulletin, current numbers.
- ARIZONA AGRICULTURAL EXPERIMENT STATION, Tucson, Arizona.  
Annual report, no. 19, 1908.  
Bulletin, current numbers.
- ARKANSAS AGRICULTURAL EXPERIMENT STATION, Fayetteville, Arkansas.  
Bulletin, current numbers.
- ARMOUR INSTITUTE OF TECHNOLOGY, Chicago.  
2 publications.
- ASIATIC SOCIETY OF BENGAL, Calcutta, India.  
Proceedings, current numbers.
- ASSOCIATION OF ENGINEERING SOCIETIES, Philadelphia.  
Journal, current numbers.
- ATKINSON, GEORGE F., Ithaca, New York.  
3 reprints.
- AUGSBURG NATURHISTORISCHER VEREIN, Augsburg, Germany.  
Bericht, 1908.
- AUSTRALASIAN ASSOCIATION FOR ADVANCEMENT OF SCIENCE, Adelaide, Australia.  
Report, no. 11, 1907.
- AUSTRALIAN MUSEUM, Sydney, New South Wales.  
Report, 1908.  
4 publications.
- AYER, EDWARD E., Chicago.  
4 volumes (gift).
- AZAMBUJA DE, GRACIANO A., Porto Alegre, Brazil.  
1 publication.
- BAKER, HENRY D., Hobart, Tasmania.  
3 pamphlets (gift).
- BALCH, E. S., Philadelphia.  
1 pamphlet.
- BARBER, EDWIN ATLEE, Philadelphia.  
1 publication.
- BATAVIAASCHE GENOOTSCHAP VAN KUNSTEN EN WETENSCHAPPEN, Batavia, Java.  
Tijdschrift, v. 51, no. 3-4.  
Verhandelingen, v. 57.
- BATH NATURAL HISTORY AND ANTIQUARIAN FIELD CLUB.  
Bath, England.  
Proceedings, v. 11, no. 3.

- MÜNCHEN. ORNITHOLOGISCHE GESELLSCHAFT, Munich, Germany.**  
 Mitteilungen, current numbers.  
 Verhandlungen, v. 8.
- NORTHERN NATURAL HISTORY AND PHILOSOPHICAL SOCIETY**  
 Belfast, Ireland.  
 Proceedings, 1917-8.
- NORTHERN NATURALISTS' FIELD CLUB, Belfast, Ireland.**  
 Proceedings, current numbers.
- REDFIELD COLLEGE, Beloit, Wisconsin.**  
 Catalogue, 1918-9.
- BERGENS MUSEUM, Bergen, Norway.**  
 publications.
- BERLIN. DEUTSCHE GEOLOGISCHE GESELLSCHAFT, Berlin, Germany.**  
 Monatschrift, current numbers.  
 Zeitschrift, current numbers.
- BERLIN. DEUTSCHE GESELLSCHAFT FÜR ANTHROP., ETHNOL. UND URGS., Berlin, Germany.**  
 Zeitschrift für ethnologie, current numbers.
- BERLIN. DEUTSCHE GESELLSCHAFT FÜR ERDKUNDE, Berlin, Germany.**  
 Bibliotheca geographica, v. 14.  
 Zeitschrift, current numbers.
- BERLIN. DEUTSCHE GESELLSCHAFT FÜR VOLKSTÜMLICHE, Berlin, Germany.**  
 Naturwissenschaften, current numbers.
- BERLIN. DEUTSCHE UNIVERSITÄT, Berlin, Germany.**  
 Jahresverzeichnis, v. 23.
- BERLIN. K. BIBLIOTHEK, Berlin, Germany.**  
 Jahresbericht, 1918-9.
- BERLIN. K. BOTANISCHER GARTEN UND MUSEUM, Berlin, Germany.**  
 Notizblatt, nos. 44, 45.
- BERLIN. K. PREUSSISCHE AKADEMIE DER WISSENSCHAFTEN, Berlin, Germany.**  
 Sitzungsberichte, current number.
- BERLIN. VEREIN FÜR VOLKSKUNDE, Berlin, Germany.**  
 Zeitschrift, current numbers.
- BERLIN. ZOOLOGISCHES MUSEUM, Berlin, Germany.**  
 Bericht, 1918.  
 Mitteilungen, current numbers.
- BERN. UNIVERSITÄT, Bern, Switzerland.**  
 Jahresbericht, 1918.
- BONNI. KAWAHI BISHOP MUSEUM, Honolulu, Hawaiian Islands.**  
 publications.
- BOHEM. NATURWIS. LANDESDURCHFORSCHUNG, Prag, Austria.**  
 Archiv, 1918, no. 1, v. 14, no. 2.
- ROMAN. FIELD, Pavia, Pavia, Italy.**  
 Annuario, 1918, 1919, in press.

- BOMBAY ANTHROPOLOGICAL SOCIETY, Bombay, India.  
Journal, current numbers.
- BONN. NATURHISTORISCHER VEREIN, Bonn, Germany.  
Sitzungsberichte, 1908.  
Verhandlungen, v. 65, pt. 1.
- BORDEAUX. SOCIÉTÉ LINNÉENE, Bordeaux, France.  
Procès-verbaux, v. 62.
- BOSTON MUSEUM OF FINE ARTS, Boston, Massachusetts.  
5 publications.
- BOSTON PUBLIC LIBRARY, Boston, Massachusetts.  
Annual report, no. 57, 1908-9.
- BOSTON SOCIETY OF NATURAL HISTORY, Boston, Massachusetts.  
3 publications.
- BOSTON TRANSIT COMMISSION, Boston, Massachusetts.  
Annual report, no. 14, 1908.
- BOSTON UNIVERSITY, Boston, Massachusetts,  
President's report, 1907-8.  
Yearbook, v. 36.
- BOWDOIN COLLEGE, Brunswick, Maine.  
Catalogue, 1908-1909.  
Librarian's report, 1908-9.
- BRAND, CHARLES J., Washington, D. C.  
Guide to modern Peru (gift).
- BRANDEGEE, T. S., Berkeley, California.  
1 separate.
- BRANDENBURG BOTANISCHER VEREIN, Brandenburg, Germany.  
Verhandlungen, v. 50.
- BRAUNSCHWEIG VEREIN FÜR NATURWISSENSCHAFT, Braunschweig, Germany.  
Jahresbericht, no. 14.
- BREMEN. NATURWISSENSCHAFTLICHER VEREIN, Bremen, Germany.  
1 publication.
- BRIGHTON AND HOVE NATURAL HISTORY AND PHILOSOPHICAL SOCIETY, Brighton, England.  
Abstracts of papers and annual report, 1908.
- BRISTOL MUSEUM AND ART GALLERY, Bristol, England.  
Report, 1908.
- BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.  
London, England.  
Report, Dublin meeting, 1908.
- BRITISH COLUMBIA LEGISLATIVE ASSEMBLY, Victoria, British Columbia.  
Sessional papers, 1908, 1909.
- BRITISH COLUMBIA MINISTER OF MINES, Victoria, British Columbia.  
Annual report, 1908.
- BRITISH COLUMBIA PROVINCIAL MUSEUM, Victoria, British Columbia.  
Visitors' guide.

- FIELD MUSEUM OF NATURAL HISTORY, London, England  
 1911-1912-13.
- NEW YORK INSTITUTE OF ARTS AND SCIENCES, Brooklyn, New York  
 1911-1912-13.
- ÖSTERREICHISCH-UNGARISCHES K. U. K. LANDWIRTSCHAFTLICHES LANDESVERSUCHSSTATION FÜR PFLANZENKULTUR, Brunn, Austria  
 1911-1912-13.
- ÖSTERREICHISCH-UNGARISCHES K. U. K. NATURFORSCHENDER VEREIN, Brunn, Austria  
 1911-1912-13.
- BRUSSELS, ACADEMIE ROYALE DES SCIENCES, DES LETTRES ET DES BEAUX ARTS, Brussels, Belgium  
 1911-1912-13.  
 Bulletins, current numbers.
- BRUSSELS, JARDIN BOTANIQUE DE L'ETAT, Brussels, Belgium  
 1911-1912-13.  
 Flore et végétation en Belgique.
- BRUSSELS, MUSÉE ROYALE D'HISTOIRE NATURELLE, Brussels, Belgium  
 1911-1912-13.  
 1911-1912-13.  
 extraits.
- BRUSSELS, SOCIÉTÉ D'ARCHÉOLOGIE, Brussels, Belgium  
 Annales, current numbers.  
 Annuaire, v. 27.
- BRYN MAWR COLLEGE, Bryn Mawr, Pennsylvania  
 Calendar, 1910.  
 Monographs, reprint series, v. 7.
- BUDAPEST, SOCIÉTÉ ROYALE HONGROISE DES SCIENCES NATURELLES, Budapest, Hungary  
 1911-1912-13.  
 Annales, current numbers.
- BUENOS AIRES, FACULTAD DE FILOSOFIA Y LETRAS, Buenos Aires, Argentina  
 1911-1912-13.  
 Publicaciones, nos. 1-3.
- BUENOS AIRES, MUSEO DE FARMACOLOGIA, Buenos Aires, Argentina  
 1911-1912-13.  
 1911-1912-13.  
 1911-1912-13.
- BUENOS AIRES, MUSEO NACIONAL, Buenos Aires, Argentina  
 1911-1912-13.  
 Anales, ser. 1, 1-17.  
 1911-1912-13.  
 1911-1912-13.
- BUFFALO PUBLIC LIBRARY, Buffalo, New York  
 Annual report, no. 12.
- BUFFALO SOCIETY OF NATURAL SCIENCES, Buffalo, New York  
 1911-1912-13.  
 Bulletin, current numbers.
- BUITENZORG, DEPARTMENT OF AGRICULTURE, Buitenzorg, Java  
 1911-1912-13.  
 Bulletin, current numbers.  
 1911-1912-13.
- BUITENZORG, ISLANDS PLANTENTUIN, Buitenzorg, Java  
 1911-1912-13.  
 1911-1912-13.
- BURMA, ARCHAEOLOGICAL SURVEY, Burma, India  
 1911-1912-13.  
 Reports, 1911-13.



- CALCUTTA. ROYAL BOTANIC GARDENS, Calcutta, India.  
Annals, v. 11.
- CALIFORNIA ACADEMY OF SCIENCES, San Francisco, California.  
Proceedings, current numbers.
- CALIFORNIA AGRICULTURAL EXPERIMENT STATION, Berkeley, California.  
Bulletin, current numbers.  
Circulars, current numbers.
- CALIFORNIA STATE LIBRARY, Sacramento, California.  
Biennial report, 1906-1908.  
Occasional papers, current numbers.
- CALIFORNIA STATE MINING BUREAU, San Francisco, California.  
Bulletin, 46, 50-53.  
Map.  
Report, Board of Trustees, 1908.
- CALIFORNIA UNIVERSITY, Berkeley, California.  
32 publications.
- CALL, R. ELLSWORTH, New York City.  
6 publications.
- CAMBRIDGE ANTIQUARIAN SOCIETY, Cambridge, England.  
List of members, etc., 1909.  
Proceedings, current numbers.
- CAMBRIDGE MUSEUM AND LECTURE ROOMS SYNDICATE, Cambridge, England.  
Annual report, no. 43, 1908.
- CAMBRIDGE PHILOSOPHICAL SOCIETY, Cambridge, England.  
Proceedings and transactions, current numbers.
- CAMBRIDGE PUBLIC LIBRARY, Cambridge, Massachusetts.  
Annual report, 1908-9.  
Bulletin, current numbers.
- CAMBRIDGE UNIVERSITY LIBRARY, Cambridge, England.  
Report, 1908.
- CAMERANO, LORENZO, Milano, Italy.  
4 pamphlets.
- CAMPINAS CENTRO DE CIENCIAS, Sao Paulo, Brazil.  
Revista, current numbers.
- CANADA. BOTANICAL SOCIETY, Halifax, Nova Scotia.  
Report, 1906-7, 1907-8.  
3 pamphlets.
- CANADA. GOVERNMENT OF, Ottawa, Canada.  
8 reports.  
17 topographical sheets.  
4 maps.
- CANADA. ROYAL SOCIETY, Ottawa, Canada.  
Proceedings and transactions, 3d. ser., v. 2.
- CANADIAN INSTITUTE, Toronto, Canada.  
Transactions, v. 8, no. 3.

- CAPE OF GOOD HOPE DEPARTMENT OF AGRICULTURE, Cape Town, South Africa  
13 publications
- CAPE TOWN GOVERNMENT ENTOMOLOGIST, Cape Town, South Africa  
Report, 1928
- CARDIFF NATURALISTS' SOCIETY, Cardiff, Wales  
Transactions, v. 41
- CARDIFF PUBLIC LIBRARIES, Cardiff, Wales  
Annual report, no. 46, 1927-8
- CARNEGIE FOUNDATION FOR THE ADVANCEMENT OF TEACHING, New York City  
Annual report 1928 (gift)
- CARNEGIE INSTITUTE, Pittsburgh, Pennsylvania  
4 publications
- CARNEGIE LIBRARY OF PITTSBURGH, Pittsburgh, Pennsylvania  
Annual report, no. 13, 1929  
Bulletin, current numbers
- CARNEGIE MUSEUM, Pittsburgh, Pennsylvania  
3 publications
- CARPENTER, G. H., Dublin, Ireland  
Irish naturalist, current numbers
- CARTHAGE INSTITUTE, Tunis, Africa  
Revue tunisienne, current numbers
- CASSON, HERBERT N., Chicago  
1 publication (gift)
- CATANIA ACCADEMIA GIOENIA DI SCIENZE NATURALI, Catania, Italy  
Bollettino, current numbers
- CETTE UNIVERSITÉ DE MONTPELLIER, INSTITUT DE ZOOLOGIE, Cette, France  
Memoire, no. 17
- CEYLON AGRICULTURAL SOCIETY, Colombo, India  
9 publications
- CEYLON ROYAL BOTANIC GARDENS, Peradeniya, Ceylon  
9 publications
- CHARLESTON MUSEUM, Charleston, South Carolina  
7 publications
- CHICAGO ACADEMY OF SCIENCES, Chicago  
3 publications
- CHICAGO ART INSTITUTE, Chicago  
12 publications
- CHICAGO COMMERCIAL CLUB, Chicago  
Plan of Chicago (gift)
- CHICAGO HISTORICAL SOCIETY, Chicago  
Annual report, 1928
- CHICAGO PUBLIC LIBRARY, Chicago  
6 publications

- CHICAGO. SOUTH PARK COMMISSIONERS, Chicago.  
Report, 1906-1908.
- CHICAGO UNIVERSITY, Chicago.  
70 publications.
- CHILE. BIBLIOTECA NACIONAL, Santiago de Chile.  
27 publications.
- CHRISTIANIA MINERALOGICAL INSTITUTE, Christiania, Norway.  
3 publications.
- CINCINNATI MUSEUM ASSOCIATION, Cincinnati, Ohio.  
Annual report, 1908.
- CINCINNATI PUBLIC LIBRARY, Cincinnati, Ohio.  
8 publications.
- CINCINNATI UNIVERSITY, Cincinnati, Ohio.  
15 publications.
- CLARK UNIVERSITY, Worcester, Massachusetts.  
5 publications.
- CLARKE, JOHN M., Albany, New York.  
1 bulletin.
- CLEVELAND PUBLIC LIBRARY, Cleveland, Ohio.  
5 publications.
- COGNIAUX, A.  
4 separates.
- COIMBRA UNIVERSITY LIBRARY, Coimbra, Portugal.  
Boletin, current numbers.
- COLBY COLLEGE, Waterville, Maine.  
Catalogue, 1908-9.
- COLE, FAY COOPER, Chicago.  
1 pamphlet.
- COLLEGIÓ DE S. FIEL, S. Fiel, Portugal.  
Broteria, current numbers.
- COLLIERY ENGINEER COMPANY, Scranton, Pennsylvania.  
Mines and minerals, current numbers.
- COLLINGE, WALTER E., Berkhamsted, England.  
5 reprints.
- COLMAR. SOCIÉTÉ D'HISTOIRE NATURELLE, Colmar, Germany.  
Mitteilungen, B. 9, 1907-8.
- COLN. RAUTENSTRAUCH-JOEST-MUSEUM FÜR VOLKERKUNDE,  
Cologne, Germany.  
Ethnologica, v. 1.
- COLOMBO MUSEUM, Colombo, India.  
Administrative report, 1908.  
Spolia zeylanica, current numbers.
- COLORADO BUREAU OF MINES, Denver, Colorado.  
Report, 1907-8.
- COLORADO COLLEGE, Colorado Springs, Colorado.  
Studies, science ser., current numbers.
- COLORADO STATE AGRICULTURAL COLLEGE, Fort Collins, Colorado.  
16 publications.

- COLORADO STATE HISTORICAL AND NATURAL HISTORY SOCIETY, Denver, Colorado.  
Biennial report, 1926-8.
- COLUMBIA UNIVERSITY, New York City.  
12 publications.
- CONCARNEAU, Laboratoire de zoologie et de physiologie maritimes, Concarneau, France.  
Travaux scientifiques, t. I, fasc. 2-5.
- CONCILIATION INTERNATIONALE, Paris, France.  
2 pamphlets.
- CONNECTICUT ACADEMY OF SCIENCE, New Haven, Connecticut  
Transactions, v. 15.
- CONNECTICUT AGRICULTURAL EXPERIMENT STATION, New Haven, Connecticut.  
Bulletin, current numbers.  
Report, no. 31-32, 1907-8.
- COOK, MELVILLE T., Newark, Delaware.  
5 reprints.
- COOPER ORNITHOLOGICAL CLUB, Hollywood, California.  
10 publications.
- COOPER UNION FOR THE ADVANCEMENT OF SCIENCE, New York City.  
Annual report, no. 50.
- COPENHAGEN BOTANIC GARDEN, Copenhagen, Denmark.  
9 publications.
- COPENHAGEN, K. BIBLIOTHEK, Copenhagen, Denmark.  
Aarsberetning, 1906-1909.
- COPENHAGEN NATURHISTORISK FORENING, Copenhagen, Denmark.  
Videnskabelige meddelelser, 1908.
- CORNELL UNIVERSITY, Ithaca, New York.  
Librarian's report, 1907-8.  
1 pamphlet.
- COSTA RICA MUSEO NACIONAL, San José, Costa Rica.  
6 publications.
- CROSS, WHITMAN, Washington, D. C.  
6 separates.
- CROYDON NATURAL HISTORY AND SCIENTIFIC SOCIETY, Croydon, England.  
Proceedings and transactions, 1907-8.
- CUBA, ESTACION CENTRAL AGRONOMICA, Santiago de las Vegas, Cuba.  
11 publications.
- CULLOM, S. M., Washington, D. C.  
Official register, U. S., v. 1-2.
- CZERNOWITZ, K. K. FRANZ JOSEPH UNIVERSITÄT, Czernowitz, Austria.  
4 reports.
- DARMSTADT VEREIN FÜR ERDKUNDE, Darmstadt, Germany.  
Notizblatt, 1928.



Slab of fossil crinoids (*Uintacrinus socialis*), showing more than 200 individuals. Size,  $7\frac{1}{2}$  x  $4\frac{1}{2}$  feet

THE LIBRARY  
OF THE  
UNIVERSITY OF ILLINOIS

- DELAWARE COLLEGE AGRICULTURAL EXPERIMENT STATION,  
Newark, Delaware.  
Bulletin, current numbers.
- DELAWARE COUNTY INSTITUTE OF SCIENCE, Media, Pennsylvania.  
Proceedings, current numbers.
- DENISON UNIVERSITY, Granville, Ohio.  
Bulletin, current numbers.
- DETROIT MUSEUM OF ART, Detroit, Michigan.  
Annual report, 1908.  
Bulletin, current numbers.
- DETROIT PUBLIC LIBRARY, Detroit, Michigan.  
Annual report, no. 44, 1908.  
Bulletin, no. 20.
- DEUTSCHE DENDROLOGISCHE GESELLSCHAFT, Bonn, Poppelsdorf.  
Mitteilungen, 1908, 1909.
- DEUTSCHER NATUR. MEDISIN. VEREIN FÜR BÖHMEN "LOTUS,"  
Prag, Austria.  
35 publications.
- DIAL PUBLISHING COMPANY, Chicago.  
Dial, current numbers.
- DIBBLEE, MRS. HENRY M., Lake Forest, Illinois.  
Parrots in captivity. 2 vols., Greene, W. T.
- DIXON, ROLAND B., Cambridge, Massachusetts.  
3 reprints.
- DORSEY, GEORGE A., Chicago.  
32 miscellaneous publications.
- DRESDEN. GENERAL-DIRECTION DER K. SAMMLUNGEN FÜR  
KUNST UND WISSENSCHAFT, Dresden, Germany.  
Bericht, 1906-7.
- DRESDEN. GESELLSCHAFT FÜR NATUR-UND HEILKUNDE,  
Dresden, Germany.  
Jahresberichte, 1907-8.
- DRESDEN. K. ZOOLOGISCHES UND ANTHROPOLOGISCH-ETH-  
NOGRAPHISCHES MUSEUM, Dresden, Germany.  
Abhandlungen und bericht, current numbers.
- DRESDEN. NATURWISSENSCHAFTLICHE GESELLSCHAFT "ISIS,"  
Dresden, Germany.  
Sitzungsberichte und abhandlungen, current numbers.
- DUBLIN NATIONAL MUSEUM OF SCIENCE AND ART, Dublin, Ire-  
land.  
List of Irish birds.  
Proceedings, current numbers.
- DUBLIN. ROYAL IRISH SOCIETY, Dublin, Ireland.  
Proceedings, current numbers.
- DUBLIN. ROYAL ZOOLOGICAL SOCIETY OF IRELAND, Dublin, Ire-  
land.  
Annual report, 1908.

- DUMFRIESSHIRE AND GALLOWAY NATURAL HISTORY AND ANTIQUARIAN SOCIETY, Dumfriesshire, Scotland.  
 1920-1921, and Journal of proceedings, v. 10, 20
- EARLE SCIENTIFIC AND MICROSCOPICAL SOCIETY, London.  
 1872-3.  
 Report and transactions, 1908-9
- EAST KENT SCIENTIFIC AND NATURAL HISTORY SOCIETY, East Kent, England.  
 Report and transactions, v. 8
- EDER, ROBERT, Mödling, Austria-Hungary.  
 1 publication, gift
- EDINBURGH GEOLOGICAL SOCIETY, Edinburgh, Scotland.  
 Transactions, v. 9, nos. 3-4
- EDINBURGH ROYAL BOTANIC GARDENS, Edinburgh, Scotland.  
 No. 6, 1928
- EDINBURGH ROYAL SCOTTISH MUSEUM, Edinburgh, Scotland.  
 Geologic collection of rocks.  
 Report, 1928
- EDINBURGH ROYAL SOCIETY, Edinburgh, Scotland.  
 Proceedings and transactions, current numbers
- EGYPT SURVEY DEPARTMENT, Giza, Egypt.  
 1 publication
- EIGENMANN, CARL H., Bloomington, Indiana.  
 1 separate
- ELBERFELD NATURWISSENSCHAFT VEREIN, Elberfeld, Germany.  
 Jahre Berichte, no. 12
- ELECTRO-CHEMICAL AND METALLURGICAL INDUSTRY PUBLISHING COMPANY, New York.  
 1 pamphlet
- ELISHA MITCHELL SCIENTIFIC SOCIETY, Chapel Hill, North Carolina.  
 Journal, current numbers
- ELLIS, HAVELOCK, Paris, France.  
 1 publication
- EMERSON, ALFRED, Chicago.  
 1 pamphlet, gift
- ENGINEERS, SOCIETY OF WESTERN PENNSYLVANIA, Pittsburgh, Pennsylvania.  
 Proceedings, current numbers
- ENOCH PRATT FREE LIBRARY, Baltimore, Maryland.  
 Annual report, no. 24, 1928.  
 Bulletin, v. 14
- ERFBERG, LEO, MME., Brussels, Belgium.  
 1 botanical publication, gift
- ESSEX INSTITUTE, Salem, Massachusetts.  
 1 publication
- EWART, ALFRED I., Melbourne, Australia.  
 1 pamphlet



- FARRINGTON, O. C., Chicago.  
 45 pamphlets.  
 3 maps.
- FESTA, E.  
 2 pamphlets.
- FIELD MUSEUM OF NATURAL HISTORY, Chicago.  
 585 books.  
 431 pamphlets (purchase).
- FLEMING, JAMES H.  
 2 reprints.
- FLORIDA AGRICULTURAL EXPERIMENT STATION, Tallahassee.  
 Florida.  
 Annual report, 1908.
- FLORIDA STATE GEOLOGICAL SURVEY, Tallahassee, Florida.  
 Bulletin, no. 1.  
 First report, 1907-8 (gift).
- FOOTE MINERAL COMPANY, Philadelphia, Pennsylvania.  
 Complete mineral catalogue (gift).
- FOREST AND STREAM PUBLISHING COMPANY, Chicago.  
 Forest and stream, current numbers.
- FRANKLIN INSTITUTE, Philadelphia, Pennsylvania.  
 Journal, current numbers.
- FREIBURG. K. SACHS. BERGAKADEMIE, Freiburg, Germany.  
 Program, 1909-10.
- FREIBURG. NATURFORSCHENDE GESELLSCHAFT, Freiburg, Ger-  
 many.  
 Bericht.
- FRENCH, GEORGE H., Carbondale, Illinois.  
 1 pamphlet.
- FRIEDLANDER, R. UND SOHN, Berlin, Germany.  
 Naturæ novitates, current numbers.
- FUR TRADE REVIEW, New York City.  
 Fur trade directory, 1909-10.
- FURBRINGER, M., Heidelberg, Germany.  
 1 publication.
- GENÈVE. CONSERVATOIRE ET JARDIN BOTANIQUES, Geneva,  
 Switzerland.  
 Annuaire, v. 11, 12.
- GENNEP, ARNOLD VAN, Paris, France.  
 2 publications.
- GENOA. MUSEO CIVICO STORIA NATURALE, Genoa, Italy.  
 Annali, current numbers.
- GEORGIA AGRICULTURAL EXPERIMENT STATION, Experiment,  
 Georgia.  
 Bulletin, current numbers.
- GEORGIA GEOLOGICAL SURVEY, Atlanta, Georgia.  
 Bulletin, nos. 18, 19.
- GERHARD, WILLIAM J., Chicago.  
 3 publications.

- GIESSEN, UNIVERSITÄT BIBLIOTHEK, Gießen, Germany.  
4. Dissertation.
- GILSON, GUSTAV, Brussels, Belgium.  
2 pamphlet.
- GLASGOW NATURAL HISTORY SOCIETY, Glasgow, Scotland.  
Transactions, current numbers.
- GIEERUP, C. W. K., Lund, Sweden.  
Botaniska Notiser, current numbers.
- GÖRLITZ NATURFORSCHENDE GESELLSCHAFT, Görlitz, Germany.  
Abhandlungen, B. 24, 25, 26.
- GÖTEBORG K. VETENSKAPS- OCH VETTERHETS-SAMHALLE,  
Göteborg, Germany.  
Handlingar, v. 10, 11.
- GÖTTINGEN K. GEORG-AUGUST-UNIVERSITÄT, Göttingen, Germany.  
Chronik, 1908.  
Verlag, 1909.
- GRAZ NATURWISSENSCHAFTLICHER VEREIN FÜR STEIRMARK,  
Graz, Germany.  
Mittellungen, 1908.
- GRAVES, F. P., Doe Run, Missouri.  
1 pamphlet (gift).
- GREAT BRITAIN GEOLOGICAL SURVEY, London, England.  
Summary of progress, 1908.
- GURNEY, J. H.  
3 reprints.
- HABANA BIBLIOTECA NACIONAL, Havana, Cuba.  
Revista, t. I, nos. 1-2.
- HABANA INSTITUTO DE SEGUNDA ENSEÑANZA, Havana, Cuba.  
Memoria annual, 1907-8.
- HAMBURG BOTANISCHE STAATSMUSEUM, Hamburg, Germany.  
Lehrerberichte, 1906-7.  
2 pamphlet.
- HAMBURG MUSEUM FÜR VOLKERKUNDE, Hamburg, Germany.  
Lehrbuch, v. 23, with Beiheft, 1-7.
- HAMILTON COLLEGE, Clinton, New York.  
Annual register, 1908-9.
- HANNOVER STADT BIBLIOTHEK, Hannover, Germany.  
Kataloge, 1908.
- HARRINGTON, M. R.  
4 reprints.
- HARTFORD PUBLIC LIBRARY, Hartford, Connecticut.  
Annual report, no. 71.
- HARTLAND, E. SYDNEY, Gloucester, England.  
1 pamphlet (gift).
- HARVARD COLLEGE, Cambridge, Massachusetts.  
Museum of Comparative Zoology.  
Annual report, 1907-8.  
Bulletin, current numbers.

- HARVARD UNIVERSITY, Cambridge, Massachusetts.  
 Catalogue, 1908-9.  
 Official register, 1907-8.
- HASSE, C., Berlin, Germany.  
 1 pamphlet.
- HATCH AGRICULTURAL EXPERIMENT STATION, Amherst, Massachusetts.  
 Bulletin, current numbers (gift).
- HAWAII AGRICULTURAL EXPERIMENT STATION, Honolulu, Hawaiian Islands.  
 Annual report, 1908.  
 Bulletin, current numbers.
- HAWAIIAN SUGAR PLANTERS ASSOCIATION, Honolulu, Hawaiian Islands.  
 5 publications.
- HEIDELBERG. UNIVERSITÄTS-BIBLIOTHEK, Heidelberg, Germany.  
 31 inaugural dissertations.
- HELLER, A. A., Las Vegas, New Mexico.  
 Muhlenbergia, current numbers.
- HERRICK, G. W., Austin, Texas.  
 1 pamphlet.
- HONGKONG BOTANICAL AND FORESTRY DEPARTMENT, Hongkong, China.  
 Report, 1908.
- HONOLULU. BOARD OF AGRICULTURE, HORTICULTURE AND FORESTRY, Honolulu, Hawaiian Islands.  
 Hawaiian forester, current numbers.
- HORNIMAN MUSEUM AND LIBRARY, London, England.  
 2 publications.
- HOUGH, WALTER, Washington, D. C.  
 1 pamphlet.
- HOVEY, EDMUND OTIS, New York City.  
 2 reprints.
- HULL MUNICIPAL MUSEUM, Hull, England.  
 6 publications.
- IDAHO AGRICULTURAL EXPERIMENT STATION, Moscow, Idaho.  
 Annual report, 1908.  
 Bulletin, current numbers.
- ILES, GEORGE, New York City.  
 2 pamphlets.
- ILLINOIS EDUCATIONAL COMMISSION, Springfield, Illinois.  
 Final report, 1909 (gift).
- ILLINOIS GEOLOGICAL SURVEY, Urbana, Illinois.  
 3 publications.
- ILLINOIS MUSEUM OF NATURAL HISTORY, Springfield, Illinois.  
 Report, 1908.
- ILLINOIS NATURAL HISTORY SURVEY, Urbana, Illinois.  
 Fishes of Illinois and atlas.

- ILLINOIS STATE ACADEMY OF SCIENCE, Springfield, Illinois  
Transactions, v. 1, 19, 28
- ILLINOIS STATE HISTORICAL LIBRARY, Springfield, Illinois  
Collections, v. 4
- ILLINOIS UNIVERSITY, Urbana, Illinois  
42 publications
- INDIA ARCHAEOLOGICAL SURVEY, Calcutta, India  
2 publications
- INDIA BOTANICAL SURVEY, Calcutta, India  
21 publications
- INDIA GEOLOGICAL SURVEY, Calcutta, India  
Memoirs, current numbers  
Mineral resources of India
- INDIA GOVERNMENT OF, Calcutta, India  
Agricultural ledger, current numbers  
1 publication
- INDIAN FORESTER, Allahabad, India  
Current numbers
- INDIAN MUSEUM, Calcutta, India  
8 publications
- INDIANA ACADEMY OF SCIENCE, Indianapolis, Indiana  
Proceedings, 1908
- INDIANA BOARD OF STATE CHARITIES, Indianapolis, Indiana  
Annual report, no. 19, 1908  
Bulletin, June, 1909
- INDIANA DEPARTMENT OF GEOLOGY AND NATURAL RE-  
SOURCES, Indianapolis, Indiana  
Report, no. 33, 1908
- INLAND PRINTER PUBLISHING COMPANY, Chicago  
Inland printer, v. 42, 43
- INTERSTATE COMMERCE COMMISSION, Washington, D. C.  
Annual report, no. 22, 1908
- IOWA ACADEMY OF SCIENCE, Des Moines, Iowa  
Proceedings, v. 15
- IOWA GEOLOGICAL SURVEY, Des Moines, Iowa  
Report, v. 18, 1907
- IOWA STATE COLLEGE OF AGRICULTURE AND MECHANIC ARTS,  
Ames, Iowa  
Bulletin, current numbers.  
Catalogue, 1909-10
- IOWA STATE HISTORICAL DEPARTMENT, Des Moines, Iowa.  
Annals, current numbers  
Biennial report, no. 9
- IOWA STATE HORTICULTURAL SOCIETY, Des Moines, Iowa,  
Transactions, v. 43
- IOWA STATE UNIVERSITY, Iowa City, Iowa,  
Calendar, 1909-10

- IRELAND. DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION, Dublin, Ireland.  
21 publications.
- JACKSON, HARTLEY H. T., Milton, Wisconsin.  
2 separates (gift).
- JAMAICA BOTANIC GARDENS, Kingston, Jamaica.  
Department of Agriculture;  
Bulletin, current numbers.
- JANCHEN, ERWIN.  
1 pamphlet (gift).
- JAPAN ASIATIC SOCIETY, Tokyo, Japan.  
Constitution and by-laws, etc.
- JASSY UNIVERSITÉ, Jassy, Roumania.  
Annales scientifiques, v. 6, no. 1.
- JOHN CRERAR LIBRARY, Chicago.  
Annual report, no. 14.  
List of books — reading room.
- JOHNS HOPKINS UNIVERSITY, Baltimore, Maryland.  
Register, 1908-9.
- JOURNAL OF GEOGRAPHY, New York City.  
Journal, current numbers.
- KANSAS ACADEMY OF SCIENCES, Topeka, Kansas.  
Transactions, v. 22.
- KANSAS STATE AGRICULTURAL COLLEGE, Topeka, Kansas.  
Annual report, no. 21, 1907-8.  
Bulletin, current numbers.
- KANSAS STATE BOARD OF AGRICULTURE, Topeka, Kansas.  
Biennial report, 1907-8.
- KARLSRUHE. GROSSHERZOGL. BAD. GARTENDIRECTION, Karlsruhe, Germany.  
1 pamphlet.
- KARLSRUHE. NATURWISSENSCHAFTLICHER VEREIN, Karlsruhe, Germany.  
Verhandlungen, b. 21, 1907-8.
- KAUKASISCHE MUSEUM, Tiflis, Russia.  
Mitteilungen, v. 4, nos. 1-2.
- KENTUCKY AGRICULTURAL EXPERIMENT STATION, Lexington, Kentucky.  
Annual report, nos. 14, 18-20.  
Bulletin, current numbers.
- KEW. ROYAL BOTANIC GARDENS, Kew, England.  
21 publications.
- KIEL. K. UNIVERSITÄTS-BIBLIOTHEK, Kiel, Germany.  
Bericht, 1908.
- K. NATUURKUNDIGE VEREENIGING NEDERLANDISCHE INDIE, Weltevreden.  
Natuurkundig tijdschrift, v. 68.
- KROEBER, A. L., Berkeley, California.  
1 pamphlet.

- LA CAMARA AGRICOLA, Merida, Yucatan  
El agricultor, current numbers.
- LA PLATA MUSEO DE LA PLATA, Argentina.  
2 publications.
- LAFONE QUEVEDO, SAMUEL A., Buenos Aires, Argentina  
1 report.
- LAKE FOREST COLLEGE, Lake Forest, Illinois  
Catalog, 1928-9.
- LAKE MOHONK CONFERENCE ON INTERNATIONAL ARBITRATION, Lake Mohonk, New York.  
2 publications.
- LANCASHIRE SEA-FISHERIES LABORATORY, Liverpool, England.  
Report, 1928.
- LAWRENCE FREE PUBLIC LIBRARY, Lawrence, Massachusetts.  
Annual report, 1927.
- LEICESTER MUSEUM AND ART GALLERY, Borough of Leicester, England  
Report, no. 17, 1925-8.
- LEIDEN RIJKS ETHNOGRAPHISCH MUSEUM, Leiden, Netherlands.  
Verlag, 1927-8.
- LEIDEN RIJKS MUSEUM VAN NATUURLIJKE HISTOIRE, Leiden, Netherlands.  
Leiden notes, current numbers.
- LEIPZIG K. SACHSISCHE GESELLSCHAFT DER WISSENSCHAFTEN, Leipzig, Germany.  
Bericht, current numbers.
- LEIPZIG MUSEUM FUR VOLKERKUNDE, Leipzig, Germany.  
2 publications.
- LEVALLOIS PERRET L'ASSOCIATION DES NATURALISTES, Levallois-Perret, France  
2 publications.
- LEWIS, A. H., Chicago  
2 publications.
- LEWIS INSTITUTE, Chicago  
Date card reports, 1928.  
Register, 1928-9.
- LEWIS, K. C. F., Chicago  
28 publications.
- LIMA SOCIEDAD GEOGRAFICA, Lima, Peru  
Boletín, 1-24.
- LINCOLN HENRY R., Jamaica, New York.  
1 publication, 1928.
- LIVERPOOL BIOLOGICAL SOCIETY, Liverpool, England.  
Proceedings and transactions, v. 22.
- LIVERPOOL GEOLOGICAL SOCIETY, Liverpool, England.  
Proceedings, current numbers.
- LIVERPOOL MARINE BIOLOGICAL COMMITTEE, Liverpool, England.  
Report, Port Erin Station, no. 22.

- LLOYD LIBRARY, Cincinnati, Ohio.  
Bulletin, reproduction series, no. 7.
- LONDON FOLK-LORE SOCIETY, London, England.  
Publications, no. 60, 63.
- LONDON. GEOLOGICAL SURVEY AND MUSEUM, London, England.  
Guide.
- LONDON. LINNEAN SOCIETY, London, England.  
8 publications.
- LONDON. ROYAL GEOGRAPHICAL SOCIETY, London, England.  
Proceedings, current numbers.
- LONDON. ROYAL HORTICULTURAL SOCIETY, London, England.  
Journal, current numbers.
- LONDON. SOCIETY OF ARTS, London, England.  
Journal, current numbers.
- LONDON ZOÖLOGICAL SOCIETY, London, England.  
Proceedings, current numbers.  
Transactions, current numbers.
- LOUBAT, DUC DE, Paris, France.  
4 publications.
- LOUISIANA AGRICULTURAL EXPERIMENT STATION, Baton Rouge,  
Louisiana.  
5 publications.
- LOUISIANA GEOLOGICAL SURVEY, Baton Rouge, Louisiana.  
Bulletin, nos. 6-8.
- MCGILL UNIVERSITY, Montreal, Canada.  
Publications, current numbers.
- MACRITCHIE, DAVID, Edinburgh, Scotland.  
2 pamphlets.
- MADRAS. AGRI-HORTICULTURAL SOCIETY, Madras, India.  
Annual meeting, 1909.  
Proceedings, current numbers.
- MADRAS. DEPARTMENT OF AGRICULTURE, Madras, India.  
5 publications.
- MADRID. R. ACADÉMIA DE CIENCIAS, Madrid, Spain.  
Memorias, t. 26.  
Revista, current numbers.
- MADRID. SOCIEDAD ESPANOLA DE HISTORIA NATURAL, Madrid,  
Spain.  
Bulletin, current numbers.  
Memorias, current numbers.
- MAGYAR NEMZETI MUZEUM, Budapest, Hungary.  
Annales, current numbers.
- MAIDEN, J. H., Sydney, New South Wales.  
1 pamphlet.
- MAINE AGRICULTURAL EXPERIMENT STATION, Orono, Maine.  
Bulletin, current numbers.
- MAINE STATE LIBRARY, Augusta, Maine.  
5 state publications.

- MAINE UNIVERSITY OF OCEANOGRAPHY, Maine.  
*Journal*, 1924-5.
- MANCHESTER INSTITUTE OF ARTS AND SCIENCES, Manchester,  
 New Hampshire.  
*Proceedings*, 1924, 1925.
- MANCHESTER LITERARY AND PHILOSOPHICAL SOCIETY, Man-  
 chester, England.  
*Proceedings*, current numbers.
- MANCHESTER MUSEUM, OWENS COLLEGE, Manchester, England.  
*Journal*, 1924-5.
- MARBURG GESELLSCHAFT ZUR BEFÖRDERUNG DER GESAMTEN  
 NATURWISSENSCHAFTEN, Marburg, Germany.  
*Sitzungsberichte*, 1925.
- MARBURG UNIVERSITÄT, Marburg, Germany.  
*Zeitschrift*, 1925.  
*Thesen*, 1925.
- MARIETTA COLLEGE, Marietta, Ohio.  
*Catalogue*, 1925-6.
- MARINE BIOLOGICAL ASSOCIATION OF THE UNITED KINGDOM  
 Plymouth, England.  
*International fisheries investigations*, 1924-5.  
*Journal*, current numbers.
- MARSEILLE FACULTÉ DES SCIENCES, Marseille, France.  
*Annales*, v. 16, 17.
- MARSEILLE MUSÉE COLONIAL, Marseille, France.  
*Annales*, 2d ser., v. 6.
- MARSEILLE MUSÉE D'HISTOIRE NATURELLE, Marseille, France.  
*Annales*, 1, 12.
- MARYLAND AGRICULTURAL EXPERIMENT STATION, College Park,  
 Maryland.  
*Annual report*, v. 22, 1928-9.  
*Bulletin*, current numbers.
- MARYLAND INSTITUTE, Baltimore, Maryland.  
*Journal*, 1924-5.
- MARYLAND STATE HORTICULTURAL SOCIETY, College Park, Mary-  
 land.  
*Report*, no. 11, 1928.
- MASSACHUSETTS INSTITUTE OF TECHNOLOGY, Boston, Massa-  
 chusetts.  
*Bulletin*, current numbers.  
*Proceedings*, 1925.
- MATRUH FOREST AND GARDEN DEPARTMENT, Matruh.  
*Annuaire*, 1924.
- MELBOURNE UNIVERSITY, Melbourne, Australia.  
*Journal*, 1924-5.
- MEXICO BIBLIOTECA NACIONAL, Mexico, Mexico.  
*Bulletin*, current numbers.
- MEXICO INSTITUTO GEOLOGICO, Mexico, Mexico.  
*Boletín*, 1924-5.



- MEXICO. MUSEO NACIONAL, Mexico, Mexico.  
Anales, current numbers.
- MEXICO. SOCIEDAD GEOLOGICA, Mexico, Mexico.  
Boletin, t. 3-4.
- MICHIGAN AGRICULTURAL EXPERIMENT STATION, Lansing, Michigan.  
Annual report, v. 18-21.  
Bulletin, current numbers.
- MICHIGAN COLLEGE OF MINES, Houghton, Michigan.  
Yearbook, 1908-9.
- MICHIGAN GEOLOGICAL SURVEY, Lansing, Michigan.  
Annual report, 1905, 1906, 1907, 1908.
- MICHIGAN UNIVERSITY, Ann Arbor, Michigan.  
11 publications.
- MILANO. SOCIETA ITALIANA DI SCIENZE NATURALI, Milano, Italy.  
Atti, current numbers.
- MILLS, WILLIAM C., Columbus, Ohio.  
1 pamphlet.
- MILLSPAUGH, CHARLES FREDERICK, Chicago.  
60 botanical publications.
- MINING WORLD PUBLISHING COMPANY, Chicago.  
Journal, current numbers (gift).
- MINNEAPOLIS PUBLIC LIBRARY, Minneapolis, Minnesota.  
Annual report, 1908.
- MINNESOTA AGRICULTURAL EXPERIMENT STATION, Minneapolis, Minnesota.  
Annual report, 1908.  
Bulletin, current numbers.
- MINNESOTA GEOLOGICAL AND NATURAL HISTORY SURVEY, Minneapolis, Minnesota.  
Botanical studies, v. 4, no. 1.
- MINNESOTA HISTORICAL SOCIETY, St. Paul, Minnesota.  
Collections, v. 12-13.
- MISSISSIPPI AGRICULTURAL EXPERIMENT STATION, Agricultural College, Mississippi.  
Bulletin (gift).
- MISSISSIPPI GEOLOGICAL SURVEY, Jackson, Mississippi.  
Bulletin, nos. 1-4 (gift).
- MISSOURI AGRICULTURAL EXPERIMENT STATION, Columbia, Missouri.  
Bulletin, current numbers.
- MISSOURI BUREAU OF GEOLOGY AND MINES, Jefferson City, Missouri.  
5 publications.
- MISSOURI UNIVERSITY, Columbia, Missouri.  
1 publication.
- MONTANA AGRICULTURAL EXPERIMENT STATION, Bozeman, Montana.  
Bulletin, current numbers.

- MONTANA STATE UNIVERSITY, Missoula, Montana.  
     publications.
- MONTEVIDEO MUSEO NACIONAL, Montevideo, Uruguay.  
     *Anales*, v. 7, pt. 1.
- MOORE, ROY L., Lawrence, Kansas.  
     1 reprint (gift).
- MOORE, CLARENCE B., Philadelphia, Pennsylvania.  
     1 publication.
- MUNICHEN, DEUTSCHES MUSEUM, Munich, Germany.  
     2 publications.
- MUNICHEN, K. K. AKADEMIE DER WISSENSCHAFTEN, Munich,  
     Germany.  
     *Bericht*, current numbers.
- MUNN AND COMPANY, New York City.  
     *Scientific American*, current numbers.
- MUSÉE DU CONGO, Brussels, Belgium.  
     1 publications.
- MUSÉE GUMMET, Paris, France.  
     2 publications.
- MUSEO ZOOLOGICO DELLA R. UNIVERSITA DI NAPOLI, Naples,  
     Italy.  
     *Annuario*, n. s., v. 2, nos. 1-6, 8-16.
- MUSEU PAULISTA, Sao Paulo, Brazil.  
     *Revista*, v. 7.
- NAPOLI, R. ACCADEMIA DELLE SCIENZE, Naples, Italy.  
     *Atti*, current numbers.  
     *Rendiconti*, current numbers.
- NAPOLI, SOCIETA DI NATURALISTI, Naples, Italy.  
     *Bollettino*, ser. 1, v. 20; ser. 2, v. 21.
- NATAL BOTANIC GARDENS, Durban, Natal.  
     *Natal plants*, v. 6, pt. 1.
- NATAL GOVERNMENT MUSEUM, Pietermaritzburg, Africa.  
     *Annals*, v. 2, no. 1.
- NATIONAL GEOGRAPHIC SOCIETY, Washington, D. C.  
     *Magazine*, current numbers.
- NATURALISTE CANADIEN, Chicoutimi, Canada.  
     *Journal*, current numbers.
- NATURFORSCHENDE GESELLSCHAFT, Basel, Switzerland.  
     *Verhandlungen*, current numbers.
- NEBRASKA ACADEMY OF SCIENCES, Lincoln, Nebraska.  
     *Proceedings*, v. 28, no. 3.
- NEBRASKA AGRICULTURAL EXPERIMENT STATION, Lincoln, Ne-  
     braska.  
     *Annual report*, no. 22.  
     *Bulletin*, current numbers.
- NEBRASKA GEOLOGICAL SURVEY, Lincoln, Nebraska.  
     1 publications.



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THE LIBRARY  
OF THE  
UNIVERSITY OF ILLINOIS

- NEBRASKA STATE LIBRARY, Lincoln, Nebraska.  
Studies, current numbers.
- NEBRASKA UNIVERSITY, Lincoln, Nebraska.  
Calendar, 1909-10.
- NEDERLANDSCH-INDIE. DEPARTEMENT VAN LANDBOUW, Buitenzorg, Java.  
2 publications.
- NEDERLANDSCH-INDIE. K. INSTITUT DE TAAL-, LAND- EN VOLKENKUNDE, Batavia, Java.  
2 publications.
- NEDERLANDSCH-INDIE. K. NATUURKUNDIGE VEREENIGING, Batavia, Java.  
Register, 1875-1908.  
Tijdschrift, v. 68.
- NEW BEDFORD FREE PUBLIC LIBRARY, New Bedford, Massachusetts.  
Annual report, v. 56, 57, 1907-1908.  
Bulletin, current numbers.
- NEW HAMPSHIRE COLLEGE OF AGRICULTURE, Durham, New Hampshire.  
Bulletin, current numbers.  
Catalogue, 1908-9.  
Report, nos. 19-20.
- NEW JERSEY AGRICULTURAL COLLEGE EXPERIMENT STATION, Trenton, New Jersey.  
9 publications.
- NEW JERSEY GEOLOGICAL SURVEY, Trenton, New Jersey.  
Annual report, 1908.
- NEW JERSEY HORTICULTURAL SOCIETY, Trenton, New Jersey.  
Proceedings, 34th annual session, 1909.
- NEW JERSEY STATE MUSEUM, Trenton, New Jersey.  
Annual report, 1908.
- NEW MEXICO AGRICULTURAL EXPERIMENT STATION, Mesilla Park, New Mexico.  
Bulletin, current numbers.
- NEW MEXICO HISTORICAL SOCIETY, Santa Fe, New Mexico.  
8 publications.
- NEW SOUTH WALES. BOTANIC GARDENS AND GOVERNMENT DOMAINS, Sydney, New South Wales.  
Annual report, 1907, 1908.
- NEW SOUTH WALES. DEPARTMENT OF FISHERIES, Sydney, New South Wales.  
Report, 1908.
- NEW SOUTH WALES. DEPARTMENT OF MINES AND AGRICULTURE, Sydney, New South Wales.
- NEW SOUTH WALES LINNEAN SOCIETY, Sydney, New South Wales.  
Proceedings, current numbers.

- NEW YORK ACADEMY OF SCIENCES, New York City.  
 Reports, nos. 1-3.
- NEW YORK AGRICULTURAL EXPERIMENT STATION, Geneva,  
 New York.  
 12 publications.
- NEW YORK BOTANICAL GARDEN, New York City.  
 Bulletin, current numbers.
- NEW YORK MERCANTILE LIBRARY, New York City.  
 Reports, nos. 88, 19-8.
- NEW YORK METROPOLITAN MUSEUM OF ART, New York City.  
 Annual reports, nos. 19, 1928.  
 Bulletin, current numbers.
- NEW YORK PUBLIC LIBRARY, New York City.  
 Bulletin, current numbers.
- NEW YORK STATE FOREST, FISH AND GAME COMMISSION, Al-  
 bany, New York.  
 14 publications.
- NEW YORK STATE LIBRARY, Albany, New York.  
 Education Department:  
 Annual reports, 1929, 2 v's.
- NEW YORK STATE MUSEUM, Albany, New York.  
 14 publications.
- NEW YORK ZOOLOGICAL SOCIETY, New York City.  
 Annual reports, no. 11, 1928.  
 Bulletin, current numbers.
- NEW ZEALAND DEPARTMENT OF AGRICULTURE, Wellington, New  
 Zealand.  
 12 publications.
- NEW ZEALAND DEPARTMENT OF MINES, Wellington, New Zealand.  
 Geological survey.  
 Bulletin, nos. 6-7.
- NEW ZEALAND INSTITUTE, Wellington, New Zealand.  
 Proceedings, v. 1-2.  
 Transactions, v. 1-11.
- NEWBERRY LIBRARY, Chicago.  
 Reports, 19-8.
- NICARAGUAN GOVERNMENT, Guatemala, Nicaragua.  
 11 pamphlets.
- NORTH CAROLINA AGRICULTURAL EXPERIMENT STATION,  
 Raleigh, North Carolina.  
 Bulletin, current numbers (gift).
- NORTH CAROLINA STATE GEOLOGICAL AND ECONOMIC SURVEY,  
 Raleigh, N. C.  
 Bulletin, nos. 1-18.
- NORTH DAKOTA AGRICULTURAL EXPERIMENT STATION, Fargo,  
 North Dakota.  
 Bulletin, current numbers.

- NUMISMATIC AND ANTIQUARIAN SOCIETY, Montreal, Canada.  
Canadian antiquarian, current numbers.
- NÜRNBERG. NATURHISTORISCHE GESELLSCHAFT, Nuremberg,  
Germany.  
Abhandlungen, v. 17.  
Mitteilungen, 1907, no. 1-6; 1908, no. 1.
- OBERLIN COLLEGE, Oberlin, Ohio.  
Annual report of librarian, 1908.  
Laboratory bulletin, nos. 14, 15.
- OHIO AGRICULTURAL EXPERIMENT STATION, Wooster, Ohio.  
Bulletin, current numbers.
- OHIO GEOLOGICAL SURVEY, Columbus, Ohio.  
1 map.
- OHIO STATE ARCHÆOLOGICAL AND HISTORICAL SOCIETY,  
Columbus, Ohio.  
Journal, quarterly.
- OHIO STATE BOARD OF AGRICULTURE, Columbus, Ohio.  
8 publications.
- OHIO STATE UNIVERSITY, Columbus, Ohio.  
5 publications.
- OKLAHOMA AGRICULTURAL EXPERIMENT STATION, Stillwater,  
Oklahoma.  
Bulletin, current numbers.
- OMAHA PUBLIC LIBRARY, Omaha, Nebraska.  
Bulletin, current numbers.
- ONEIDA HISTORICAL SOCIETY, Utica, New York.  
Yearbook, no. 10.
- ONTARIO. DEPARTMENT OF AGRICULTURE, Ontario, Canada.  
15 reports.
- OPEN COURT PUBLISHING COMPANY, Chicago.  
Monist, current numbers.  
1 pamphlet.
- OREGON AGRICULTURAL EXPERIMENT STATION, Corvallis, Oregon.  
Bulletin, current numbers (gift).
- OREGON STATE BIOLOGIST, Eugene, Oregon.  
Biennial report, 1907-8.
- ORNITHOLOGISCHE GESELLSCHAFT, Munich, Germany.  
Verhandlungen, v. 8.
- OTAGO UNIVERSITY MUSEUM, Dunedin, New Zealand.  
Curator's report, 1908-9 (gift).
- OTTAWA FIELD NATURALISTS' CLUB, Ottawa, Canada.  
Ottawa naturalist, current numbers.
- OUTES, FELIX F., Buenos Aires, Argentina.  
10 reprints.
- OUTING PUBLISHING COMPANY, New York City.  
Outing magazine, current numbers.
- OXFORD UNIVERSITY MUSEUM, Oxford, England.  
Annual report, no. 21, 1908.

- PAVACHE, CHARLES, Cambridge, Massachusetts.  
2 reprints.
- PALEOMO, R. ORTO BOTANICO E GIARDINO COLONIALE, Palermo.  
1905.  
Società italiana, 19, 8.  
C. (evolution in zoology), v. 4, no. 2.
- PAN AMERICAN SCIENTIFIC CONGRESS, Washington, D. C.  
Report, 1916.
- PARIS, ACADEMIE DES SCIENCES, Paris, France.  
Comptes rendus, current numbers.
- PARIS, ÉCOLE D'ANTHROPOLOGIE, Paris, France.  
Revue, current numbers.
- PARIS, MUSEUM D'HISTOIRE NATURELLE, Paris, France.  
Bulletin, current numbers.
- PARIS, SOCIÉTÉ DES AMERICANISTES, Paris, France.  
Journal, current numbers.
- PARIS, SOCIÉTÉ NATIONALE D'AGRICULTURE, Paris, France.  
Bulletin, current numbers.
- PARKE, DAVIS & COMPANY, Detroit, Michigan.  
Bulletin of pharmacy, current numbers (gift).
- PEABODY INSTITUTE, Peabody, Massachusetts.  
Annual report, no. 37, 1908.
- PEABODY MUSEUM OF AMERICAN ARCHAEOLOGY AND ETHNOLOGY, Cambridge, Massachusetts.  
Memoirs, v. 4, no. 2.  
Report, no. 42, 1917-8.
- PENNSYLVANIA AGRICULTURAL EXPERIMENT STATION, Harrisburg, Pennsylvania.  
Bulletin, current numbers.
- PENNSYLVANIA DEPARTMENT OF FORESTRY, Harrisburg, Pennsylvania.  
Reports, 1911, 1917.
- PENNSYLVANIA MUSEUM AND SCHOOL OF INDUSTRIAL ARTS, Philadelphia, Pennsylvania.  
Publications.
- PENNSYLVANIA UNIVERSITY, Philadelphia, Pennsylvania.  
Publications.
- PENROSE, R. A. F., JR., Philadelphia, Pennsylvania.  
2 reprints.
- PERKINS INSTITUTE AND MASSACHUSETTS SCHOOL FOR THE BLIND, Boston, Massachusetts.  
Annual report, no. 77, 1908.
- PERTHSHIRE NATURAL HISTORY MUSEUM, Perth, Scotland.  
Illustrated handbook.  
Report, 1915.
- PERTHSHIRE SOCIETY OF NATURAL SCIENCE, Perth, Scotland.  
16 publications.
- PERU, CUERPO DE INGENIEROS DE MINAS, Lima, Peru.  
Bulletin, current numbers.



- PERU INSTITUTO HISTORICO, Lima, Peru.  
Revista, current numbers.
- PHILADELPHIA ACADEMY OF NATURAL SCIENCES, Philadelphia,  
Pennsylvania.  
Proceedings, 1908.
- PHILADELPHIA COLLEGE OF PHARMACY, Philadelphia, Pennsylv-  
vania.  
American journal of pharmacy, current numbers.
- PHILADELPHIA COLLEGE OF PHYSICIANS, Philadelphia, Pennsylv-  
vania.  
Transactions, v. 30.
- PHILADELPHIA FREE LIBRARY, Philadelphia, Pennsylvania.  
Annual report, no. 13, 1909.
- PHILADELPHIA GEOGRAPHICAL SOCIETY, Philadelphia, Pennsylv-  
vania.  
Bulletin, current numbers.
- PHILADELPHIA LIBRARY COMPANY, Philadelphia, Pennsylvania.  
Bulletin, no. 62, 63.
- PHILIPPINE ISLANDS. BUREAU OF SCIENCE, Manila, Philippine  
Islands.  
22 publications.
- PHILLIPS ACADEMY, Andover, Massachusetts.  
Bulletin, current numbers.  
Catalogue, 1909.
- PIETERMARITZBURG. BOTANIC SOCIETY, Pietermaritzburg, South  
Africa.  
Annual report, 1908.
- PIOLTI, GIUSEPPE, Torino, Italy.  
3 pamphlets.
- PISA. SOCIETA TOSCANA DI SCIENZE NATURALI, Pisa, Italy.  
Atti, current numbers.  
Memorie, v. 24.
- PORTICI R. SCUOLA SUPERIORE D'AGRICOLTURA, Portici, Italy.  
Bollettino, v. 3.
- PORTLAND PUBLIC LIBRARY, Portland, Maine.  
Annual report, 1908.
- PORTLAND SOCIETY OF NATURAL HISTORY, Portland, Maine.  
Proceedings, v. 2, pt. 8.
- PORTO RICO AGRICULTURAL EXPERIMENT STATION, Mayaguez,  
Porto Rico.  
Annual report, 1908.
- POSEN. DEUTSCHE GESELLSCHAFT FÜR KUNST UND WISSEN-  
SCHAFT, Posen, Germany.  
Zeitschrift der Naturw. Abtheilung, current numbers.
- PRAG. ACADEMIE DES SCIENCES DE L'EMPEREUR FRANÇOIS  
JOSEPH I., Prag, Austria.  
24 publications.

- PRAG, A. BOHEM. GESELLSCHAFT DER WISSENSCHAFTEN, Prag.  
 1 publication.
- PRAG, ACADEMY OF SCIENCES.  
 1 publication.
- PRATT INSTITUTE FREE LIBRARY, Brooklyn, New York.  
 1 publication; current number.  
 1 reprint.
- PREUSSISCHER BOTANISCHER VEREIN, Königsberg, Germany.  
 1 publication.
- PRINCETON UNIVERSITY, Princeton, New Jersey.  
 1 publication.
- PROVIDENCE ATHENÆUM, Providence, Rhode Island.  
 1 publication.
- PROVIDENCE PUBLIC LIBRARY, Providence, Rhode Island.  
 1 publication.
- PURDUE UNIVERSITY, Lafayette, Indiana.  
 1 publication.
- QUEENSLAND GEOLOGICAL SURVEY, Brisbane, Queensland.  
 23 publications.
- QUEENSLAND MUSEUM, Brisbane, Queensland.  
 2 publications.
- QUEENSLAND ROYAL GEOGRAPHICAL SOCIETY, Brisbane, Queensland.  
 1 publication.
- QUEENSLAND ROYAL SOCIETY, Brisbane, Queensland.  
 1 publication.
- RANDALL & COMPANY, Chicago.  
 1 publication; current number; (gift).
- REID, HARRY F., Baltimore, Maryland.  
 1 reprint.
- RENNES UNIVERSITY, Rennes, France.  
 1 publication; current number.
- REISINGER, HUGO, New York City.  
 1 publication; gift.
- ROCHESTER POLYTECHNIC INSTITUTE, Troy, New York.  
 1 publication; (gift).
- RÖNNELID, O. M., Stockholm, Sweden.  
 1 publication; gift.
- RHODE ISLAND AGRICULTURAL EXPERIMENT STATION, Kingston, Rhode Island.  
 1 publication.
- RHODESIA MUSEUM, Bulawayo, Transvaal.  
 1 publication; current number.  
 1 publication.
- RHODES UNIVERSITY, New York.  
 1 publication.
- RHODES UNIVERSITY, New York.  
 1 publication.

- ROGER WILLIAMS PARK MUSEUM, Providence, Rhode Island.  
Annual report, 1908.  
Bulletin, v. 1-4.
- ROME. R. ACCADEMIA DEI LINCEI, Rome, Italy.  
Atti, current numbers.  
Rendiconti, current numbers.
- ROME. SOCIETA GEOGRAFICA ITALIANA, Rome, Italy.  
Bollettino, current numbers.
- ROME. SOCIETA ROMANA DI ANTROPOLOGIA, Rome, Italy.  
Atti, current numbers.
- ROSE POLYTECHNIC INSTITUTE, Terre Haute, Indiana.  
Catalogue, 1908-09.
- ROTH, WALTER, E., Sydney, New South Wales.  
2 pamphlets.
- ROTHMANN, C. G., St. Louis, Missouri.  
1 pamphlet.
- ROTTERDAM MUSEUM VOOR LAND-EN-VOLKENKUNDE, Rotterdam, Holland.  
Verslag, 1909.
- ROYAL ARCHÆOLOGICAL INSTITUTE OF GREAT BRITAIN AND IRELAND, London, England.  
Journal, current numbers.
- ROYAL ASIATIC SOCIETY, CEYLON BRANCH, Colombo, India.  
Journal, no. 59-61.
- ROYAL DUBLIN SOCIETY, Dublin, Ireland.  
5 publications.
- RUTOT, A., Brussels, Belgium.  
4 separates.
- ST. GALL. OSTSCH. GEOGRAPH. COMMERC. GESELLSCHAFT, St. Gall Switzerland.  
Mitteilungen, v. 2, 1908.  
Report, 1907.
- ST. LAURENT COLLEGE, Montreal, Canada.  
Catalog, 1908-09.
- ST. LOUIS ACADEMY OF SCIENCES, St. Louis, Missouri.  
Transactions, current numbers.
- ST. LOUIS MERCANTILE LIBRARY ASSOCIATION, St. Louis, Missouri.  
Annual report, no. 63, 1908.
- ST. LOUIS MUSEUM OF FINE ARTS, St. Louis, Missouri.  
3 publications.
- ST. LOUIS PUBLIC LIBRARY, St. Louis, Missouri.  
Bulletin, current numbers.  
Report, 1907-8, 1908-9.
- ST. LOUIS UNIVERSITY, St. Louis, Missouri.  
Bulletin, current numbers.  
Catalogue, 1909.

- ST. PETERSBURG ACADEMIE IMPÉRIALE DES SCIENCES, St.  
Peterburg, Russia  
1 publication.
- ST. PETERSBURG SOCIÉTÉ IMPÉRIALE DES NATURALISTES, St.  
Peterburg, Russia  
8 publications.
- ST. VALENTIN'S COLLEGE, Bourbonnais, Illinois  
Annual catalogue, 1908-9.
- SALEM PUBLIC LIBRARY, Salem, Massachusetts  
11 publications.
- SAN FRANCISCO MECHANICS INSTITUTE, San Francisco, California.  
Annual report, no. 32, 33  
11 pamphlet.
- SAN SALVADOR MUSEO NACIONAL, San Salvador.  
Articles, current numbers.
- SÃO PAULO INSTITUTO AGRONÓMICO, São Paulo, Brazil.  
Boletim, current numbers.
- SÃO PAULO MUSEU PAULISTA, São Paulo, Brazil.  
Catalogo da fauna brasileira, v. 2.
- SÃO PAULO SOCIEDAD CIENTIFICA, São Paulo, Brazil.  
Revista, v. 2, no. 9-12.  
1 pamphlet.
- SAÔNE ET LOIRE SOCIÉTÉ DES SCIENCES NATURELLES, Châlon-  
sur-Saône, France.  
Bulletin, current numbers.
- SARDOVO STATL. LANDW. VERSUCHSSTATION, Sardovo, Bulgaria.  
11 publications.
- SATURDAY REVIEW, London, England.  
Current numbers.
- SAUVAGEAU, C., Bordeaux, France.  
1 pamphlet.
- SCHARIZER, RUDOLF, Graz, Germany.  
1 reprint.
- SCHENCK, C. A., Biltmore, North Carolina.  
7 publications.
- SCHLESISCHE GESELLSCHAFT FÜR VATERLÄNDISCHE CULTUR,  
Breslau, Germany.  
1 publication.
- SCHMIDT, MAX, Berlin, Germany.  
1 pamphlet.
- SCHMIDT, P. W., Melling, Germany.  
Articles, 1901-19, 7-1909.
- SCOTLAND FISHERIES BOARD, Glasgow, Scotland.  
Annual report, pt. 1, no. 27, 1908.
- SENEKENBERGISCHE NATURFORSCHENDE GESELLSCHAFT,  
Frankfurt-am-Main, Germany.  
Bericht, 1909.
- SILVESTRI, F., Rome, Italy.  
2 reprints.

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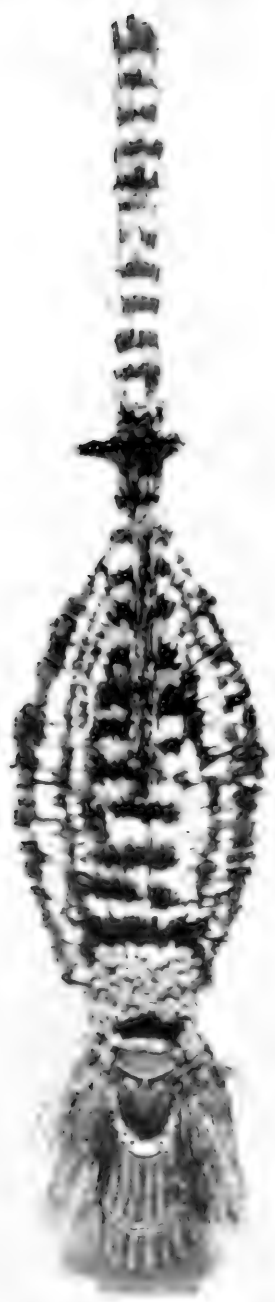


FIGURE 18 AND 19. (See text.)

- SKIFF, F. J. V., Chicago.  
10 publications (gift).
- SLOCOM, A. W., Chicago.  
1 pamphlet.
- SLONAKER, JAMES R., Palo Alto, California.  
1 reprint.
- SMITH, JOHN B., New Brunswick, New Jersey.  
2 pamphlets.
- SMITH, JOHN D., Baltimore, Maryland.  
4 publications.
- SMITHSONIAN INSTITUTION, Washington, D. C.  
29 publications.
- SOCIEDAD CIENTIFICA "ANTONIO ALZATE." Mexico, Mexico.  
Memorias, current numbers.
- SOCIETA AFRICANA D'ITALIA, Naples, Italy.  
Bollettino, v. 28, no. 1-4.
- SOCIETA TOSCANA DI SCIENZE NATURALI, Pisa, Italy.  
Memorie, v. 24.
- SOCIETAS PRO FAUNA ET FLORA FENNICA, Helsingfors, Finland.  
Meddelanden, v. 33-35.
- SOCIÉTÉ BELGE DE GÉOLOGIE, DE PALÉONTOLOGIE ET D'HYDROLOGIE, Brussels, Belgium.  
Bulletin, v. 21-22, 23, no. 1-6.
- SOCIÉTÉ BOTANIQUE DE FRANCE, Paris, France.  
Bulletin, current numbers.
- SOCIÉTÉ DE GÉOGRAPHIE, Toulouse, France.  
Bulletin, current numbers.
- SOCIÉTÉ DE PHYSIQUE ET D'HISTOIRE NATURELLE, Geneva, Switzerland.  
Comptes rendus des séances, v. 25, 1908.  
Mémoires, current numbers.
- SOCIÉTÉ DES NATURALISTES DE KIEV, Kiev, Russia.  
Mémoires, v. 1, no. 1.
- SOCIÉTÉ DES SCIENCES, Nancy, France.  
Bulletin, current numbers.
- SOCIÉTÉ ENTOMOLOGIQUE SUISSE, Bern, Switzerland.  
Mitteilungen, v. 11, no. 9.
- SOCIÉTÉ FRIBOURGEOISE DES SCIENCES NATURELLES, Fribourg, Switzerland.  
Compte rendu, 1907-8.  
Mémoires, v. 6.
- SOCIÉTÉ GÉOLOGIQUE DU NORD, Lille, France.  
Annales, v. 36, 1907.
- SOCIÉTÉ IMPÉRIALE DES AMIS DE SCIENCES NATURELLES, D'ANTHROPOLOGIE ET ETHNOGRAPHIE, Moscow, Russia.  
Bulletin, 1908.

- SOCIÉTÉ IMPÉRIALE RUSSE DE GÉOGRAPHIE, St. Petersburg,  
Russia  
Bulletin, current number
- SOCIÉTÉ NÉO-HAVANAISE DE GÉOGRAPHIE, Neuchâtel, Switzer-  
land  
Bulletin, current number
- SOCIÉTÉ PORTUGAISE DE SCIENCES NATURELLES, Lisbon, Portu-  
gal  
Boletim, current number
- SOCIÉTÉ ORIENTALE D'AMATEURS DES SCIENCES NATURELLES, Ekaterineburg, Russia  
Bulletin, current number
- SOCIÉTÉ ROYALE DE BOTANIQUE DE BELGE, Brussels, Belgium  
Publication
- SOCIÉTÉ ZOOLOGIQUE DE FRANCE, Paris, France  
Bulletin, v. 31  
Mémoire, 1-2
- SOUTH AFRICA GEOLOGICAL SURVEY, Johannesburg, South Africa  
Transactions, current numbers
- SOUTH AFRICA ROYAL SOCIETY, Cape Town, South Africa  
Transactions, v. 1, no. 1
- SOUTH AFRICAN ASSOCIATION FOR THE ADVANCEMENT OF  
SCIENCE, Grahamstown, South Africa  
Report, 1928
- SOUTH AFRICAN CENTRAL LOCUST BUREAU, Pretoria, South Africa.  
Annual reports, no. 2, 3, 1928, 1929 (gift)
- SOUTH AFRICAN MUSEUM, Cape Town, South Africa.  
Report, 1928
- SOUTH AFRICAN PHILOSOPHICAL SOCIETY, Cape Town, South  
Africa  
Transactions, current numbers
- SOUTH AUSTRALIA DEPARTMENT OF AGRICULTURE AND IN-  
TELLIGENCE, Adelaide, South Australia  
Bulletin, current number  
Journal, current number  
Report, 1-2, 5
- SOUTH AUSTRALIA PUBLIC LIBRARY, MUSEUM AND ART GAL-  
LERY, Adelaide, South Australia  
Report, 1928
- SOUTH AUSTRALIA ROYAL SOCIETY, Adelaide, South Australia.  
Transactions and Proceedings, v. 32
- SOUTH CAROLINA AGRICULTURAL EXPERIMENT STATION, Clem-  
son, South Carolina  
Bulletin, current numbers
- SOUTH DAKOTA AGRICULTURAL EXPERIMENT STATION, Brook-  
ings, South D.K. 574  
Bulletin, current numbers



- SOUTH LONDON ENTOMOLOGICAL AND NATURAL HISTORY SOCIETY, London, England.  
Proceedings, 1908-09.
- SOUTHERN CALIFORNIA ACADEMY OF SCIENCES, Los Angeles, California.  
Bulletin, current numbers.
- SOUTHERN PACIFIC RAILROAD, San Francisco, California.  
Sunset magazine (gift).
- SPRINGFIELD CITY LIBRARY ASSOCIATION, Springfield, Massachusetts.  
Bulletin, current numbers.  
Report, 1909.
- STÄDTISCHES VÖLKERMUSEUM, Frankfurt-am-Main, Germany.  
Veröffentlichungen, current numbers.
- STARR, FREDERICK, Chicago.  
4 separates.
- STATEN ISLAND ASSOCIATION OF ARTS AND SCIENCES, New York City.  
Bulletin, current numbers.
- STETTIN. GESELLSCHAFT FÜR VÖLKER-UND ERKDUNDE, Stettin, Germany.  
Bericht, 1906-07, 1907-08.
- STEVENS INSTITUTE OF TECHNOLOGY, Hoboken, New Jersey.  
Annual catalogue, 1909-10.
- STOCKHOLM. K. SVEN. VETENSKAPS AKADEMIEN, Stockholm, Sweden.  
Publications.
- STOCKHOLM. K. VITT. HIST. OCH ANTIQ. AKADEMIEN, Stockholm, Sweden.  
3 publications.
- STOCKHOLM SVEN. SALLSK. FÖR ANTROPOLOGI OCH GEOGRAFI, Stockholm, Sweden.  
Ymer, current numbers.
- STORRS AGRICULTURAL EXPERIMENT STATION, Storrs, Connecticut.  
Bulletin, current numbers.
- STRASSBURG. KAISER-WILHELMS-UNIVERSITÄT, Strassburg, Germany.  
17 dissertations.
- TASMANIA. DEPARTMENT OF AGRICULTURE, Hobart, Tasmania.  
Handbook of Tasmania.  
2 pamphlets.
- TEXAS AGRICULTURAL EXPERIMENT STATION, College Station, Texas.  
Bulletin, current numbers.
- TEXAS UNIVERSITY, Austin, Texas.  
Bulletin, current numbers.  
Catalogue, 1908-1909.

- HVALBÆTTER, WILLIAM, Birkerød, Denmark.  
 1 pamphlet.
- THOMSON, J. ARTHUR, Aberdeen, Scotland.  
 2 pamphlets. 1915.
- HERBOP. INSTITUTE, Pasadena, California.  
 supplementary catalogue number, 1929.
- THURINGISCHER BÖTANISCHE VEREIN, Weimar, Germany.  
 Mitteilungen, heft 23-25.
- TOKYO BOTANICAL SOCIETY, Tokyo, Japan.  
 Magazine, current numbers.
- TOKYO IMPERIAL MUSEUM OF NATURAL HISTORY, Tokyo, Japan.  
 catalogue of Japanese mollusca, pt. I.
- TOKYO IMPERIAL UNIVERSITY, Tokyo, Japan.  
 College of Agriculture.  
 Bulletin, current numbers.  
 College of Science.  
 Journal, current numbers.
- TOLEDO PUBLIC LIBRARY, Toledo, Ohio.  
 Report, 1928.
- TORINO MUSEO DI ZOOLOGIA ED ANATOMIA COMPARATA, Turin, Italy.  
 Bollettino, v. 23, 1928.
- TORINO R. ACCAD. DELLE SCIENZE, Turin, Italy.  
 Atti, current numbers.  
 Memorie, 2, 68-69.
- TRANSVAAL DEPARTMENT OF AGRICULTURE, Pretoria, Transvaal.  
 Annual report, 1927-28.  
 Journal, current numbers.
- TRANSVAAL MINES DEPARTMENT, Pretoria, Transvaal.  
 Report of the Geological Survey, 1927, 1928.
- TRANSVAAL MUSEUM, Pretoria, Transvaal.  
 Annual report, 1927-28.
- TRING ZOOLOGICAL MUSEUM, Tring, England.  
 Novitates zoologicae, current numbers.
- TRINITY COLLEGE, Dublin, Ireland.  
 Hibernia, no. 25.
- TROMSØ MUSEUM, Tromsø, Norway.  
 Aarsberetning, 1926, 1927.  
 Aarsberetning, no. 23, 1922.
- TRONCOSO Y PASO DEL FRANCISCO, Mexico, Mexico.  
 2 pamphlets.
- TRONDHJEM K. NORSKE VIDENSKABER SELSKAB, Trondhjem, Norway.  
 N. no. 19.  
 Skatter, 1928.
- TROUSSART, E. L., Paris, France.  
 1 pamphlet.
- TUFTS COLLEGE, Tufts, Massachusetts.  
 Studies, 2, 2, no. 1.

- UNION COLLEGE, Schnectady, New York.  
 Catalogue, 1909-10.
- U. S. GOVERNMENT, Washington, D. C.  
 400 publications.
- U. S. INDIAN SCHOOL, Carlisle, Pennsylvania.  
 Indian craftsman, v. 1, nos. 1-5.
- U. S. LIBRARY OF CONGRESS, Washington, D. C.  
 7 publications.
- U. S. NAVAL ACADEMY, Annapolis, Maryland.  
 Annual register, 1908-1909.
- UPSALA. K. VETENSKAPS SOCIETETEN, Upsala, Sweden.  
 Nova acta, current numbers.
- UPSALA UNIVERSITY, Upsala, Sweden.  
 2 publications.
- UTAH AGRICULTURAL EXPERIMENT STATION, Logan, Utah.  
 Bulletin, current numbers (gift).
- VAN HISE, CHARLES R., Madison, Wisconsin.  
 2 reprints.
- VAN OVERBERGH, C., Brussels, Belgium.  
 Collection de monographies ethnographiques, v. 1-3.
- VASSAR BROTHERS INSTITUTE, Poughkeepsie, New York.  
 Bulletin, v. 1-2.  
 1 reprint.
- VENEZUELA. ESTADISTICA DE LOS ESTADOS UNIDOS, Caracas.  
 Venezuela.  
 2 publications.
- VERMONT AGRICULTURAL EXPERIMENT STATION, Burlington, Vermont.  
 Bulletin, current numbers.
- VERMONT BIRD CLUB, Essex Junction, Vermont.  
 Bulletin, nos. 1-3, 1906-08.
- VERMONT UNIVERSITY, Burlington, Vermont.  
 Catalogue, 1908-09.
- VICTORIA. DEPARTMENT OF AGRICULTURE, Melbourne, Victoria.  
 Journal, current numbers.
- VICTORIA FIELD NATURALISTS' CLUB, Melbourne, Victoria.  
 Victorian naturalist, current numbers.
- VICTORIA UNIVERSITY, Toronto, Canada.  
 Calendar, 1908-9, 1909-10.  
 Victoria College:  
 Bulletin, 1908-9.
- VICTORIA ZOÖLOGICAL AND ACCLIMATIZATION SOCIETY, Melbourne, Victoria.  
 Annual report, 1908.
- VIRCHOW, H., Berlin, Germany.  
 3 pamphlets.
- VIRGINIA AGRICULTURAL EXPERIMENT STATION, Blacksburg, Virginia.  
 Bulletin, current numbers.

- VIRGINIA JAMESTOWN EXPOSITION COMMISSION, Charlottesville, Virginia  
Mineral resources of Virginia (gift)
- VIRGINIA STATE LIBRARY, Richmond, Virginia  
Bulletin, current numbers
- VIRGINIA UNIVERSITY, Charlottesville, Virginia  
Catalogue, 1908-9
- WALCOTT, A. B., Chicago  
1 publication
- WARD, HENRY B., Lincoln, Nebraska  
3 publications
- WASHINGTON ACADEMY OF SCIENCES, Washington, D. C.  
Proceedings, current numbers
- WASHINGTON BIOLOGICAL SOCIETY, Washington, D. C.  
Proceedings, current numbers
- WASHINGTON PHILOSOPHICAL SOCIETY, Washington, D. C.  
Proceedings, current numbers
- WASHINGTON STATE LIBRARY, Olympia, Washington  
1 publication
- WAUGAUNI PUBLIC MUSEUM, Waugauni, New Zealand  
Annual report no. 14, 1908-09.
- WELLCOME CHEMICAL RESEARCH LABORATORIES, London, England  
Publications, nos. 86-92
- WELLER, STUART, Chicago  
3 reprints
- WELLINGTON ACCLIMATIZATION SOCIETY, Wellington, New Zealand  
Annual report, 1908-9
- WELLINGTON FIELD NATURALISTS' CLUB, Guelph, Canada  
3 publications
- WESLEYAN UNIVERSITY, Middletown, Connecticut  
Catalogue, 1908-1909
- WEST INDIES IMPERIAL DEPARTMENT OF AGRICULTURE, Barbados, West Indies  
Publications, current numbers
- WEST VIRGINIA AGRICULTURAL EXPERIMENT STATION, Morgantown, West Virginia  
Bulletin, current numbers
- WEST VIRGINIA STATE BOARD OF AGRICULTURE, Charleston, West Virginia  
2 reports
- WESTERN AUSTRALIA DEPARTMENT OF AGRICULTURE, Perth, Western Australia  
Journal, current numbers
- WESTERN AUSTRALIA GEOLOGICAL SURVEY, Perth, Western Australia  
Annual report, 1902, 1908  
Bulletin, current numbers

- WESTERN PENNSYLVANIA ENGINEERS' SOCIETY, Pittsburgh.  
Pennsylvania.  
Charter, by-laws and list of members, 1909.
- WIEN K. K. NATURHISTORISCHES HOFMUSEUM, Vienna, Austria.  
Annalen, current numbers.  
Jahresbericht, 1907.
- WIEN K. K. UNIVERSITÄT, Vienna, Austria.  
Handkatalog.  
6 reports.
- WIEN K. K. ZOOLOGISCH-BOTANISCHE GESELLSCHAFT, Vienna,  
Austria.  
Verhandlungen, v. 58.
- WIESBADEN. NASSAUISCHER VEREIN FÜR NATURKUNDE, Wies-  
baden, Germany.  
Jahrbuch, v. 61.
- WILLE, N., Christiania, Norway.  
Naturvidenskaberne magazin, current numbers.  
2 separates.
- WILLIAMS COLLEGE, Williamstown, Massachusetts.  
2 catalogues.
- WILLISTON, S. W., Chicago.  
4 reprints.
- WILSON ORNITHOLOGICAL CLUB, Oberlin, Ohio.  
Bulletin, current numbers.
- WINDSOR KENFIELD PUBLISHING COMPANY, Chicago.  
Brick, current numbers (gift).
- WISCONSIN ACADEMY OF SCIENCES, Madison, Wisconsin.  
Transactions, v. 16, nos. 1-3, 5-6.
- WISCONSIN ARCHAEOLOGICAL SOCIETY, Milwaukee, Wisconsin.  
Archeologist, current numbers.
- WISCONSIN GEOLOGICAL AND NATURAL HISTORY SOCIETY.  
Madison, Wisconsin.  
Bulletin, current numbers.
- WISCONSIN STATE BOARD OF AGRICULTURE, Madison, Wisconsin.  
Annual report, 1909.
- WISCONSIN STATE HISTORICAL SOCIETY, Madison, Wisconsin.  
5 publications.
- WISCONSIN UNIVERSITY, Madison, Wisconsin.  
31 publications.
- WISTAR INSTITUTE OF ANATOMY AND BIOLOGY, Philadelphia,  
Pennsylvania.  
Bulletin, nos. 3-4.
- WITTROCK, BRECHER, Albano, Sweden.  
Acta Horti Bergiani, v. 3, pts. 1-2.
- WOOD, NORMAN A., Ann Arbor, Michigan.  
1 pamphlet (gift).
- WORCESTER FREE PUBLIC LIBRARY, Worcester, Massachusetts.  
Annual report, 1907-8.  
Bulletin, current numbers.

- WREN, CHRISTOPHER, Athens, Pennsylvania.  
 1 pamphlet (gift).
- WURTEMBERG VEREIN FÜR NATURKUNDE, Württemberg, Germany.  
 Jahreshefte, no. 63, with 2 beilage.
- WYOMING AGRICULTURAL EXPERIMENT STATION, Laramie,  
 Wyoming.  
 Bulletin, current numbers.
- WYOMING HISTORICAL AND GEOLOGICAL SOCIETY, Wilkes-Barre,  
 Pennsylvania.  
 Proceedings and collections, v. 10.
- YALE UNIVERSITY, New Haven, Connecticut.  
 publications.
- ZIMANYI, KARL, Budapest, Hungary.  
 1 separates.
- ZIMMERMAN, JEREMIAH, Syracuse, New York.  
 1 pamphlet (gift).
- ZÜRICH BOTANISCHES MUSEUM DER UNIVERSITÄT, Zürich, Switzer-  
 land.  
 Mitteilungen, nos. 40-43, 45, 54.  
 4 dissertations.
- ZÜRICH, GEOGRAPHISCH-ETHNOGRAPHISCHE GESELLSCHAFT,  
 Zürich, Switzerland.  
 Jahresberichte, 1908-09.
- ZÜRICH, NATURFORSCHENDE GESELLSCHAFT, Zürich, Switzerland.  
 Vierteljahrsschrift, current numbers.



Egyptian Sarcophagus, of Granite.

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## ARTICLES OF INCORPORATION.

## STATE OF ILLINOIS.

DEPARTMENT OF STATE.

WILLIAM H. HINRICHSEN, *Secretary of State.*

TO ALL TO WHOM THESE PRESENTS SHALL COME, GREETING:

Whereas, a Certificate duly signed and acknowledged having been filed in the office of the Secretary of State, on the 16th day of September, A. D. 1893, for the organization of the COLUMBIAN MUSEUM OF CHICAGO, under and in accordance with the provisions of "An Act Concerning Corporations," approved April 18, 1872, and in force July 1, 1872, and all acts amendatory thereof, a copy of which certificate is hereto attached.

Now, therefore, I, William H. Hinrichsen, Secretary of State of the State of Illinois, by virtue of the powers and duties vested in me by law, do hereby certify that the said COLUMBIAN MUSEUM OF CHICAGO is a legally organized Corporation under the laws of this State.

*In Testimony Whereof*, I hereto set my hand and cause to be affixed the Great Seal of State. Done at the City of Springfield, this 16th day of September, in the year of our Lord one thousand eight hundred and ninety-three, and of the Independence of the United States the one hundred and eighteenth.

W. H. HINRICHSEN,  
*Secretary of State.*

[SEAL.]

TO HON. WILLIAM H. HINRICHSEN,

SECRETARY OF STATE:

SIR:

We, the undersigned, citizens of the United States, propose to form a corporation under an act of the General Assembly of the State of Illinois, entitled "An Act Concerning Corporations," approved April 18, 1872, and all acts amendatory thereof; and that for the purposes of such organization we hereby state as follows, to wit:

1. The name of such corporation is the "COLUMBIAN MUSEUM OF CHICAGO."
2. The object for which it is formed is for the accumulation and dissemination of knowledge, and the preservation and exhibition of objects illustrating Art, Archeology, Science, and History.
3. The management of the aforesaid Museum shall be vested in a Board of FIFTEEN (15) TRUSTEES, five of whom are to be elected every year.

of the following signers are hereby selected as the Trustees for the foregoing purposes, to-wit:

George E. Adams, C. B. Farwell, George E. Adams, George R. Davis, Charles H. Hartman, Daniel H. Burnham, John A. Roche, M. C. Bullock, Edward H. Hurler, Lewis W. Ellsworth, Allison V. Armour, O. F. Ables, Edwin Walker, George H. Jackson, and Frank W. Gunsaulus.

Witness my hand and the seal of the Museum in the City of Chicago, County of Cook, State of Illinois, this 14th day of September, 1893.

Signed:

George E. Adams, C. B. Farwell, Sidney C. Eastman, F. W. Putnam, Robert M. Mills, Andrew Peterson, L. J. Gage, Charles L. Hutchinson, Emerson F. Ayer, Jr., Andrew Mc Nally, Edward E. Aver, John M. Clark, Herman H. Kneass, George S. Leeder, Henry H. Getty, William R. Harper, Frank De Haven, A. B. Keith, Irving Pearce, Axel F. Hatch, Henry Wade Packer, J. M. B. Hays, J. Z. Loper, A. C. Bartlett, A. A. Sprague, A. C. McClurg, Lewis W. S. C. George F. Byrrell, John R. Walsh, Chas. Fitzsimons, John A. Roche, F. B. McClurg, Owen F. Ables, Ferdinand W. Peck, James H. Dale, Ernest Hays, Edward B. Butler, John McConnell, R. A. Waller, H. C. Crawford, Evelyn A. Crawford, Wm. Sooy Smith, P. S. Peterson, John C. Black, E. J. Mitchell, C. F. Gunther, George R. Davis, Stephen A. Forbes, Robert W. Packer, Jr., M. C. Bullock, Edwin Walker, George M. Pullman, William F. Coker, Lewis W. Ellsworth, William E. Hale, Wm. T. Baker, Martin A. Ryan, C. H. Hartman, W. Jackson, N. B. Ream, Norman Williams, Melville E. Stone, Robert H. Hays, Elizabeth W. Blatchford, Philip D. Armour.

STATE OF ILLINOIS,  
COUNTY OF COOK.

I, G. R. MITCHELL, a Notary Public in and for said County, do hereby certify that the foregoing petitioners personally appeared before me and acknowledged generally that they signed the foregoing petition as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this 14th day of September, 1893.

G. R. MITCHELL,

NOTARY PUBLIC, COOK COUNTY, ILL.

#### CHANGE OF NAME

Resolved, a resolution passed at a meeting of the Corporate members held the 15th day of November, 1923, that the name of the COLUMBIAN MUSEUM be changed to FIELD COLUMBIAN MUSEUM. A certificate to this effect was filed for record in the office of the Secretary of State for Illinois.

#### CHANGE OF NAME

Resolved, a resolution passed at a meeting of the Corporate members held the 15th day of November, 1923, the name of the FIELD COLUMBIAN MUSEUM be changed to FIELD MUSEUM OF NATURAL HISTORY. A certificate to this effect was filed November 19, 1923, in the office of the Secretary of State for Illinois.

## AMENDED BY-LAWS.

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(APRIL 12, 1909.)

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### ARTICLE I.

#### MEMBERS.

SECTION 1. Members shall be of five classes, Annual Members, Corporate Members, Life Members, Patrons, and Honorary Members.

SEC. 2. Annual Members shall consist of such persons as are selected from time to time by the Board of Trustees at any of its meetings, and who shall pay an annual fee of ten dollars (\$10.00), payable within thirty days after notice of election, and within thirty days after each recurring annual date. The failure of any person to make such initiatory payment and such annual payments within said time shall, at the option of the Board of Trustees, be sufficient grounds for the forfeiture of an annual membership.

This said annual membership shall entitle the member to:

*First.* — Free admittance for the member and family to the Museum on any day.

*Second.* — Ten tickets every year, admitting the bearer to the Museum on pay days.

*Third.* — A copy of all publications of the Museum when requested.

*Fourth.* — Invitations to all special exhibits, receptions, lectures, or other functions which may be given at the Museum.

SEC. 3. The Corporate Members shall consist of the persons named in the articles of incorporation, and of such other persons as shall be chosen from time to time by the Board of Trustees at any of its meetings, upon the recommendation of the Executive Committee; provided, that such persons named in the articles of incorporation shall, within ninety days from the adoption of these By-Laws, and persons hereafter chosen as Corporate Members shall, within ninety days of their election, pay into the treasury the sum of twenty dollars (\$20.00) or more. The failure of any person to make such payment within said time, shall, at the option of the Board of Trustees, be ground for forfeiture of his corporate membership. Corporate Members becoming Life Members, Patrons, or Honorary Members shall be exempt from dues. Annual meetings of said Corporate Members shall be held at the same place and on the same day that the annual meeting of the Board of Trustees is held.

SEC. 4. Any person paying into the treasury the sum of five hundred dollars (\$500.00), at any one time, shall, upon the unanimous vote of the Board, become a Life Member. Life Members shall be exempt from all dues.

SECTION 1. Patrons shall be chosen by the Board upon recommendation of the Director, from among persons who have rendered eminent service to the Museum. They shall be exempt from all dues, and, by virtue of their patronage, Patrons shall also be Corporate Members.

SECTION 2. Honorary Members shall be chosen by the Board from among persons who have rendered eminent service to science, and only upon unanimous recommendation of the Executive Committee. They shall be exempt from all dues.

## ARTICLE II.

### BOARD OF TRUSTEES.

SECTION 1. The Board of Trustees shall consist of fifteen members. The fifteen members of the Board now in office, and those who shall hereafter be elected, shall hold office during life. Vacancies occurring in the Board shall be filled at a regular meeting of the Board, upon the nomination of the Executive Committee made at a preceding regular meeting, by a majority vote of those assembled at the Board present.

SECTION 2. Regular meetings of the Board shall be held on the second Monday of each month. Special meetings may be called at any time by the President, and may be called by the Secretary upon the written request of three Trustees. Five Trustees shall constitute a quorum, except for the election of officers or the adoption of the Annual Budget, when seven Trustees shall be required, but meetings may be adjourned by any less number from day to day, or to a date to be provided for at the next regular meeting.

SECTION 3. Reasonable written notice, designating the time and place of holding meetings, shall be given by the Secretary.

## ARTICLE III.

### OFFICERS.

SECTION 1. The officers shall be a President, a First Vice-President, a Second Vice-President, a Secretary, an Assistant Secretary, and a Treasurer. They shall be chosen by ballot by the Board of Trustees, a majority of those present and voting being necessary to elect. The President, the First Vice-President, and the Second Vice-President shall be chosen from among the members of the Board of Trustees. The meeting for the election of officers shall be held on the second Monday of January of each year, and shall be called the Annual Meeting.

SECTION 2. The officers shall hold office for one year, or until their successors are elected and qualified, but any officer may be removed at any regular meeting of the Board by a unanimous vote of two-thirds of all the members of the Board. Vacancies in any office may be filled by the Board at any meeting.

SECTION 3. The officers shall perform such duties as ordinarily appertain to their offices, and such duties shall be prescribed by the By-Laws, or designated from time to time by the Board of Trustees.

## ARTICLE IV.

### THE TREASURER.

SECTION 1. The Treasurer shall be custodian of the funds of the Corporation. He shall make disbursements only upon warrants drawn by the Director

and countersigned by the President. In the absence or inability of the Director warrants may be signed by the Chairman of the Finance Committee, and in the absence or inability of the President, may be countersigned by one of the Vice-Presidents. But no warrants shall be issued, except in conformity with a regularly prepared voucher, giving the name of the payee and stating the occasion for the expenditure, and verified and approved as hereinafter prescribed. It shall be no part of the duties of the Treasurer to see that the warrants have been issued in conformity with such vouchers.

SEC. 2. The securities and muniments of title belonging to the Corporation shall be placed in the custody of some Trust Company of Chicago to be designated by the Board of Trustees, which Trust Company shall collect the income and principal of said securities as the same become due, and pay same to the Treasurer. Said Trust Company shall allow access to and deliver any or all securities or muniments of title to the joint order of the following officers, namely: The President or one of the Vice-Presidents, jointly with the Chairman, or one of the Vice-Chairmen, of the Finance Committee of the Museum.

SEC. 3. The Treasurer shall give bond in such amount, and with such sureties, as shall be approved by the Board of Trustees.

SEC. 4. All vouchers executed for the payment of liabilities incurred in the administration of the Museum, shall be verified by the Auditor, and approved for payment by the Director, and the Chairman of the Administration Committee. All vouchers executed for expenditures for the construction or reconstruction of the Museum building, or buildings, shall be verified by the Auditor and approved for payment by the Chairman of the Building Committee. All vouchers executed in connection with the investments of the Corporation, or, in any way having to do with the endowment funds of the Corporation, shall be verified by the Auditor and approved for payment by the Chairman of the Finance Committee.

## ARTICLE V.

### THE DIRECTOR.

SECTION 1. The Board of Trustees shall elect a Director of the Museum, who shall remain in office until his successor shall be elected. He shall have immediate charge and supervision of the Museum, and shall control the operations of the institution, subject to the authority of the Board of Trustees and its Committees. The Director shall be the official medium of communication between the Board, or its Committees, and the scientific staff and maintenance force.

SEC. 2. There shall be four scientific departments of the Museum—Anthropology, Botany, Geology, and Zoölogy, each under the charge of a Curator, subject to the authority of the Director. The Curators shall be appointed by the Board upon the recommendation of the Director, and shall serve during the pleasure of the Board. Subordinate staff officers in the scientific departments shall be appointed and removed by the Director upon the recommendation of the Curators of the respective Departments. The Director shall have authority to employ and remove all other employees of the Museum.

SEC. 3. The Director shall make report to the Board at each regular meeting, recounting the operations of the Museum for the previous month.

At the Annual Meeting the Director shall make an Annual Report, reviewing the operations of the Corporation during the year. The Annual Report shall be published in pamphlet form for the information of the Trustees and Members, and for free distribution in such number as the Board may direct.

#### ARTICLE VI

##### AUDITOR

SECTION 1. The Board shall appoint an Auditor, who shall hold his office until the next meeting of the Board. He shall keep a correct and accurate account, showing all the financial conditions and transactions of the Corporation, and of the Museum, and report thereon at each regular meeting, and at such other times as may be required by the Board. He shall certify to the correctness of all bills rendered for the expenditure of the money of the corporation.

#### ARTICLE VII

##### COMMITTEES

SECTION 1. There shall be five Committees as follows: Finance, Building, Auditing, Administration and Executive.

SECTION 2. The Finance, Building and Auditing Committees shall each consist of three members, and the Administration Committee shall consist of five members. All members of these four Committees shall be elected by ballot by the Board at the Annual Meeting, and shall hold office for one year, and until their successors are elected and qualified. In electing the members of these Committees the Board shall designate the Chairman and Vice-Chairman by the order in which the members are named in the respective Committee; the first member named shall be Chairman, the second named the Vice-Chairman, and the third named Second Vice-Chairman, succession to the Chairman to be determined by the order of the names of the members of the Chairman.

SECTION 3. The Executive Committee shall consist of the President of the Board, the Chairman of the Finance Committee, the Chairman of the Building Committee, the Chairman of the Administration Committee, the Chairman of the Auditing Committee, and two other members of the Board to be elected by ballot at the Annual Meeting.

SECTION 4. Four members shall constitute a quorum of the Executive Committee, three members shall constitute a quorum of the Administration Committee, and three members of each of the other Committees shall constitute a quorum. In the event that, owing to the absence or inability of members a quorum shall not be present, the members present at the meeting may, if they so desire, continue the business of the Corporation, subject to the provisions herein provided, provided that a majority of the Board of Trustees shall act in place of the absentees.

SECTION 5. The Finance Committee shall have supervision of investing the cash on hand of the Corporation, and the care of such real estate as may become its property. It shall have authority to invest, sell, and reinvest funds, subject to the approval of the Board.

SECTION 6. The Building Committee shall have supervision of the construction, reconstruction, and extension of any and all buildings used for Museum purposes.

SECTION 7. The Executive Committee shall be called together from time to time, at the discretion of the President, whenever necessary, or as he may be requested to do

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Gorilla. (*Gorilla gorilla* Savage & Wyman)



by three members of the Committee, to act upon such matters affecting the administration of the Museum as cannot await consideration at the Regular Monthly Meetings of the Board of Trustees. It shall, before the beginning of each fiscal year, prepare and submit to the Board an itemized Budget, setting forth the probable receipts from all sources for the ensuing year, and make recommendations as to the expenditures which should be made for routine maintenance and fixed charges. Upon the adoption of the Budget by the Board, the respective Committees shall be considered as authorized to make the expenditures detailed therein. No increase in the expenditures under any items of the Budget shall be made, except by authority of the Board of Trustees, but the Executive Committee shall have authority, in cases of emergency, to expend a further total sum not exceeding two thousand dollars in any one month.

SEC. 8. The Administration Committee shall have general supervision of the affairs of the Museum. The Committee shall hold one meeting each month with the Director at the Museum within a week preceding each Monthly Meeting of the Board of Trustees.

SEC. 9. The Auditing Committee shall have supervision over all accounting and bookkeeping, and full control of the financial records. It shall cause the same, once each year, or oftener, to be examined by an expert individual or firm, and shall transmit the report of such expert individual or firm to the Board at the next ensuing regular meeting after such examination shall have taken place.

SEC. 10. The Chairman of each Committee shall report the acts and proceedings thereof at the next ensuing regular meeting of the Board.

SEC. 11. The President shall be ex-officio a member of all Committees and Chairman of the Executive Committee. Vacancies occurring in any Committee may be filled by ballot at any regular meeting of the Board.

#### ARTICLE VIII.

##### NOMINATING COMMITTEE.

SECTION 1. At the November meeting of the Board each year a Nominating Committee of three shall be chosen by lot. Said Committee shall make nominations for membership of the Finance Committee, the Building Committee, the Administration Committee, and the Auditing Committee, and for two members of the Executive Committee, from among the Trustees, to be submitted at the ensuing December meeting and voted upon at the following Annual Meeting in January.

#### ARTICLE IX.

SECTION 1. Whenever the word "Museum" is employed in the By-Laws of the Corporation, it shall be taken to mean the building in which the Museum as an Institution is located and operated, the material exhibited, the material in study collections, or in storage, furniture, fixtures, cases, tools, records, books, and all appurtenances of the Institution, and the workings, researches, installations, expenditures, field work, laboratories, library, publications, lecture courses, and all scientific and maintenance activities.

SEC. 2. These By-Laws may be amended at any regular meeting of the Board of Trustees by a two-thirds vote of all the members present, provided the amendment shall have been proposed at a preceding regular meeting.

## HONORARY MEMBERS.

---

EDWARD E. AYER  
HARLOW N. HIGINBOTHAM  
CHARLES B. GORY

STANLEY McCORMICK  
ROBERT F. CUMMINGS  
MRS. TIMOTHY B. BLACKSTONE

DECEASED.

GEORGE M. PULLMAN  
MARY D. STURGES.

## PATRONS.

ALLISON V. ARMOUR  
DANIEL H. BURNHAM  
ERNEST R. GRAHAM  
VERNON SHAW KENNEDY  
GEORGE MANIERRE

JOHN S. MILLER  
JOHN BARTON PAYNE  
FREDERICK W. PUTNAM  
FREDERICK J. V. SKIFF  
WILLARD A. SMITH

EDWIN WALKER

DECEASED.

WILLIAM I. BUCHANAN

## CORPORATE MEMBERS.

ADAMS, GEORGE E.	HUTCHINSON, CHARLES L.
ALDIS, OWEN F.	JONES, ARTHUR B.
ARMOUR, ALLISON V.	KENNEDY, VERNON SHAW
AYER, EDWARD E.	KOHLSAAT, HERMAN H.
BARTLETT, A. C.	LATHROP, BRYAN
BLACK, JOHN C.	McCORMICK, CYRUS H.
BLAIR, WATSON F.	MANIERRE, GEORGE
BLATCHFORD, ELIPHALET W.	MILLER, JOHN S.
BUCKINGHAM, EBENEZER	MITCHELL, JOHN J.
BURNHAM, DANIEL H.	PATTERSON, ROBERT W.
BUTLER, EDWARD B.	PAYNE, JOHN BARTON
CHALMERS, W. J.	PECK, FERD. W.
CHATFIELD-TAYLOR, H. C.	PORTER, GEORGE F.
CLARK, JOHN M.	PUTNAM, FREDERICK W.
CRANE, RICHARD T., Jr.	REAM, NORMAN B.
CURTIS, WILLIAM E.	RYERSON, MARTIN A.
EASTMAN, SIDNEY C.	SKIFF, FREDERICK J. V.
ELLSWORTH, JAMES W.	SMITH, BYRON L.
FIELD, STANLEY	SMITH, WILLARD A.
GAGE, LYMAN J.	SPRAGUE, A. A.
GETTY, HENRY H.	STONE, MELVILLE E.
GRAHAM, ERNEST R.	WALKER, EDWIN
GUNSAULUS, FRANK W.	WALSH, JOHN R.
GUNTHER, C. F.	
HEAD, FRANKLIN H.	
HIGINBOTHAM, H. N.	

## DECEASED.

ARMOUR, PHILIP D.	McCAGG, E. B.
BAKER, WILLIAM T.	McCLURG, A. C.
BISSEL, GEORGE F.	McNALLY, ANDREW
BUCHANAN, W. I.	PEARCE, J. IRVING
CRAWFORD, ANDREW	PETERSON, ANDREW
DAVIS, GEORGE R.	PULLMAN, GEORGE M.
FITZSIMONS, CHARLES	SCHNEIDER, GEORGE
HALE, WILLIAM E.	SCOTT, JAMES W.
HARPER, WILLIAM R.	STOCKTON, JOSEPH
HATCH, AZEL F.	WALLER, R. A.
JACKSON, HUNTINGTON W.	WILLIAMS, NORMAN
LEITER, L. Z.	

LIFE MEMBERS.

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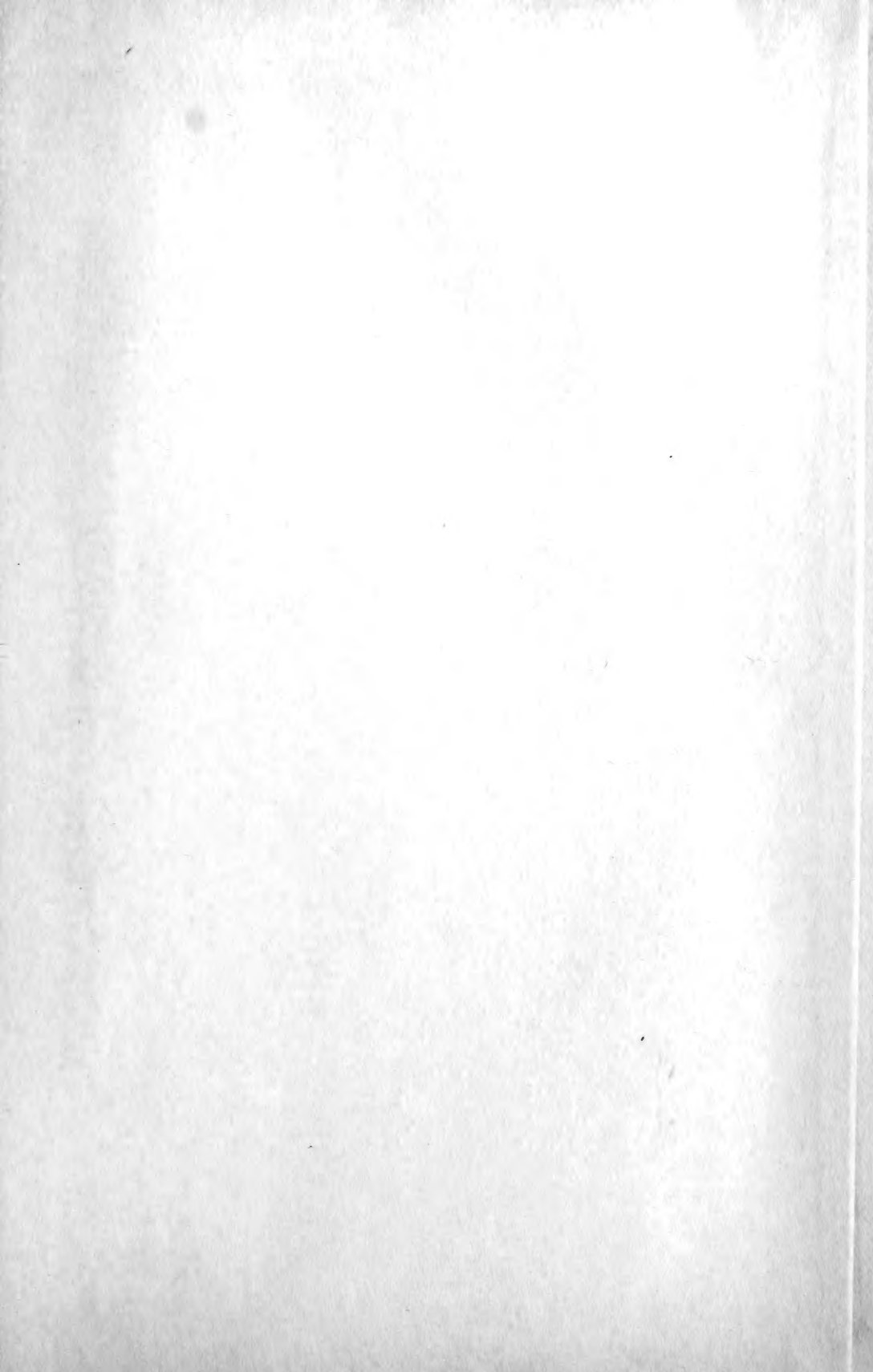
Scene of Excavation of Mastaba Tombs. (Stones Boxed and Ready for Shipment.)

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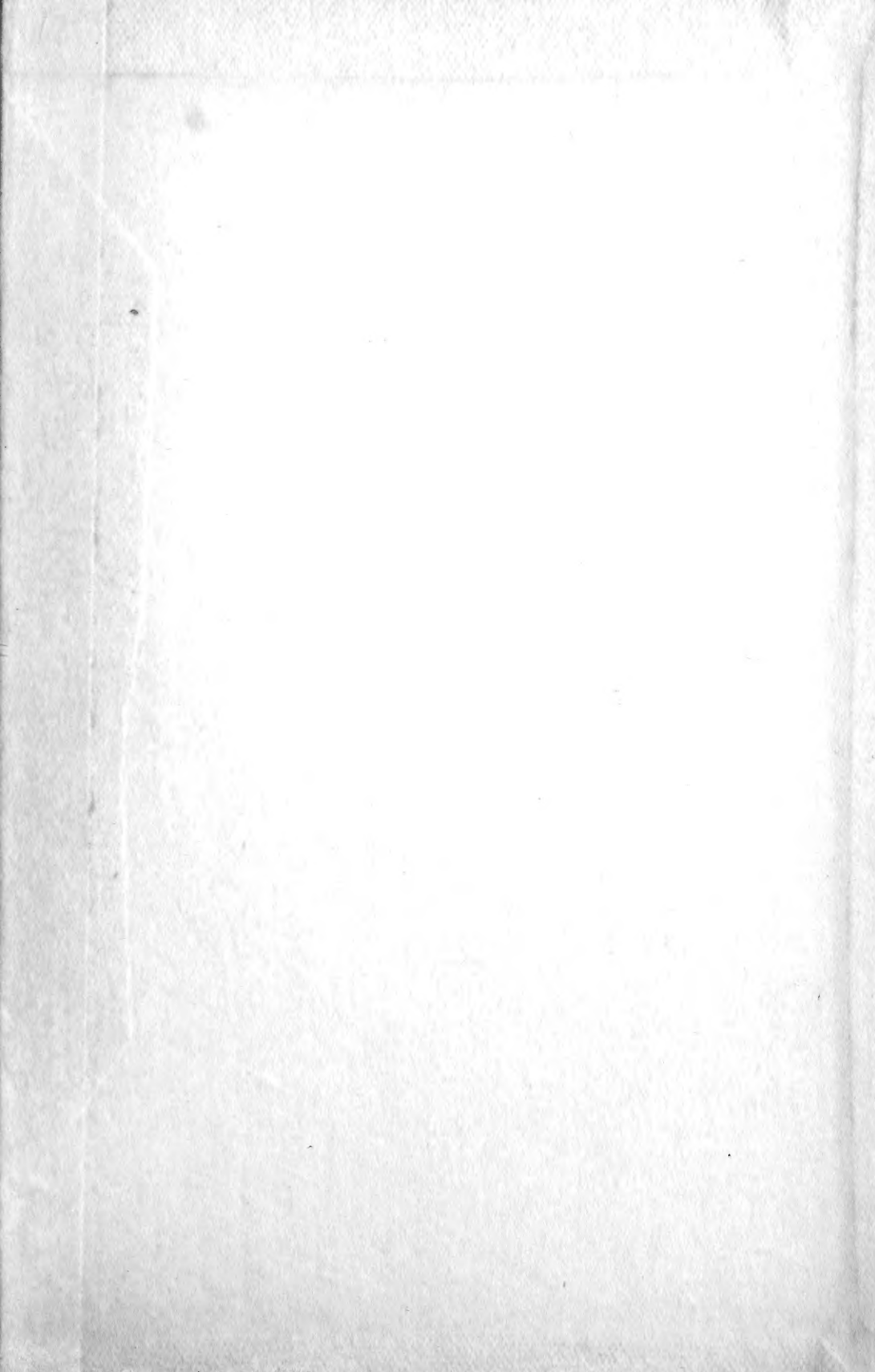












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