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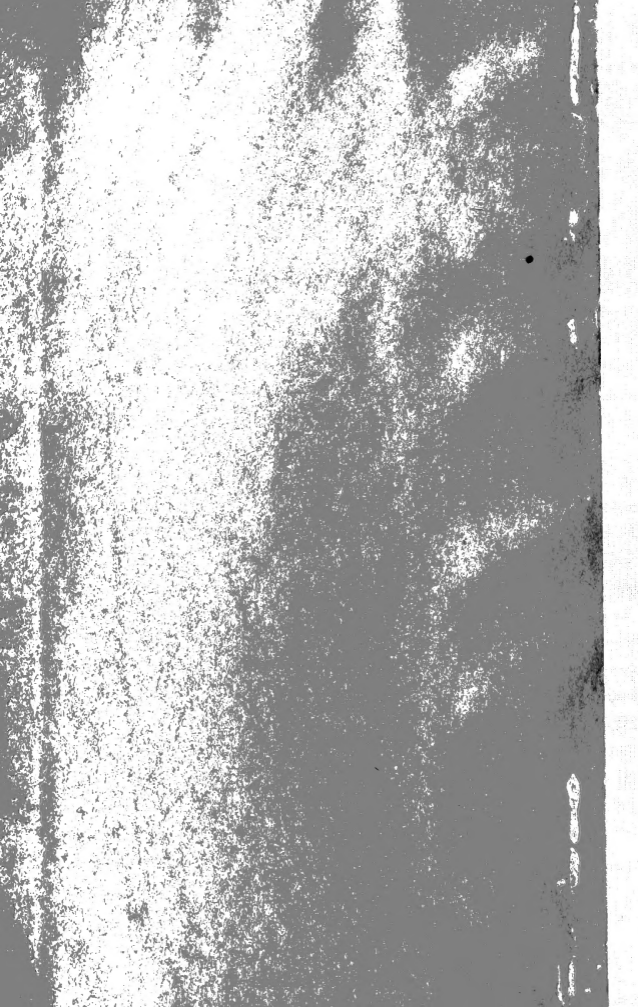
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FIELD COLUMBIAN MUSEUM

PUBLICATION 107

REPORT SERIES

VOL. 11, No. 5

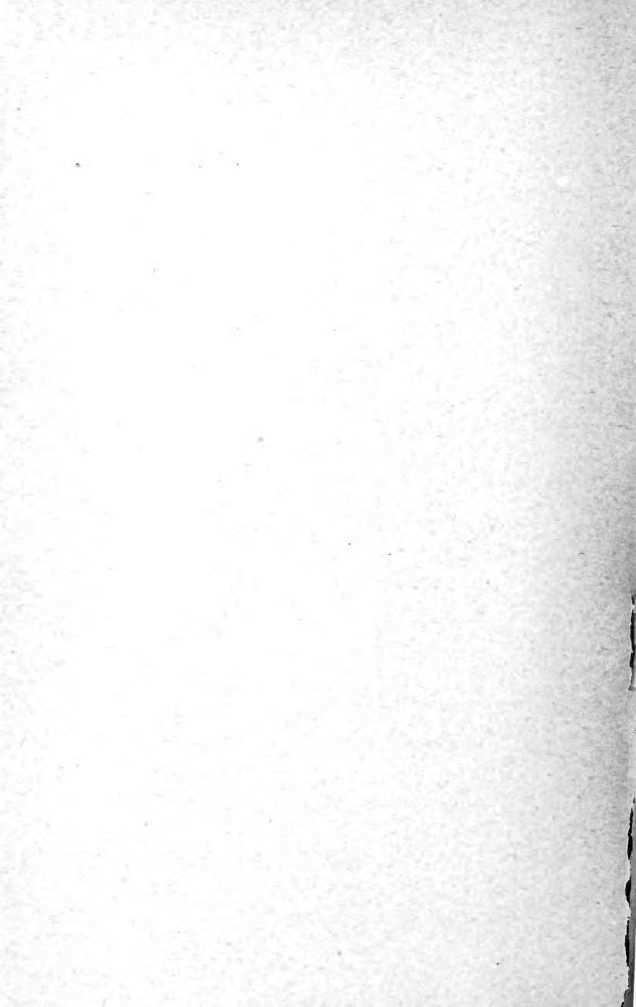
ANNUAL REPORT OF THE
DIRECTOR

TO THE
BOARD OF TRUSTEES

FOR THE YEAR 1904-1905



CHICAGO, U. S. A.
October, 1905





MARTIN A. RYERSON, VICE-PRESIDENT.

FIELD COLUMBIAN MUSEUM

PUBLICATION 107

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DIRECTOR

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CHICAGO, U. S. A.

October, 1905

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ANNUAL REPORT OF THE DIRECTOR 1904-1905

To the Trustees of the Field Columbian Museum :

I have the honor to present a report of the operations of the Museum for the year ending September 30, 1905.

In some respects the year just closed has been the most important and interesting in the history of the institution. The consideration by the Staff of the plans of the new building ; the acquisition of a large amount of valuable material from the Louisiana Purchase Exposition, the expeditions and the several important collections purchased have all been factors in making the period covered by the last twelve months noteworthy. The building has been inspected for safety by experts appointed by the architects and repaired and strengthened in accordance with their recommendations. The exterior of the building has been replastered and will be repainted early in the Spring.

The Director attended the International Congress on Economics and Expansion at Mons, Belgium, in September. The Convention had a distinct ethnological and sociological tendency, and the proceedings in the more important sections were largely dominated by scientific men who gave a scholarly tone to the sessions and placed the records of the Congress on an academic basis. The most important action of the Congress as relates to the scope of the Field Institution, was the adoption of a Memorial for the formation of a permanent organization to be termed the International Bureau of Ethnography.

MAINTENANCE.—The cost of maintenance for the year 1904-1905 was \$122,880, an increase over the previous year of approximately \$13,000. The excess was occasioned by an increase in the cost of repairs and alterations to the building of \$3,500; additions to the general staff accounting for an increase in salaries of \$4,000, and \$5,000 due to extraordinary expenses in connection with the installation of new material obtained chiefly from the Louisiana Purchase Exposition. The total amount expended as shown by the financial

statement was \$208,467. The difference, \$86,000, between this amount and the cost of maintenance is accounted for by special appropriations, for: cases, \$10,000; expeditions, \$11,000; publications, \$5,500; special exterior repairs, \$5,500; and collections purchased, \$50,000. The latter item exceeds any amount previously expended for new material in any one year with the exception of the first year of the Museum's existence.

STAFF OF THE MUSEUM.—The Staff has been augmented by the appointment of Dr. Jesse M. Greenman, formerly of the Gray Herbarium, as Assistant Curator of the Department of Botany, and by the appointment of Dr. N. Dearborn as Assistant Curator in charge of Ornithology.

LECTURE COURSES.—Both the Autumn and the Spring Lecture Courses were given in Fullerton Memorial Hall by special arrangement with the trustees of the Art Institute, and it is encouraging to state that the capacity of the hall was taxed at almost every lecture. Opportunity is here taken to thank the gentlemen who very generously coöperated in this method of public instruction.

Following is the Twenty-first Lecture Course, delivered during the months of October and November, 1904, with the subjects and lecturers:

- | | | | |
|------|-----|------------------------------------------------------------------|------------------------------------------------------|
| Oct. | 1. | “ Wild Flowers of the Chicago Basin.” | Dr. C. F. Millspaugh, Curator of Botany. |
| Oct. | 8. | — “ Japan — Land of Lacquer and Bamboo.” | Dr. C. F. Millspaugh, Curator of Botany. |
| Oct. | 15. | — “ Variation of Birds.” | Dr. N. Dearborn, Department of Ornithology. |
| Oct. | 22. | — “ Crystals.” | Dr. O. C. Farrington, Curator of Geology. |
| Oct. | 29. | — “ Wyandotte and Marengo Caves.” | Dr. O. C. Farrington, Curator of Geology. |
| Nov. | 5. | — “ A Naturalist in Africa — Field Columbian Museum Expedition.” | Prof. D. G. Elliot, F. R. S. E., Curator of Zoölogy. |
| Nov. | 12. | — “ Cats and the Lands they Inhabit.” | Prof. D. G. Elliot, F. R. S. E., Curator of Zoölogy. |

- Nov. 19. — "The Decorative Art of the North American Indians — Part I."
Dr. G. A. Dorsey, Curator of Anthropology.
- Nov. 26. — "The Decorative Art of the North American Indians — Part II."
Dr. G. A. Dorsey, Curator of Anthropology.

The following is the Twenty-second Lecture Course, delivered in March and April, 1905, with the subjects and lecturers:

- March 4. — "The Explanation of Indian Ceremonies."
Dr. G. A. Dorsey, Curator of Anthropology.
- March 11. — "Giant Reptiles of North America."
Mr. E. S. Riggs, Assistant Curator, Division of Paleontology.
- March 18. — "Extinct Mammals of North America."
Mr. E. S. Riggs, Assistant Curator, Division of Paleontology.
- March 25. — "Aims and Methods of Bird Study."
Dr. N. Dearborn, Assistant Curator, Department of Ornithology.
- April 1. — "Hawaiian Cruise of the Albatross."
Prof. C. C. Nutting, Professor of Zoölogy, University of Iowa.
- April 8. — "The Fertilization of Flowers by Insects."
Dr. F. H. Snow, Professor of Systematic Entomology, University of Kansas.
- April 15. — "Geographic Factors Involved in the Rise of Chicago."
Dr. J. Paul Goode, Assistant Professor of Geography, University of Chicago.
- April 22. — "How Rivers and Lakes became Stocked with Fishes."
Dr. S. E. Meek, Assistant Curator of Zoölogy.
- April 29. — "The Basketry of California."
Dr. J. W. Hudson, Department of Anthropology.

PUBLICATIONS.—The publications of the Museum have appeared as usual from time to time as opportunity presented itself. The list includes seven numbers of the established series, details of which follow:

- Pub. 96. — Anthropological Series, Vol. 8. "The Traditions of the Hopi." By H. R. Voth. 319 pp., no illustrations, edition 1,500.
- Pub. 97. — Anthropological Series, Vol. 4, No. 2. "Oraibi Natal Customs and Ceremonies." By H. R. Voth. 14 pp., 8 illustrations (half-tones), edition 1,500.
- Pub. 98. — Report Series, Vol. II, No. 4. "Annual Report of the Director to the Board of Trustees, for the Year 1903-1904." 80 pp., 12 illustrations (half-tones), edition 2,500.
- Pub. 99. — Anthropological Series, Vol. 9, No. 1. "The Cheyenne." Part I. "The Ceremonial Organization." By George A. Dorsey. 55 pp., 23 illustrations (11 colored plates and 12 zinc etchings), edition 1,500.
- Pub. 100. — Anthropological Series, Vol. VI, No. 3. "Hopi Proper Names." By H. R. Voth. 47 pp., no illustrations, edition 1,500.
- Pub. 101. — Geological Series, Vol. II, No. 1. "The Rodeo Meteorite." By O. C. Farrington. 13 pp., 4 illustrations (half-tones), edition 1,500.
- Pub. 103. — Anthropological Series, Vol. IX, No. 2. "The Cheyenne." Part II. "The Sun Dance." By George A. Dorsey. 131 pp. 159 illustrations (13 colored plates, 136 half tones, and 10 zinc etchings.)

The Museum Exchange List now numbers 1,123 names, of which 510 are in foreign countries and 613 in the United States. Early in the year the list was carefully revised and many changes and additions made.

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

Canada,	29	Greece,	2
Central America,	6	The Netherlands,	10
Cuba and the West Indies,	5	Italy,	28
Mexico,	16	Malta,	1
Philippine Islands,	1	Norway,	7
Yucatan,	2	Portugal,	5
Argentine Republic,	10	Roumania,	1
Brazil,	7	Russia,	14
British Guiana,	1	Spain,	5

Chili,	1	Sweden,	10
Peru,	2	Switzerland,	11
U. S. Columbia,	2	India,	11
Uruguay,	1	Japan,	6
Austria,	23	Egypt,	1
Belgium,	12	Liberia,	1
Denmark,	4	South Africa,	8
France,	42	Australia,	22
Germany,	104	Oceanica,	9
Great Britain,	83	Tasmania,	2

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

General, everything issued by the Museum,	161
Anthropological,	85
Botanical,	48
Geological,	78
Orinthological,	9
Report,	6
Anthropological and Geological,	5
Geological and Zoölogical,	19
Zoölogical,	39
Botanical and Geological,	15
Botanical, Geological, and Zoological,	27
Miscellaneous,	18

510

The publications are distributed to the different states as follows:

Alabama,	2	Missouri,	13
Arizona,	1	Montana,	3
Arkansas,	1	Nebraska,	7
California,	29	Nevada,	1
Colorado,	12	New Hampshire,	5
Connecticut,	21	New Jersey,	16
Delaware,	2	New York,	95
District of Columbia,	84	North Carolina,	6
Florida,	1	New Mexico,	1
Georgia,	1	Ohio,	24
Illinois,	58	Oregon,	1
Indiana,	12	Pennsylvania,	35
Iowa,	12	Rhode Island,	6
Kansas,	7	South Carolina,	1
Kentucky,	2	South Dakota,	2
Louisiana,	4	Tennessee,	2
Maine,	7	Texas,	2
Maryland,	12	Vermont,	3
Massachusetts,	69	Virginia,	3

Michigan,	12	Washington,	3
Minnesota,	11	West Virginia,	3
Mississippi,	3	Wisconsin,	16
		Wyoming,	2

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

DOMESTIC

General, everything issued by the Museum,	167
Anthropological,	82
Botanical,	85
Geological,	114
Ornithological,	9
Report,	35
Zoological,	20
Geological and Zoölogical,	18
Geological and Anthropological,	7
Botanical, Geological, Ornithological, and Zoölogical,	42
Botanical and Zoölogical,	11
Botanical and Geological,	3
Miscellaneous,	11
	613

It would seem pertinent to mention that the service of the Bureau of International Exchange connected with the Smithsonian Institution in distributing the publications to foreign countries is highly satisfactory, and grateful acknowledgment is tendered that Institution for providing such excellent facilities.

A special report of the work done at the St. Louis Fair and a list of the material obtained was published for private circulation only.

LIBRARY. — The number of books and pamphlets in the library is now 36,572, which represent an addition during the year of 1,375 books and 1,032 pamphlets, distributed as follows:

	Books.	Pamphlets.
General Library,	12,518	16,563
Department of Anthropology,	600	85
Department of Botany,	740	310
Department of Geology,	1,998	2,984
Department of Ornithology,	397
Department of Zoölogy,	361	7

The additions during the year were 540 titles acquired as follows: By purchase 273 books and 63 pamphlets, and the remainder by gifts and exchange. The Library receives 160 periodicals, 77 of

which are purchased. A number of valuable books have been purchased during the year, among them the following: — Thwaite's *Early Western Travels*, 1748-1846 (31 vs.). Blair and Richardson, *The Philippine Islands*, 1493-1898 (55 vs.). Cavanilles, *Icones et Descriptiones Plantarum*, 1791-1801 (6 vs.). Humboldt, von, *Nova Genera et Species Plantarum*, 1815-1825 (6 vs.). It was ascertained during the year that there were a number of institutions, both at home and abroad, that were publishing literature that would be of great assistance to the staff and students of the Museum. Invitations to the number of 330 were extended for an exchange of publications and it is gratifying to report that very hearty acceptances have been received from a large proportion of those addressed. Several of these societies have sent, also, as complete sets of their back publications as were available; among them are the Saint Petersburg Imperial Academy of Sciences, which sent its *Memoirs* dating back to 1830, and, while not complete, are most valuable; The Société Belge de Géologie, de Paléontologie, Bruxelles, 8 volumes; Royal Botanical Garden, Ceylon, 3 volumes; Biblioteca Nacional, Chile, 21 volumes; Royal Zoölogical Society, Dublin, 15 reports; Field Naturalists and Microscopical Society, Edinburgh, 5 volumes; Gesellschaft der Naturfreunde, Stuttgart, 6 volumes; Manchester Literary and Philosophical Society, England, 10 volumes; South African Philosophical Society, Cape Town, 7 volumes; Missouri Horticultural Society, 11 volumes; and Iowa State Horticultural Society, 13 volumes. An inventory has been made of all books and pamphlets purchased since the establishment of the Library in 1894. On account of the increasing number of books needed in the Departmental Libraries, it was thought advisable to nominate a member of the staff of each department to have charge of the books, and the wisdom of this step is already apparent. Four hundred and fifteen additional titles were furnished for the Second Supplement (now in press) of the List of Serials in the Libraries of Chicago. The number of cards written and added to the catalogues was 8,435, exclusive of several thousand cards received from the Department of Agriculture, to which the call number of the Library was added. Twelve installments of the John Crerar Library catalogue cards have been received. 583 books have been sent to the bindery during the year, of which 225 have been returned.

DEPARTMENTAL CATALOGUING, INVENTORING AND LABELING.—The records of the Department of Anthropology show an unusually large num-

ber of specimens entered in the inventory books during the year. These books now number 25 volumes. Card catalogues have been made of collections as fast as they have been received, and few of the great collections acquired remain uncatalogued. The preparation of lists of specimens from the catalogue cards for the office of the Recorder have been brought to date. Aluminum sunken labels have been prepared during the year for the North Pacific Coast collection and for a large part of the California collection, while identifying labels have been placed on all specimens on exhibition. The Curator of Botany reports entries to the number of 16,147 as having been made during the year, bringing the total up to date to 178,008 items contained in 51 catalogue books. In addition to this, approximately 2,500 cards have been written. In the Department of Geology the amount of cataloguing performed was greater than usual, owing to the large quantity of material obtained from the Louisiana Purchase Exposition. The cataloguing of the invertebrate fossils collected by Mr. Slocum in western New York was also a task of considerable magnitude. With the exception of the Bixby collection, however, which was not received until late in the year, it is possible to report all material in the Department fully inventoried and catalogued. The record of the entries is as follows: Number of Record Books, 19; total number of entries, 52,835; entries during the year, 15,011; total number of cards written, 6,600. These entries are subdivided as follows: Paleontological specimens, 11,546; economic specimens, 1,748; mineral specimens, 1,100; geological specimens, 264; lithological specimens, 187; meteorites, 149; and geographical specimens, 17. The cataloguing of photographs filed in the Department albums has been continued, and additions made during the year number 301. In addition, a system of filing loose photographs has been established, which proves very serviceable for preserving such photographs and rendering them accessible. The files used are similar to the ordinary letter file reinforced by a binding of strong muslin. In these the photographs are filed alphabetically, while the files are grouped according to subjects. The number of photographs now filed in this manner in the Department is 745, and the number of files 22. New labels were provided for the meteorite collection in connection with its reinstallation. These labels are of black cardboard printed with aluminum ink and of a size to fit the front of each block on which a specimen is mounted. Each label shows the name of the meteorite, its date of fall, its classification, weight, and description of the specimen. The number of



MODEL OF PAWNEE EARTH LODGE DURING CEREMONY OF THE MEDICINE MEN.



labels so prepared is 382. In addition two diagrams illustrating graphically the composition of meteorites were made. The collections of clays, soils and sands have been fully labelled, a total of 459 labels, 30 of which were descriptive, having been prepared for this purpose. Ninety complete labels were prepared for the series of oil sands and a total of 385 labels for new specimens in the series of ores of gold, silver, copper, etc. made. A total of 1,465 labels has been prepared and printed for the Department during the year. All the new material in the Department of Ornithology, as well as a number of skins belonging to the original Cory purchase which had hitherto not been numbered, were card catalogued. A catalogue of the birds of North and Central America, including the names and geographical distribution of more than 3,000 birds, has been prepared and is ready for publication. The Curator of Zoölogy reports all records in that department as being in a highly satisfactory condition. The year's work in the Museum on catalogues and inventories is shown in detail below:

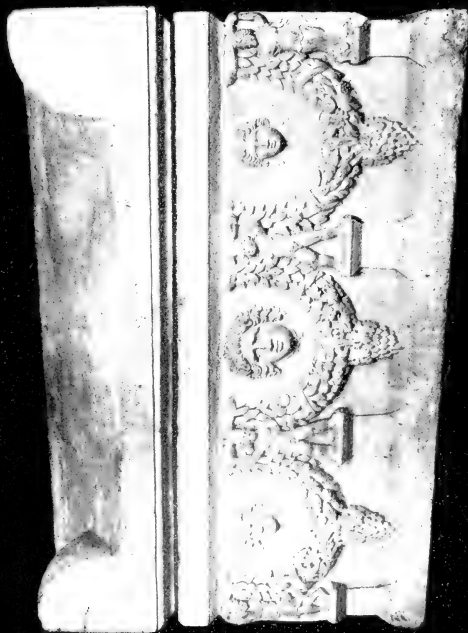
Departments.	Number of Record Books.	Total No. of Entries to Sept. 30, 1905.	Entries During 1904-1905.	Total No. of Cards Written.
Anthropology,	26	72,551	9,710	76,441
Botany,	51	178,008	16,147	7,050
Geology,	19	52,835	15,011	6,600
Library,	10	43,702	4,136	42,391
Ornithology,	10	19,699	3,681	3,402
Photography,	4	40,108	12,385
Zoölogy,	20	32,130	968	15,610

ACCESSIONS.—The most important accessions in the Department of Geology were received from the Louisiana Purchase Exposition. They were, for the most part, the gifts of home and foreign commissions of states and countries exhibiting at the Exposition. The material obtained was all carefully selected under the supervision of the Curator, and hence represents new and altogether desirable accessions only. In weight the total shipment from the Exposition aggregated about eight tons. The largest and most important acquisition received from any single commission was that from Brazil, which numbered 1,060 specimens. This included several series of ores and minerals of great rarity and importance. The important manganese ore deposits of Brazil are represented by one mass of manganese ore weighing 3,300 pounds and by several hundred pounds of ores of the same from other localities. The gold ores are represented by large masses from

the well-known Oro Velho mines of Bahia and the arsenical deposits of Minas Geraes. The characteristic siliceous and pipe iron ores of Minas Geraes are also well represented in the material obtained. A full series of diamond-bearing gravels was secured, also several hundred pounds of the Brazilian monazite sands from different localities. Ores of copper, zinc, cadmium and mercury were also secured. The minerals obtained included representatives of a number of rare species, such as goyazite, scorodite, anatase and hydrargillite, and of gem minerals, such as tourmaline, topaz, aquamarine, etc. Other foreign countries from which valuable collections were obtained were: Bulgaria, which furnished 16 specimens, chiefly of copper ores and coals; Canada, 55 specimens, ores and economic minerals, including some from the newly discovered cobalt deposits of Haileybury; Egypt, 20 specimens copper ores and salts; Germany, 29 specimens peat and its products, clays, etc.; Haiti, 39 specimens, copper, gold, manganese, and other ores, and a manuscript geological map of part of the island; Italy, 14 photographs of the marble quarries of Carrara; Japan, 14 specimens phosphates and products; New Zealand, 37 geological photographs; and Rhodesia, 20 specimens ores and minerals, including a remarkable occurrence of gold in talc. Commissions or exhibitors of the United States and territories from whom important collections were obtained were: Alaska, 10 specimens gold ores and coals; Alabama, 30 specimens, chiefly iron ores and sands; Arizona, 57 specimens copper, gold, and other ores and minerals; Arkansas, 54 specimens zinc ores, phosphates, bauxite, asphalt, etc.; California, 131 specimens ores of mercury, chromium, lithium and other metals, infusorial and nitrous earths, onyx and other ornamental stones, and a relief map 8 x 4 feet, of a portion of San Bernardino County; Illinois, 10 specimens soils and clays; Kentucky, 31 specimens clays, sands, and ores; Maryland, 20 specimens soils; Mississippi, 36 specimens clays, marls and sands; Missouri, 51 specimens zinc and iron ores, clays, barites, etc.; New Mexico, 78 specimens of various ores; New York, 17 specimens slates, talcs, and iron ores; North Carolina, 8 specimens monazite, barite, and other minerals; Oklahoma, 22 specimens clays and gypsums; South Dakota, 52 specimens gold and tungsten, ores, quartz, spodumene, mica and other products; Tennessee, 26 specimens phosphates, iron and copper ores; Utah, 33 specimens ores and rare minerals; Virginia, 168 specimens representing the different mineral resources of the state; Washington, 47 specimens gold, silver, lead and copper ores; Wisconsin, 20 specimens building stone, iron ores, etc.; and

Wyoming, 4 specimens jet, kaolin, agate and soda. Some additional valuable accessions were received by gift during the year from sources other than the Exposition. Of these may be mentioned 68 thin sections of meteorites and casts of the Bath Furnace and Boogaldi meteorites from Prof. H. A. Ward; a complete series of rocks and minerals of the Cerro Mercado, Mexico, and a number of rare Mexican minerals, in all aggregating 230 specimens, from Mr. W. H. Schlemm; a series of remarkable sand concretions from California, from Herbert W. Brown; four limonite concretions from Kentucky, from Dr. W. S. Gilmore; three limonite concretions from Indian Territory, from Gen. G. Murray Guion; a series of 83 specimens, illustrating the manufacture and uses of carborundum, from the Carborundum Company; seven specimens gold ores and tundra of Alaska, from W. M. Johnston; and 31 specimens ores and minerals of California and Arizona from the Los Angeles Chamber of Commerce. By exchange were obtained sections of five meteorites new to the collection. These were as follows: Felix and Persimmon Creek, from the United States National Museum; Billings and Bella Roca, from Prof. H. A. Ward; and St. Mesmin, from B. Sturtz. From the United States National Museum were also obtained by exchange large polished slabs of orbicular diorite from Advance, North Carolina, and of jasperized hematite from Ishpeming, Michigan. From the Montana School of Mines were received by exchange eleven specimens of the ores and rocks of the Butte district; from Mr. R. F. Jones of Concord, Massachusetts, a series of nine remarkable crystallized specimens of datolite from Westfield, Massachusetts; from Prof. L. H. Borgstrom, a cast of one of the Shelburne meteorites; and from Mr. Henry E. Purdy of Michigan City, Indiana, two complete fulgurites, each about 18 inches in length, and a number of fragments of fulgurites. The most important purchase was that of the mineral collection of Maynard Bixby of Salt Lake City. This collection represents the fruits of many years' collecting by Mr. Bixby, chiefly in the little known and comparatively inaccessible districts of Utah, Colorado and adjoining states of the West. The collection is, therefore, largely made up of mineral occurrences little known elsewhere, and affords material of a rare character for purposes of study and display. Suites of specimens which may be mentioned as of especial interest and importance are the following: Crystallized gold, weighing 3 ounces, Breckenridge, Colorado; silver nugget, weighing 3 pounds, Globe, Arizona; crystallized realgar and orpiment, Mercur; Utah; crystallized argentite and hessite, Colorado and Montana,

crystallized tiemannite, Marysvale, Utah; quartz crystals containing inclusions, phantoms, etc., Placerville, California; precious opal, Washington; precious sapphires, including crystals and rolled pebbles, Montana; minium, Leadville and Eureka, Utah; rhodochrosite in large and transparent crystals, Alma, Colorado; crystallized cerussite, Utah and Idaho; crystallized azurite in large and varied forms, Arizona; hiddenite in crystals of gem quality, Alexander County, North Carolina; rose beryl, Dugway Range, Utah; crystallized phenacite, Crystal Peak, Bear Creek and Mount Antero, Colorado; topaz crystals in great variety from the Thomas Mountains, Utah; probably the largest perfect crystal of topaz ever found in the United States, Cheyenne Mountain, Utah; large crystal of andalusite, Oreville, South Dakota; crystallized blue calamine, Elkhorn, Montana; bixbyite, Dugway Range, Utah; olivenite in great variety, Eureka, Utah; scorodite in remarkable perfection of form from the same locality; an extraordinary crystal of vivianite from Silver City, Idaho; coni-chalcite in large masses of rich color, Tintic District, Utah; crystallized uraninite, Portland, Connecticut; anglesite in crystals of remarkable perfection and size, Eureka, Utah; crystallized leadhillite, Shultz, Arizona; an extraordinary crystal of linarite on matrix, Eureka, Utah; crystallized wulfenite of rich and varied colors, Shultz, Arizona; napalite, Aetna mine, California; pseudomorphs of hematite after enargite, Copperopolis mine, Utah; and malachite pseudomorphous after selenite, Mammoth, Utah. The collection numbers 2,400 specimens and adds to the Museum collections 75 species or varieties which had not been before represented. From the Director of the Geological Survey of Japan a series numbering 34 specimens of new or unusual minerals of that country was obtained by purchase. These specimens include beautiful danburites from Obira, hyalite from Tateyama, twin quartzes from Otomezaka, and choice topazes from the well-known Takayama locality. In a series of specimens purchased from the estate of the late George Wilkinson of Beloit, some remarkable manganites from the well-known Negaunee, Michigan, locality were obtained. These include a geode and two specimens of the "nailhead" variety. An extraordinary crystal of hematite, a fossil fish from the Green River beds and a disarticulated fossil nautilus were other important specimens obtained in this purchase. Twelve specimens of the large, violet-colored calcites recently discovered at the May Bell mine near Joplin, Missouri, were obtained from an exhibitor at the Louisiana Purchase Exposition by purchase. The South Bend meteorite, re-



cently discovered in Indiana, was purchased entire, also one of the two stones of the Shelburne, Canada, meteorite, which fell August 13, 1904. Other purchases of special importance were those of a glaciated mass of copper weighing 372 pounds found near Markesan, Wisconsin, and two remarkable crystals of gem quality of pink beryl recently discovered near San Diego, California. The accessions in Anthropology have been largely due to purchase, these for the first time in several years exceeding in importance and number those acquired by exploration in the field. This is due to the fact that much of the time of the various members of the staff of the department was occupied in St. Louis at the close of the Exposition in matters of interest to the department, at which time a large number of collections were purchased. From the few expeditions which have been in the field, however, important material has been obtained. Thus, through Dr. C. F. Newcombe, notable additions to the Northwest Coast collections have been made, the most important consisting of skulls and skeletons, several inside house posts, and other carvings from that region. From Dr. J. W. Hudson has been acquired a large collection of material from the Lower Klamath, supplementing the collection made by him in the year previous. Of acquisitions through gift, the most important is that from Mr. S. L. James of this city, who presented a large number of earthenware vessels, several smaller objects of Egyptian archæology, seven mummy coffins, and one large white marble sarcophagus seven feet in length and beautifully carved. This sarcophagus is of a late period and was unquestionably done by Roman or Grecian artisans. Mr. H. D. Higinbotham presented an unusually interesting prepared head from the Jivero Indians of Equador, while Mr. W. E. Prager also presented a small but interesting collection of flint and stone implements illustrating the archæology of Ireland. Of the collections received through exchange, the most important was a collection of about 100 skulls of the Navajo and other Indians of the Southwest from the Brooklyn Institute of Science and Art; an unusually interesting Haida house post and a large model of Mitla and Monte Alban from the United States National Museum, and a series of busts from Siberia from the American Museum of Natural History. The collections acquired by purchase are many in number, and include several of great importance. Of these only the most important are here noticed. Considering first the collections acquired at the St. Louis Exposition, may be mentioned the very large and important collection illustrating the archæology of the Province of Calchaqui of the Argentine Republic secured

from Mr. Zavaleta. Probably next in importance to the Zavaleta collection is that of a large number of Thibetan bronzes and East Indian ethnology; the Donne collection from New Zealand comprising six Maori feather cloaks and a number of Maori carvings, and the archæological collection from Egypt selected by Dr. Breasted. From Mr. Hardy of Berlin was purchased an interesting collection of ethnological specimens from German East Africa, chiefly from the Massai. Of especial interest in this collection is a series of thirty life masks and a completely costumed Massai warrior. There is also a very interesting carved door-way of native design and construction. From the Siamese Pavilion was obtained a collection numbering several hundred specimens, among them being many musical instruments, pieces of armor and weapons. In the Soudan collection, exhibited in the Fish, Forestry and Game Building, an exhibit was secured which extends the collections in the department to the North of Africa, a region heretofore unrepresented. From Dr. Jenks, the Director of the Bureau of Ethnology of the Philippine Islands, was secured a choice series of objects largely of head-gear. These are of special interest, owing to the fact that they were selected and thoroughly identified by Dr. Jenks. From the Rev. Mr. Verner was secured a valuable collection brought by him from the Pigmy region of Central Africa. Other collections secured from St. Louis are Haida carvings, a collection of Hupa feather work, a large collection of Cinghalese ceremonial masks, a collection of about 200 specimens from the Cliff Dwellers, an interesting collection from the Ainu, a few specimens from the Cheyenne and a large number of objects from the North Pacific Coast taken to the Exposition by Dr. C. F. Newcombe. The more important of the other purchases made during the year include two ceremonial buffalo robes from one of the Rio Grande Pueblos; a gold necklace and other valuable additions from Egypt and Italy, purchased by Mr. Ayer; a small collection of Blackfeet objects including a number of skulls and skeletons; a carefully collected collection from the Togo Hinterland secured through the kindness of Dr. Otto Finsch; a large number of carefully selected and choice specimens from Fred Harvey, including buffalo robes, buffalo hide shields, a number of rare Tlingit specimens and four representative basket collections and a large collection, in many ways unique, from one of the tribes of the Columbia River. From Professor Starr was purchased a collection numbering about 6,000 specimens comprising in addition to the material obtained by his three years' exploration at Tlacotapec, a large number of archæolog-

ical specimens from various parts of Mexico, the Penetiel collection, a series of 100 busts of Mexican Indians, a large and comprehensive ethnological series illustrating the life of the Mexican Indians of to-day, and several miscellaneous collections of the North American Indians, among them the Iroquois, Tonkawa, and Sauk and Fox. The collection also included one of the very rare ancient throwing sticks from the Cliff ruins of Utah. Of the new material acquired in the Department of Botany a fair half was secured by careful selection among the principal foreign countries exhibiting at the Louisiana Purchase Exposition. From this source the following specimens were derived: From Portugal, a series of vegetable oils from the fruits to the products, illustrating the utilization of the oil of olives, coco, purging nut, and ground nut; a very full series of the native plants used in this country in domestic medication by the laity; a full illustrative collection of the Portuguese method of harvesting pine resins, from a large trunk showing the method of tapping, through the tools and utensils used, to the various resins, gums and oils extracted; an interesting series of the principal agricultural products of the country, and many of its colonial possessions; a few examples of cork products needed to complete the already very full illustrative collection in the department; and a series of the rubbers of Portuguese Africa. From Egypt, a very complete and representative collection of the cereals, legumes, and other edible grains peculiar to the delta of the Nile; an excellent series of the more valuable Egyptian cottons; a fine series of sugar, exemplifying the products from the cane; a valuable collection of dried dates representing all the Egyptian varieties of the fruit; and a series of the native rubbers of upper Egypt. From Ceylon, an unique series of specimens showing the various utilizations of cocoanut; the husks, shells, nuts, meat, trunk, sheath, leaf ekels, and wood of the tree; a very full and selected series of the native spices of the country in a large variety of forms and sorts; a full series of the plants employed in disease by the natives, accompanied by a pamphlet giving the source and utilization of each; a complete set of odd fibers, employed by the natives, but not yet having commercial value or exploitation, each of these accompanied by a cord or rope manufactured from the same; various wild and agricultural grains, nuts, berries and other fruits entering into domestic use; the gums, tans, dyes, and barks utilized in woodcraft and domestic arts; the starches manufactured from native plants, utilized but not yet commercial; a very full collection of the varieties of Ceylon teas; a very complete series of the cereals, legumes and other grains of Ceylon; also of the cottons;

and a fine series of various odd nuts growing wild on the island. From California, a series of specimens representing the olive as grown on the Pacific coast, and the extraction of oil therefrom; an excellent series of the cultivated nuts of California, including the various varieties of walnuts, almonds, peanuts, etc.; and a fine specimen, preserved in liquid, showing the full fruiting spathe of the date palm. From Japan, an interesting series of sticks of various timber species, 8 x 8 inches x 10 feet long, which add a number of species to the already nearly complete series of Japanese timber specimens now installed in this department; a very complete and scientific series of the various bamboos produced in that country, this series, organized by the Japanese Forestry Commission, is one of the finest ever exhibited in any foreign country; a collection of waxes; a series of the fine chip produced so extensively in Japan for the manufacture of hats and cords, in this series the chips are accompanied by blocks of the wood from which they are made, and in each case bear the botanical name of the tree from which they are produced; a series of fine examples showing the products of the camphor tree at various steps in the manufacture of the gum, this series adds greatly to the incomplete set already installed in the department; fine collections of saki, nuts, and roots; and various odd forest products of the archipelago, represented by excellent illustrative specimens. From New Zealand, grains and fibers. From Haiti, besides a collection of tobacco and cigars, specimens showing the product of the chocolate nut as made by the natives for domestic use. From Virginia, a collection of peanuts. From Louisiana, a series of white papers made of bagasse — of higher class than those already installed in this department — thus completing the exhibit of this interesting product. From Siam, various specimens and utilizations illustrating the native processes and products in the manufacture of Laos and Siamese papers, from the raw products to native books of the finished article. From Germany, a long illustrative series of the various peats of Germany, with specimens showing their utilization in many ways: fabrics, paper, mats, mattress filling, surgical dressing, vineyard torches, etc., etc. From Bulgaria, a complete series of the cereals, legumes, and other grains, nuts and tobacco. From Rhodesia, native rubbers as produced from several species of Apocymaceous plants, including one interesting new rubber existing in pure threads in the crushed roots of a thus far unknown species; also, collections of fibers, grains, and cottons. From Italy, a series of cereals and legume grains; and

a fine scientifically identified series of the seeds of the native shrubs and trees of Italy, an excellent collection and one seldom, if ever, seen at an exposition. From Formosa, a full series of tree sections of the various timbers utilized upon the island, these were carefully named and prepared by the Forestry Department of Japan; an excellent series of the fibers of Formosa, with some instance of utilization of the same; raw material, pulp and finished papers of various bast and other paper-fiber producing plants; camphor and products; teas; a series illustrating the food nuts of the country; specimens representing the various grades of sugars produced in Formosa from the cane; and series of the food and condiment roots of the island. The herbarium has been augmented during the past year by the accession of 11,089 specimens, among which the most notable series are as follows: Fiebrig's plants of Paraguay (465); Mrs. Ayer's plants of Lake Geneva, Wisconsin (78); Curtiss' plants of the Isle of Pines (308); Mrs. Chase's plants of Maryland, District of Columbia and Virginia (516); Ames' plants of Florida (418); and those of Britton, Small, Small and Carter, Small and Nash, and Small and Wilson (581); van Hermann's plants of Cuba (922); Broadway's plants of Granada (415); the Berea plants of Natal (99); Nash and Taylor's plants of Inagua (249); Britton and Brace's plants of New Providence (478); plants of the Bahamas, Britton and Millspaugh (1147); plants of the Forest of Arden, Illinois, Skeels, (414); the Mexican plants of Palmer (315); and Pringle (1,125); Johnson's plants of Margarita Island (176); Harris' later plants of Jamaica (169); Harper's last collection of Georgia (272); Groth's Texan plants (214); and the Gulf States plants of Tracey (406). The substantial additions to the Herbarium distributed geographically are as follows:

	Accessions.	Total in Herb.
Alabama,	402	960
Bahamas (in general),	21	148
Abaco,	1	1
Cat Island,	117	117
Cave Cay,	33	33
Cay north of Wide Opening,	40	40
Crooked Island,	56	56
Eleuthera,	160	160
Exuma,	221	221
Fortune Island,	83	85
Frozen Cay,	23	23
Galiot Cays,	24	24
Goat Cay,	16	16

	Accessions.	Total in Herb.
Great Bahama,	401	401
Guana Cay,	64	64
Harbor Cays,	52	52
Hog Island,	36	77
Inagua,	396	396
Lignum Vite Cay,	31	31
New Providence,	730	1,325
Rose Island,	62	63
Rum Cay,	1	1
Ship Channel Cay,	28	28
Silver Cay,	17	17
Sturup Cay,	31	31
Watlings Island,	31	31
Whale Cay,	27	27
California,	10	8,312
Canada,	20	1,718
Colorado,	77	4,321
Cuba,	991	2,873
Isle of Pines,	308	638
District of Columbia,	162	1,411
Florida,	881	8,763
Florida Keys,	323	595
Georgia,	272	1,256
Granada,	417	517
Idaho,	23	698
Illinois,	557	14,242
Indiana,	35	3,095
Iowa,	4	784
Jamaica,	157	2,731
Louisiana,	51	802
Maryland,	245	595
Mexico,	1,474	9,537
Mississippi,	330	1,686
Montana,	60	1,417
Natal,	90	633
Ohio,	23	592
Oregon,	15	2,924
Paraguay,	465	874
Texas,	713	2,709
Virginia,	122	457
Venezuela,		
Margarita Island,	176	450
Washington,	62	2,500
West Virginia,	20	1,136
Wisconsin,	79	819
Wyoming,	97	303

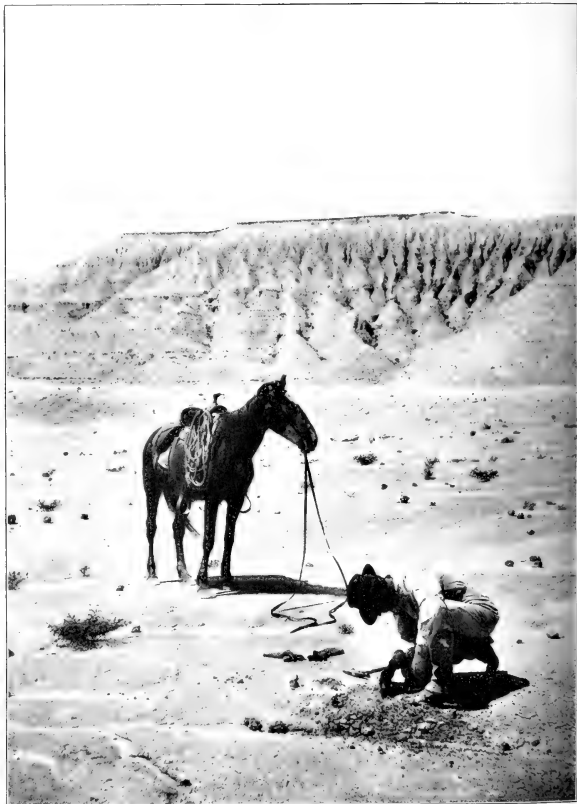
Comparatively few additions have been made to the collections of mammals, the total number of specimens acquired being 403;

of which 14 were purchased, 15 presented, and 374 collected in the field. 721 specimens of fish were obtained during the year; of which 650 were received in exchange or presented. A large number of reptiles were added, and 373 specimens were added to the insect collection. No additions were made to the conchological collection during the year. There have been acquired upward of 2,500 bird skins; 228 complete or partial sets of eggs, and 34 nests; of which 43 species of birds, 82 kinds of eggs and 21 examples of nests were new to the collection. The classification of accessions follows:

	Number of Accessions.	Number of Specimens.
Gifts,	202	6,481
Exchanges,	63	5,948
Collected,	48	15,205
Purchase,	95	24,185
Deposit,	1	6
Collated,	2	824
Transfers,	3	18

EXPEDITIONS AND FIELD WORK. — For reasons already given, expeditions conducted by the Department of Anthropology have been few in number. Mr. Alleyne Ireland, earlier in the year, concluded his expedition to Borneo and the neighboring islands. Dr. C. F. Newcombe spent two months in securing special information required by him in installing the Northwest Coast collections and preparing a report thereon. Dr. J. W. Hudson continued his investigations in the Lower Klamath, begun early in the year, brought them to a close and returned to the Museum, where he has been engaged in preparing his collections for exhibition. The work of investigation among the Arapaho has been continued, Mr. Cleaver Warden being in the field for five months. The Curator has twice visited the Pawnee in connection with his investigations for the Carnegie Institution of Washington. The joint expedition with the Bureau of Ethnology in charge of Mr. James Mooney among the Cheyenne and Kiowa was interrupted during a great part of the year by the necessity of Mr. Mooney's presence in Washington. Mr. Mooney has recently returned to the field. The Curator of Botany, in company with Dr. N. L. Britton, Director of the New York Botanical Garden, and Dr. M. A. Howe, Algologist of the garden, continued, in January last, their united, systematic exploration of the islands of the Bahamian Archipelago never before botanically visited. The party left New York on January 19th, reaching Nassau, New Provi-

dence, on the morning of the 22nd. Here, after working the neighborhood of Nassau until the 26th, they chartered and commissioned a 38-ton schooner and made a trial run to Rose Island, returning to Nassau on the 28th. At 2:00 A. M. on the 29th the cruise began in a run northward along the Berry Islands to Great Bahama, exploring on the way: Whale Cay, Little Harbor Cay, Frozen Cay, Goat Cay, Lignum Vitæ Cay and Great Harbor Cay, reaching Great Bahama Island on the third of February. Here, on account of the dangerous coast, the party went into camp at Eight Mile Rock, sending the vessel away to safe harbor to return on the 9th. After five days' valuable collecting at this point the schooner returned and the party moved to Barnett's Point, and later to Golden Grove, leaving again for Nassau on the 14th. On the 16th, another start was made to the southward for the purpose of exploring the Exuma Chain from Ship Channel Cay to Great Exuma. Work was begun at Ship Channel Cay February 17th, and continued southward along the chain, visiting Shrouds Cay, Cave Cay, Little and Great Galiot Cays, the Cay north of Wide Opening and Great Guana Cay, reaching Exuma on the morning of the 23rd. Six days were spent on this interesting island, and Nassau reached, at the end of the reconnoissance, on March 3rd, where four days' further exploration was conducted while awaiting a return steamer to New York. This trip resulted in large collections of herbarium material, and a series of observations, especially in phytogeography and the mutation of species, of deep interest to botanical science. During April and May the Curator of Geology visited points in Arizona and southern California for the purpose of procuring specimens of minerals and ores not hitherto represented in the Museum collections. In Yuma County, Arizona, several important mining districts were visited and full series of the ores and rocks there to be obtained were collected. Among these districts were those of Castle Dome, Picacho, La Paz, Middle Camp, Cinnabar, and Kofa. In the Plumosa Mountains of Arizona specimens of a remarkable and little known copper deposit were obtained, together with a number of volcanic rocks. From the Santa Maria Mountains of California were obtained specimens of new occurrences of iron ores, of garnet, and of marble, also several remarkable examples of rock weathering, polishing, and petrification. About two dozen geological photographs, illustrating chiefly the history of the Colorado River, were also made. In San Diego, California, specimens of a new occurrence of large garnet crystals, also of zoisite, pink beryl, citrine quartz and precious tourmaline were obtained. Field work for the



PROSPECTING FOR FOSSILS IN THE BAD LANDS OF SOUTH DAKOTA.
MUSEUM EXPEDITION OF 1905.

collection of vertebrate fossils was continued during four months of the summer by a party under the direction of Assistant Curator Riggs. It was deemed best to devote the time to the collection of fossil mammals rather than of reptiles as heretofore, since several important groups of mammals remained as yet unrepresented in the collections, and the reptilian skeletons occupy so much space as to make their exhibition impracticable at present. The work of collecting was carried on for the most part in the White River beds of South Dakota. The results were highly gratifying, as regards both the quantity and quality of the material obtained. Remains of the water-deer, *Leptomeryx*, which are usually of rare occurrence, were found in abundance and enough material obtained to insure one or more complete skeletons, together with a slab about 10 by 4 feet in size on which massed skulls and skeletons will appear in relief. Remains of the sabre-tooth cat, *Dinictis*, and the primitive horse, *Meshippus*, were also obtained in sufficient quantity to insure a mounted skeleton of each. Of the American rhinoceros, *Aceratherium*, five skulls were obtained; of the cursocial rhinoceros, *Hyracodon*, four heads and a partial skeleton; of the carnivores, *Hyænodon*, *Daphænus*, and *Hoplophoneus*, a number of good skulls; of the large suilline, *Elotherium*, three heads; of the gigantic *Brontops* one fine skull; of the rarer ungulates, *Hyopotamus*, *Anthrocotherium*, and *Protoceras*, representative skulls; also a number of skulls of squirrels and other small mammals, and the only complete skull of a lizard known from this formation. The shipment from the field aggregated about four tons in weight. Several dozen photographs illustrative of the work of collecting and the geology of the region were also made by the expedition. The Chief Taxidermist and his assistants were in the field intermittently, investigating the Fox River region of Illinois, securing ornithological notes and material to be utilized later for group work. Messrs. Heller and Barber, having returned from southern Mexico, were dispatched during the early part of the year to Guatemala, where they were successful, taking many specimens for the systematic and study collections. Probably the most important expedition is the one dispatched to British East Africa under the direction of Chief Taxidermist Akeley. In the report on local field work by the Department of Ornithology, the Assistant Curator explains that in order to extend the study of local distribution of birds, longer and, consequently, fewer trips were made this year than previously. Inasmuch as the collection in this department is far more complete in eggs and

skins than in any other branch of ornithology, very little of that sort of collecting was attempted. The series of alcoholic nestlings begun last year was considerably increased. A collection of skins of moulting birds, prepared so as to show the progress of moult from origin to finish, was begun. When complete, this series will be valuable and unique. Another collection, also begun this season, consists of viscera to be used for comparative purposes when the accumulation is large enough and, in connection with the collection of bones begun several years ago, to show correlation between structure and habits. The study of life histories was continued and a camera was used wherever it was possible. The following list indicates the various expeditions sent out during the year:

Locality.	Collector.	Material.
North Pacific Coast, . . .	C. F. Newcombe, . . .	Tsimshian Ethnology.
Lower Klamath River, California,	J. W. Hudson,	Hupa Ethnology.
Wyoming,	C. Warden,	Arapaho Ethnology.
Bahamas,	C. F. Millspaugh,	Herbarium Material.
South Dakota,	E. S. Riggs,	Vertebrate Fossils.
Oklahoma,	Geo. A. Dorsey,	Pawnee Ethnology.
Fox River, Illinois,	C. E. Akeley and Assist- ants,	Ornithological Material.
Guatemala,	Edmund Heller and C. M. Barber,	Mammals.
Arizona and California,	O. C. Farrington,	Minerals and Ores.
Illinois,	N. Dearborn,	Ornithological Material.
*Bermuda,	T. H. Bean,	Fishes, Reptiles and Invertebrates.
*British East Africa,	{ Carl E. Akeley, Vernon Shaw Kennedy, Edmund Heller, }	Mammals and Birds.

INSTALLATION, REARRANGEMENT, AND PERMANENT IMPROVEMENT.—New cases have been provided for the meteorite collection, occupying Hall 62. Five of these are wall cases, both kinds of cases being similar in design, with a few modifications, to those of Skiff Hall. The wall cases are upright, with a pillared base and projecting bay. Their dimensions are: Length 12 feet, height 7 feet, depth of upper portion 10 inches. The sashes of the upright portions consist of single lights 38 x 68 inches in dimension, and are secured in place by locks and bolts. The bolts screw into nuts fitted into the framework of the case, thus obviating the loosening from wear which would result if they screwed into wood alone. The lower edges of the sashes are rounded to fit grooves in the framework of the case,

*Expedition still in field.

thus permitting ease in swinging and removal of the sash without danger of marring. The cases are shelved, and the shelves are adjustable as to number and height by supports fitting into a series of slots at either end. The sashes of the bays are 16 x 70 inches in dimension. They are swung by hinges and locked by bar locks. In order to prevent the entrance of dust all edges meeting with the framework are tongued or grooved to fit corresponding grooves or tongues in the framework, while felt stops are also provided along the grooves. The floor cases are four feet square and four feet six inches high above the base, which rests on heavy turned legs two feet high. The bases are constructed so as to be able to support if necessary a weight of at least one ton. Step pyramids within the cases corresponding in size to the sizes of the specimens afford means of installation. The four floor cases are devoted to the exhibition of four meteorites. These are: Brenham, fifteen individuals and sections weighing 980 pounds; Canon Diablo, twenty individuals and sections weighing 1,518 pounds; Long Island, one individual weighing 1,161 pounds; and Toluca, twenty-four individuals and sections weighing 390 pounds. The remaining specimens of the collection are installed in the wall cases just described, being grouped under the three classes of iron, iron-stone and stone meteorites, and arranged chronologically under each group. Each specimen is mounted on a bevelled black block of a corresponding size and has a label of black cardboard printed with aluminum ink. The case interiors are also black. Thus a uniform tone in the surroundings of the specimens is secured which throws them into greater prominence and enables them to be seen to better advantage. In the case-bays are exhibited chiefly casts illustrating forms of individual meteorites. The total number of meteoric falls now represented in the collection is 280, and the total weight 5,060 pounds. The specimens of native silver, Hall 63, which had been badly tarnished, were cleaned and placed in closed glass jars, thus enabling them to be exhibited without further danger of tarnish. Accessions to the mineral collection received during the year have also been installed in this hall in their proper places. In Hall 68, devoted to clays, sands and cements, a large number of specimens has been added, the clay collection alone having been increased to nearly three times its former size. This increase was largely due to material obtained from the Louisiana Purchase Exposition. The synoptic clays, as now exhibited, number 43 specimens, the potter's clays 60 specimens, the fire clays 54 specimens, and the brick clays 147 specimens. These specimens are for

the most part from distinct localities and include briquettes showing the qualities of the burned as well as of the raw product. Of mineral paints, ochres and fuller's earths, 71 specimens are shown. A series illustrating the manufacture of glass has been installed, together with glass sands from various localities. Other uses of sand, such as for molding, refractory purposes, grinding, etc., are illustrated by a collection numbering 61 specimens. The soil collection has also been considerably increased, there being now shown 53 specimens of soils and subsoils arranged according to the nomenclature of the United States Department of Agriculture, and 63 specimens of soils as they are more commonly known. In addition a collection of 34 specimens illustrates the origin of soils and their physical and chemical characters. In Hall 78, devoted to salts, abrasives, etc., a large increase in material, due in part to accessions from the Louisiana Purchase Exposition, has compelled a general rearrangement and reinstallation. The collection of abrasives has been increased so that it now fills three cases instead of one as heretofore. The new material added is chiefly corundums, quartzes, infusorial earths, novaculites and whetstones. An entire case of barites, or heavy spar, from different localities, is now shown. To the salt collection specimens illustrating 17 localities or products, chiefly from Egypt and Peru, have been added. A large chart presented by the Solvay Company illustrating the use of soda has been framed and placed in the hall. In Hall 70, devoted to forms of carbon, a number of German peats and their products obtained from the Louisiana Purchase Exposition, have been added to the peat collection, also specimens of the Alaskan tundra. To the diamond collection have been added eleven specimens illustrating varieties of the diamond gravels of Brazil. The graphite collections in the same hall have also been rearranged and reclassified and are now large and complete. The labels of the series of oil sands, Hall 71, numbering 64 specimens, which were mounted in bottles so as to be capable of being turned about for examination, had suffered much injury owing to constant handling. New labels were accordingly provided and coated with varnish to prevent further wear. Two cases of kerosenes were discarded from the hall, as they duplicated other specimens. By removal of these cases and a rearrangement of those remaining, about 300 square feet of much needed storage space was obtained at the south end of the hall. This was partitioned off and connected with the paleontological laboratory. In Hall 59, devoted to Mesozoic fossils, the large and complete Plesiosaur girdle and paddle, col-

lected by the paleontological expedition of 1904, has been installed, also a large carapace, two feet four inches in length, of a Cretaceous turtle, and numerous bones of Triceratops collected by the same expedition. Space for the installation of these specimens was obtained by the reinstallation of three cases which had previously been devoted chiefly to invertebrate fossils. The result has been to improve the appearance and sequence of the collections as a whole. The life-size model of the skeleton of Dinoceras, Hall 61, which had become much discolored and badly cracked, has been thoroughly refilled and repainted so as to be now in excellent condition. In the paleontological laboratory attention has been devoted chiefly to cleaning and mounting the large amount of Triceratops material collected in Montana in 1904. Of the three skulls collected one has been fully worked out and mounted for exhibition. This skull is one of the largest and finest of this extraordinary reptile ever found, and possesses features new to science. The length of the skull is six feet, six inches, its width at the frill four feet, four inches, and its height, including horns, three feet, six inches. The following portions of the skeleton of the same individual have also been prepared for exhibition: Right scapula and coracoid, left scapula, right and left humerus, right and left ulna, right ilium, right and left pubis and seven caudal vertebræ. Another skull of Triceratops has been partially worked out. Remains of a large Cretaceous turtle and some Plesiosaur remains collected by the same expedition have also been worked out. The collection of Silurian and Devonian invertebrate fossils made in western New York by Mr. Slocum in 1904 and numbering over 11,000 specimens, has been carefully classified, cleaned and identified, affording representatives of nearly 300 species, for the most part new to the collections. The rock cutting and grinding machine, which has hitherto been worked by foot power only, has been connected with the water motor and a mechanical abrasive and water feed provided. A series of laps suitable for the various stages of grinding and polishing has also been provided. By the use of this apparatus a large number of rock and mineral specimens have been polished in the laboratory at a slight cost, improving their appearance and exhibition value. The relief map of Mt. Shasta, Hall 76, which had begun to scale badly, was treated to secure a firm adherence of the outer coating and the whole surface repainted. In Hall 77 a framed geological map of Illinois has been installed. The large and monotonously duplicated series of tobaccos and cottons that has, from the opening of the Museum, filled the North Court

galleries, has been removed to storage and its place filled with a complete series of 41 new wall cases and 4 new floor cases, in which the systematic installation, representing Economic Botany, begun upon the transept galleries, will be continued in greatly expanded form. The plan for installing these cases embodies the intercalation of the cases already installed with the new ones, and the installation of 8 new cases with products of the Grass family; 1 of the Sedge family; 7 of the Palm family; 1 of the Pineapple family; 1 of the Lily family; 1 of the Banana family; $\frac{1}{2}$ of the Orchid and $\frac{1}{2}$ of the Ginger family; 1 of the Willow family; $\frac{1}{2}$ of the Walnut and $\frac{1}{2}$ of the Birch family; 1 of the Oak family; 1 of the Laurel family; $\frac{1}{2}$ of the Poppy and $\frac{1}{2}$ of the Mustard family; 1 of the Rose family; 2 of the Bean family; 1 of the Olive family; $\frac{1}{2}$ of the Cactus and $\frac{1}{2}$ of the Parsley family; $\frac{1}{2}$ of the Milkweed and $\frac{1}{2}$ of the Milkwort families; 1 of the Chocolate family; 1 of the Mint family; 2 of the Nightshade family; 1 of the Daisy family; and several of the families including the Fungi, Mosses, Seaweeds, Lichens, etc. As an adjunct to the work of the department and the reconstruction of the north court galleries, the north gallery has been partly enclosed in such manner as to form a well lighted study 12 x 20 feet, and an installing and storage room 12 x 65 feet, without in any way interfering with the disposition of the collections or the free movement and comfort of the public. These changes have converted the north court galleries into an harmonious uniformity of arrangement that must invite and enhance public interest in the collections, and broaden its knowledge of the sources of economic wealth in the vegetable kingdom. The heretofore crowded Herbarium quarters have been remodeled and enlarged to a capacity sufficient for about five years of normal growth, by throwing the three rooms into one, through the removal of old plaster partitions, and the building of an extension 16 x 28 feet south of and adjoining the west room. This yields well lighted and thoroughly ventilated rooms for the Assistant Curator; accommodations for the Herbarium Recorder and his catalogue and record books; a consecutive arrangement for the herbarium itself; and a well lighted and equipped mounting, storage and distributing room for the Herbarium Preparators. The case equipment of the herbarium has been augmented by the installation of four blocks (of eight cases each) of steel construction. These new steel cases appear, at present, to be the acme of herbarium case construction, being of neat appearance, in part, at least, fire proof and air tight; and having a solidity and evident permanency that is highly gratifying. All danger of

warping, cracking open, or having the doors become too loose or too tight is at once avoided, while the ability to poison or insectifuge the contents without removal from the cases, gives a feeling of security not possible in those of any other constructive material. The gain in content space (due to less quantity of material utilized) proves to be about 32 five-inch pigeon-holes over a like size block of wooden cases. The Curator's design of these cases, based upon those already installed in the only other herbarium having adopted the steel cases, gives evidence of the following improvements: the shelf flanges are turned up instead of down and flush riveted instead of bolted, thus avoiding all chance of the genus covers becoming difficult to insert by engaging the flanges or the bolt heads; the allowance of a 2-inch space between the faces of the shelves and the inside faces of the doors, thus yielding free circulation and shelf-label space; the use of straps of steel at the back of the pigeon-holes as stops for the contents, and leaving a 2-inch space between these stops and those of the pigeon-holes of the case immediately in the rear, thus allowing further circulation of air or poison fumes; and at the bottom of each case, the installation of an enameled steel trough in which may be placed carbon-disulphide or a generous quantity of naphthaline or other insectifuge without interfering with the contents of the pigeon-holes; the affixion of a label-holder of generous size to the face of each case in which an indication of the contents may be placed; and the use of paper board slides and drops which automatically convert each pigeon-hole into an easily operated drawer, thus doing away entirely with the breakage of mounted plants through frequent grasping of the fascicles for removal. With these additional cases, embracing 1,008 5-inch pigeon-holes, the capacity of the herbarium is now 3,276 pigeon-holes, capable of containing in the neighborhood of 300,000 mounted sheets. In these the collections have been completely shifted and rearranged in a consecutive, systematic order, and at the same time the pigeon-hole contents have been severally "opened up" to allow of the introduction of inserrendæ for a period of at least three years of normal growth. The enormous increase of the Northwest Coast ethnological collections made it imperative that this material should be reclassified, rearranged and installed. This has been undertaken, and three halls have been opened to the public, *viz.*: those containing the Tlingit and Haida collections. Two other rooms are now being installed; one will contain the Kwakiutl and the other the Salish collections. A regrouping and reinstallation of the California material also became imperative. Fortunately the

transfer of the lecture courses to the Art Institute made available a splendid hall for this purpose, equal in size to four ordinary halls. Into this the California collections have been installed in forty-eight cases, and thus it becomes one of the notable exhibition halls of the Museum — notable, indeed, when it is remembered that six years ago the entire California collections were contained in a single case. The old hall formerly occupied by the California collections became available for the Haida collections. Hall No. 6 has been thrown open to the public during the year, and cases have been requisitioned for Hall No. 7. Considerable work has been done during the year in Osteology, and while no additions have been made to the series of skeletons, much has been done in other portions of the collection. All of the skeletons have been thoroughly cleaned and the standards and bases painted, and all defects in mounting or old workmanship were corrected and repaired. The disarticulated skeletons were also cleaned and arranged in cases under glass. A number of skeletons and skulls that have been cleaned and macerated cannot be mounted and placed on exhibition for lack of a degreasing plant. The Curator decided that it would be advisable to form a new section in Osteology, that of Craniology, and to carry out this idea, the various skulls not belonging to any skeleton have been systematically arranged in Room 25. Seventy-six skulls were especially prepared for this exhibit and a considerable number are awaiting stands. It occurred to the Curator, that, as the classification of mammals is determined in a great degree upon the teeth, their shape and construction, it would be instructive to have a number of skulls prepared to show the formation, situation and method of growth of the teeth, and four have been placed on exhibition, *viz.*: a bear, a beaver, a horse, and a walrus, representing the Orders of the Carnivora, Rodentia, Ungulata, and Pinnipedia. Others will be added as rapidly as opportunities offer, and, as this feature of Craniology is rather unique as well as novel and useful, it is hoped it may be carried out in the future and extended until not only the Orders, but also Families, and sometimes species, may be illustrated by this method. Three hundred and seven skulls belonging to specimens received have been cleaned and arranged in drawers. The Coral Room is nearly in complete order, and the collection has been rearranged and new labels provided, so that nothing detracts the attention from the specimens themselves; and the general construction of the cases and the method of installation challenges the admiration of the visitor, be he layman or scientist, and has received from all quarters unstinted praise.





PHOTOGRAPHY AND ILLUSTRATION.—The following table indicates the work performed in this important division:

	Negatives.	Prints.	Lantern Slides
Director's Office,	70	40	...
Anthropology,	711	8,313	580
Botany,	2	400	3
Geology,	131	475	01
Ornithology,	46	91	170
Zoology,	40	278	12
Distribution,	41	200
Totals,	1,018	9,647	1,035

Negatives made in the field by Curators of Departments and developed by the Division of Photography:

Anthropology,	270
Botany,	168
Geology,	235
Zoology,	12
	685

PRINTING. — The number of labels, forms and other impressions turned out by the printer is shown in the following table:

	Labels.	Other Impressions.
Anthropology,	889	12,050
Botany,	236	11,335
Geology,	4,315	3,721
Zoology,	725	3,500
Director's Office,	151	68,641
Library,	2,500

In addition, 50 copies of a Special Report to the Board of Trustees (42 pages) has been set and printed.

TAXIDERMY. — The Taxidermist (until his departure for British East Africa) and his assistants have been chiefly engaged on experimental ideas for new installations. Several large specimens have been mounted, however, for the systematic collection, and approximately 400 skins prepared for the cabinet series.

ATTENDANCE. — The total attendance record for the year is 207,867, being a decrease of over 37,000 below last year's figures. No special reason can be given for this deficiency. The decrease in the attendance of school children is also to be noted, and this may be accounted for by the fact that the principals of the schools are not aware of the privileges which are accorded by the Museum to their

pupils. The average daily attendance, from the point of figures, must be considered satisfactory, as few European museums boast of an average daily attendance of over five hundred. It is reasonable to suppose that if the Museum were located more conveniently, a large increase in admissions would be realized. Appended is a list of classes, thirty or more, that visited the Museum during the year just closed. A comparison between the daily attendance for the year ending September 30, 1904, and the year ending September 30, 1905, is also given.

LIST OF CLASSES.

Schools and Location.	Teachers.	Pupils.
Geo. W. Curtis — One Hundred and Fourteenth pl. and State st.,	1	47
St. Xavier Academy — 4928 Evans ave.,	2	35
Kershaw — Union ave. and West Sixty-fourth st.,	1	45
Moody Bible Institute — 80 Institute pl.,	1	61
St. Xavier Academy — 4928 Evans ave.,	2	43
Kershaw — Union ave. and West Sixty-fourth st.,	1	33
Bryant — Riverside, Illinois,	1	30
Hyde Park High — Fifty-seventh st. and Kimbark ave.,	1	64
McCosh — Champlain ave. and Sixty-sixth st.,	2	37
Mark Sheridan — Wallace and Twenty-seventh sts.,	1	49
Hyde Park High — Fifty-seventh st. and Kimbark ave.,	2	70
University of Chicago — Chicago, Illinois,	1	53
Schneider (George) — North Hoyne ave. and Wellington st.,	2	37
A. A. Libby — West Fifty-third and Loomis sts.,	—	45
Hyde Park High — Fifty-seventh st. and Kimbark ave.,	2	63
School of Education — University of Chicago, Chicago, Ill.,	4	38
Hyde Park High — Fifty-seventh st. and Kimbark ave.,	2	46
Chicago Home for Friendless — 5050 Vincennes ave.,	1	39
Keith — Thirty-fourth and Dearborn sts.,	1	34
Hyde Park High — Fifty-seventh st. and Kimbark ave.,	4	63
John Marshall — West Adams st. and Kedzie ave.,	1	41
Valparaiso College — Valparaiso, Indiana,	5	200
Valparaiso College — Valparaiso, Indiana,	—	110
Hyde Park High — Fifty-seventh st. and Kimbark ave.,	3	64
W. H. Ray — Fifty-seventh st. and Monroe ave.,	1	36
Normal Practice — Stewart ave. and Sixty-eighth st.,	1	44
Washburne — West Fourteenth and Union sts.,	1	30
Auburn Park — Normal ave. and West Eightieth st.,	2	55
Hyde Park High — Fifty-seventh st. and Kimbark ave.,	1	32
Hyde Park High (Branch) — Fifty-fourth st. and Monroe ave.,	1	39
Wendell Phillips High — Thirty-ninth st., between Prairie and Forest aves.,	1	32
Hyde Park High (Branch) — Fifty-fourth st. and Monroe ave.,	1	39
Jones — Plymouth Court and Harrison st.,	1	37
Hyde Park High (Branch) — Fifty-fourth st. and Monroe ave.,	1	38

Schools and Location.	Teachers	Pupils.
Baptist Missionary Training — 2411 Indiana ave.,	—	31
Washburne — West Fourteenth and Union sts.,	2	97
Kershaw — Union ave. and West Sixty-fourth st.,	4	154
Hyde Park High — Fifty-seventh st. and Kimbark ave.,	3	66
Washburne — West Fourteenth and Union sts.,	2	67
Hammond — Hammond, Indiana,	3	111
Cooper — 625 West Nineteenth st.,	2	67
J. N. Thorp — Superior ave. and Eighty-ninth st.,	1	43
Hammond — Hammond, Indiana,	1	59
Seward — West Forty-sixth st. and South Hermitage ave.,	1	34
Moseley — Twenty-fourth st. and Michigan ave.,	1	38
Foster — South Union ave. and O'Brien st.,	1	34
Englewood High — West Sixty-second st. and Stewart ave.,	1	81
W. K. Sullivan — Eighty-third st. and Houston ave.,	1	59
W. K. Sullivan — Eighty-third st. and Houston ave.,	2	66
D. R. Cameron — Potomac and Monticello aves.,	2	38
Chicago Lawn — West Sixty-second pl. and Hamlin ave.,	3	71
Taylor — Avenue J. and Ninety-ninth st.,	3	62
Oliver Goldsmith — 210 Maxwell st.,	1	33
A. L. Barnard — W. One Hundred and Fourth and Charles sts.,	1	36
Chicago Home for Friendless — 5059 Vincennes ave.,	2	32
St. Patrick's — Desplaines and Adams sts.,	5	115
University of Chicago — Chicago, Illinois,	3	101
Pullman — Pullman ave. and One Hundred and Thirteenth st.,	2	61
School of Education — University of Chicago, Chicago, Ill.,	1	38
University of Chicago — Chicago, Illinois,	1	43
All Saints' Academy — Watertown, Wisconsin,	125	—
W. H. Ray — Fifty-seventh st. and Monroe ave.,	1	38
Tilton — West Lake st. and Forty-fourth ave.,	1	36
Keith — Thirty-fourth and Dearborn sts.,	2	52
McCosh — Champlain ave. and Sixty-sixth st.,	2	32
Hyde Park High — Fifty-seventh st. and Kimbark ave.,	1	34
Jones — Plymouth Court and Harrison st.,	1	33
Washburne — West Fourteenth and Union sts.,	2	32
Washburne — West Fourteenth and Union sts.,	2	80
Mark Sheridan — Wallace and Twenty-seventh sts.,	1	38
Forestville — St. Lawrence ave. and Forty-seventh st.,	1	42
J. N. Thorp — Superior ave. and Eighty-ninth st.,	3	101

Comparative attendance for the years ending September 30, 1904, and September 30, 1905.

	Increase.	Decrease.
Total Attendance,		37,258
Paid Attendance,		3,382
Attendance of School Children on Pay Days,		1,750
Attendance of Students,	156	...
Attendance of Teachers,	12	...

	Increase.	Decrease.
Attendance of Members,		47
Average Daily Attendance, 1904,		669
Average Daily Attendance, 1905,		569

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

FREDERICK J. V. SKIFF,
DIRECTOR.

FINANCIAL STATEMENT.

RECEIPTS AND DISBURSEMENTS

During the Year Ending September 30, 1905.

RECEIPTS.

Cash in Treasurer's hands, September 30, 1904,		\$ 14,350.39
Petty Cash on hand, September 30, 1904, .		739.95
Dues of Members —		
Corporate,	\$ 135.00	
Annual,	2,250.00	2,385.00
Admissions and Check Rooms,		5,048.20
Sale of Guides,		272.75
South Park Commissioners,		15,000.00
Chicago City Railway Company,		2,250.00
Interest on Investments,		48,014.06
Huntington W. Jackson Library Fund,		40.00
Final Dividend on World's Columbian Exposition		
Stock,		141.97
Sale of Securities,		130,000.00
Sundry Receipts,		901.27
		<hr/>
		\$219,144.49

DISBURSEMENTS.

Salaries,		\$ 63,827.57
Guard Service,		11,869.10
Janitor Service,		6,768.16
Fire Protection,		3,291.00
Heat and Light —		
Wages,	\$3,420.00	
Fuel and Supplies,	5,875.53	9,295.53
Repairs and Alterations —		
Wages of Carpenters, Painters, Roofers, . .	10,052.04	
Material used — paints, oils, lumber, glass,		
etc.,	1,987.94	12,039.98
Special Exterior Repairs,		5,432.71
		<hr/>
<i>Carried forward,</i>		\$112,524.14

<i>Brought forward,</i>		\$112,524.14
Furniture and Fixtures —		
Cases and Bases,	9,808.68	
Sundries,	1,140.23	10,948.91
The Library —		
Books and Periodicals,	1,397.21	
Binding,	407.20	
Sundries,	114.02	1,918.43
Sections of Printing and Photography,		1,656.98
Collections Purchased,		50,397.11
Departmental Expenses,		8,394.90
General Expense Account —		
Freight, Expressage, and Teaming,	2,463.71	
Stationery, Postage, Telephone, etc.,	1,138.09	
Expeditions,	11,344.79	
Publications,	5,655.53	
Sundries,	2,025.20	22,627.32
		<hr/>
		\$208,467.79
In Treasurer's hands, September 30, 1905,	9,936.75	
Petty Cash on hand,	739.95	10,676.70
		<hr/>
		\$219,144.49

ATTENDANCE AND RECEIPTS FOR THE YEAR ENDING SEPT. 30, 1905.

ATTENDANCE.

Paid Attendance —		
Adults,	16,579	
Children,	985	17,564
Free Admission on Pay Days —		
School Children,	4,435	
Students,	2,915	
Teachers,	502	
Members,	149	
Special,	282	8,283
Admission on Free Days —		
Saturday,	40,339	
Sunday,	141,681	182,020
Total Attendance,		207,867
Highest Attendance on any day (August 20, 1905),		6,424
Highest Paid Attendance on any day (July 4, 1905),		381
Average Daily Admission (365 days),		569
Average Paid Admission (260 days),		67

RECEIPTS.

Guides sold — 1,091 at 25 cents each,	\$272.75
Articles checked — 16,099 at 5 cents each,	804.95
Admissions,	4,243.25
	<u>\$5,320.95</u>

ACCESSIONS.

FROM OCTOBER 1, 1904, TO SEPTEMBER 30, 1905.

DEPARTMENT OF ANTHROPOLOGY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

- AMERICAN MUSEUM OF NATURAL HISTORY, New York City.
Ethnological specimens from Hudson Bay Eskimo (exchange).
6 Siberian busts (exchange).
Plaster casts of busts of natives at Louisiana Purchase Exposition.
- AYER, E. E., Chicago.
Cap worn by Enrique Daguob, chief of the Samar Pulajanes — Samar, P. I.
- BHUNGARA & CO., F. P., Louisiana Purchase Exposition, St. Louis, Mo.
24 bronze objects — Asia.
- BROOKLYN INSTITUTE OF SCIENCE AND ART, Brooklyn, N. Y.
Navaho skulls — Arizona (exchange).
Navaho skulls and skeletons — Chin Lee Valley, N. M. (exchange).
- DORSEY, GEO. A., Chicago.
3 Aymara blankets — Le Paz, Bolivia.
- ELLIOT, D. G., Chicago.
1 Eskimo pouch.
- EMMONS, LIEUT. G. T., Princeton, N. J.
1 old buckskin dress, Wasco — Columbia River, Oregon (exchange).
- FIELD COLUMBIAN MUSEUM.
Collected by J. W. Hudson:
Ethnological specimens from Klamath River and Kern and Inyo Counties, California.
Collected by Alleyne Ireland:
Ethnological specimens from Borneo and Java.
Burmese photographs, Sarawak photographs.
Collected by James Mooney:
Cheyenne skin tipi, poles and furnishings — Oklahoma.
Collected by Dr. C. F. Newcombe:
7 house posts from Cyoquot, Vancouver Island.
Collected by S. C. Simms:
Ethnological material from Kwakiutl and Cyoquot Indians at St. Louis Exposition.
House timbers from Louisiana Purchase Exposition, St. Louis, Mo
Collected by Cleaver Warden:
Ethnological specimens — Northern Arapaho, Wyoming.



PARTIAL VIEW
STEEL HERBARIUM CASES



Purchases:

- 1 gold necklace, 3 bronze vessels, 1 glass bowl — Egypt.
 Ethnological specimens from Igorote, Moro, Bontoc, etc. — Philippines.
- Cheyenne specimens — Oklahoma.
 Iroquois specimens — Ontario.
 Ethnological specimens — Hupa, California.
 Philippine photographs.
 Ethnological collection from the Pigmy tribes of Central Africa.
 Skulls from Chickasawaba Mound, Mississippi Co., Arkansas.
 Archæological specimens from Argentine and Peru.
 1 Apache medicine man's ceremonial effigy.
 1 quiver, 40 arrows and bow — Ft. Apache, N. M.
 2 carved Haida house timbers — Alaska.
 Costumes, household utensils, weapons, ceremonial objects, etc., from the Ainu.
- Reproduction of Pompeian stove.
 Ethnological collection from German East Africa.
 Soudanese ethnological specimens.
 Egyptological specimens.
 Ethnological collection from Ceylon.
 Ethnological collection from Thibet and East India.
 Ethnological specimens from Siam.
 Feather robes and other ethnological specimens — New Zealand.
 1 Chippewa bag.
 Cheyenne bow and arrows — Oklahoma.
 Archæological specimens from Missouri.
 Archæological specimens of Cliff Dwellers.
 Archæological collection — Columbia County, Ga.
 Plaster casts of faces of natives of German East Africa.
 1 sacred bundle and contents — Pawnee, Oklahoma.
 10 specimens Arapaho and Cheyenne ethnology — Oklahoma.
 Photographs of Mexican Indians.
 Tlingit ivory carvings from Alaska.
 1 Santa Inez Indian basket — California.
 1 cotton shirt red embroidery of Mazateca Indian woman — Rio Tonto, Oaxaca.
 1 Hopi woman's dress — Arizona.
 11 Blackfoot skulls — Piegan Reserve.
 1 Blackfoot medicine flag, 1 man's shirt, 1 war bonnet, 1 boy's shirt, 1 boy's leggings — Piegan Reserve.
- Ethnological specimens from Togo-Hinterland — Togo, Africa.
 Thompson and Frazer River baskets, Coconino baskets, Navaho baskets, Chemehuevi baskets, Apache (White Mountain) baskets, miscellaneous specimens, buffalo robes, medicine shields, Wasco collection.
 1 Steatite pipe — Murphy, N. C.
 Archæological collection from Mexico and New Mexico, ethnological collection from Mexico and Iroquois, Cherokee, Coahuila, Tonkaway, Sauk and Fox Indians, Mexican and Pueblo busts.

Purchases:

- Prehistoric skulls — Mexico.
 Ethnological specimens from Alaska.
 5 Nez Perce bags, 2 Salish baskets, 3 Makah dolls.
 8 Blackfoot skulls — Blood Reserve.
 2 Steatite pipes, 1 Steatite bowl, 10 spear points.
- HIGINBOTHAM, H. D., Chicago.
 1 artificially shrunk human head Jiveros Indian — Ecuador, S. A.
- JAMES, S. L. (Estate), Chicago.
 Egyptian pottery and stone sarcophagi from Egypt.
- MARATTA, H. G., Chicago.
 50 small sandstone carvings.
- PRAEGER, WM. E., Kalamazoo, Mich.
 8 stone celts, 59 flint knives, etc. — Ireland.
- SCHUPP, P., Bowmanville, Ill.
 6 fragmentary skeletons — Budlong Farm.
- SEELEY, GEO. E., Chicago.
 28 photographs and prints of Irish archæological objects and Moaris.
- SIAMESE COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
 Models of carts, boats, and other modes of transportation — Siam.
- U. S. NATIONAL MUSEUM, Washington, D. C.
 Haida carved house pole — Queen Charlotte Island (exchange).
 Model of ruins of Mitla (exchange).
- VAN SCHAACK, PETER, Chicago.
 Material from tombs of Egypt.

DEPARTMENT OF BOTANY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

- AMES BOTANICAL LABORATORY, North Easton, Mass.
 418 herbarium specimens — Florida (exchange).
- AYER, MRS. EDWARD E., Lake Geneva, Wis.
 78 herbarium specimens — Lake Geneva, Wis.
- BEAN, TARLETON H., St. Louis, Mo.
 1 section of bark *Sequoia sempervirens*.
- BELKNAP, FRANKLIN, Chicago Lawn, Ill.
 7 herbarium specimens — Colorado.
- BRITISH SOUTH AFRICAN CO., London, England.
 13 Rhodesia products — South Africa.
- BULGARIAN GOVERNMENT, Louisiana Purchase Exposition, St. Louis, Mo.
 47 Bulgarian products.
- CALIFORNIA STATE COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
 27 California products.
- CANDOLLE, C. DE, Geneva, Switzerland.
 1 drawing from type of *Wedelia hispidula*.
- CEYLON GOVERNMENT, Louisiana Purchase Exposition, St. Louis, Mo.
 65 Ceylon products.

- CHASE, MRS. AGNES, Washington, D. C.
520 herbarium specimens — various localities (exchange).
1 herbarium specimen — Indiana.
- DEPARTMENT OF ANTHROPOLOGY, Field Columbian Museum.
6 specimens basket material, *Scirpus lacustris* (transfer).
- DEPARTMENT OF GEOLOGY, Field Columbian Museum.
1 specimen diatomaceous earth — San Luis, California (transfer).
- DIAS, C. E. A., Colombo, Ceylon.
1 sample king coconut oil.
- DONNE, T. E., Louisiana Purchase Exposition, St. Louis, Mo.
20 New Zealand products.
14 New Zealand products.
- DON PAUL, K., Colombo, Ceylon.
3 specimens coco wine, arrack and vinegar.
- DRIEBERG, C., Ceylon Commission, Louisiana Purchase Exposition, St. Louis, Mo.
282 specimens medicinal plants — Ceylon.
- EAGAN, D. H., Dover, Mo.
1 specimen cob pipe corn — Missouri.
- EGYPTIAN GOVERNMENT, Louisiana Purchase Exposition, St. Louis, Mo.
131 specimens products — Egypt.
- EHMANN OLIVE CO., Oroville, California.
6 specimens ripe olives, refined olive oil, crude olive oil, olive oil emulsion, crushed olives and olive branch.
- ELIOT, R. HUYSHE, Louisiana Purchase Exposition, St. Louis, Mo.
105 samples Ceylon tea.
- EMRICK, DR. G. M., Chicago.
2 herbarium specimens — Mexico.
- ENGINEER TOLKSDORF, Berlin, Germany.
1 specimen peat vineyard torch — Germany.
- ESTACION AGRONOMICA DE CUBA, Santiago, Cuba.
66 herbarium specimens — Cuba (exchange).
- FERNANDO, T. R., Colombo, Ceylon.
33 specimens curry powder ingredients.
- FIELD COLUMBIAN MUSEUM.
Collated by C. F. Millspaugh:
803 herbarium specimens — Bahama Islands and Grand Cayman, W. I.
Collected by C. F. Millspaugh:
1147 herbarium specimens — Bahamas.
- Purchases:
1 grass root fan — East India
186 herbarium specimens — Paraguay.
279 herbarium specimens — Paraguay.
3 specimens vanilla.
5 specimens of drugs.
308 herbarium specimens — Isle of Pines, Cuba.
80 specimens fibers and ropes — Ceylon.
1 Sinhalese book — Ceylon.
1 bundle licorice root — Spain.

Purchases:

- 21 series Sinhalese tans and starches — Ceylon.
 - 55 coconut products — Ceylon.
 - 114 herbarium specimens — Grenada, W. I.
 - 6 economic specimens — Bahamas.
 - 70 herbarium specimens — Grenada, W. I.
 - 49 herbarium specimens — Grenada, W. I.
 - 315 herbarium specimens — Mexico.
 - 65 herbarium specimens — Grenada, W. I.
 - 1 specimen sea weed, *Rhodomenia palmata* — Bay of Fundy.
 - 42 herbarium specimens — Grenada, W. I.
 - 272 herbarium specimens — Georgia.
 - 1127 herbarium specimens — Mexico.
 - 406 herbarium specimens — various localities.
 - 75 herbarium specimens — Grenada, W. I.
- FIELD, MARSHALL, & CO., Chicago.
- 1 specimen *Gossypium herbaceum* bolls — Little Rock, Ark.
- FILCHER, COL. J. A., Louisiana Purchase Exposition, St. Louis, Mo.
- 1 cane made of bark of *Sequoia sempervirens* — California.
- FORMOSA, Louisiana Purchase Exposition, St. Louis, Mo.
- 5 specimens fibers — Formosa.
 - 104 specimens Formosa products.
- GATES, F., Lake View, Ill.
- 1 herbarium specimen — Illinois.
- GOONESEKERE, E., Wilimbula Fiber Mills, Ceylon
- 11 specimens ropes, fibers and braids — Ceylon.
- GOVERNMENT OF SIAM, Louisiana Purchase Exposition, St. Louis, Mo.
- 16 specimens bark, leaves and implements for paper making — Siam.
- GRAY HERBARIUM, HARVARD UNIVERSITY, Cambridge, Mass.
- 1 herbarium specimen — Colorado.
 - 202 herbarium specimens — various localities (exchange).
- GREENMAN, J. M., Chicago.
- 213 herbarium specimens — Texas.
- HAITI COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
- 1 specimen native chocolate — Haiti.
 - 2 specimens Haiti tobacco and cigars.
- HELLER, E. & C. M. BARBER, Chicago.
- 31 herbarium specimens — Mexico.
- HILL, E. J., Englewood, Ill.
- 19 specimens mosses — Illinois and Indiana.
- IMPERIAL GERMAN COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
- 2 specimens beet seed, *Beta vulgaris* — Germany.
- INSTITUTE BETHEL, Friestadt, Germany.
- 1 specimen peat for hospital bed — Germany.
- ITALIAN GOVERNMENT, Louisiana Purchase Exposition, St. Louis, Mo.
- 197 specimens grains and seeds — Italy.

- JAPANESE GOVERNMENT, Louisiana Purchase Exposition, St. Louis, Mo.
67 specimens Japan products.
- JOHNSTON, W. M., Chicago.
2 specimens lichens — Nome City, Alaska.
- KUROWSKI, MRS. A., Chicago.
1 specimen Japanese candy.
- LOUISIANA STATE COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
6 specimens bagasse paper — Louisiana.
- MILLSPAUGH, C. F., Chicago.
3 species seeds.
3 species berries and nuts.
4 economic specimens.
2 species artichokes and turnips.
4 herbarium specimens — Yucatan.
1 species nuts, *Mauritia flexuosa* — Brazil.
19 herbarium specimens — West Virginia.
- MISSOURI STATE COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
14 specimens Missouri ear corn.
- NATAL BOTANIC GARDENS, Berea, Natal.
99 herbarium specimens — South Africa (exchange).
- NEAPE, FRANK, Fresno, California.
1 specimen raisin cluster — California.
- NEWCOMBE, C. F., Victoria, B. C.
1 herbarium specimen, *Elæagnus argentea* — British Columbia
1 specimen plumed grass, *Phragmites phragmites* — British Columbia.
- NEW YORK BOTANICAL GARDEN, Bronx Park, New York City.
59 herbarium specimens — Colorado (exchange).
1409 herbarium specimens — Bahamas (exchange).
169 herbarium specimens — South Florida, Cuba, Bahamas and Jamaica (exchange).
21 herbarium specimens — various localities (collated).
2 specimens *Zea mays* — Peru (exchange).
9 economic specimens — Florida and Bolivia (exchange).
94 specimens algæ — various localities (exchange).
- OHIO STATE UNIVERSITY, Columbus, Ohio.
20 specimens fungi — Ohio (exchange).
- OMORI BRAID MANFG. ASSOCIATION, Tokyo, Japan.
23 specimens Japanese chip wood and chips.
- PALMER, DR. EDWARD, Washington, D. C.
4 herbarium specimens — Mexico.
- PAREIRA & JARDIN, Lisbon, Portugal.
49 specimens medicinal plants — Portugal.
- PEAT FACTORY, Heidekrug, Germany.
16 specimens peat and peat products — Germany.
- PORTUGAL GOVERNMENT, Louisiana Purchase Exposition, St. Louis, Mo.
68 specimens products — Portugal and Portuguese Africa.

- ROUFFET & CASTLEBON, Bayonne, France.
24 specimens turpentine products, log and tools — Portugal.
- SHINKIU-GUMI, Kobe, Japan.
4 specimens wood chips, cord, cordage and chip basket, *Thujiopsis dolabrata* — Japan.
- SHIPKOFF & COMPANY, New York City.
1 ounce otto of roses.
- SHOTTER & CO., S. P., Savannah, Georgia.
3 specimens turpentine products — Georgia.
- SILVA TELLES & CO., Sao Paulo, Brazil.
7 specimens fiber, yarn, rope and matting, *Urena lobata*, "Aramina" — Brazil.
- SIMPSON, J. H., Braidentown, Florida.
1 herbarium specimen — Florida.
- SKEELS, H. C., Joliet, Ill.
414 herbarium specimens — Illinois.
- STATE OF VIRGINIA, Louisiana Purchase Exposition, St. Louis, Mo.
2 specimens peanuts — Spanish and Virginia.
- STRENGE, OTTM., Elizabethfehn, Germany.
6 specimens grass peat — Germany.
- SWAMPILLAI, M. B., Colombo, Ceylon.
2 specimens Jaffna tobacco and cigars.
- TARRANT & COMPANY, Colombo, Ceylon.
12 specimens green tea.
- TORIKAI, H., Kanagawaken, Japan.
1 specimen hat braid, *Populus suaveolens* — Japan.
- UMBACH, PROF. L. M., Naperville, Ill.
132 specimens mosses — various localities (exchange).
1 herbarium specimen, *Lamarckia aurea* — California (exchange).
- U. S. DEPARTMENT OF AGRICULTURE, Washington, D. C.
216 herbarium specimens — various localities (exchange).
- U. S. NATIONAL HERBARIUM, Washington, D. C.
720 herbarium specimens — North America and Europe (exchange).
- URBAN, I., Berlin, Germany.
2 herbarium specimens — Antilles and Martinique.
- VAN HERMANN, H. A., Santiago de Los Vegas, Cuba.
950 herbarium specimens — Cuba (exchange).
- WHALER PROGRESS EXHIBIT, World's Columbian Exposition, Chicago.
46 specimens fruits found floating at sea.
- WILSON, PERCY, Bronx Park, New York City.
3 herbarium specimens — Cuba.

DEPARTMENT OF GEOLOGY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

- ALABAMA COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
30 specimens ores and rocks — Alabama.
- ALASKA COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
3 specimens bituminous coal, 5 specimens gold ore, 2 specimens copper ore — Alaska.

- ARIZONA COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
57 specimens minerals, rocks, and ores — Arizona.
- ARKANSAS COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
44 specimens ores and minerals — Arkansas.
- BECK, WILLIAM, Kimmswick, Mo.
3 specimens carboniferous compound corals — Kimmswick, Mo.
- BOARD OF TRADE, San Luis Obispo, California.
22 specimens ores and minerals — San Luis Obispo Co., California.
- BORGSTROM, LEON H., Helsingfors, Finland.
Cast of Shelburne meteorite (exchange).
- BRAZIL COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
1060 specimens minerals, rocks and ores — Brazil.
- BRIDGEPORT WOOD FINISHER CO., New Milford, Conn.
2 specimens rose quartz — Connecticut
- BROWN, HERBERT, Yuma, Arizona.
1 geode, 5 specimens sand concretions, 1 specimen dumortierite —
California and Arizona.
- BULGARIA COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
16 specimens ores and lignites — Bulgaria.
- CALDWELL, DR. CHAS., Chicago.
1 specimen chalcocite — Butte, Montana.
- CALIFORNIA COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
120 specimens minerals and ores — California.
- CALIFORNIA STATE MINING BUREAU, San Francisco, California.
4 models gold nuggets — California.
- CAMPBELL, D. H., Chicago.
3 crystals of barite — Joe Daviess Co., Illinois.
- CANADIAN COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
55 specimens ores and minerals — Canada.
- THE CARBORUNDUM CO., Niagara Falls, N. Y.
83 specimens illustrating manufacture of carborundum and its
products.
- CAREY MANFG. CO., Cincinnati, Ohio.
1 specimen asbestos fiber, 3 specimens magnesium carbonate.
- CHAMBER OF COMMERCE, Carrara, Italy.
14 photographs of the Carrara Marble Quarries — Carrara, Italy.
- CHICAGO CRUSHED STONE CO., Chicago.
1 specimen Niagara limestone, 1 specimen glacial pebble.
- COLONIAL MINING CO., Chicago.
1 specimen mercury ore — Cinnabar, Arizona.
- COMBS, R. M., Chicago.
3 specimens fire clays — Scioto Furnace, Ohio.
- DEPARTMENT OF AGRICULTURE, Washington, D. C.
7 photographs — 2 Porto Rico, Utah, Illinois, Colorado, Florida,
Maryland.
- EDISON, THOMAS A., East Orange, N. J.
3 specimens Portland cement in different stages of manufacture.
- EGYPTIAN COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
12 specimens copper ore, 1 copper ring (20 lbs.), 8 specimens salt —
Egypt.

FARRINGTON, O. C., Chicago.

14 specimens of minerals — Maine.

FIELD COLUMBIAN MUSEUM.

Collected by O. C. Farrington:

84 specimens ores and minerals — Arizona and California.

Collected by J. W. Hudson:

1 specimen californite — mouth of Trinity River, California.

Collected by E. S. Riggs:

1 nearly complete skull of *Triceratops*, 3 incomplete skulls of *Triceratops*, 2 partial skeletons of *Triceratops*, 3 partial skeletons of *Plesiosaurs*, 1 carapace of large fossil turtle, 25 specimens fossil sea crabs — Montana.

1 specimen shell marl, 1 specimen humus — La Crosse, Indiana.

177 Plesiosaur gizzard stones — Alzada, Montana.

1 specimen Laramie soil — Chalk Buttes, Montana.

Collected by A. W. Slocum:

11,043 specimens invertebrate Silurian and Devonian fossils, 15 specimens gypsum nodules, 8 specimens concretions, 5 specimens iron ore, 7 specimens clays and shales — Western New York
336 specimens invertebrate fossils, 1 specimen leaf impression, 4 specimens soils, 2 specimens rock weathering — Kimmswick, Mo.

Purchases:

3 geological photographs.

1 copper boulder, weight 372 pounds — Markesan, Wis.

19 minerals, 16 fossils, 3 miscellaneous geological specimens.

1 specimen bavenite — Baveno, Italy.

12 specimens calcite crystals — Joplin, Mo.

1 Shelburne meteorite, weight 12¾ pounds.

2 stalactites — Killian's Cave, Mo.

1 specimen moss agate, section of stalactite (polished) — Wyoming.

12 specimens minerals — Joplin, Mo.

1 specimen danburite — Switzerland.

34 specimens minerals — Japan.

4 specimens minerals — Arizona and Colorado.

1 Mishawaka meteorite, weight 5¼ pounds.

56 specimens minerals — California.

1 specimen chalcedony — Ballast Point, Tampa, Florida.

2,530 specimens minerals — collection of Maynard Bixby.

FOOTE MINERAL CO., Philadelphia, Pa.

4 specimens minerals (exchange).

GEOLOGICAL SURVEY OF GEORGIA, Atlanta, Ga.

6 specimens ores and rocks — Georgia (deposit).

GILMORE, DR. W. S., Chicago.

4 hollow limonite concretions — Ohio River.

GRAVES, F. P., Doe Run, Mo.

2 calcite crystals, 1 concretion — Doe Run, Mo.

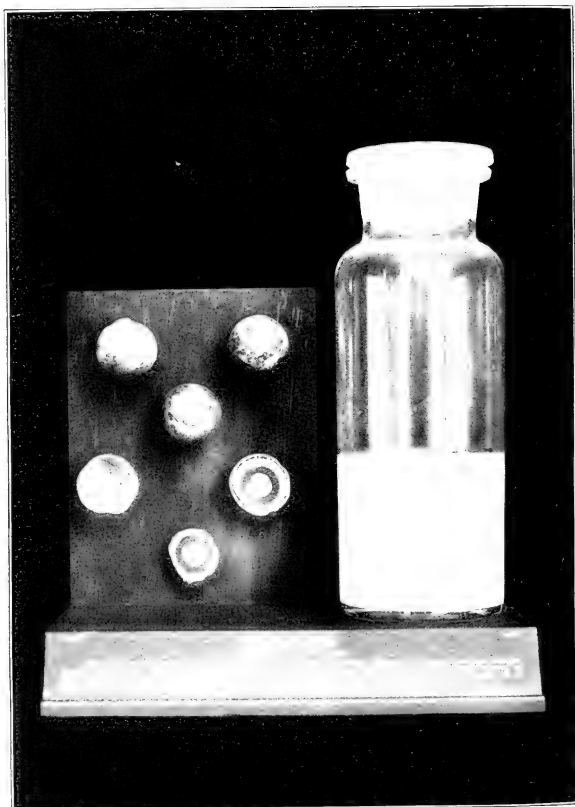
GREENE COPPER CO., THE, Cananea, Sonora, Mexico.

1 specimen chalcocite — Greene Mines, Cananea, Mexico.

- GRIFFITH, D.**, Penryn, California.
 1 cube granite — Penryn, California.
- GUION, G. MURRAY**, Chicago.
 1 specimen weathered sandstone, 1 specimen iron ore — Manitou, Colorado.
 3 specimens limonite concretions — Muskogee, Ind. Ter.
- HANSEN, JAMES**, Ephraim, Wis.
 1 specimen weathered diabase.
- HONDURAS COMMISSION**, Louisiana Purchase Exposition, St. Louis, Mo.
 4 specimens iron ore — Iquala, Honduras.
- IDAHO COMMISSION**, Louisiana Purchase Exposition, St. Louis, Mo.
 1 specimen jasper — Owyhee County, Idaho.
- ILLINOIS CLAYWORKERS' ASSOCIATION**, Champaign, Ill.
 11 specimens shales and clays — Illinois and Indiana.
- ILLINOIS COMMISSION**, Louisiana Purchase Exposition, St. Louis, Mo.
 10 varieties of Illinois soils.
- IMPERIAL GERMAN MINISTER OF AGRICULTURE**, Berlin, Germany.
 29 specimens peat, phosphate and clay — Germany.
- JAPANESE COMMISSION**, Louisiana Purchase Exposition, St. Louis, Mo.
 14 specimens phosphates, 1 specimen manganese ore, 1 specimen gold ore — Japan.
- JOHNSTON, W. M.**, Chicago.
 2 specimens gold ore, 2 specimens tundra — Nome City, Alaska.
 3 specimens water-worn pebbles — Bluff, Alaska.
- JONES, R. F.**, Concord, Mass.
 9 specimens datolite — Westfield, Mass. (exchange).
- JUDD, LOUIS S.**, Ehrenberg, Arizona.
 1 specimen carnotite — Colorado.
- KANSAS COMMISSION**, Louisiana Purchase Exposition, St. Louis, Mo.
 4 specimens chalk, 1 specimen salt — Kansas.
- KEELY, JAS. E.**, Evanston, Ill.
 6 specimens ores and associated minerals — New River, Virginia and North Carolina.
- KENTUCKY COMMISSION**, Louisiana Purchase Exposition, St. Louis, Mo.
 31 specimens clays, sands and ores — Kentucky.
- KERR MARBLE AND STONE CO.**, Denver, Colorado.
 2 specimens polished marble slabs — Beulah, Colorado.
- LA MARSH, ALEXANDER**, Dillon, Wyoming.
 1 specimen polished jet — Dillon, Wyoming.
- LOS ANGELES CHAMBER OF COMMERCE**, Los Angeles, California.
 31 specimens ores and minerals — Arizona and California.
- MANDLE, L.**, St. Louis, Mo.
 6 specimens potters' clays — United States.
- MARYLAND COMMISSION**, Louisiana Purchase Exposition, St. Louis, Mo.
 20 varieties Maryland soils and subsoils.
- MICHIGAN COMMISSION**, Louisiana Purchase Exposition, St. Louis, Mo.
 1 fossil tree trunk, 6 specimens ores — Michigan.
- MISSISSIPPI COMMISSION**, Louisiana Purchase Exposition, St. Louis, Mo.
 29 specimens clays, 1 specimen silica, 1 specimen sand, 2 specimens marls, 2 specimens gravels — Mississippi.

- MISSOURI COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
51 specimens ores, minerals, and clays — Missouri.
- MONTANA SCHOOL OF MINES, Butte, Montana.
7 specimens copper ores and minerals, 4 specimens rocks — Butte, Montana (exchange).
- MORONEY, JOHN J., Chicago.
56 specimens clays, 54 specimens briquettes, 1 specimen tripoli, 9 specimens sands — United States, Mexico, and India.
- MYLES SALT CO., New Orleans, La.
1 specimen rock salt, 1 block rock salt — Week's Island, La.
- NEWELL, DR. S. C., Larchland, Ill.
1 specimen silica — Phelps County, Mo.
- NEW MEXICO COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
78 specimens minerals, ores, and rocks — New Mexico.
- NEWTON, MERRITT, Victor, Colorado.
1 specimen sylvanite with fluorite, Gold Coin Mine, Cripple Creek,
1 specimen descloizite, Bison Mine, Leadville — Colorado.
- NEW YORK COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
11 specimens slate, 2 specimens iron ore, 1 specimen salt, 3 specimens talc — New York.
- NEW ZEALAND GOVERNMENT TOURIST DEPARTMENT, Louisiana Purchase Exposition, St. Louis, Mo.
35 prints and 2 bromide enlargements of views in New Zealand.
- NORTH CAROLINA COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
6 specimens monazite sands, 1 specimen barite, 1 specimen genthite — North Carolina.
- NORTH DAKOTA COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
11 specimens minerals and soils — North Dakota.
- OKLAHOMA COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
22 specimens clays, gypsums, and concretions — Oklahoma.
- PANGALO, GEORGE, Chicago.
1 specimen alum ore — Box Elder Co., Utah.
- PIKE MANFG. CO., Pike Station, N. H.
12 specimens abrasive stones — New Hampshire, Vermont and Arkansas.
- PORTERFIELD, M. W., Silver City, N. M.
7 specimens turquoise matrix.
- PURDY, HENRY E., Michigan City, Ind.
2 fulgurites, 119 fragments of fulgurites — Michigan City, Indiana (exchange).
- RICHARDSON, E., Chicago.
1 specimen glass sand, 10 specimens garnet powders — New York and Michigan.
- ROUMAIN, DR. EDMOND S., Port Au Prince, Haiti.
39 specimens ores and rocks — Western Haiti.
- SAN BERNARDINO CO. COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
1 relief map of portion of San Bernardino County — California.





CARBOGRAPHIC MOUNT

- SCHLEMM, W. H., Villa Corona, Durango, Mexico.
 91 specimens rocks and ores of the Cerro Mercado, 53 specimens tin
 ores, 86 specimens minerals — Mexico.
- SOLVAY PROCESS CO., Syracuse, N. Y.
 Chart representing manufacture and products of soda.
- SOUTH DAKOTA COMMISSION, Louisiana Purchase Exposition, St.
 Louis, Mo.
 52 specimens ores and minerals — South Dakota.
- SQUIER & CO., E. E., St. Louis, Mo.
 8 specimens molding sands — Missouri and Illinois.
- STURTZ, B., Bonn, Germany.
 Fragment of St. Mesmin meteorite (exchange).
- TENNESSEE COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
 26 specimens ores and minerals — Tennessee.
- UTAH COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
 33 specimens ores, minerals, and rocks — Utah.
- U. S. NATIONAL MUSEUM, Washington, D. C.
 165 grams Persimmon Creek meteorite, 44.5 grams Felix meteorite
 (exchange).
 Polished slab of orbicular diorite, polished section of jasperized hema-
 tite (exchange).
- VAN SCHAACK, PETER, Chicago.
 11 specimens ores, minerals and rocks.
- VERMONT MARBLE CO., Proctor, Vermont.
 2 photographs showing varieties of marble.
- VIRGINIA COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
 168 specimens ores, minerals, and rocks — Virginia.
- WALSH, PATRICK, Chicago.
 1 specimen lepidodendron — Tug River, West Virginia.
- WARD, PROF. H. A., Chicago.
 Cast of Boogaldi meteorite — Boogaldi, Australia.
 Cast of Bath Furnace meteorite — Bath Furnace, Ky.
 68 thin sections of meteorites.
 224 grams Bella Roca meteorite, 521 grams Billings meteorite, 26
 grams Jelica meteorite, 50 grams Braunau meteorite (exchange).
- WASHINGTON COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
 47 specimens ores — Washington Idaho, and British Columbia.
- WELLER, S. A., Zanesville, Ohio.
 6 specimens pottery clays, spars, and flints — United States and
 England.
- WHITE, ALBERT S., Chicago.
 1 specimen foliated graphite — Montana.
- WILLARD, N. P., Chicago.
 1 specimen silver ore — Montrose County, Colorado.
 1 specimen mercury ore, 1 specimen gold ore — Yuma County, Ariz.
- WISCONSIN COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
 20 specimens ores and rocks — Wisconsin.

DEPARTMENT OF ORNITHOLOGY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

DANLIKER, RUDOLPH, Morgan Park, Ill.

1 turkey buzzard — Frankfort, Ill.

DEWEY, CLARENCE L., Chicago.

4 eggs of the wild turkey — Dowagiac, Mich.

FIELD COLUMBIAN MUSEUM.

Collected by N. Dearborn:

54 bird skins, 4 birds' eggs, 1 birds' nest — Chicago.

49 bird skins, 19 alcoholics, 49 birds' eggs, 3 birds' nests — Chicago.

Collected by E. Heller and C. M. Barber:

131 bird skins — Sabinas, Mexico.

Purchases:

29 birds' nests, 878 birds' eggs, 2,062 bird skins — various localities.

105 bird skins — various localities.

248 bird skins, representing 56 species of Indian birds — Sirur, India.

4 birds' nests, 36 birds' eggs — Red Lodge, Alberta, Canada

KENKEL, LOUIS V., Chicago.

1 Alice's thrush — Chicago.

WHITMAN, C. O., Chicago.

1 ring dove.

DEPARTMENT OF ZOOLOGY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

BARBER, C. M., Chicago.

1 salamander, 2 frogs, 9 toads, 2 tree toads, 2 snakes, 42 lizards,

3 horned toads, 1 turtle — Texas, New Mexico, and Mexico

BRIND, W. L., Chicago.

3 butterflies — Malaga, Spain.

CARPENTER, C. H., Chicago

1 dragon fly — Chicago

CHOPE, E. B., Chicago.

8 moths, 1 grouse-locust — Lake Geneva, Wis., and Chicago.

DOHMEN U. A., Chicago.

1 digger-wasp, 1 beetle — Chicago.

DOUGLAS, J. B., Chicago.

1 hawk-moth — Chicago.

DUGES, ALFRED, Guanajuato, Mexico.

6 specimens fishes — Guanajuato, Mexico.

FIELD COLUMBIAN MUSEUM.

Collected by O. C. Farrington:

1 desert tortoise — Yuma, Arizona.

Collected by E. Heller and C. M. Barber:

6 antelope, 1 coyote — Mexico.

5 antelope, 6 deer, 5 peccaries, 1 coyote — Mexico.

14 squirrels, 2 skunks, 1 fox, 2 coyotes, 7 deer, 4 peccaries — Mexico.

19 deer, 2 antelope, 1 badger, 2 peccaries, 36 small rodents — Mexico.

- 6 snakes, 17 lizards — Jaral, Mexico.
 3 turtles, 60 fishes — Sabinas, Mexico.
 8 coons, 2 rabbits, 6 wood rats, 1 armadillo, 8 wood mice, 16 jumping mice, 18 bats — Mexico.
 1 rabbit, 3 squirrels, 3 coons, 2 wolves, 1 wildcat, 5 beavers, 2 deer — Mexico.
 4 manatees — Mexico.

Collected by E. S. Riggs:

- 1 pine snake, 3 rattlesnakes — Thumbdance, S. D.

Collected by A. W. Slocom:

- 50 fresh-water shells — Kimmswick, Mo.

Collected by Wm. J. Gerhard:

- 53 specimens thrips, moths, ichneumon flies, flies, beetles, parasite, stoneflies, caddicflies — Chicago.

Purchases:

- 3 antelope — Turkmenen-Steppe, Russia.
 1 wolf, 7 wolverines — British Columbia and Newfoundland.
 3 goats — between Bull River and Sheep Creek, British Columbia.
 2 spoon-bill catfish — Mississippi River, near New Orleans, La.
 175 beetles — Turkey in Asia.

HANCOCK, J. L.

- 1 mouse — Lakeside, Mich.

JAPANESE SECTION, Louisiana Purchase Exposition, St. Louis, Mo.

- 4 pearl shells.

KENKEL, L. V., Chicago.

- 22 frogs, 2 lizards, 2 snakes, 3 salamanders, 4 turtles, 6 toads, 50 tree toads, 4 fishes — Egelston Town, Mich.
 1 cicada, 30 beetles — Egelston Town, Mich.

KENNEDY, VERNON SHAW, and WALTER DUPEE.

- 5 mountain sheep — Lower California.

MANN, WILLIAM, Canadian, Texas.

- 30 lizards, 2 toads, 1 turtle, 4 snakes — Florida, Pennsylvania, Texas, and New Mexico.

MASON, GEO. E., Chelsea, England.

- 2 shells.

MENGEL, L. W., Reading, Pa.

- 10 beetles — Rockhampton, Australia.

MILWAUKEE MUSEUM, Milwaukee, Wis.

- 22 lizards, 6 toads — Mexico (exchange).

MUELLER, F. R., Chicago.

- 1 large alligator gar — Lake Washington; Miss.
 3 gar pike — Mississippi.

NEW ZEALAND COMMISSION, Louisiana Purchase Exposition St. Louis, Mo.

- 3 trout — New Zealand.

PERIOLAT, C. F., Chicago.

- 1 wolf skull — Alaska.

ROUX, DR. F., Basel, Switzerland.

- 26 toads and frogs, 39 salamanders, 17 lizards, 18 snakes (exchange).

U. S. BUREAU OF FISHERIES, Washington, D. C.

616 specimens fishes — Samoa.

32 specimens fishes — Maine and Florida.

WAGNER, G. Madison, Wis.

1 steelhead trout, — Lake Michigan.

WILLARD, F. C., Tombstone Arizona.

1 beetle — Tombstone, Arizona.

WOLCOTT, A. B., Chicago.

15 beetles, 8 cicadas, 3 bees, 1 moth, 10 book-lice — Indiana and Illinois.

SPECIAL ACCESSIONS.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

ADAMS, MILWARD, Chicago.

4 Hudson Bay coins.

FIELD COLUMBIAN MUSEUM.

Purchases:

1 Etruscan necklace of gold figurines alternating with small beads.

100 Syrian, Turkish, Arabian, etc., jewelry, ornaments, etc.

SECTION OF PHOTOGRAPHY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

FIELD COLUMBIAN MUSEUM.

Made by C. H. Carpenter:

1 lantern slide, " Hall in Karnak."

1,018 negatives, 9,647 prints, 1,035 lantern slides, 685 negatives and films developed, 109 photographs mounted, 61 enlargements.

Made by Geo. A. Dorsey:

48 negatives of general views, etc., on Indian Reservation.

18 negatives of cases, etc. — New York Museum of Natural History.

Made by O. C. Farrington:

24 negatives of general views — California and Arizona.

Made by E. Heller:

12 negatives of mammals and general views — Mexico.

Made by J. W. Hudson:

48 negatives of general views, Indian scenes, etc. — California.

Made by C. F. Millspaugh:

168 negatives of general views.

Made by C. F. Newcombe:

24 negatives of general views — Vancouver Island, British Columbia.

Made by C. L. Owen:

132 negatives of general views, portraits, etc., among the Indians — California.

Made by E. S. Riggs:

108 negatives of general views — Montana and Wyoming Expedition, 1904.

60 negatives of general views — Bad Lands Expedition, 1905.

Made by A. W. Slocum:

6 negatives of the Eclipse of the Sun — Chicago, Ill.

36 negatives of general views — Missouri and New York.

HADDON, DR. A. C., Cambridge, England.

303 lantern slides, Ethnology of the Torres Strait region (exchange).

THE LIBRARY.

BOOKS, PAMPHLETS, AND SERIALS.

(ACCESSIONS ARE BY EXCHANGE UNLESS OTHERWISE DESIGNATED.)

- ACIREALE. REALE ACCADEMIA DI SCIENZE, Acireale, Italy.
Rendiconti e memorie, ser. 3, v. 3, 1904.
- ADAMS, CHAS. C., Ann Arbor, Michigan.
1 reprint.
- ADAMS, FRANK D., Montreal, Canada.
1 separate.
- AGUILERA, JOSE G., Mexico, Mexico.
1 pamphlet.
- ALABAMA AGRICULTURAL EXPERIMENT STATION, Auburn, Ala.
Bulletin, current numbers (gift).
- ALABAMA GEOLOGICAL SURVEY, University, Ala.
Bulletin, No. 8.
- ALABAMA HISTORICAL SOCIETY, Montgomery, Ala.
Bulletin, Nos. 2, 3.
Circular, Nos. 2-7, 11 (gift).
- ALBANY MUSEUM, Grahamstown, Cape Colony.
Records, v. 1, pts. 3-4.
- ALLEN, GLOVER M., Cambridge, Mass.
9 pamphlets.
- AMBROSETTI, JUAN B., Buenos Aires, Argentina
3 pamphlets.
- AMERICAN ACADEMY OF ARTS AND SCIENCES, Boston, Mass.
Proceedings, current numbers.
- AMERICAN ANTHROPOLOGICAL AND ETHNOLOGICAL SOCIETIES,
New York.
Memoirs, v. 1, pt. 1.
- AMERICAN ANTIQUARIAN SOCIETY, Worcester, Mass.
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- AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE,
Washington, D. C.
Proceedings, St. Louis meeting, 1903-1904 (gift)
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- AMERICAN FOLK-LORE SOCIETY, Cambridge, Mass.
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- AMERICAN GEOGRAPHICAL SOCIETY, New York, N. Y.
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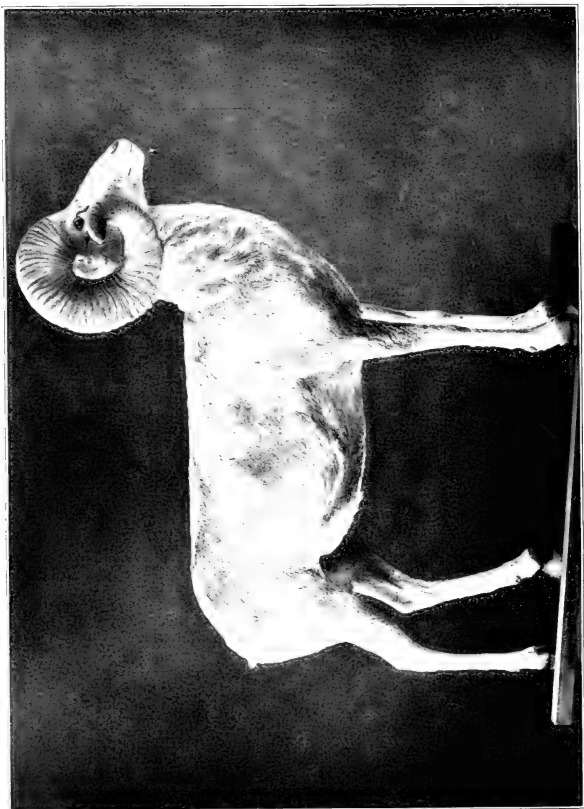
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Annual report, 1904.
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Memoirs, v. 2, pt. 3.
13 separates.
- AMERICAN ORIENTAL SOCIETY, New Haven, Conn.
Journal, v. 25, pt. 2; v. 26, pt. 1.
- AMERICAN PHILOSOPHICAL SOCIETY, Philadelphia, Pa.
Proceedings, current numbers.
- AMERICAN RAILWAY GUIDE COMPANY, Chicago, Ill.
Travelers' railway guide (western section) (gift).
- AMSTERDAM. BIBLIOTHEQUE DE L'UNIVERSITÉ, Amsterdam, Netherlands.
17 dissertations.
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Proceedings, v. 6, pts. 1-2.
Verhandelingen, v. 10, nos. 1-6.
Verslag, v. 12, pts. 1-2.
- ANNALES DES MINES, Paris, France.
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- ANTHROPOLOGICAL INSTITUTE OF GREAT BRITAIN AND IRELAND, London, England.
Journal, current numbers.
- ARCHITECTS' AND BUILDERS' MAGAZINE COMPANY, New York City.
Magazine, current.
- ARCHIVES D'ANTHROPOLOGIE CRIMINELLE, Paris, France.
Current numbers.
- ARCHIV FÜR NATURGESCHICHTE, Berlin, Germany.
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Archiv, v. 7.
- ARGENTINA UNIVERSAL NACIONAL DE CIENCIAS, La Plata, Argentina.
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- ARIZONA UNIVERSITY, Tucson, Arizona.
Annual report, agricultural experiment station.
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- ARKANSAS AGRICULTURAL EXPERIMENT STATION, Fayetteville, Arkansas.
 Bulletin, nos. 50-86.
 Reports, nos. 8, 9, 10, 13, 14, 17, (gift).
- ARMOUR INSTITUTE OF TECHNOLOGY, Chicago, Ill.
 Yearbook, 1905-06.
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 Bericht., v. 35, 1904.
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 Monograph, v. 1 and 2.
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- AUGUSTANA COLLEGE, Rock Island, Ill.
 Library publications, no. 4.
- BABINE, ALEXIS V., Washington, D. C.
 The Yudin Library, Krasnovrsk, E. Siberia (gift).
- BARBER, EDWARD A., Philadelphia, Pa.
 1 separate.
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 Verhandlungen, v. 17.
- BEAN, TARLETON H., New York.
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- BLACK DIAMOND COMPANY, Chicago, Ill.
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no. 5; v. 12, no. 4; v. 13, no. 1.
- BOLTON, H., Bristol, England.
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- BOMBAY ANTHROPOLOGICAL SOCIETY, Bombay, India.
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- BRUNN LANDWIRTSCHAFTLICHE-LANDES-VERSUCHSSTATION FÜR PFLANZENKULTUR**, Brunn, Austria.
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- BUFFALO PUBLIC LIBRARY, Buffalo, N. Y.
Annual report, 8th.
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Bulletin, nos. 65, 67-69.
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- COLLETT, R., Christiania, Norway.
Meddelelser om Norges fiske, 1884-1901, with 3 pamphlets.
Report on Norwegian fishery and marine investigations, 1903, v. 2,
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- COLLINGE, WALTER E., Birmingham, England.
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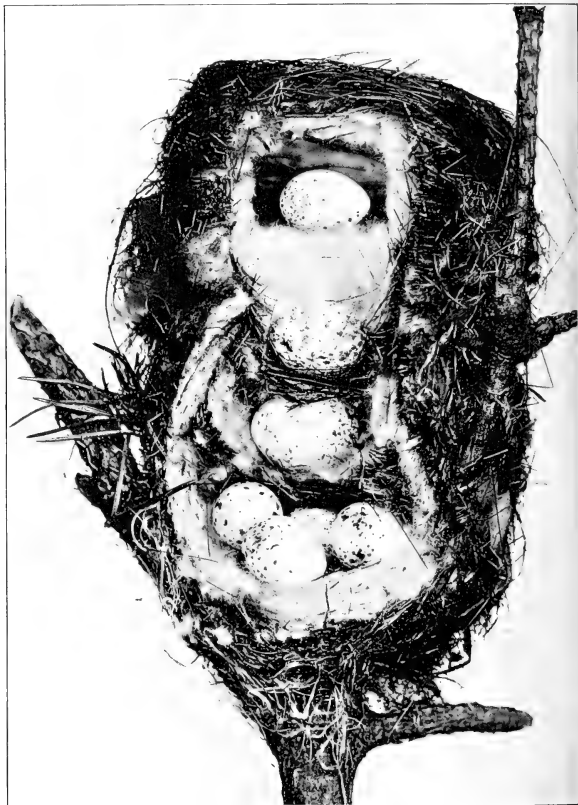
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A FOUR-STORIED NEST OF A YELLOW WARBLER (*DENDRÆCA ÆSTIVA*). EACH STORY REPRESENTS AN ATTEMPT BY THE WARBLER TO AVOID BECOMING A FOSTER PARENT OF A YOUNG COWBIRD.

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Monadsblad, v. 17, nos. 2-3.





SKULL OF TRICERATOPS, FROM MONTANA. LENGTH, SIX FEET SIX INCHES; WIDTH, FOUR FEET FOUR INCHES; HEIGHT, THREE FEET SIX INCHES. COLLECTED BY MUSEUM EXPLORATION OF 1884

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many.
Stiftungsfest, 1905.
24 dissertations.
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1 pamphlet (gift).
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- SYDERE, ARTHUR H., Toronto, Canada.
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- THAXTER, ROLAND, Cambridge, Mass.
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2 pamphlets.
- VASSAR BROTHERS INSTITUTE, Poughkeepsie, N. Y.
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June 17, 1788 (reprint).
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Report, 1903-04.
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Catalogue, 1904-05.
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ARTICLES OF INCORPORATION.

STATE OF ILLINOIS.

DEPARTMENT OF STATE.

WILLIAM H. HINRICHSSEN, *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. HINRICHSSEN,
Secretary of State.

[SEAL.]

TO HON. WILLIAM H. HINRICHSSEN,

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 purpose 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, Archæology, 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.

4. The following named persons are hereby selected as the Trustees for the first year of its corporate existence:

Ed. E. Ayer, Charles B. Farwell, George E. Adams, George R. Davis, Charles L. Hutchinson, Daniel H. Burnham, John A. Roche, M. C. Bullock, Emil G. Hirsch, James W. Ellsworth, Allison V. Armour, O. F. Aldis, Edwin Walker, John C. Black, and Frank W. Gunsaulus.

5. The location of the Museum is in the City of Chicago, County of Cook and State of Illinois.

(Signed),

George E. Adams, C. B. Farwell, Sidney C. Eastman, F. W. Putnam, Robert McMurdy, Andrew Peterson, L. J. Gage, Charles L. Hutchinson, Ebenezer Buckingham, Andrew McNally, Edward E. Ayer, John M. Clark, Herman H. Kohlsaatt, George Schneider, Henry H. Getty, William R. Harper, Franklin H. Head, E. G. Keith, J. Irving Pearce, Azel F. Hatch, Henry Wade Rogers, Thomas B. Bryan, L. Z. Leiter, A. C. Bartlett, A. A. Sprague, A. C. McClurg, James W. Scott, Geo. F. Bissell, John R. Walsh, Chas. Fitzsimmons, John A. Roche, E. B. McCagg, Owen F. Aldis, Ferdinand W. Peck, James H. Dole, Joseph Stockton, Edward B. Butler, John McConnell, R. A. Waller, H. C. Chatfield-Taylor, A. Crawford, Wm. Sooy Smith, P. S. Peterson, John C. Black, Jno. J. Mitchell, C. F. Gunther, George R. Davis, Stephen A. Forbes, Robert W. Patterson, Jr., M. C. Bullock, Edwin Walker, Geo. M. Pullman, William E. Curtis, James W. Ellsworth, William E. Hale, Wm. T. Baker, Martin A. Ryerson, Huntington W. Jackson, N. B. Ream, Norman Williams, Melville E. Stone, Bryan Lathrop, Eliphalet W. Blatchford, Philip D. Armour.

STATE OF ILLINOIS, }
COOK COUNTY. } ss.

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 severally 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,

[SEAL.]

NOTARY PUBLIC, COOK COUNTY, ILL.

CHANGE OF NAME.

Pursuant to a resolution passed at a meeting of the corporate members held on the 25th day of June, 1894, the name of the COLUMBIAN MUSEUM was changed to FIELD COLUMBIAN MUSEUM. A certificate to this effect was filed June 26, 1894, in the office of the Secretary of State for Illinois.

AMENDED BY-LAWS.

(JANUARY 29, 1900.)

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 ground for forfeiture of annual membership.

This said annual membership shall entitle the member to:

First.—Free admittance for himself 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 every publication of the Museum sold at the entrance door, and to the Annual Reports.

Fourth.—Invitations to all receptions, lectures, or other entertainments which may be given at the Museum.

SEC. 3. The Corporate Members shall consist of the persons named in the articles of association, 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 the association shall within ninety days from the adoption of these By-Laws, and persons hereafter chosen as Corporate Members, shall, within ninety days of their respective election, pay into the treasury the sum of twenty dollars (\$20.00) or more. The failure of any person to make such payments within said time shall, at the option of the Board of Trustees, be ground for forfeiture of his corporate membership. The annual dues of Corporate Members shall be five dollars (\$5.00) after the first year of membership, and no one shall exercise the rights of a Corporate Member until his dues are paid; and a delinquency of six months in the payment of annual dues shall be ground for forfeiture of corporate membership. Corporate Members becoming Life Members, Patrons, or Honorary Members shall be exempt from dues.

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

SEC. 5. Patrons shall be chosen by the Board of Trustees, upon recom-

mendation of the Executive Committee, from among persons who have rendered eminent service to the Museum. They shall be exempt from all dues, and, by virtue of their election as Patrons, shall also be Corporate Members.

SEC. 6. Honorary Members shall be chosen from among persons who have rendered eminent service to science, art, or mechanics. They shall be chosen by a vote of the Trustees, and only upon unanimous nomination of the Executive Committee. They shall be exempt from all dues. In commemoration of the 14th day of October, Honorary Members shall not be more than fourteen in number at any one time.

SEC. 7. All members of whatever class shall be eligible to appointment upon Committees other than the Executive Committee.

ARTICLE II.

OFFICERS.

SECTION 1. The respective members of the Board of Trustees now in office, and those who shall hereafter be elected, shall hold office during life. Vacancies occurring in the Board shall be filled by a majority vote of the remaining members of the Board of Trustees at any regular meeting.

SEC. 2. The other officers shall be President, two Vice-Presidents, Secretary, and Treasurer, and an Executive Committee of four persons, who shall be chosen by ballot by the Board of Trustees from their own number as early as practicable after the annual meeting in each year. The President shall be *ex-officio* a member of the Executive Committee and Chairman thereof, in addition to the other four members. The Secretary and Treasurer may, or may not, be the same person, and the Secretary may, or may not, be a Corporate Member.

Any officer may be removed at any regular meeting of the Board of Trustees by a vote of two-thirds of all the members of the Board. Vacancies in any office may be filled by the Board at any meeting.

SEC. 3. The President shall appoint from among the Trustees a Committee on Finance, a Committee on Property, an Auditing Committee, and a Committee on Buildings and Grounds, who shall serve during the pleasure of the Board.

SEC. 4. The officers shall perform such duties as ordinarily appertain to their respective offices, and such other duties as the Board of Trustees may from time to time devolve upon them. The Treasurer shall give bond in such amount and with such surety as shall be approved by the Executive Committee, and shall disburse the funds of the Museum only in accordance with the directions of the Executive Committee, upon the signature and counter-signature of such officers as the Executive Committee shall empower thereto.

SEC. 5. The Executive Committee shall have full control of the affairs of the Museum, under the general supervision of the Board of Trustees.

ARTICLE III.

MEETINGS.

SECTION 1. In commemoration of the discovery of America by Christopher Columbus, the annual meeting of the Corporate Members shall be held on the 14th day of October in each year, except when that day falls on a Sunday, and then upon the Monday following. At such meeting the Corporate

Members shall transact such business as may properly come before the meeting. Special meetings of the Corporate Members shall be called at any time by the Secretary upon written request of twenty Corporate Members. In such case, thirty days' notice by mail shall be given to Corporate Members of the time, place, and purpose of such meetings.

SEC. 2. Regular meetings of the Board of Trustees shall be held upon the 14th day of October, except when that day falls on Sunday, and then upon the Monday following, and upon the last Monday of January, April, and July of each year. Special meetings may be called by the President at any time upon reasonable notice by mail, and shall be called upon the written request of three Trustees. Five Trustees shall constitute a quorum, but meetings may be adjourned by any less number from day to day or to a day fixed.

ARTICLE IV.

AMENDMENTS.

SECTION 1. These By-Laws may be amended at any regular meeting of the Trustees by a two-thirds vote of all the members present, provided the amendment shall have been proposed at the last regular meeting preceding or shall be recommended by the Executive Committee.

HONORARY MEMBERS.

EDWARD E. AYER
HARLOW N. HIGINBOTHAM

CHARLES B. CORY
STANLEY McCORMICK

DECEASED.

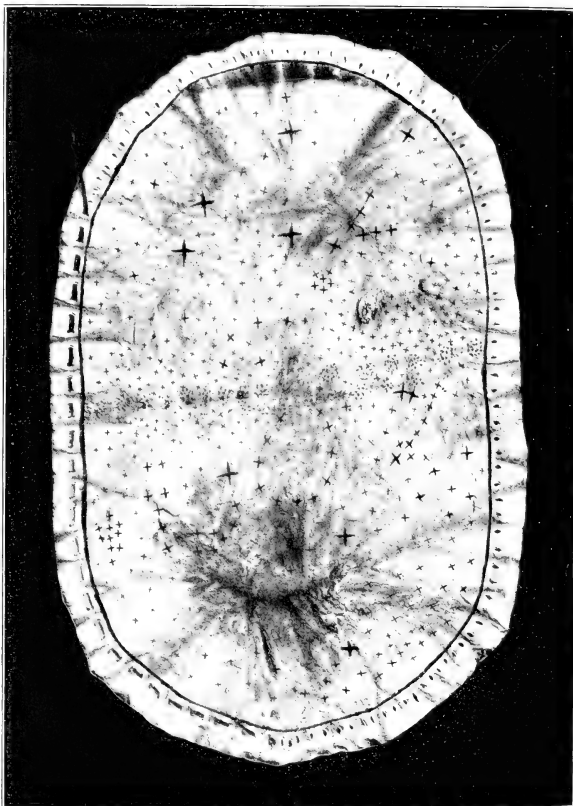
MARY D. STURGES

PATRONS.

ALLISON V. ARMOUR
WILLIAM I. BUCHANAN

FREDERICK W. PUTNAM
FREDERICK J. V. SKIFF
WILLARD A. SMITH





CORPORATE MEMBERS.

ADAMS, GEORGE E.	HIGINBOTHAM, H. N.
ALDIS, OWEN F.	HUTCHINSON, CHARLES L.
ARMOUR, ALLISON V.	JONES, ARTHUR B.
AYER, EDWARD E.	KEITH, E. G.
BARTLETT, A. C.	KOHLSAAT, HERMAN H.
BLACK, JOHN C.	LATHROP, BRYAN
BLAIR, WATSON F.	McCAGG, E. B.
BLATCHFORD, ELIPHALET W.	McCORMICK, CYRUS H.
BUCHANAN, W. I.	MANIERRE, GEORGE
BUCKINGHAM, EBENEZER	MITCHELL, JOHN J.
BURNHAM, DANIEL H.	PATTERSON, ROBERT W.
BUTLER, EDWARD B.	PECK, FERD. W.
CHALMERS, W. J.	PUTNAM, FREDERICK W.
CHATFIELD-TAYLOR, H. C.	REAM, NORMAN B.
CLARK, JOHN M.	RYERSON, MARTIN A.
CURTIS, WILLIAM E.	SKIFF, F. J. V.
EASTMAN, SIDNEY C.	SMITH, BYRON L.
ELLSWORTH, JAMES W.	SMITH, WILLARD A.
CAGE, LYMAN J.	SPRAGUE, A. A.
GETTY, HENRY H.	STOCKTON, JOSEPH
GUNSAULUS, FRANK W.	STONE, MELVILLE E.
GUNTHER, C. F.	WALKER, EDWIN
HARPER, WILLIAM R.	WALSH, JOHN R.
HATCH, AZEL F.	
HEAD, FRANKLIN H.	

DECEASED.

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

LIFE MEMBERS.

- ADAMS, GEORGE E.
ALDIS, OWEN F.
- BARRETT, MRS. A. D.
BARRETT, ROBERT L.
BARRETT, S. E.
BARTLETT, A. C.
BLAIR, CHAUNCEY J.
BLAIR, WATSON F.
BOOTH, W. VERNON
BURNHAM, D. H.
BUTLER, EDWARD B.
- CARTER, JAMES S.
CARTON, L. A.
CHALMERS, WILLIAM J.
CRANE, R. T.
- DEERING, CHARLES
DRAKE, TRACY C.
- FARWELL, WALTER
FAY, C. N.
FIELD, STANLEY
FULLER, WILLIAM A.
- GARTZ, A. F.
GRISCOM, CLEMENT A.
GROMMES, JOHN B.
- HAMILL, ERNEST A.
HILL, LOUIS W.
HUGHITT, MARVIN
HUTCHINSON, C. L.
- INGALLS, M. E. [PORTER
ISHAM, MRS. KATHERINE
- JOHNSON, M.D., FRANK S.
JOHNSON, MRS. ELIZABETH
JONES, ARTHUR B. [AYER
- KEITH, ELBRIDGE G.
KING, FRANCIS
- KING, JAMES C.
KIRK, WALTER RADCLIFFE
LAWSON, VICTOR F.
McCORMICK, MRS.
McCORMICK, CYRUS H.
McCORMICK, HAROLD F.
MacVEAGH, FRANKLIN
MITCHELL, J. J.
MURDOCH, THOMAS
- NEWELL, A. B.
- ORR, ROBERT M.
- PEARSONS, D. K.
PIKE, EUGENE S.
PORTER, GEORGE T.
PORTER, H. H.
PORTER, H. H., Jr.
- REAM, MRS. CAROLINE P
REAM, NORMAN B.
REVELL, ALEX. H.
RUSSELL, EDMUND A.
RYERSON, MRS. CARRIE H.
RYERSON, MARTIN A.
- SCHLESINGER, LEOPOLD
SCOTT, ROBERT S.
SINGER, C. G.
SMITH, BYRON L.
SMITH, ORSON
SPRAGUE, A. A.
SPRAGUE, OTHO S. A.
STURGES, GEORGE
- THORNE, GEORGE R.
TREE, LAMBERT
- WELLING, JOHN C.
WELLS, M. D.
WILLARD, ALONZO J.
WOLFF, LUDWIG

ANNUAL MEMBERS.

ADAMS, CYRUS H.
ADAMS, MILWARD
ALLERTON, ROBERT H.
AMBERG, WILLIAM A.
ARMOUR, GEORGE A.

BAILEY, EDWARD P.
BAKER, SAMUEL
BANGA, DR. HENRY
BARNES, CHARLES J.
BARRELL, JAMES
BEAUVAIS, E. A.
BECKER, A. G.
BELDEN, J. S.
BILLINGS, C. K. G.
BILLINGS, DR. FRANK
BIRKHOFF, GEORGE, JR.
BLAINE, MRS. EMMONS
BLAIR, HENRY A.
BOAL, CHARLES T.
BOTSFORD, HENRY
BOUTON, C. B.
BOUTON, N. S.
BRADWELL, JAMES B.
BREGA, CHARLES W.
BREMNER, DAVID F.
BREYFOGLE, WM. L.
BROOKS, JAMES C.
BROWN, GEORGE F.
BROWN, WILLIAM L.
BURLEY, CLARENCE A.
BURLEY, FRANK E.

CABLE, R. R.
CARPENTER, A. A.
CARPENTER, MYRON J.
COMSTOCK, WILLIAM C.
CONKLING, ALLEN
CONOVER, CHARLES H.
COOLBAUGH, MRS. ADDIE R.
COOLIDGE, CHARLES A.
COONLEY-WARD, MRS. L. A.
CORWITH, CHARLES R.

COWAN, W. P.
COX, ALFRED J.
CRANE, CHARLES R.
CUDAHY, JOHN
CUMMINGS, E. A.
CURTIS, D. H.

DAL, DR. JOHN W.
DAY, A. M.
DAY, CHAPIN A.
DEERING, JAMES
DEERING, WILLIAM
DELANO, F. A.
DEMMLER, K.
DILLMAN, L. M.
DUNHAM, MISS M. V.
DURAND, ELLIOTT
DWIGHT, JOHN H.

EDWARDS, J. A.
EISENDRATH, W. N.
EMMERICH, CHARLES

FAIR, R. M.
FARNSWORTH, GEORGE
FLANNERY, JOHN L.
FORSYTH, ROBERT
FRANK, HENRY L.
FRASHER, JOHN E. L.
FULLER, O. F.
FURST, CONRAD

GAYLORD, FREDERIC
GLESSNER, J. J.
GOODRICH, A. W.
GORDON, EDWARD K.
GRAHAM, E. R.
GREEN, E. H. R.
GREY, CHARLES F.
GREY, WILLIAM L.
GUION, GEORGE MURRAY
GURLEY, W. W.

HAMILTON, I. K.
 HANEY, ELBRIDGE
 HARDING, AMOS J.
 HARRIS, GEORGE B.
 HARRIS, JOHN F.
 HARRIS, N. W.
 HASKELL, FREDERICK T.
 HERTLE, LOUIS
 HITCHCOCK, R. M.
 HOLDOM, JESSE
 HOLT, GEORGE H.
 HOPKINS, JOHN P.
 HORNER, ISAAC
 HOSKINS, WILLIAM
 HOUGHTLING, JAMES L.

INSULL, SAMUEL

JEFFERY, THOMAS B.
 JENKINS, GEORGE H.
 JONES, J. S.

KEEFER, LOUIS
 KEENE, JOSEPH
 KEEP, ALBERT
 KEITH, W. SCOTT
 KELLEY, WILLIAM E.
 KENT, WILLIAM
 KIMBALL, EUGENE S.
 KIMBALL, MRS. MARK
 KOEHLER, THOMAS N.

LAFLIN, ALBERT S.
 LAMB, FRANK H.
 LAWSON, VICTOR F.
 LAY, A. TRACY
 LEFENS, THIES J.
 LEIGH, EDWARD B.
 LINCOLN, ROBERT T.
 LINN, W. R.
 LLOYD, EVAN
 LOEWENTHAL, B.
 LOGAN, F. G.
 LORD, J. B.
 LOWDEN, FRANK O.
 LYTTON, HENRY C.

McCREA, W. S.
 McGUIRE, REV. H.
 McLENNAN, J. A.

McWILLIAMS, LAFAYETTE
 MACFARLAND, HENRY J.
 MAGEE, HENRY W.
 MANSON, WILLIAM
 MANSURE, E. L.
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FOLLOWING IS A FREE TRANSLATION OF THE MEMORIAL ADOPTED BY THE CONGRESS AT MONS, BELGIUM, IN SEPTEMBER, 1905, PROVIDING FOR THE ORGANIZATION OF AN INTERNATIONAL BUREAU OF ETHNOGRAPHY:

ARTICLE 1. There is founded by the countries enumerated, and by all those countries which hereafter subscribe to the present agreement, a permanent bureau entitled The International Bureau of Ethnography.

ARTICLE 2. The object of the Bureau is the organization at common expense, of services pertaining to the scientific documentation relative to the social state, the manners and customs of different peoples, especially peoples of inferior civilization.

The Bureau especially concerns itself with the following objects:

1. The organization of a permanent bureau of inquiry, especially by:

a). The publication of ethnographic and sociologic questions, keeping account of the initiatives of different countries and of the results obtained;

b). The sending out of these questions through the medium of competent authorities to all those who are apt to furnish results, especially to Colonial officials, to explorers, to missionaries, etc.

2. The publication of the results of this inquiry upon a uniform plan, or upon a plan as uniform as possible.

3. The distribution of the results to the different contracting States, to participating learned associations and to the public in general under established conditions.

4. The elaboration of an ethnographic bibliography embodying the published writings (books and articles from periodicals) in all languages and in all countries;

a). Published at all times (progressive service).

b). Published during the current year (service to increase as much as possible).

5. The publication of the current part of this catalogue, and the communication of the results for the anterior part.

ARTICLE 3. To this end there is established in Brussels an International Bureau of Ethnography charged with the organization of such divers services.

ARTICLE 4. This bureau enjoys all the rights attached to a civil person after the manner of permitting him to receive gifts and bequests, and of contracting for work and publication, of civil engagements in the sphere of their privileges.

ARTICLE 5. The bureau functions under the direction of an

international committee formed by the delegates of all the contracting states. This international committee will be composed of three delegates for each nation, of which one delegate shall have the title of National Commissioner, who shall be especially designated.

They are nominated for a term of six years.

This committee will unite at least once every two years, and consider all the decisions and conclusions relating to the International Bureau of Ethnography. It shall be empowered to convene more frequently, but at the initiative of the executive of the bureau or at the demand of four of the adhering states.

ARTICLE 6. The national commissioners shall unite at least once each year and exercise the control of administration, and especially verify the accounts.

Each commissioner will be, in place of his government, the ordinary intermediary to the International Bureau of Ethnography. He will communicate to it the results received by way of missions, of inquiries or otherwise. He will transmit the requirements of the International Bureau to his Government or Principal.

ARTICLE 7. In the interval between sessions, the execution of the scientific decisions of the international committee, and the management of the administrative affairs, shall be confined to an executive bureau composed of the President, permanent Secretary, and Assistant Secretary.

For scientific affairs not foreseen, the Bureau shall take, through correspondence, the advice of the delegates of the different governments.

Likewise for administrative affairs not foreseen, the Bureau will take, through correspondence, the advice of the national commissioners of the different governments.

It shall be the duty of the bureau to fix the dates of the meetings of the international committee, as well as to convoke the delegates of the contracting states, indicating the order of the day of meeting.

The communications to the International Bureau of Ethnography with the adhering governments will be through the intermediary of the national commissioners.

ARTICLE 8. Each country may encourage the co-operation of its own learned men and own learned societies; but the communication of this organization shall be made to the International Bureau of Ethnography.

The bureau may enter into direct relations with all societies of ethnography, of sociology, of geography and other scientific organization which wish to co-operate in the realization of the aim of the Institution; likewise with men of science and, in general, individuals.

ARTICLE 9. If the amount of donations, legacies and subsidies

arising from individuals or free institutions, capitalized at 3 per cent, reaches at least the sixth of the allowance of the participating states, there shall be formed a committee of donors which shall be represented by two members of the international committee.

ARTICLE 10. A report upon the work and the financial administration of the bureau shall be addressed each year to the adhering governments. To the report will be annexed a statement of the preliminary budget for the following year and the program of undertakings.

ARTICLE 11. The budget of the International Bureau of Ethnography will be supported by annual assessments of the contracting members and states, by the proceeds of the sale of publications and by taxes to be calculated upon information furnished, and by gifts and legacies.

The amount of the assessments assigned annually to the bureau by the adhering states, is fixed at the minimum figure of ——. (This amount shall be fixed at the first meeting of the international committee; it will depend in effect upon divers circumstances not yet determined, especially upon the number of languages into which the documents shall be translated and published.)

The assessments not consumed in the operations, shall be reported at the end of the year. They may serve, should there be a surplus, to constitute a reserve fund.

Above the annual assessments a capital of ——— (likewise reserved as above) shall be put the first year at the disposition of the bureau for installation expenses. The States and Colonies which shall hereafter make use of the privileges of joining, according to Article 17, shall have to pay their share of this sum upon the basis of assessments as fixed in Article 13.

ARTICLE 12. The States and Colonies which withdraw from the bureau at the expiration of the first term of twenty years, shall lose their participating rights in the common fund.

In case of liquidation the common fund shall be partitioned among the States and Colonies of the International Bureau after a basis of distribution as provided for in Article 13.

ARTICLE 13. The contributing part of the contracting states in the annual assessment to the International Bureau of Ethnography, as well as the first installments, is established in units upon the double base of their population and of economic activity.

As for population, a unit shall be considered as 500,000 inhabitants. As for economic activity, a unit shall be considered as 50,000,000 francs of foreign commerce, imports and exports together.

ARTICLE 14. The amount of the personal contribution of each state is rendered in an agreed proportion in subscriptions to publications calculated at a price of public sale reduced one-fifth.

The use of collections by the delegates of the central administra-

tion of the adhering states is free. It shall answer, without expense, to all their demands for information.

ARTICLE 15. The total assessment of the contracting states divided by the sum of the units attributed to each of them in execution of the preceding arrangements, will give the unit of the part leviable. It will suffice to multiply this by the number of units assigned to each of the states to find the amount of its contribution to the budget of the International Bureau of Ethnography.

ARTICLE 16. In order to place the institution in position to realize its object as exact and complete as possible, the contracting parties engage themselves each so far as concerns its own country:

1 To execute, as rapidly as possible, the obligations springing from Article 2.

2 To address to the International Bureau:

a). A copy of all official publications (books or periodicals) appearing which pertain to the aim of the institution.

b). The list, manuscript or printed, of all works (books or pamphlets) which shall appear in the future. This list which shall be addressed to the Bureau of Ethnography with as much regularity as possible, shall be held as official. It shall indicate for each work the name and surname of the author, or the name of the publisher. The title of the work with eventually such necessary supplementary directions as to assure a methodic classification by contents of the work, on examining the title, the place and date of publication, the size, number of pages and price.

ARTICLE 16. The rule of procedure having the same obligatory force as the present convention, but within the limits of this same, shall be made by the international committee.

ARTICLE 17. Those States and Colonies which have not taken part in the present convention, may be admitted later. Their accession will be made in writing to the Belgian Government which shall make the fact known to all the other contracting governments. The accession shall carry in full right adhesion of all the clauses and admissions, to all the advantages stipulated in the present convention.

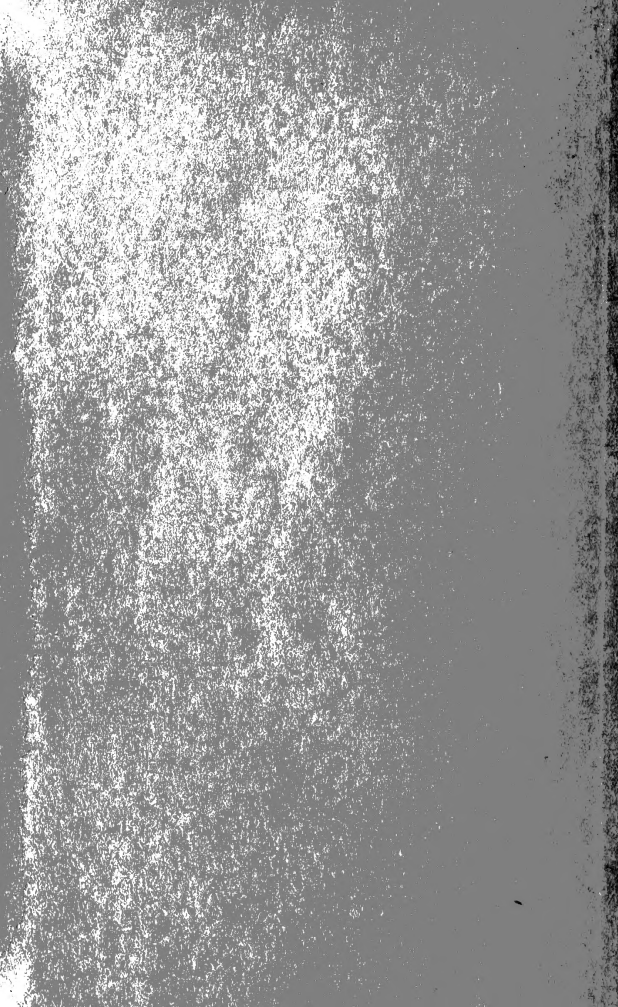
ARTICLE 18. The present convention shall go into effect the ——— and shall remain in effect during twenty years.

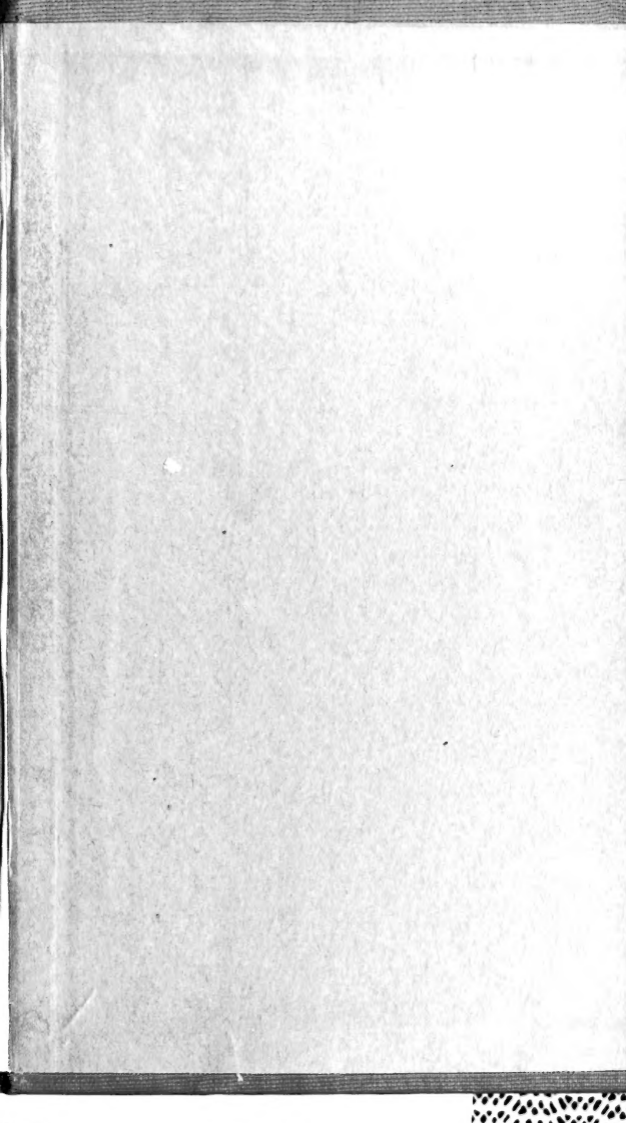
If twelve months before the expiration of the first twenty years, the present convention shall not disband, the Bureau shall exist during a new period of twenty years, and so on. Withdrawal shall be addressed to the Belgian Government. It shall not be in effect as regards the country which shall make it, the convention remaining executor for the other adhering countries.

Later the National Museum and the Field Museum were invited to become members of the provisional organizing body.









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