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PUBLICATIONS

OF THE

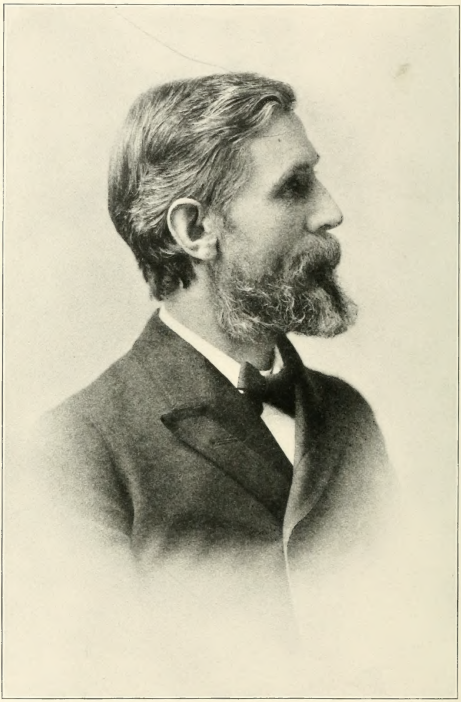
FIELD COLUMBIAN MUSEUM

REPORT SERIES

VOLUME II

CHICAGO, U. S. A.

1901–1905.



HARLOW N. HIGINBOTHAM, PRESIDENT.

FIELD COLUMBIAN MUSEUM

PUBLICATION 86.

REPORT SERIES. VOL. II, NO. 3.

ANNUAL REPORT OF THE DIRECTOR

TO THE

BOARD OF TRUSTEES

FOR THE YEAR 1902-1903.

CHICAGO, U. S. A.
October, 1903.

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ANNUAL REPORT OF THE DIRECTOR.

1902-1903.

To the Trustees of the Field Columbian Museum:

I have the honor to present the report of the operations of the Museum during the year closing September 30, 1903.

MAINTENANCE.—The sum of $102,000 was appropriated by the Executive Committee for the necessary expenses of maintenance during the fiscal year, and it is a matter of congratulation to report that the actual amount expended for this purpose was but $83,101, leaving a satisfactory margin of $18,899. This is more especially noteworthy, as numerous additions were made during the year to the force of departmental assistants. There were, however, several sums expended for collections, expeditions, and research work, specially authorized by the Executive Committee, which brings the grand total of disbursements during the year to $145,066. When comparisons are made between the expenditures of the year just closed and those of previous years, it is noted that there is a substantial reduction in the outlay for repairs to the building. It was stated in my last report that the building was perfectly safe, and I have no hesitation in re-iterating that statement, and no anxiety need be felt as to any accidents occurring either to visitors or to those employed in the building, but the periodical attempts to improve the outside appearance of the walls have ceased, as it has been conclusively proven that such efforts were ineffectual. In fact, the introduction of new plaster in patching seemed to loosen a larger area than was repaired. The roof of the Museum building is, perhaps, to-day in better order than it ever has been, and it is doubtful if the interior has been so well protected from leakages since the construction of the building; but this condition is due to constant vigilance.

LECTURE COURSES.—The attendance at the two courses given was highly gratifying, but the poor ventilation of the hall undoubtedly

discourages many, who would otherwise be regular attendants. Experiments have been made in the matter of obtaining purer air in the hall, but the singular construction of the room almost precludes the possibility of accomplishing this with any measure of success. Opportunity is taken to tender sincere thanks to the lecturers who so readily and cheerfully participated in this highly beneficial form of public instruction. The syllabuses shown herewith mark a number of unusually interesting discourses.

Following is the Eighteenth Lecture Course, delivered in October and November, 1902:

Oct. 4.—"Past and Future of the South Appalachian Mountains."
Dr. J. A. Holmes, State Geologist, North Carolina.

Oct. 11.—"The Salmon and Salmon Fisheries of Alaska."
Dr. Tarleton H. Bean, Chief of the Department of Fish and Game, St. Louis Exposition, 1904.

Oct. 18.—"Flying Reptiles."
Dr. S. W. Williston, Professor of Paleontology, University of Chicago.

Oct. 25.—"Invisible Stars."
Prof. Edwin B. Frost, Yerkes Observatory, University of Chicago.

Nov. 1.—"The Insect Life of Ponds and Streams."
Dr. Jas. G. Needham, Lake Forest College.

Nov. 8.—"A Naturalist's Visit to Cuba."
Dr. C. H. Eigenmann, Director Biological Station, Bloomington, Ind.

Nov. 15.—"The Mythologic Age—The Indian and the Buffalo."
Dr. George A. Dorsey, Curator of Anthropology.

Nov. 22.—"The Fishes of Mexico—A Study in Geographical Distribution."
Dr. S. E. Meek, Assistant Curator, Department of Zoölogy.

Nov. 29.—"The Navaho."
Mr. C. L. Owen, Assistant Curator, Division of Archæology.

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The following is the Nineteenth Lecture Course, Spring 1903:

March 7.—"The Crow Indians of Montana." (Repeated by request.)
Mr. S. C. Simms, Assistant Curator, Division of Ethnology.

March 14.—"Diamonds and Diamond Mining."
Prof. O. C. Farrington, Curator, Department of Geology.

March 21.—"The English Sparrow."
Dr. J. Rollin Slonaker, University of Chicago.

March 28.—"A Tour of the Plant World—Japan."
Dr. C. F. Millspaugh, Curator, Department of Botany.

April 4.—"Swimming Reptiles."
Dr. S. W. Williston, Associate Curator, Division of Paleontology.

April 11.—"Mining in the Southern Appalachians."
Mr. Henry W. Nichols, Assistant Curator, Department of Geology.

April 18.—"Our Household Insects."
Mr. W. J. Gerhard, Assistant Curator, Division of Entomology.

April 25.—"Experimental Agriculture in Russia."
Mr. Frederick W. Taylor, Chief of the Department of Agriculture, St. Louis Exposition, 1904.

Publications.—The established series of publications have been continued, and numbers have appeared at irregular intervals as the opportunity for recording the results of research and observation presented itself. The executive Committee sanctioned an increase of five hundred copies in the different issues, so that the edition of each paper is now fifteen hundred. This increase was necessary on account of the large addition to the number of names on the mailing list of the institution. The following list is presented, giving the titles of issues since the date of last report, with the number of pages and illustrations.

PUBLICATIONS 1902–1903.

Pub. 68.—Botanical Series, Vol. 1, No. 7. "Flora of the Island of St. Croix." By Charles Frederick Millspaugh. 105 pp., 1 zinc etching, edition 1,000.

Pub. 69.—Botanical Series, Vol. 3, No. 1. "Plantæ Yucatanæ" (Regionis Antillanæ), Plants of the Insular, Coastal, and Plain Regions of the Peninsula of Yucatan, Mexico. By Charles Frederick Millspaugh. 84 pp., 118 zinc etchings, edition 1,000.

Pub. 70.—Report Series, Vol. 2, No. 2. "Annual Report of the Director to the Board of Trustees." For the year 1902–1903. 82 pp., edition 2,500, illustrations 12 (half-tones).

Pubs. 71, 72.—Zoölogical Series, Vol. 3, Nos. 8 and 9. "A List of a Collection of Mexican Mammals, and Description of an apparently New Subspecies of Marten from the Kenai Peninsula, Alaska." By D. G. Elliot. 11 pp., 1 illustration (half-tone). Edition 1,032.

Pub. 73.—Geological Series, Vol. 2, No. 1. "North American Plesiosaurs, Part I." By Samuel W. Williston. 77 pp., 29 illustrations (half-tones), edition 1,000.

Pub. 74.—Zoölogical Series, Vol. 3, No. 10. "Descriptions of Apparently New Species and Subspecies of Mammals from California, Oregon, the Kenai Peninsula, Alaska, and Lower California, Mexico." By D. G. Elliot. 21 pp., 1 illustration (half-tone), edition 1,000.

Pub. 75.—Anthropological Series, Vol. 4. "The Arapaho Sun Dance; The Ceremony of the Offerings Lodge." By George A. Dorsey. 228 pp., 127 half-tones, 10 colored plates, edition 2,000.

Pub. 76.—Zoölogical Series, Vol. 3, No. 11. "A List of Mammals Obtained by Edmund Heller, Collector for the Museum, from the Coast Region of Northern California and Oregon." By D. G. Elliot. 22 pp., edition 1,500.

Pub. 77.—Geological Series, Vol. 2, No. 2. "Catalogue of the Collection of Meteorites, May 1, 1903." By Oliver Cummings Farrington. 45 pp., 10 illustrations (8 half-tones, 2 zinc etchings), edition 1,500.

Pub. 78.—Geological Series, Vol. 2, No. 3. "On the Osteology of Nyctosaurus (Nyctodactylus), with Notes on American Pterosaurs." By Samuel W. Williston. 38 pp., 5 illustrations (1 photogravure and 4 zinc etchings).

Pub. 79.—Zoölogical Series, Vol. 3, No. 12. "A List of Mammals Collected by Edmund Heller in the San Pedro Martir and Hanson Laguna Mountains, and the Accompanying Coast Regions of Lower California, with Descriptions of Apparently New Species." By D. G. Elliot. 33 pp., 6 illustrations (1 zinc etching and 5 half-tones), edition 1,500.

Pub. 80.—Zoölogical Series, Vol. 3, No. 13. "Descriptions of Apparently New Species of Mammals of the Genera Heteromys and Ursus from Washington and Mexico." By D. G. Elliot. 5 pp., edition 1,500, no illustrations.

Pub. 81.—Anthropological Series, Vol. 5. "Traditions of the Arapaho." Collected under the Auspices of the Field Columbian Museum and of the American Museum of Natural History. By George A. Dorsey and Alfred L. Kroeber. 350 pp., edition 1,500.

The distribution to foreign countries still continues through the Bureau of International Exchanges of the Smithsonian Institution. The following table presents a record of the distribution of the publications by series:

OFFICIAL:

Trustees	13
Staff	10
Corporate Members	3
Honorary Members	3
Annual Members	250

RECEIVED PUBLICATIONS IN ALL DEPARTMENTS:

	Domestic	Foreign.
Individuals	10	10
Universities, Schools, and Colleges	60	37
Academies and Institutes	29	18
Museums and Gardens	6	30
Societies	25	49
Libraries	60	28
Governments and State Departments	11	2
Journals	12	2

RECEIVED PUBLICATIONS IN ONE OR MORE DEPARTMENTS:

	Domestic.				
	*A	B	G	†O	Z
Individuals,	83	53	109	10	37
Universities, Schools, and Colleges,	2	29	12	1	10
Academies and Institutes,	4	2	3	..	1
Museums and Gardens,	10	8	9	1	7
Societies,	11	11	9	5	8
Libraries,	..	3	1	..	1
Journals,	12	9	6	2	4
Governments and State Departments,	1	8	18	..	15

	Foreign.				
	*A	B	G	†O	Z
Individuals,	55	26	49	4	21
Universities, Schools, and Colleges,	1	1	6	1	9
Academies and Institutes,	3	1	7	1	9
Museums and Gardens,	12	6	6	1	8
Societies,	11	15	23	3	29
Libraries,	..	..	..	..	..
Journals,	26	17	19	17	16
Government and State Departments,	..	5	15	..	8

LIBRARY.—The number of books and pamphlets in the library is 32,224, distributed as follows:

	Books.	Pamphlets.
General Library,	10,873	14,749
Department of Anthropology,	347	95
Department of Botany,	564	264
Department of Geology,	1,765	2,864
Department of Ornithology,	382	.....
Department of Zoölogy,	321	.....

The accessions in this important division of the Museum were specially noteworthy and numerous during the year just closed. An increase of 222 titles over those received in any previous year has to be recorded. This exceptional increase was due to the fact that exchange transactions were for the first time inaugurated with several learned institutions and societies both at home and abroad. The number and value of the publications thus obtained increases yearly, and every effort is made to extend the mailing list with this object in view. The accessions were received from 122 individuals and 628 societies and incorporated institutions, 228 of which were from abroad. The number of periodicals subscribed to is 67. A complete list of the accessions to the Library accompanies this

*A, B, G, O, Z denote Anthropology, Botany, Geology, Ornithology, and Zoölogy.
† Indicates that nothing was issued in the department designated by the † during the year ending September 30, 1903.

report. Special mention is made of the Separata of the late Professor E. D. Cope, presented by Mrs. E. D. Cope; Codex Vaticanus, No. 3773, presented by the Duc de Loubat; and the British Museum which presented several of its valuable catalogues. An allusion in the Librarian's report to the increasing use of the facilities of the Library by the general public, and more especially by the school children, is interesting, and the assurance is here given that every encouragement will be offered to those seeking the benefits of the Library. The introduction of compressed air as a means of dusting the books was attended with more or less success, although the method thus employed demands the removal of the books from the shelves. The inventory of the departmental libraries, which in future will be taken annually, showed that all books and pamphlets were on file. Nine installments of the John Crerar Library duplicate catalogue were received and placed in the card cabinet specially constructed for that purpose. There were written 2,552 catalogue cards, and over 4,000 were revised, rewritten, and distributed among the several catalogues. Four hundred and forty books were received from the bindery. The courtesies which have been extended from year to year by the John Crerar Library and the Chicago Public Library are still made use of, and grateful acknowledgment is here made to these two institutions.

Departmental Cataloguing, Inventorying and Labeling.—All specimens received in the Department of Geology during the year have been numbered and catalogued as received, and descriptive data regarding them filed. The method of cataloguing and recording specimens employed in this department is as follows: Each specimen is given a serial number which is inscribed upon it in an inconspicuous place with oil paint. A black or white color is usually used, according as either may be necessary to contrast with the color of the specimen. The numbers so applied are perfectly durable so far as handling of the specimen is concerned, and if it is desired to remove them at any time, this can be readily done without injury to the specimen by the application of a drop or two of a solution of caustic potash. While the serial number is placed upon each specimen, it may be the same for all the specimens of a single lot. A letter is also prefixed to the number of the specimen to indicate in a measure its character. Thus, specimens related to the economic collections have the letter "E" placed before their serial number, those of a paleontological character the letter "P," and so on. A correspondent grouping is made of the record books. Under the serial number of each specimen

in the record books are recorded the following: Date of accession of each specimen, its previous or original number, if any; its name, locality, from whom received, by what method, such as gift, exchange, purchase, etc.; by whom and when collected, its dimensions or weight, or both, and any further data regarding it that may be of interest or importance. Accession cards filed in the Recorder's office show corresponding numbers and the more important of the above data. Thus, practically, two separate records of each specimen are preserved. The maintenance of a third in the form of a card catalogue has not been found essential, although such a catalogue has been prepared for some collections. The label of the specimen, which is kept so far as possible associated with it, affords practically, however, a third brief record. If the label becomes separated from the specimen in any way, the number on the specimen affords at once a means of identifying the latter through consulting the record books. The chances of confusing specimens or of losing the data regarding them are, therefore, practically eliminated, and complete and readily accessible records of each specimen are available at all times. The work of labeling has included the preparation of twenty-eight hundred (2,800) tablets for the paleontological collection. Each of these tablets bears the label of the specimen or specimens which belong to it, imprinted directly upon the surface of the tablet itself. As the tablets are of many different sizes, the correlation of tablet, object, and label, so as to avoid mistakes and present a neat appearance was a labor involving much care and painstaking. As now prepared, the completed mounts show, beside the specimen itself, the Museum number of the specimen, its common name, if any, its scientific name, the authority by whom named, the period to which it belongs, and the locality where found. The paleontological cases have also been completely provided with framed case labels indicating the contents of each case. About one thousand (1,000) labels were printed and distributed in Hall 72 for the collection of gold and silver ores. The labeling of that collection is now practically complete. The collection of lead and silver ores to the number of about seven hundred (700) specimens in the West Dome was also completely labeled. The labeling of the systematic rock collection, so far as the individual specimens were concerned, was carried to completion, about three hundred (300) labels having been prepared for this purpose. Numerous miscellaneous labels, many of them descriptive in character, were also prepared and placed with new material as it was put on exhibition. There are now fifty-one catalogue books in the Department of Botany, which show one hun-

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SKELETON OF EXTINCT FLYING REPTILE (NYCTOSAURUS GRACILIS) X $\frac{1}{4}$. FROM CHALK BEDS, GOVE COUNTY, KANSAS.
DEPARTMENT OF GEOLOGY.

dred and thirty-nine thousand, nine hundred and forty-five (139,945) entries, of which eighteen thousand five hundred and ninety (18,590) were made during the past year. The work of inventorying and cataloguing in the Department of Anthropology has been carried on as in previous years. This department seems to be in an unusually good condition in this respect. Several of the more extensive collections resulting from field explorations during the summer months are as yet uncatalogued, owing to the fact that the collectors are still in the field. All this work will, however, be brought up to date immediately on their return. The extensive collection purchased from Lieutenant Emmons and that obtained by Assistant Curator Simms in the field, have both been labeled and are ready for installation. The Curator of Zoölogy reports that all material received in that department has been catalogued and that the entries are up to date. The pressing need, however, in this department is a card index to the specimens, and it is expected that this work will be commenced shortly. Labeling in this department has kept abreast with the receipt of the specimens. Cards to the number of thirty-two hundred (3,200) have been written for the catalogue in the Department of Ornithology, and there is now in process of preparation a catalogue of the Birds of North America, which will be, when completed, a catalogue of the North American birds in the Museum collections.

The year's work in the Museum on catalogues and inventories is shown in detail:

Department	No. of Rooms in Use	Total No. of Entries to Sept. 30, 1903.	Entries during 1902-1903.	Total No. of Cards written
Anthropology,	24	60,913	4,913	64,803
Botany,	51	139,945	18,590	4,050
Geology,	11	33,920	2,956	6,000
Library,	1	35,784	3,630	20,741
Ornithology,	3	15,032	1,764	3,209
Photography,	4	16,051	2,183	.....
Zoölogy,	20	28,464	3,383	13,600

Accessions.—The accessions of material in the Department of Geology, although not so numerous as usual, were nevertheless important. Gifts worthy of especial mention included fifty-four specimens of crystallized barite from Prof. S. W. McCallie; a slab of Uintacrinus from Dr. S. W. Williston; and a crystal of gem tourmaline from W. J. Chalmers, Esq. A collection of about one hundred and twenty-five (125) minerals and ores was received on deposit from the Denver & Rio Grande R. R. The meteorite collection was considerably increased through a number of exchanges made with

domestic and foreign institutions, twenty-eight new falls being thus obtained. A number of fossils from the Mississippi Valley was also received from H. V. Baker by exchange. By purchase, a specimen of a pterodactyl, Nyctosaurus, was obtained, which is the most complete one of this genus in existence, and one of the finest known of the order. Other additions by purchase include a very choice specimen of fossil sting ray from Wyoming, and well-preserved specimens of fishes and plants from the same beds; a series of cut and massive turquoises from Arizona; two specimens of precious opal from Honduras; some cut thomsonites from Grand Marais; and three specimens of meteorites. The most important accession in the Department of Zoology was Mrs. Gray's Water Buck (Cobus Mariæ), a very beautiful and rare Antelope, specimens of which are in very few museums of the world. The Mexican expedition, conducted by Assistant Curator Meek, contributed over three thousand specimens of fishes and two hundred and forty-two (242) shells. There were four thousand one hundred and fifty-one (4,151) specimens added to the Entomological series, of which nine hundred and thirty-three (933) were gifts. Cases for these collections are urgently needed, the delicate nature of the specimens demanding more care than any other objects. The majority of the accessions in the department of Anthropology were again this year chiefly ethnological, and considerably more than half of these were secured through expeditions in the field by members of the staff. Among the more important accessions may be mentioned those collected by J. W. Hudson in California; by C. F. Newcombe, on the Northwest Coast; by S. C. Simms, among the Cree tribes of Canada, and the Chippeway, of Minnesota; by C. L. Owen, among the Apache of Arizona; and by the Curator of the department, among the Pawnee, Arapaho, Arikara, and other tribes of the Plains. Two important collections have been secured during the year by means of purchases. First, a collection of two hundred and fifty (250) ancient Tlingit baskets, purchased from Mr. G. T. Emmons, of the United States Navy. This is one of the most complete and important collections of basketry ever brought together in any museum in this country. The second purchase was made through Mr. E. E. Ayer, who secured from Bosco Reale three large plaster panels and other interesting specimens, forming notable additions to the already important collection from this region. Mr. Ayer also purchased, in Egypt, sixteen fine stone vases. The most important loan during the year was secured through Mr. Ayer, and was made by Mr. T. M. Davis, of Newport, R. I. Reference is made to a cut-leather corselet

of an Egyptian priest of Thebes, of the sixteenth century B. C., made, probably, from the skin of an ibex or an oryx; this, with another specimen found with it, being absolutely unique in character, and the only specimens in existence. In the Department of Ornithology the additions to the collections have been largely by expedition and purchase, although several gifts are reported, as will be seen in the list of accessions. The department collected in Phœnix, Arizona, San Clemente Island, and Monterey, California, and in the Huachuca Mountains of Arizona, and secured over eleven hundred and forty-one (1,141) bird skins, and one hundred and seventy-six (176) eggs, which were especially important when it is considered that the department did not possess a representative collection from any of those localities. Accessions of eggs and skins of several species not previously represented were added, while of other species, of which there were only one or two skins, there is now a series sufficient for comparative study. The donation from Mr. Rowley of forty-three (43) bird skins collected in Sonora, Mexico, were also particularly valuable in this respect, coming as they did from a locality otherwise almost wholly unrepresented in this department. The Curator of Botany reports important additions to the Herbarium, of which the following may be mentioned: Smith's Colombian Plants, 2,312 sheets; Egger's West Indian Plants, 1,025 sheets; Pringle's Plants of Mexico, 918 sheets; Egger's Ecuadorian Plants, 817 sheets; Harper's Plants of Georgia, 669 sheets; Tracy's Plants of the Gulf States, 570 sheets; Northrop's original set of Bahama Plants, 523 sheets; Heller's Plants of Porto Rico, 498 sheets; Pollard & Palmer's Plants of Cuba, 392 sheets; Heller's California Plants, 385 sheets; Smith, E. C., Plants of Illinois, 375 sheets; Schaffner's Mexican Plants, 337 sheets; Lansing's Plants of the Lake Chicago Basin, 304 sheets; Newcombe's Plants of Alaska, 288 sheets; Miller's Plants of Venezuela, 274 sheets; Cusick's Oregon Plants, 265 sheets; Exsiccatæ Grayanæ, 245 sheets; Palmer's Mexican Plants, 235 sheets; Bebb's Illinois, Indiana and Wisconsin Plants, 218 sheets; Rowlee's Plants of the Isle of Pines, 107 sheets; Pringle's Plants of Cuba, 54 sheets. The classification of accessions follows:

	No. of Accessions.	No. of Specimens.
Gift,	139	3,119
Loan,	3	240
Exchange,	89	3,616
Collected,	59	14,527
Purchase,	69	10,784
Deposit,	2	3
Collated,	4	169
Award,	1	1

Exchanges.—The increase of material obtained by means of exchange is highly gratifying, and during the year this mode of increasing the collection has been considerably extended. Among the institutions and individuals from whom specimens have been received through this medium, may be mentioned the British Museum; the Australian Museum, Sydney; Botansk Have, Christiana, Norway; K. K. Naturhistorisches Hof Museum, Vienna; Botanical Gardens, Sydney; U. S. National Museum; Free Museum of Science and Art, Philadelphia; Ohio State University; New York Botanical Gardens; Gray Herbarium, Cambridge; U. S. Department of Agriculture, Washington.

Expeditions and Field Work.—The field work of the Department of Anthropology has already been touched upon in a notice of the accessions. In continuation of a plan begun two years ago, Dr. C. F. Newcombe has continued his explorations among the tribes of the Northwest Coast. He has paid especial attention during the year to the region of the Thompson and Frazer Rivers, and has also made an extended trip to the west coast of Vancouver Island. During the summer months, a considerable portion of his time was devoted to the Haida of Queen Charlotte Islands, where he secured a large number of skeletons, and a number of very interesting carvings of large size, which form interesting additions to the collection illustrating this phase of Northwest Coast art. Also in continuation of a plan begun two years ago, for collection and investigation in Northern California, Dr. J. W. Hudson has devoted himself to the extreme northwestern part of the state, where he has met with very great success. He has forwarded to the Museum about forty large cases of material. Assistant Curator Owen, in the spring, returned to the White Mountain Apache, where he remained several months collecting and continuing his studies among the medicine-men of the Apache. Mr. Owen has added a very large number of interesting specimens to the Apache collection, and has succeeded in obtaining a large fund of valuable and ethnological information concerning the practices of the medicine-men. Assistant Curator Simms, in August, set out on an expedition among the Cree of Canada, and Chippeway of Minnesota, and is yet in the field. Mr. Simms has had a successful period of work, as the collection made by him contains ethnic objects from tribes hitherto almost without representation in the department. Early in the spring of the year, Mr. Burt was sent on a short trip to the Pawnee and Wichita for the purpose of obtaining data to be used by him in the construction of miniature groups of those tribes. Two of these

groups are well under way, and are not only of unusual interest, but have been constructed with the utmost thoroughness. The Curator of the department has continued his investigations among the Arapaho, Pawnee, and Wichita, and has extended them to include the Arikara. The work among the Pawnee and Arikara being carried on during the present year by means of an especial grant made by the Carnegie Institution of Washington. He has made extensive additions to the Arapaho collection: small, but important, additions to the Pawnee collection; and has made a good beginning toward a collection illustrative of the Arikara. Mr. H. R. Voth, through the generosity of Mr Stanley McCormick, has been enabled to continue his studies among the Hopi of Arizona, the greater portion of his time being spent in the preparation or revision among the Indians themselves, of memoirs bearing upon Hopi ceremoniology. The plan of co-operative work has been continued during the present year with the U. S. Bureau of Ethnology, and Mr. James Mooney of that institution has been continuing his investigations among the Cheyenne for the department, especially investigating the heraldry of that tribe. This work is well advanced and is proving most interesting. Mr. Alleyne Ireland reports from Rangoon that he has shipped over fourteen cases of ethnic material obtained in British North Borneo and Burmah. A small, but particularly interesting, collection of material was also obtained by Mr. Ireland in Sarawak. In the interests of the Department of Geology, Assistant Curator Nichols, during the months of October and November, made an extended trip through the mining districts of the southern Appalachians, principally in the mountainous parts of North Carolina and Georgia. The well-known copper mines of Ducktown, Tennessee, were visited, and a full series of the copper ores, rocks, and accessory minerals there occurring were collected. Representative specimens of the eastern Tennessee barytes, iron, and zinc ores were also secured. In North Carolina the iron mines of Cranberry yielded a collection of iron ores with accessory rocks and minerals. Mitchell and Yaney counties, of North Carolina, in the heart of the Appalachian Mountains, were visited for mica, gem minerals, and minerals of rare earths. In these counties, besides mica and the ordinary accessory minerals, such as garnet, beryl, etc., aqua-marine, emerald, and transparent oligloclase were secured; also pitch-blende, gummite, allanite, and other minerals of the rare earths. In southern North Carolina and northern Georgia, corundum from various localities was collected, together with abrasive garnet, asbestos, cyanite, and other minerals. From many localities in Georgia, specimens of talc and kaolin, as well as ores of iron, gold, copper,

manganese, and chromium were secured. Some fossils were obtained in southern Tennessee and Mississippi. In all, the expedition yielded six hundred and eighty-two (682) specimens of minerals, one hundred and thirty-two (132) specimens of ores and associated rocks, twelve (12) specimens of fossils, and twelve (12) miscellaneous geological specimens. A deposit of Permian batrachian fossils in Oklahoma was investigated by Mr. Menke in November, with a view to determining its richness in Museum material. Some fragmentary specimens of scientific importance were secured, but the investigation showed that material for exhibition purposes was not likely to be afforded by the locality. A number of localities in Wisconsin affording Cambrian and Trenton fossils were visited by Mr. Slocom in August, and a large amount of material new to the collections was obtained. Several hundred specimens, chiefly of trilobites, brachiopods, worm and plant remains were secured, those of Cambrian age being of especial importance, as this period has been but poorly represented in the Museum collections hitherto. Field work on the North American Forestry collection was carried on in northern Minnesota last autumn, at which time several complete collections of trees were made by the Assistant Curator in Economic Botany. The only other field work in the Department of Botany was that done by the staff in Lake Chicago Basin. Several trips have been made between Chicago and various points in northern Indiana and southern Michigan, which have resulted in the addition of five hundred and thirty-nine (539) sheets to the interesting series obtained in previous years. Many photographs have also been made of plant societies in this region. Mr. Heller, regular collector in the Department of Zoölogy, was extremely successful in the Sierra Nevada and Death Valley regions, and obtained a very large amount of valuable material, amongst which were several new species. Mr. Meek, Assistant Curator in the Department of Zoölogy, also did effective work in southern and eastern Mexico, securing representative collections of reptiles and invertebrates of those regions. As will be noted elsewhere, Mr. Breninger collected for the Department of Ornithology from January until July, chiefly in Arizona and California, and met with unusual success, adding representative collections of nests, eggs, and skins from the regions indicated. The following list indicates the various expeditions sent out during the year:

Locality.	Collector.	Material.
Southern States,	H. W. Nichols,	Ores, Minerals, and Fossils.
Oklahoma,	George A. Dorsey,	Pawnee Ethnology.
North Dakota,	George A. Dorsey,	Arikara Ethnology.

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HALL OF EGYPTOLOGY.

Locality.	Collector.	Material.
[illegible]	James Mooney,	Cheyenne Heraldry.
Southern Kansas and Oklahoma,	H. W. Menke,	Permian Batrachians and Reptiles.
Northern Minnesota,	Chas. J. Brand,	North American Forestry, Woods, Herbarium Specimens, Economic Specimens.
British North Borneo,	Alleyne Ireland,	Ethnology.
Queen Charlotte Islands British Columbia,	C. F. Newcombe,	Skeletons and Ethnological specimens.
[illegible]	George A. Dorsey,	Cheyenne and Arapaho Ethnology.
[illegible]	J. W. Hudson,	Ethnological Collections from Wintun, Maidu, and Hupa.
[illegible]	J. A. Burt,	Pawnee and Wichita Groups.
Southern and Eastern [illegible]	S. E. Meek,	Fishes, Reptiles, and Invertebrates.
California and Mexico,	Geo. F. Breninger,	Birds and Eggs.
[illegible]	C. L. Owen,	Apache Ethnology.
[illegible]a and Minnesota,	S. C. Simms,	Ethnological Collections from Crees and Chippeway.
[illegible]	A. W. Slocum,	Cambrian and Trenton fossils, clays, and sandstones.
[illegible]	H. R. Voth,	Investigations in Hopi ceremonies.
Lake Chicago Basin,	O. E. Lansing, Jr.,	Collection of Plants of Chicago Basin.
Sierra Nevada and Death Valley Regions,	Edmund Heller,	Mammals.
[illegible]	N. G. Buxton,	Mammals.

INSTALLATION, REARRANGEMENT, AND PERMANENT IMPROVEMENT.—The following new installations are reported from the Department of Botany:

GRAMINEÆ:

One full case illustrating various cereal and sugar products from this family.

One full case illustrating the various types of Japanese bamboo in large and distinctive specimens. Also a few of the many utilizations of this majestic and gigantic grass.

MORACEÆ:

One-half case and one framed transparency illustrating the

products of this interesting family of plants. The installation includes the mulberry, Japanese papers from the paper mulberry, rubber, figs, vegetable milk and cheese, fustic, bread-fruit, hops, etc.

TILIACEÆ:

One full case devoted to the two important bast fibers produced by these plants—jute and linden—with various examples of their utilization.

SOLANACEÆ:

Two cases devoted to the tobacco plant, and many of the more interesting native uses of the leaves.

Satisfactory progress has been made in the full labeling of several of the cases previously installed, and in supplanting the early incongruous labels with the uniform black labels adopted by this department last year.

Over 18,000 sheets have been mounted, recorded, and installed in systematic order in the Herbarium during the year. These sheets represent various fields as follows:

	Added this Year.	Total in Herb.
Acklin Island (Bahama),	1	1
Alabama,	33	212
Andros Island (Bahama),	293	293
Arizona,	1,319	1,971
Arkansas,	107	118
Brazil,	1	75
Bahamas (in general),	540	689
Barbadoes,	11	75
Canada,	41	1,612
Cedros Island (California),	1	40
California,	1,307	5,401
Connecticut,	12	198
Colorado,	919	3,672
Coronados Island (California),	1	5
Cuba,	746	2,102
Curacao,	15	15
Dakotas,	1	62
Delaware,	95	560
District of Columbia,	16	1,073
Dominica,	6	31
Ecuador,	817	830
Fortune Island (Bahamas),	3	3
Farallones Island,	1	3
Florida,	372	5,193
Guatemala,	2	79
Guadeloupe Island (California),	3	20
Grenada (W. I.),	64	90
Georgia,	681	927

	Added this Year.	Total in Herb.
Haiti,	4	4
Hog Island (Bahamas),	16	16
Indian Territory,	17	81
Idaho,	28	172
Indiana,	448	2,286
Illinois,	1,325	1,787
Iowa,	24	757
Jamaica,	134	959
Kansas,	7	102
Kentucky,	3	375
Louisiana,	85	646
Lower California,	125	754
Mississippi,	37	1,325
Missouri,	28	533
Montana,	139	1,636
Minnesota,	111	459
Michigan,	204	1,482
Mexico,	1,715	7,887
Massachusetts,	208	1,329
Maryland,	19	311
Mackinac Island (Michigan),	2	156
Maine,	68	725
Nebraska,	8	41
Nevada,	14	88
New Brunswick,	22	510
New Hampshire,	40	636
New Jersey,	60	926
New Mexico,	100	588
New Providence (Bahamas),	183	183
New York,	135	3,282
North Carolina,	63	429
Ohio,	92	198
Oregon,	581	2,644
Pacific Coast (general),	30	250
Pennsylvania,	81	1,602
Porto Rico,	196	3,516
Pines Island (Cuba),	107	339
Prince of Wales Island (Alaska),	189	189
Queen Charlotte Islands (B. C.),	82	82
Rose Island (Bahamas),	1	1
Rhode Island,	30	341
Rocky Mountains (general),	6	692
Salt Cay (Bahamas),	5	5
St. Croix (W. I.),	18	1,284
St. Kitts (W. I.),	7	15
South Carolina,	32	455
St. Thomas (W. I.),	202	402
St. Jan (W. I.),	5	5
St. Vincent (W. I.),	102	102

	Added this Year.	Total in Herb.
Santo Domingo (W. I.),	43	163
Tennessee,	80	460
Texas,	771	2,170
Trinidad (W. I.),	8	40
Turk's Island (Bahamas),	11	11
Tobago (W. I.),	32	34
U. S. Colombia,	2,294	2,312
Utah,	60	285
Vermont,	98	650
Venezuela,	324	818
Vancouver (B. C.),	9	19
Virginia,	79	344
West Virginia,	11	1,088
Wisconsin,	80	399
Washington (state),	358	2,056
Wyoming,	19	136
Yellowstone Park,	20	232

Of the collections made, purchased, or received by exchange during the year, all are now mounted and installed except about 1,130 specimens that have arrived during the past few days. Of the Patterson herbarium purchased in 1900, 4,847 sheets have been mounted this year, and 15,462 previously, making 20,209 sheets so far placed in the regular herbarium installation; it is estimated that some 15,000 sheets still remain to be cared for. Of the Heller herbarium, 1,721 sheets have been mounted this year, and 2,842 previously, leaving some 10,000 sheets still to be mounted and installed. The work of installing the paleontological collections in the cases described in last year's report has been practically completed during the year, the principal labor involved being the mounting of invertebrate and other small fossils upon tablets of manila board and installing these. About twenty-eight hundred (2,800) tablets have been so prepared. The tablets have a dull black finish, and upon each tablet is printed in aluminum ink the label of the specimen which it bears. The sizes of the tablets follow a unit of two inches, eight sizes being employed, as follows: 2 x 2, 2 x 4, 4 x 2, 4 x 4, 4 x 6, 6 x 6, 4 x 8, and 8 x 8 inches. By such an employment of units, specimens of different sizes can be inserted anywhere in a series without disturbing its horizontal or vertical arrangement. The gain in prominence of the specimens and appearance of the collection as a whole through employment of the black tablets, has been considerable, and the general effect proven very satisfactory. Case labels to the number of ninety have been provided for the collection, and about two thousand specimens designed for study purposes have

been placed in drawers beneath the corresponding exhibition material. The mineral specimens available for exchange, to the number of several hundred, have been carefully assorted and arranged in drawers by species, so as to be preserved from injury and made readily available. The work of preparing for exhibition the large Dinosaur specimen collected in 1901 has been continued to completion during the year. One cervical and seven dorsal vertebræ, eighteen ribs, and the sacrum have been thus prepared, and so far as available case room would permit, placed on exhibition, together with parts of the individual previously worked out. The vertebral series, as now exhibited, measures about thirty feet in length. Important contributions to a knowledge of the structure of Dinosaurs have resulted from the working out of this individual, and it forms a unique specimen. Portions of another large Dinosaur individual belonging to a new genus, are now being prepared for exhibition and study. The progress of the work upon these fossils has been much facilitated by the introduction of a complete pneumatic apparatus, including drills, chisels, and rotary appliances driven by pneumatic power, by which means removal of the matrix can be accomplished much more safely and rapidly than could otherwise have been the case. The essential tool is a pneumatic hammer of the straight cylinder type. It consists of a cylindrical chamber in which a five-eighth inch stroke is caused to play upon the head of a chisel at the rate of 3,000 to 3,500 strokes per minute. This rapid succession of light blows gives the chisel a remarkable cutting capacity, and has the great advantage for paleontological work of avoiding the jar attendant upon the use of the hand hammer. Considerable time has been given to rearranging, cleaning, and labeling the economic collections. Many of the lead ores formerly exhibited in Hall 72 were transferred to the West Dome, thus affording space for the exhibition in Hall 72 of gold and silver ores which had hitherto been kept in storage. All of the specimens in this Hall have been mounted upon exhibition blocks, and labels to the number of over two thousand have been provided for them. The specimens were thoroughly cleaned at the same time, and dust leaks in the cases stopped as far as possible. In Skiff Hall, all the specimens were removed from the cases and given a thorough cleaning, rearrangement, mounting, and labeling. This work was performed primarily in order to brace the shelves to prevent their sagging, and accordingly the opportunity to improve the collection as a whole was made use of. There were also prepared in connection with the ores of the different metals, several series rep-

resenting graphically the composition of the minerals affording that metal. Thus in order to illustrate each mineral affording copper, for example, there is shown in an adjacent tube a quantity of copper, sulphur, silica, water, or other ingredient going to make up the mineral in the exact proportion in which each enters into its composition. The demonstration of composition to the eye is thus made more vivid than it could be if expressed in figures alone, and the exhibition in series enables the relative richness of the different minerals in any metal to be determined at a glance. In Hall 70, a large number of the coal specimens have been treated to prevent disintegration, and the series of graphite ores has been rearranged and enlarged. Several important improvements have been made in the Department Laboratory to afford better facilities for chemical work, chief among which has been an entire rebuilding of the hood. The old wooden frame was taken down and sashes fitted with large lights of glass put in its place. The interior of the hood was lined throughout with white porcelain tile, thus affording a clean and smooth surface. A large air bath was constructed within the hood, and the interior piped for water, gas and compressed air. The stock of chemicals and apparatus has been considerably increased, the additions to apparatus including a lever air-pump, pycnometer, calorimeters, and dichroscope. The work of cataloguing and numbering the specimens in the field during the previous year absorbed the attention of the staff in the Department of Anthropology, leaving little time for new installation and rearrangement. But a single hall has been installed during the year, namely, that illustrating the ethnology of the Islands of the Pacific. As is customary, during the autumn of each year, all the cases in the department have been examined and overhauled. Interchangeable black and gold numbers were placed upon each case containing permanently installed specimens, and a black and gold label now adorns most of the cases in the department. These additions enable visitors to readily refer to the official guide for more extended information regarding the contents.

Among the permanent improvements made in the building, the following may be noted: The construction of a new laboratory for the osteologist in the east end of the building, and a room for the photogravure operator in the east gallery. Several of the offices were entirely overhauled and provided with fresh coats of paint and kalsomine.

PRINTING.—It will be noticed that an unusually large number of labels have been printed during the year. The office is well equipped and it is clearly evident that this very useful section of the Museum

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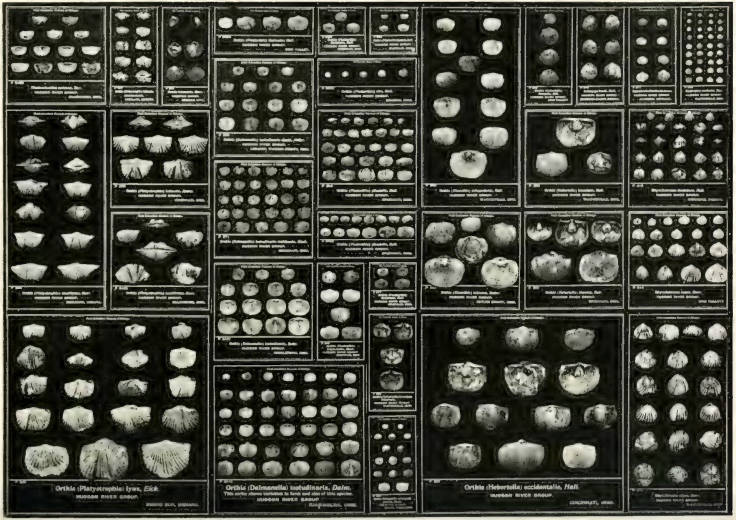

STYLE AND SIZES OF TABLETS USED FOR MOUNTING INVERTEBRATE FOSSILS. DEPARTMENT OF GEOLOGY.

might be enlarged to great advantage in its facilities and number of employees. The following figures show the number of impressions in the way of label printing and other impressions:

Department.	Labels.	Other Impressions.
Anthropology,	322	6,500
Botany,	1,288	24,550
Geology,	4,990	.....
Zoology,	1,225	18,750
Director's Office,	6	50,783
Library,	.....	7,400

Photography and Illustration.—Unusual activity marked the progress in this important division. The addition of a complete photogravure plant must be considered an enterprising step, enabling the series of publications now to be illustrated by this very satisfactory process. The suggestion that each Curator be provided with an album, containing a print of every negative made for his department, has materialized, thus facilitating the location of each negative in the possession of the Museum, a far more satisfactory system than a written record, where descriptions are often misleading. These albums now number twenty-two, and contain over seven thousand prints. Over fifteen hundred negatives, made in the field, were developed; one thousand lantern slides and six hundred skull negatives indicate, to a limited extent, the busy year of this division.

Attendance.—It is highly gratifying to report an increase in the total attendance for the year of 32,714. In fact, the figures for the year just closed show that more visitors viewed the collections than in any previous year except the first, an impressive indication intimating that the Museum is growing in serious regard, as well as in popular favor. An analysis of the attendance during the entire year appears in another portion of this report. The following is a list of the school classes (thirty pupils or more), that visited the Museum during the year.

LIST OF CLASSES.

Schools and Location.	Teachers	Pupils.
Sherwood—Princeton ave. and Fifty-seventh st.,	5	67
Yale—Yale ave. and Seventieth st.,	1	41
Riverside High School—Riverside, Ill.,	1	51
River Forest—River Forest, Ill.,	1	38
F. W. Parker—Webster ave. and N. Clark st.,	4	30
Bryant—S. Forty-first ave. and W. Thirteenth st.,	1	39
Medill—W. Fourteenth pl. and W. Throop st.,	2	42
Bryant—S. Forty-first ave. and W. Thirteenth st.,	1	41
Kershaw—Union ave. and W. Sixty-fourth st.,	2	41

Schools and Location.	Teachers.	Pupils.
Perkins Bass—W. Sixty-sixth st., corner S. May st.,	3	61
Agassiz—Diversey and Seminary aves.,	2	75
Hyde Park High—Fifty-seventh st. and Kimbark ave.,	3	60
University of Chicago,	1	32
Sherwood—Princeton ave. and Fifty-seventh st.,	2	31
Perkins Bass—W. Sixty-sixth st., corner S. May st.,	1	51
John Marshall—W. Adams st. and Kedzie ave.,	2	73
Ray—Fifty-seventh st. and Monroe ave.,	2	41
Keith—Thirty-fourth and Dearborn sts.,	1	36
Sherwood—Princeton ave. and Fifty-seventh st.,	2	38
School of Education,	2	35
West Pullman—West Pullman, Ill.,	1	47
Perkins Bass—W. Sixty-sixth st., corner S. May st.,	1	36
Yale—Yale ave. and Seventieth st.,	2	39
Keith—Thirty-fourth and Dearborn sts.,	1	41
University of Chicago,	1	30
Hyde Park High—Fifty-seventh st. and Kimbark ave.,	3	72
Keith—Thirty-fourth and Dearborn sts.,	1	37
Notre Dame—Notre Dame, Ind.,	3	36
West Pullman—West Pullman, Ill.,	1	37
Perkins Bass—W. Sixty-sixth st., corner S. May st.,	1	35
Perkins Bass—W. Sixty-sixth st., corner S. May st.,	2	36
Sherwood—Princeton ave. and Fifty-seventh st.,	2	33
Ray—Fifty-seventh st. and Monroe ave.,	2	34
Normal—444 W. Sixty-ninth st.,	1	31
Ray—Fifty-seventh st. and Monroe ave.,	2	36
Walsh—W. Twentieth and Johnson sts.,	1	32
Emerald Avenue—Emerald ave. and W. Seventy-ninth st.,	2	51
Hyde Park High—Fifty-seventh st. and Kimbark ave.,	4	63
Ray—Fifty-seventh st. and Monroe ave.,	2	30
Northwestern University—Evanston, Ill.,	1	40
J. N. Thorp—Superior ave. and Eighty-ninth st.,	3	30
Normal—444 W. Sixty-ninth st.,	1	58
Hyde Park High—Fifty-seventh st. and Kimbark ave.,	4	65
Yale—Yale ave. and Seventieth st.,	2	35
Hyde Park High—Fifty-seventh st. and Kimbark ave.,	4	61
Hyde Park High—Fifty-seventh st. and Kimbark ave.,	1	79
Walsh—W. Twentieth and Johnson sts.,	1	40
Lewis-Champlin—W. Sixty-second st. and Princeton ave.,	1	46
J. N. Thorp—Superior ave. and Eighty-ninth st.,	3	58
Hyde Park High—Fifty-seventh st. and Kimbark ave.,	4	58
Esmond Street—Morgan Park, Ill.,	7	62
Harrison—Twenty-third pl. and Wentworth ave.,	2	56
Englewood High—W. Sixty-second st., corner Stewart ave.,	1	154
Walsh—W. Twentieth and Johnson sts.,	1	32
St. Martin's—W. Fifty-ninth st., corner Princeton ave.,	8	187
Helen Heath Kindergarten—869 Thirty-third pl.,	5	33
J. R. Doolittle, Jr.—Thirty-fifth st., W. of Cottage Grove ave.,	1	38
J. N. Thorp—Superior ave. and Eighty-ninth st.,	1	36

Schools and Location.	Teachers.	Pupils.
Kershaw—Union ave. and W. Sixty-fourth st.,	1	2[illegible]
J. N. Thorp—Superior ave. and Eighty-ninth st.,	1	3[illegible]
Walsh—W. Twentieth and Johnson sts.,	1	3[illegible]
Keith—Thirty-fourth and Dearborn sts.,	1	3[illegible]
Sanders—Blue Island, Ill.,	2	62
Moody Bible Institute—80 Institute pl.,	1	7[illegible]
Jones—Plymouth ct. and Harrison st.,	4	5[illegible]
Fernwood—W. 104th and Wallace sts.,	2	4[illegible]
Lincoln—Hammond, Ind.,	2	6[illegible]
Normal—444 W. Sixty-ninth st.,	2	3[illegible]
Keith—Thirty-fourth and Dearborn sts.,	2	35
South Division High—Twenty-sixth st. and Wabash ave.,	2	33
Bryant—S. Forty-first ave. and W. Thirteenth st.,	1	36
Chas. W. Earle—Sixty-first st. and Armitage ave.,	2	61
St. Bernard's—Sixty-sixth st. and Stewart ave.,	2	52
Lake Forest—Lake Forest, Ill.,	3	39
Walsh—W. Twentieth and Johnson sts.,	1	39
Riverside—Hammond, Ind.,	4	96
Walsh—W. Twentieth and Johnson sts.,	2	67
Seamore—Blue Island, Ill.,	1	33
Fernwood—W. 104th and Wallace sts.,	1	41
Myra Bradwell—Sherman ave. and Seventy-seventh st.,	1	32
Komensky—Throop and W. Twentieth sts.,	2	52
Normal—444 W. Sixty-ninth st.,	4	36
J. N. Thorp—Superior ave. and Eighty-ninth st.,	1	33
Raymond—Wabash ave. and Thirty-sixth pl.,	1	35
J. N. Thorp—Superior ave. and Eighty-ninth st.,	1	30
J. N. Thorp—Superior ave. and Eighty-ninth st.,	1	33
Myra Bradwell—Sherman ave. and Seventy-seventh st.,	1	39
Normal—444 W. Sixty-ninth st.,	2	40
Myra Bradwell—Sherman ave. and Seventy-seventh st.,	1	34
J. N. Thorp—Superior ave. and Eighty-ninth st.,	2	88
Fernwood—W. 104th and Wallace sts.,	2	81
Agassiz—Diversey and Seminary aves.,	2	67
Prescott—Wrightwood ave., corner N. Ashland ave.,	1	30
Taylor—Avenue J and Ninety-ninth st.,	2	71
W. C. Goudy—Foster ave., corner Winthrop ave.,	2	101
D. J. Corkery—W. Twenty-fifth and S. Forty-second ave.,	2	1[illegible]
Cornell—Drexel ave. and Seventy-fifth st.,	1	35
Linne—Sacramento ave., corner W. School st.,	1	32
G. W. Curtis—114th pl., corner State st.,	1	11
University of Chicago,	1	18
University of Chicago,	2	35
University of Chicago,	1	35
Seward Vacation School—4758 S. Marshfield ave.,	1	4[illegible]
University of Chicago,	1	43
John Spry Vacation School—Southwest boul. and W. Twenty-fourth st.,	1	107
Moody Bible Institute—80 Institute pl.,	1	54

Schools and Location.	Teachers.	Pupils.
Medill—W. Fourteenth pl. and W. Throop st.,	2	55
Kershaw—Union ave. and W. Sixty-fourth st.,	2	40
Chase—Cornelia ct. and Point st.,	1	48
Hyde Park High—Fifty-seventh st. and Kimbark ave.,	1	39
Hyde Park High—Fifty-seventh st and Kimbark ave.,	1	81

The following comparisons in the daily attendance for the year ending September 30, 1902, and the year ending September 30, 1903, may prove interesting:

	Increase.	Decrease.
Total Attendance,	32,714	.
Paid Attendance,	2,361	...
Attendance of School Children on Pay Days,	.....	23
Attendance of Students,	201	...
Attendance of Teachers,	.....	118
Attendance of Members,		97
Average Daily Attendance, 1902,	719	
Average Daily Attendance, 1903,	809	

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

FREDERICK J. V. SKIFF,
DIRECTOR.

Financial Statement.

Receipts and Disbursements

During the Year Ending September 30, 1903.

Receipts.

Cash in Treasurer's hands, September 30, 1902,		$4,089.66
Cash in Treasurer's hands, September 30, 1902 (Special Fund),		983.64
Petty Cash on hand, September 30, 1902,		739.95
Dues of Members—		
Corporate,	$ 135.00	
Annual,	2,545.00	2,680.00
Admissions and Check Rooms,		7,494.65
Sale of Guides,		262.25
South Park Commissioners,		15,000.00
Chicago City Railway Co.,		2,250.00
Sundry Receipts,		771.74
Interest on Investments, etc.,		50,261.59
Sale of Securities,		67,000.00
Donations—		
Stanley McCormick (Special),	[illegible]	
W. J. Chalmers (Special),	10.00	[illegible]
		$153,443.48

Disbursements.

Salaries,		60,147.58
Guard Service,		11,839.87
Janitor Service,		6,288.04
Fire Protection,		[illegible]
Heat and Light—		
Wages,	$3,287.26	
Fuel and Supplies,	4,967.74	
Additions to Plant,	271.02	8,526.02
Repairs and Alterations—		
Wages of Carpenters, Painters, Roofers,	9,223.92	
Materials used — Paints, Oil, Lumber, Plaster, etc.,	1,606.85	10,830.77
Carried forward,		$100,586.55

Brought forward,		$100,586.55
Furniture and Fixtures—		
Cases and Bases,	$1,427.00	
Air Compressor,	764.82	
Sundries,	332.34	2,524.16
The Library—		
Books and Periodicals,	722.47	
Binding,	273.20	
Sundries,	63.33	1,059.00
Sections of Printing and Photography,		1,027.39
Collections and Articles Purchased,		6,806.29
Departmental Expenses,		3,500.95
General Expense Account—		
Freight, Expressage, and Teaming	2,085.72	
Stationery, Postage, Telegrams, and Telephone,	958.02	
Publications,	6,246.93	
Expeditions,	18,138.13	
Sundries,	1,233.83	28,662.63
		$145,066.97
In Treasurer's hands, September 30, 1903,	6,623.21	
In Treasurer's hands, September 30, 1903, Savings Account,	1,013.35	
Petty cash on hand, September 30, 1903.	739.95	8,376.51
		$153,443.48

LIBRARY
OF THE
UNIVERSITY of ILLINOIS

ANCIENT EGYPTIAN PRIEST'S LEATHER CORSELET.

Attendance and Receipts for the Year Ending Sept. 30, 1903

Attendance.

Paid Attendance—		
Adults,	23,873	
Children,	1,523	
		25,396
Free Admissions on Pay Days—		
School Children,	6,826	
Students,	3,008	
Teachers,	514	
Members—Corporate,	28	
Annual,	202	
Life,	7	
Officers' Families,	40	
Special,	139	
		10,764
Admissions on Free Days—		
Saturdays,	54,778	
Sundays,	204,352	
		259,130
Total Attendance,		295,290
Highest Attendance on any day (August 9, 1903),		9,374
Highest Paid Attendance on any day (September 29, 1903),		370
Average Daily Admissions (365 days),		809
Average Paid Admissions, (261 days),		97

Receipts.

Guides sold—1,049 at 25 cents each,	$262.25
Articles checked—27,482, at 5 cents each,	1,374.10
Admissions,	6,120.55
	$7,756.90

ACCESSIONS.

FROM OCTOBER 1, 1902, TO SEPTEMBER 30, 1903.

DEPARTMENT OF ANTHROPOLOGY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

AYER, E. E., Chicago.
Plaited fiber necklace, carved ivory pendant, and five carved ivory objects—Hawaii; large Roman fibula, Egyptian vase, Etruscan bottle, bowl—Rome.

DAVIS, T. M., Newport, R. I.
Priest's leather corselet—Egypt (deposit).

FIELD COLUMBIAN MUSEUM.
Collected by Geo. A. Dorsey:
Ethnological specimens from the Arapaho, Pawnee, Wichita, Arikara, Hopi, Tlingit, Pueblo.
Ethnological specimens from the Pawnee, Wichita, Hopi.
Collected by J. W. Hudson:
Ethnological collections from N. W. California.
Collected by C. F. Newcombe:
10 Nootka skeletons—Northwest Coast.
Ethnological collections from Northwest Coast.
Totem poles, baskets, stone, etc.—Northwest Coast.
Skulls and skeletons of Haida.
Collected by C. L. Owen:
Ethnological collections from White Mountain Apache—Arizona.
Skulls and skeletons of Apache—Arizona.
Collected by S. C. Simms:
Ethnological specimens from the Cree—Canada.
Ethnological specimens—Chippeway Indians—Minnesota.
Purchases:
Ethnological specimens from the Tlingit stock—Alaska.
Bone fighting knife, carved head on end of handle—Alaska.
Large spoon of mountain-goat horn—Alaska.
Photographs of Southwestern tribes.
Ethnological specimens—Africa.
Jade celt—Bahama Islands.
Grooved stone axe, found near the Black Hawk trail—Mercer Co. Illinois.
Tlingit and Haida baskets—Alaska.
16 stone vases and piece of glass—Egypt.
Mural panel decorations, silver vase, clay vessels—BoscoReale, Italy.

KIRK, MILTON B., Evanston, Ill.
Archæological specimens—Mitla, Mexico.

McCURDY, GEORGE G., New Haven, Conn.
Plaster cast of skull, *Pithecanthropus erectus*—Java.

PORTER, R. S., Chicago.
Moro saddle, bridle, etc.—Philippine Islands (deposit).

SETON-KARR, H. W., London, England.
Paleolithic implements—Pondi, near Madras, India.

UNITED STATES NATIONAL MUSEUM, Washington, D. C.
Plaster cast of sculptural stone yoke from Mexico (exchange).
Pair of snow-shoes from Labrador (exchange).

DEPARTMENT OF BOTANY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

AYER, MRS. E. E., Lake Geneva, Wis.
1 herbarium specimen—Wisconsin.
2 herbarium specimens—Wisconsin.

BEBB, ROBERT, 1742 W. 102d st., Chicago.
218 herbarium specimens—Illinois, Indiana, and Wisconsin.

BOTANSK HAVE, Christiania, Norway.
1488 herbarium specimens—West Indies (exchange).
362 herbarium specimens—West Indies (exchange).
10 specimens woods, bark, and swizzle-sticks—Ecuador and Cuba (exchange).

BOTANSK MUSEUM, Copenhagen, Denmark.
106 herbarium specimens—West India Islands (exchange).

BUREAU OF PLANT INDUSTRY, Washington, D. C.
4 specimens *Cannabis sativa*, 1 specimen Lactuca scariola—Washington, D. C., and Ohio (exchange).

CHASE, MRS. AGNES, Chicago.
4 specimens mosses—Illinois and Indiana.
17 herbarium specimens—various localities.
238 herbarium specimens—various localities (exchange).

CLARK, H. WALTON, Chicago.
36 herbarium specimens—Chicago.
1 herbarium specimen *Phœnix dactylifera L.*

CULMER, H. H., Chicago.
9 specimens cotton products, 1 rubber substitute (linseed oil).

EMERICK, DR. G. M., 5760 Kimbark ave., Chicago.
3 herbarium specimens—Michoacan, Mexico.
1 herbarium specimen—Mexico.

FIELD COLUMBIAN MUSEUM.
Collated by Mrs. Agnes Chase:
1 herbarium specimen, *Cladium mariscus*—Missouri Botanical Garden.
Collated by Chas. F. Millspaugh:
129 mounts, drawings, and parts of specimens.
34 parts of herbarium specimens.
Collected by Chas. J. Brand:
10 specimens of fruits and twigs—Bemidji, Minn.
Collected by Allen B. Burgess:
235 herbarium specimens—Michigan.
Collected by O. E. Lansing, Jr.:
304 herbarium specimens—Illinois and Indiana.
Purchases:
390 herbarium specimens—Cuba.
1 sample tincture benzoin.
265 herbarium specimens—Oregon.
274 herbarium specimens—Island of Margarita, Venezuela.
375 herbarium specimens—Illinois.
155 colored plates of plants.
107 herbarium specimens—Isle of Pines, Cuba.
386 herbarium specimens—Porto Rico.
235 herbarium specimens—Mexico.
579 herbarium specimens—various localities.
490 herbarium specimens—Bahamas.
669 herbarium specimens—Georgia.

33 herbarium specimens—Bahamas.
1 specimen Strobili Humuli.
1 specimen Lupulin.
342 herbarium specimens—Cuba and Mexico.
1 specimen Cascarilla bark.
1 specimen gum Euphorbia.
1 specimen croton oil.
2312 herbarium specimens—Santa Marta, U. S. of Colombia.
385 herbarium specimens—California.
630 herbarium specimens—Mexico.

FIELD, MARSHALL & CO., Chicago.
31 samples of linens and cottons.

FOSTER, EDWARD, Jamaica, West Indies.
1 sample seeds of akee (*Blighia sapida*)—Jamaica.
2 samples oil of akee (*Blighia sapida*)—Jamaica.
1 sample oil of Persea Persea—Jamaica.
1 sample clarified oil of Persea Persea—Jamaica.

GRAY HERBARIUM, Cambridge, Mass.
245 herbarium specimens (exchange).
1 tracing and flowers of type *Aloe yuccæfolia Gray.*
1 tracing of *Cakile monosperma Lang.*
5 fragmental specimens of *Eupatorium*—various localities.
1 fragmental specimen of *Eupatorium*—Mexico.
5 fragmental specimens—Texas, Cuba, and Mexico.
5 fragmental specimens—various localities (collated).

GRIFFITHS, DAVID, Washington, D. C.
1 sample seeds *Bouteloua Bromoides*—Arizona.

HELLER, ARTHUR A., Lancaster, Pa.
22 herbarium specimens—Porto Rico.

HERRIOT, WILLIAM, Galt, Canada.
21 herbarium specimens—Canada.

HILL, E. J., 7100 Eggleston avenue, Chicago.
1 herbarium specimen—Sussex, England.

KNAPP, S. A., Lake Charles, La.
1 photograph "Planting Rice"—Louisiana.
1 photograph "Rice Mill"—Louisiana.
1 photograph "Harvesting Rice"—Louisiana.

KÖNIGL. BOTANISCHES MUSEUM, Berlin, Germany.
1 fragmental specimen of *Eupatorium*—Cuba.

MAYERHÖFF, DR. PAUL S., Fort Apache, Arizona.
25 specimens dried Indian plants—Fort Apache, Arizona.

MCDONALD, FRANK E., Peoria, Ill.
12 herbarium specimens—Illinois (exchange).

MEXICAN COMMISSION TO WORLD'S COLUMBIAN EXPOSITION, 1893.
1 algodon extrangero—Mexico.
1 algodon collache—Mexico.

MILLSPAUGH, CHAS. F., Chicago.
1 sample South Carolina rice.
1 sample flaked rice.
1 sample rice flour.
7 samples sugar products.
42 sheets of typical specimens, drawings, and tracings
24 tracings and drawings from plants—Yucatan.
1 sample nuts *Fagus ferruginea.*
3 samples fruits—Mexico.
19 colored plates of fungi.
1 sample strung figs—Southern Italy
1 sample West Virginia peanuts
1 sample Smyrna figs.

MISSOURI BOTANICAL GARDEN, St. Louis, Mo.
3 fragmental specimens of *Eupatorium*—Mexico and Guatemala.

NEWCOMBE, CHAS. F., Victoria, B. C.
31 herbarium specimens—Queen Charlotte Islands, B. C.
80 herbarium specimens—Alaska and British Columbia.

NEW YORK BOTANICAL GARDEN, Bronx Park, New York.
45 herbarium specimens—various localities (exchange).
284 herbarium specimens—Porto Rico and Mexico (exchange).
4 specimens fruits in formaldehyde—Porto Rico and St. Kitts.
98 herbarium specimens—Mexico (exchange).
205 specimens mosses—various localities (exchange).
115 herbarium specimens—Colorado (exchange).

NORWAY COMMISSION, WORLD'S COLUMBIAN EXPOSITION, 1893.
1 specimen sulphite pulp—Norway.

OHIO STATE UNIVERSITY, Columbus, Ohio.
20 specimens fungi exsiccati—Ohio (exchange).
20 specimens fungi exsiccati—Ohio (exchange).
20 specimens fungi exsiccati—Ohio (exchange).

PEPOON, Dr. H. S., Chicago.
2 photographs of Lake Chicago Basin orchids.

PUTNAM, F. W., New York City.
1 herbarium specimen—Southeastern Utah.

RICKSECKER, A. E., Redfield, N. J.
4 herbarium specimens—Island of St. Croix, Danish W. I.

RUFFNER, W. R., Chicago.
1 sample separation coffee—Mexico.

SCHNECK, Dr. JOSEPH, Mount Carmel, Ill.
1 sample persimmons in formaline.
1 sample, pods of *Gymnocladus Canadensis*.
1 sample, seeds of *Gymnocladus Canadensis*.
1 sample, seeds of *Castanea pumila*.

SHERWOOD, GEORGE R., Chicago.
71 specimens illustrating the manufacture of paper from corn-stalks.

UNITED STATES COMMISSION OF FISH AND FISHERIES, Washington, D. C
128 herbarium specimens—Lake Maxinkuckee, Indiana.

UNITED STATES NATIONAL MUSEUM, Washington, D. C.
10 specimens North American violets (exchange).
5 fragmental specimens compositæ.

VOTH, H. R., Oraibi, Arizona.
15 herbarium specimens "Plants of the Hopis"—Arizona.

WALKER, T. B., Akeley, Minn.
6 specimens trunks and sections—Akeley, Minn.
16 specimens boards—Akeley, Minn.

WESTGATE, J. M., Chicago.
63 herbarium specimens—various localities.

WHITFORD, H. N., Chicago.
388 herbarium specimens—Montana.

WORLD'S COLUMBIAN EXPOSITION, 1893.
1 specimen Acacia Farnesiana ("Huazache")—Oaxaca, Mexico.

YOUNG, B. M., Morgan City, La.
15 specimens pecan nuts—Louisiana.

DEPARTMENT OF GEOLOGY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

BAKER, H. V., Sawyer, Iowa.
1 specimen fossil Sigillaria, 14 fossil corals, 5 fossil brachiopods, 12 fossil crinoids, 4 fossil gastropods (exchange).

BÖHM, JULIUS, Vienna, Austria.
429 grams Mukerop meteorite (exchange).

BREZINA, DR. A., Vienna, Austria.
1782 grams Sao Juliao meteorite (exchange).

BRITISH MUSEUM (Natural History), London, England.
54 grams Durala meteorite (exchange).

CHALMERS, W. J., Chicago.
1 specimen crystallized tourmaline—Mesa Grande, California.

COHEN, E., Greifswald, Germany.
0.91 grams Grossliebenthal meteorite; 1.95 grams Lixna meteorite; 0.85 grams Manbhoom meteorite; 40¼ grams Mukerop meteorite (exchange).

COOLIDGE, WINTHROP, Chicago.
1 specimen platinum ore—Wyoming.

DENVER & RIO GRANDE R. R. CO.
238 specimens minerals and ores (loan).

ELDREDGE, E. W., Chicago.
1 specimen graphite with wall rock—Montana.

ENGLISH, THOS. A., Spruce Pine, N. C.
1 specimen garnet—Otto, N. C.

FARGO, DR. J. F., Los Angeles, Cal.
30 grams Sao Juliao meteorite (exchange).

FIELD COLUMBIAN MUSEUM.
Collected by H. W. Clark:
4 specimens shells—Atlantic Coast and Chicago, Ill.
Collected by O. C. Farrington:
2 specimens oölitic hematite—Kentucky.
Collected by J. W. Hudson:
1 specimen smoky quartz—California.
1 specimen crystallized quartz—California.
Collected by S. E. Meek:
4 specimens magnetite.
23 specimens martite.
119 specimens crystallized apatite—Mexico.
Collected by H. W. Menke:
1 lot of Permian vertebrate fossils—Oklahoma.
Collected by H. W. Nichols:
609 specimens minerals.
100 specimens ores.
10 specimens fossils.
5 specimens rocks and rock structure—Southern States.
Collected by A. W. Slocom:
2 modern skeletons—Chicago.
2 modern bryozoans—Chicago.
6 specimens sandstone, 1 specimen concretion, 5 specimens brick clay, 796 specimens Cambrian and Trenton invertebrate fossils—Wisconsin.
Purchases:
2 specimens precious opal—Honduras.
1 specimen dendritic opal—Grand Cañon.
3 specimens smoky quartz, 1 specimen green tourmaline, 4 specimens distorted quartz—Paris, Maine.

LIBRARY
OF THE
UNIVERSITY OF ILLINOIS

CROW SHIELDS OF BUFFALO HIDE.

2 specimens bertrandite—Colorado.
1 specimen epidote and quartz—Ketchikan, Alaska.
7 specimens fossils.
4 specimens agate.
1 specimen opal.
102½ grams Ergheo meteorite.
366 grams Bath Furnace meteorite.
12 specimens thomsonite—Grand Marais, Minn.
1 specimen trilobite track—Georgia.
11 specimens massive turquoise—Arizona.
15 specimens cut turquoise—Arizona.
404 grams Morristown meteorite.
137 grams Majalahti meteorite.
1 cast of Bath Furnace meteorite.
1 specimen of *Nyctosaurus gracilis*.
68 grams Bath Furnace meteorite.
13 specimens minerals.
3 specimens fossil plants—Fossil, Wyoming.
4 specimens fossil fish—Fossil, Wyoming.

HARTWELL, GEORGE H., Chicago.
1 specimen fuller's earth—Arkansas.
2 specimens brick-clay—Illinois.

HEFFERN, ALBERT, Sherman, Wyoming.
1 specimen garnet in quartz—Wyoming.

HILL, L. E., Marion, Iowa.
1 specimen *Arca*—Iowa (exchange).

HUDSON, J. W., Field Columbian Museum.
1 specimen crystallized gold—Placerville, California, (loan).

JOHNSTON, W. M., Chicago.
2 specimens cerussite, 1 specimen galena—Mexico and Missouri.

KENKEL, LOUIS V., Chicago.
1 specimen siliceous gold ore—Terry, S. D.

K. K. NATURHISTORISCHES HOF-MUSEUM, Vienna, Austria.
25 grams Prairie Dog Creek meteorite (exchange).

McCALLIE, S. W., Atlanta, Ga.
65 specimens barite, 7 specimens ores, 1 group fossil shells—Georgia.

MITCHELL & CO., Srinagar, Kashmir, India.
4 specimens fossil bryozoa—India.

NEUMANN, MAX, Graz, Austria.
1.45 grams Aleppo meteorite, 0.559 grams Gross-Divina meteorite, 0.70 grams Chassigny meteorite, 0.25 grams Siena meteorite, 23.5 grams Zavid meteorite (exchange).

NYSTROM, WALFRED, Chicago.
1 specimen cerussite—Montana (loan).

PARIS EXPOSITION OF 1900.
Silver medal awarded exhibit of "Crystals."

SCOTT, W. M., Atlanta, Ga.
3 specimens minerals, 25 specimens ores, 1 fossil, 1 concretion—Georgia.

SMITH, LON P., La Grange, Ga.
1 specimen tourmaline—Georgia.
3 specimens crystallized beryl—Georgia.

STUART, WALTER, Anakie, Queensland, Australia.
1 specimen uncut green sapphire—Australia.

STÜRTZ, B., Bonn, Germany.
370½ grams Locust Grove meteorite, 384 grams Forsyth Co. meteorite, 96.7 grams Rasgata meteorite (exchange).

SVEGE, A. E. J., Chicago.
1 specimen marcasite concretion.

UNITED STATES MARBLE CO., Spokane, Washington.
1 polished slab of serpentine marble, variety "Canyon green."

UNITED STATES NATIONAL MUSEUM, Washington, D. C.
594 grams Admire meteorite, 1,000 grams Mt. Vernon meteorite (exchange).

UNIVERSITY OF CHICAGO, Chicago.
199 specimens (3 species) small carboniferous brachiopods—Louisiana, Mo.

WARD, HENRY A., Chicago.
352 grams Bacubirito meteorite, 214 grams Gilgoin meteorite, 295 grams Baratta meteorite, 810 grams Arispe meteorite, 407 grams Reed City meteorite (exchange).

WARD'S NATURAL SCIENCE ESTABLISHMENT, Rochester, N. Y.
99 grams Mooranoppin meteorite, 33 grams Caille meteorite, 10.6 grams Lesves meteorite, 28 grams Tysnes meteorite (exchange).

WESTERN MINING CO., Leadville, Colorado.
1 specimen calamine—Colorado.

WILLARD, NORMAN P., Chicago.
1 specimen carnotite (uranium ore)—Colorado.

WILLISTON, S. W., Chicago.
2 photographs of skeletons of fossil reptiles.

WOODLE, E. R., Chicago.
1 specimen crystallized rhodochrosite—Butte, Montana.

DEPARTMENT OF ORNITHOLOGY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

AKELEY, MRS. WARD B., Chicago.
Nest and four eggs of barn swallow—New York.

CASE, MISS ELIZABETH, Chicago.
1 parrot—Brazil.

CLARK, H. W., Chicago.
1 sora—Chicago.
1 red-breasted merganser—Chicago.
1 cat bird—Chicago.

FIELD COLUMBIAN MUSEUM.
Collected by Geo. F. Breninger:
144 bird skins, nests, and eggs—Phoenix, Ariz.
625 bird skins, nests, and eggs—California.
516 bird skins, nests, and eggs, —Huachuca Mountains, Arizona.
44 bird skins, nests, and eggs—Fairbank, Ariz.
Collected by N. Dearborn:
1 junco, 1 rusty blackbird, 1 long-billed marsh wren, 1 robin—Chicago.
18 bird skins—Chicago.
18 bird skins—Chicago.
Purchases:
1 black grouse—Europe.
1 ostrich—California.
2 loons—Wisconsin.
1 loon—Illinois.
2 woodcocks, 1 ruddy duck, 1 black duck—Illinois.
1 red-legged dusky duck—Illinois.
29 bird skins.
1 Hawaiian petrel—Porto Santo, H. I.
1 wood duck—Illinois.
12 sets eggs, containing 43 specimens.

KENKEL, L. V., Chicago.
Nest of yellow warbler—Chicago.
1 egg of yellow warbler—Chicago.
1 egg of cowbird—Chicago.

LAKE FOREST COLLEGE, Lake Forest, Ill.
10 bird skins—Cameroons, West Africa.

LARKIN, T. J., Chicago.
1 nest of chipping sparrow—Saugatuck, Mich.
1 nest and 2 eggs of phoeba—Saugatuck, Mich.

ROWLEY, J., Los Angeles, Cal.
43 bird skins—Sonora, Mexico.

DEPARTMENT OF ZOOLOGY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

BEAN, DR. T. H., St. Louis, Mo.
92 specimens Bermuda land shells, representing 18 species.

BRAND, CHAS. J., Chicago.
2 beetles, 1 sawfly—Chicago.

BURT, J. A., Chicago.
33 beetles and larvæ—Montana.

CHOPE, E. B., Chicago.
1 beetle, 1 grasshopper, 1 bug—Chicago.
66 specimens flies, beetles, moths, bugs, wasps, parasites, etc.—various localities.

CLARK, H. W., Chicago.
74 specimens beetles, bugs, parasites, flies, and grasshoppers—Illinois and Indiana.

CROWTHER, CHAS., Chicago.
1 parasite—Chicago.

DOHMEN, U. A., Chicago.
1 beetle, 1 parasite—Chicago.
13 specimens beetles, flies, cockroaches, centipede, etc.—Chicago.
5 snail shells—Watertown, N. Y.

EIGENMANN, DR. C. H., Bloomington, Ind.
105 specimens fishes—Cuba (exchange).

EMRICK, DR. G. M., Chicago.
18 specimens beetles, centipedes, scorpions, lizards, spiders, etc.—Mexico.

FIELD COLUMBIAN MUSEUM.
Collected by N. G. Buxton:
46 specimens rodents—Mexico.
44 specimens rodents and carnivores—Mexico.
7 squirrels, 1 opossum—Mexico.
Collected by W. J. Gerhard:
48 specimens flies, beetles, bugs, moths, grasshoppers, wasps, etc.—Chicago.
164 specimens grasshoppers, bugs, moths, ants and beetles—Illinois.
164 specimens spiders, grasshoppers, bees, beetles, wasps, parasites, etc.—Illinois and Indiana.
193 specimens centipedes, spiders, flies, beetles, bugs, bees, wasps, butterflies, etc.—Illinois.
472 specimens dragon-flies, mayflies, moths, ants, and parasites—Chicago.
528 specimens spiders, millipedes, butterflies, grasshoppers, bugs, bees, wasps, etc.—Willow Springs, Ill.
90 specimens beetles, flies, moths, spiders, bugs, parasites, etc.—Glen Ellyn, Ill.

Collected by E. Heller:
478 specimens mice, squirrels, chipmunks, bats, deer, wolves, wild cats, skunks, etc.—Lower California.
398 specimens skunks, coons, foxes, rabbits, ground squirrels, wood rats, voles, bats, gophers, etc.—California.
347 specimens rabbits, foxes, pocket mice, gophers, jumping mice, chipmunks, etc.—California.
339 specimens lizards, horned toads, snakes, turtles, and fishes—Death Valley, California.
123 specimens horned toads, lizards, snakes, and fishes—California.

Collected by S. E. Meek:
1 ocelot (species of tiger)—Mexico.
71 specimens waterbugs, grasshoppers, scorpion, water-beetles, etc.—Canada and Mexico.
242 specimens shells—Mexico.
3,599 specimens fishes, lizards, snakes, frogs, toads, turtles, and salamanders—Mexico.
179 specimens crayfishes, shrimps, and crabs—Mexico.

Purchases:
1 squirrel, 1 monkey, 1 civet cat.
2 Kadiak bear skins.
2 Isabella foxes—Alaska.
9 rabbits, 8 prairie dogs, 1 gopher, 3 chipmunks, 2 mice—Colorado.
12 squirrels, 4 skunks, 14 rabbits, 1 gopher, 18 mice—California.
1 fox skin and skull—California.
13 rabbits, 13 ground squirrels, 10 gophers, 53 mice, 3 shrews—California.
1,149 specimens bees, wasps, ants, and parasites—various localities.
1 Maria antelope (water buck)—Africa.
9 gophers, 10 ground squirrels, 3 weasels, 17 rats, 5 rabbits, 228 voles, 4 muskrats, 4 martens, 68 mice, 21 jumping mice, 36 shrews, 7 chief hares, 13 chipmunks—Boulder, Colo.
7 ground squirrels, 4 jack rabbits, 1 rabbit, 6 gophers, 9 rats, 7 bats, 5 jumping mice, 33 mice—Sonora, Mexico.
87 butterflies and moths, 35 insects—Africa.
1 fox skin and skull.
28 squirrels, 34 ground squirrels, 15 chipmunks, 1 flying squirrel, 7 mice, 3 kangaroo rats, 5 gophers, 6 pouch rats, 2 wood rats, 1 raccoon, 1 opossum, 15 rabbits, 9 hares, 1 fox, 1 peccarie, 10 mongoose—Mexico.
9 sowbugs, 1 peripatus, 1 spider, 1 centipede, 30 millipedes, 15 grasshoppers, 69 bugs, 18 beetles, 67 ants, bees, and wasps, 16 snails, 21 fishes, 12 lizards—South America.

FISCHER, J. E., Chicago.
1 dragon-fly—Chicago.

GERHARD, W. J., Chicago.
1 flying squirrel—Willow Springs, Ill.

HORNIG, HERMAN, Philadelphia, Pa.
54 specimens flies, bees, wasps, parasites, beetle larvae, etc.,—Pennsylvania and New Jersey.
152 specimens millipedes, termites, grasshoppers, bees, wasps, ants, beetles, etc. Pennsylvania and New Jersey.

HUDSON, J. W., Chicago.
1 mountain lion skull, 1 wild cat skull, 1 wolf skull—California.

HUME, J. A., Chicago.
1 dragon-fly—Chicago.

KENKEL, L. V., Chicago.
1 skeleton of mink.
161 specimens bees, wasps, parasites, bugs, beetles, moths, butterflies, etc.—Illinois.
1 dragon-fly—Chicago.

LARKIN, T. J., Chicago.
30 specimens beetles, ants, bees, plant lice, etc.—Michigan.
1 beetle, 1 roach—Chicago.

MASON, C. K., Chicago.
1 bot-fly larva—Colorado.

MILLSPAUGH, CHAS. F., Chicago.
2 flies—Chicago.
1 beetle, 30 water-beetles—Chicago.

MORRIS, EDWARD, Chicago.
2 wild cats.

NORRIS, PHILIP, Chicago.
1 bat—Chicago.
1 bumble-bee—Chicago.
1 bug, 1 beetle—Chicago.

NORRIS, VIOLET, Chicago.
1 garter snake—Chicago.

OGDEN, DR. H. V., Milwaukee, Wis.
6 specimens fishes—Totacatie, Wis.

PERIOLAT, C. F., Chicago.
2 blue bear skins.

PETERSEN, JAMES F., Chicago.
1 beetle, 1 horn-tail—Chicago.

ROEHRIG, Dr. G. E., Chicago.
1 rattlesnake—Pine Mountains, Ky.
1 house snake—Southern United States.

ROMANO, JOSEPH, Chicago.
1 moth—Chicago.

SANBORN, MISS CORA A., Chicago.
1 lantern-fly—Mexico.

SLOCOM, A. W., Chicago.
2 flies—Chicago.
1 spider, 1 dragon-fly—Chicago.

SNOW, E. W., Chicago.
1 ichneumon fly—Fremont, Neb.

STEINDACHNER, Dr. FRANZ, Vienna, Germany.
158 specimens (93 species) fishes—Europe (exchange).

STEPHENSON, F. M., Menominee, Wis.
1 cinnamon bear skull—Chihuahua, Mexico.
1 deer skin and skull—Fence River, Mich.

THOMAS, GRIFFITH, Chicago.
1 beetle—Chicago.

TIETZEL, G. R. J., Chicago.
1 spider—Chicago.

TRIGGS, CHAS. W., Chicago.
1 octopus—Seattle, Wash.

UNITED STATES FISH COMMISSION, Washington, D. C.
270 specimens fishes—Hawaii.

UNITED STATES NATIONAL MUSEUM, Washington, D. C.
2 bats (exchange).

WALSH, P., Chicago.
1 ichneumon fly, 1 dragon-fly—Chicago.

WHYTE, J. ALLEN, Chicago.
1 Spitz dog—Chicago.

WILLIAMSON, E. B., Bluffton, Ind.
107 dragon-flies—various localities.

WOLCOTT, A. B., Chicago.
1 bat—Glen Ellyn, Ill.
43 specimens ichneumon flies, beetles, roaches, flies, bugs, etc.—Illinois.
33 specimens ants, dragon-flies, bugs, beetles, etc.—Chicago, Ill.
83 specimens bugs, beetles, bees, parasites, etc.—Glendon Park, Ill.

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Made by Chas. J. Brand:
28 negatives, North American forestry.
Made by C. H. Carpenter:
167 negatives, Cheyenne Sun Dance.
Made by Geo. A. Dorsey:
222 negatives, Cheyenne Sun Dance.
Made by O. C. Farrington:
30 negatives, views of landscapes, etc.—Kentucky.
Made by J. W. Hudson:
138 negatives, California Indians.
Made by S. E. Meek:
362 negatives, illustrating Mexican scenery and customs.
Made by H. W. Menke:
3 negatives, Permian fossil beds.
Made by Chas. F. Millspaugh:
30 negatives, plants and landscapes.
Made by Chas. F. Newcombe:
36 negatives, North West Indians.
Made by H. W. Nichols:
133 negatives, Appalachian Mountain views.
Made by S. C. Simms:
48 negatives of Crow Indians.
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1 negative, wild-rice field.

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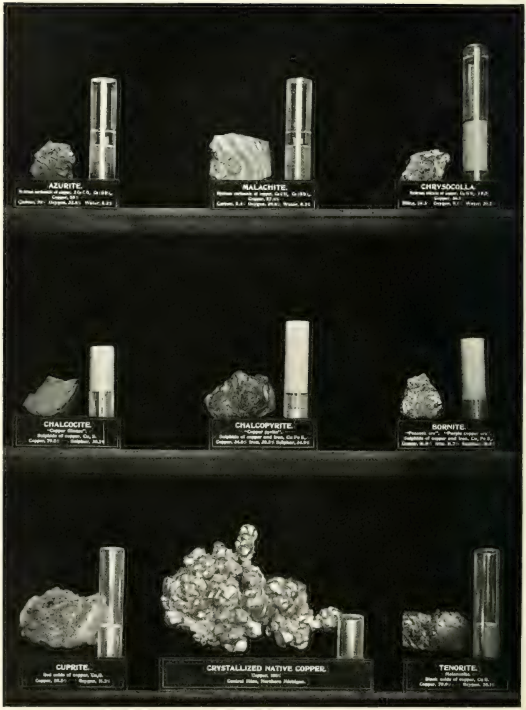

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Articles of Incorporation.

STATE OF ILLINOIS.

DEPARTMENT OF STATE.

William H. Hinrichsen, *Secretary of State:*

To all to Whom These Presents Shall Come, Greeting:

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

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

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

W. H. HINRICHSEN,
Secretary of State.

[Seal.]

TO HON. WILLIAM H. HINRICHSEN,
Secretary of State:

Sir:

We, the undersigned citizens of the United States, propose to form a corporation under an act of the General Assembly of the State of Illinois, entitled, "An Act Concerning Corporations," approved April 18, 1872, and all acts amendatory thereof; and that for the 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. Kohlsaat, 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, } *ss.*
COOK COUNTY. }

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.

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CASE ILLUSTRATING THE METHOD OF INSTALLING ECONOMIC MATERIAL. DEPARTMENT OF BOTANY.

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 one 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 countersignature 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 meetings 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 a 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.
ALDIS, OWEN F.
ARMOUR, ALLISON V.
AYER, EDWARD E.

BAKER, WILLIAM T.
BARTLETT, A. C.
BLACK, JOHN C.
BLAIR, WATSON F.
BLATCHFORD, ELIPHALET W.
BUCHANAN, W. I.
BUCKINGHAM, EBENEZER
BURNHAM, DANIEL H.
BUTLER, EDWARD B.

CHALMERS, W. J.
CHATFIELD-TAYLOR, H. C.
CLARK, JOHN M.
CURTIS, WILLIAM E.

EASTMAN, SIDNEY C.
ELLSWORTH, JAMES W.

FITZSIMONS, CHARLES

GAGE, LYMAN J.
GETTY, HENRY H.
GUNSAULUS, FRANK W.
GUNTHER, C. F.

HARPER, WILLIAM R.
HATCH, AZEL F.
HEAD, FRANKLIN H.
HIGINBOTHAM, H. N.
HUTCHINSON, CHARLES L.

JONES, ARTHUR B.

KEITH, E. G.
KOHLSAAT, HERMAN H.

LATHROP, BRYAN
LEITER, L. Z.

McCAGG, E. B.
McCORMICK, CYRUS H.
McNALLY, ANDREW
MANIERRE, GEORGE
MITCHELL, JOHN J.

PATTERSON, ROBERT W.
PECK, FERD. W.
PUTNAM, FREDERICK W.

REAM, NORMAN B.
RYERSON, MARTIN A.

SCHNEIDER, GEORGE
SKIFF, F. J. V.
SMITH, BYRON L.
SMITH, WILLARD A.
SPRAGUE, A. A.
STOCKTON, JOSEPH
STONE, MELVILLE E.

WALKER, EDWIN
WALSH, JOHN R.

DECEASED.

ARMOUR, PHILIP D.
BISSEL, GEORGE F.
CRAWFORD, ANDREW
DAVIS, GEORGE R.
HALE, WILLIAM E.
JACKSON, HUNTINGTON W.
McCLURG, A. C.
PEARCE, J. IRVING
PETERSON, ANDREW
PULLMAN, GEORGE M.
SCOTT, JAMES W.
WALLER, R. A.
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.
COOPER, FRANK H.
CRANE, R. T.

DEERING, CHARLES
DRAKE, TRACY C.

FARWELL, WALTER
FAY, C. N.
FIELD, STANLEY
FULLER, WILLIAM A.

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MacVEAGH, FRANKLIN
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ORR, ROBERT M.

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PIKE, EUGENE S.
PORTER, GEORGE T.
PORTER, H. H.
PORTER, H. H., JR.

REAM, MRS. CAROLINE P.
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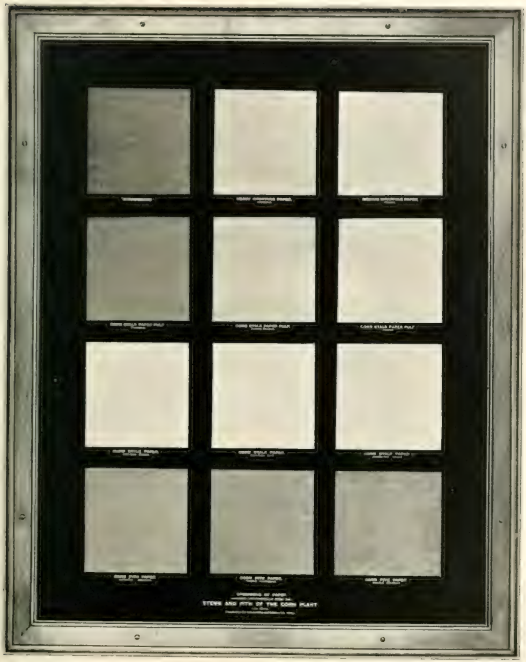

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