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OF THE

FIELD COLUMBIAN MUSEUM

REPORT SERIES

VOLUME II



CHICAGO, U. S. A.

1901-1905.



EDWARD E. AYER.

FIELD COLUMBIAN MUSEUM

PUBLICATION 98.

REPORT SERIES.

VOL. II, No. 4.

ANNUAL REPORT OF THE
DIRECTOR

TO THE

BOARD OF TRUSTEES

FOR THE YEAR 1903-1904.



CHICAGO, U. S. A.

October, 1904.



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ANNUAL REPORT OF THE DIRECTOR. 1903-1904

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 ending September 30, 1904.

MAINTENANCE.—The cost of maintenance for the year amounted to \$110,000. The total amount expended for all purposes was \$140,000, being \$5,000 less than the previous year. The difference between the cost of maintenance and the actual amount expended is accounted for by special appropriations for the purchase of collections, the outfitting of expeditions, and the cost of publishing the different numbers in the Museum series of publications. The latter item shows a considerable increase over any previous year. The cost of heating and lighting the building was also higher, owing mainly to an advance in the price of the coal used, and the unusual severity of the winter months. The building itself can be considered as being in good repair, yet the overhanging cornices, which are rapidly decaying, occasion a certain amount of anxiety, and will have to be removed in order to prevent accidents. The roof of the building is in fairly satisfactory condition, scarcely any leakages having occurred for some time. Some important and necessary additions have been made to the steam plant, bringing the plant up to a high state of efficiency.

LECTURE COURSES.—The attendance at the course during the months of October and November was very satisfactory, and a most interesting series of lectures was given.

Owing to certain strictures of the Building Commissioner, subsequent to the local disaster in December, it was thought advisable to discontinue the use of the Museum Lecture Hall, hence the course usually given in the spring was omitted. I am glad, however, to report that the courses have now been resumed through an arrangement with the authorities of the Art Institute, whereby it is possible to obtain the use of Fullerton Hall for the afternoons on which the lectures have usually been given.

The following is the Twentieth Lecture Course, delivered during the months of October and November, 1903:

- Oct. 3.—“A Visit to the Island of Sumatra.”
Prof. E. E. Barnard, University of Chicago.
- Oct. 10.—“A Tour of the Plant World—Japan.” (Repeated by request.)
Dr. C. F. Millspaugh, Curator, Department of Botany.
- Oct. 17.—“Travels on Vancouver Island.”
Mr. Harlan I. Smith, American Museum of Natural History, New York, N. Y.
- Oct. 24.—“Bird Migration.”
Mr. W. E. Praeger, University of Chicago.
- Oct. 31.—“On the Isthmus of Tehuantepec.”
Dr. Seth E. Meek, Assistant Curator, Department of Zoölogy.
- Nov. 7.—“In Eastern Mexico.”
Dr. Seth E. Meek, Assistant Curator, Department of Zoölogy.
- Nov. 14.—“Where Sea and River Meet.”
Dr. Chas. B. Davenport, University of Chicago.
- Nov. 21.—“How Ores Grow.”
Mr. Henry W. Nichols, Assistant Curator, Department of Geology.
- Nov. 28.—“Cats and Dogs, Their Origin and Distribution.”
Dr. S. W. Williston, Associate Curator, Division of Paleontology.

PUBLICATIONS.—During the year 14 publications of the established series were issued, and the numbers exceed in importance any hitherto published by the institution. Each of the departments has been well represented in this work, as will be noted by a perusal of the list given below.

The following is a list of the publications issued, and a table showing their distribution during the year:

PUBLICATIONS 1903-1904.

- Pub. 82.—Geological Series, Vol. 2, No. 4. "Structure and Relationships of Opisthocœlian Dinosaurs." Part I. "Apatosaurus Marsh." By Elmer S. Riggs. 32 pp., 14 illustrations (10 half-tones and 4 zinc etchings), edition 1,500.
- Pub. 83.—Anthropological Series, Vol. 3, No. 4. "The Oraibi Summer Snake Ceremony." By H. R. Voth. 91 pp., 71 illustrations (half-tones), edition 1,500.
- Pub. 84.—Anthropological Series, Vol. 6, No. 1. "The Oraibi Oaqôl Ceremony." By H. R. Voth. 46 pp., 28 illustrations (26 half-tones, 2 colored plates), edition 1,500.
- Pub. 85.—Anthropological Series, Vol. 2, No. 6. "Traditions of the Crows." By S. C. Simms. 44 pp., no illustrations, edition 1,500.
- Pub. 86.—Report Series, Vol. 2, No. 3. "Annual Report of the Director to the Board of Trustees, for the Year 1902-1903." 83 pp., 15 illustrations (half-tones), edition 2,500.
- Pub. 87.—Zoölogical Series, Vol. 3, No. 14. "Descriptions of Twenty-seven Apparently New Species and Subspecies of Mammals." All but six collected by Edmund Heller. By D. G. Elliot. 22 pp., 1 illustration, edition 1,500.
- Pub. 88.—Anthropological Series, Vol. 7, No. 1. "Traditions of the Osage." By George A. Dorsey. 60 pp., no illustrations, edition 1,500.
- Pub. 89.—Geological Series, Vol. 2, No. 5. "Observations on the Geology and Geography of Western Mexico; Including an Account of the Cerro Mercado." By Oliver Cummings Farrington. 31 pp., 21 illustrations (16 photogravures, 5 zinc etchings), edition 1,500.
- Pub. 90.—Zoölogical Series, Vol. 3, No. 15. "Descriptions of Apparently New Species and Subspecies of Mammals, and a New Generic Name Proposed." By D. G. Elliot. 7 pp., no illustrations, edition 1,500.
- Pub. 91.—Zoölogical Series, Vol. 3, No. 16. "Catalogue of Mammals Collected by E. Heller in Southern California." By D. G. Elliot. 52 pp., 12 illustrations (11 half-tones, 1 zinc etching), edition 1,500.

- Pub. 92.—Botanical Series, Vol. 3, No. 2. "Plantæ Yucatanæ. (Regionis Antillanæ.) Plants of the Insular, Coastal, and Plain Regions of the Peninsula of Yucatan, Mexico." By Charles Frederick Millspaugh. 70 pp., 90 illustrations (zinc etchings), edition 1,500.
- Pub. 93.—Zoölogical Series, Vol. 5. "The Fresh-Water Fishes of Mexico North of the Isthmus of Tehuantepec." By Seth Eugene Meek. 316 pp., 89 illustrations (1 zinc etching, 88 half-tones), edition 1,500.
- Pub. 94.—Geological Series, Vol. 2, No. 6. "Structure and Relationships of Opisthocoelian Dinosaurs." Part II. "The Brachiosauridæ." By Élmer S. Riggs. 19 pp., 6 illustrations (half-tones).
- Pub. 95.—Zoölogical Series, Vol. 4, Part I. "The Land and Sea Mammals of Middle America and the West Indies." By D. G. Elliot. 490 pp., 181 illustrations (half-tones), edition 2,000.
- Pub. 95.—Zoölogical Series, Vol. 4, Part II. "The Land and Sea Mammals of Middle America and the West Indies." By D. G. Elliot. 424 pp., 196 illustrations (half-tones), edition 2,000.

The Museum list of exchanges comprises 1,169 institutions and individuals. Of this number, 493 are with foreign countries, and 676 in the United States.

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

Australia,	21	Germany,	193
Canada,	30	Great Britain,	76
Central America,	7	Greece,	2
Cuba and the West Indies,	5	Netherlands,	10
Mexico,	16	Italy,	27
Yucatan,	2	Malta,	1
Argentina,	11	Norway,	7
Brazil,	7	Portugal,	5
British Guiana,	1	Roumania,	1
Chili,	1	Russia,	14
Peru,	2	Spain,	5
U. S. Columbia,	2	Sweden,	10
Uruguay,	1	Switzerland,	10

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Austria Hungary,	25	India,	11
Belgium,	13	Japan,	2
Denmark,	4	Egypt,	1
France,	42	Liberia,	1
Tasmania,	2	Oceanica,	8
South Africa,	7		

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

FOREIGN.

General, everything issued by the Museum,	198
Anthropological,	85
Botanical,	44
Geological,	69
Ornithological,	8
Report,	3
Anthropological and Geological,	5
Geological and Zoölogical,	21
Zoölogical,	35
Miscellaneous,	25
	493

The publications are distributed to the different states as follows:

Alabama,	2	Montana,	3
Arizona,	1	Nebraska,	7
Arkansas,	1	Nevada,	1
California,	32	New Hampshire,	6
Colorado,	13	New Jersey,	20
Connecticut,	23	New York,	107
Delaware,	2	North Carolina,	6
District of Columbia,	26	New Mexico,	2
Florida,	1	Ohio,	28
Georgia,	1	Oregon,	1
Illinois,	64	Pennsylvania,	46
Indiana,	15	Rhode Island,	7
Iowa,	13	South Carolina,	1
Kansas,	9	South Dakota,	2
Kentucky,	3	Tennessee,	2
Louisiana,	4	Texas,	2
Maine,	7	Vermont,	3
Maryland,	16	Virginia,	3
Massachusetts,	72	Washington,	3
Michigan,	12	West Virginia,	2
Minnesota,	11	Wisconsin,	16
Mississippi,	2	Wyoming,	2
Missouri,	16		

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

DOMESTIC.	
General, everything issued by the Museum,	215
Anthropological,	97
Botanical,	85
Geological,	108
Ornithological,	14
Report,	10
Anthropological and Geological,	7
Geological and Zoological,	19
Zoological,	25
Miscellaneous,	8
Botanical, Geological, and Zoological,	17
Historical,	30
Botanical and Zoological,	9
Industrial Arts,	14
Transportation,	18
	676

LOUISIANA PURCHASE EXPOSITION.—The opportunity to secure much valuable museum material from the Exposition has not been lost sight of, and early in the year arrangements were perfected by which the grounds and exhibit palaces would be thoroughly canvassed. At this time of writing, however, it can only be said that these efforts have been very encouraging, and assurance is here given that the energies of the Director and the Curators in this direction will be fully applied.

THE LIBRARY.—The Library at present contains 15,239 books and 18,816 pamphlets, distributed as follows:

	Books.	Pamphlets.
General Library,	11,646	15,644
Department of Anthropology,	410	103
Department of Botany,	633	275
Department of Geology,	1,835	2,894
Department of Ornithology,	386
Department of Zoology,	329

The additions during the year were 987 books and 1,020 pamphlets and bulletins, making a total of 2,007 titles. Of these, 73 books and 76 pamphlets were added by purchase, and 914 books and 944 pamphlets by exchange for equivalent literature. During the year the Library has been enriched by the acquisition of a number of valu-

able works; the Museum being under special obligations for noteworthy contributions to Christiana University, Stockholm; the Natural History Museum, Hamburg; Cambridge University Press, England; Royal University of Upsala; Missouri Botanical Garden, St. Louis, Missouri; University of Chicago; and to Messrs. Eduard Seler, Berlin, and B. B. Cushman, Chicago. The annual inventory of the departmental libraries showed that they were in a satisfactory condition. In the departments of Botany and Zoölogy the books are much exposed to the dust, but with the present accommodations this seems unavoidable. No important changes have been made in the equipment of the general library. The work of revising and typewriting the author catalogue has been steadily pursued during the year. This work will be completed and the catalogue brought up to date in about a month. Three thousand and fifty-nine cards have been added and 10,128 cards revised and rewritten. Three hundred and sixty-four volumes were received from the bindery. Twelve installments of the John Crerar Library catalogue have been received and filed.

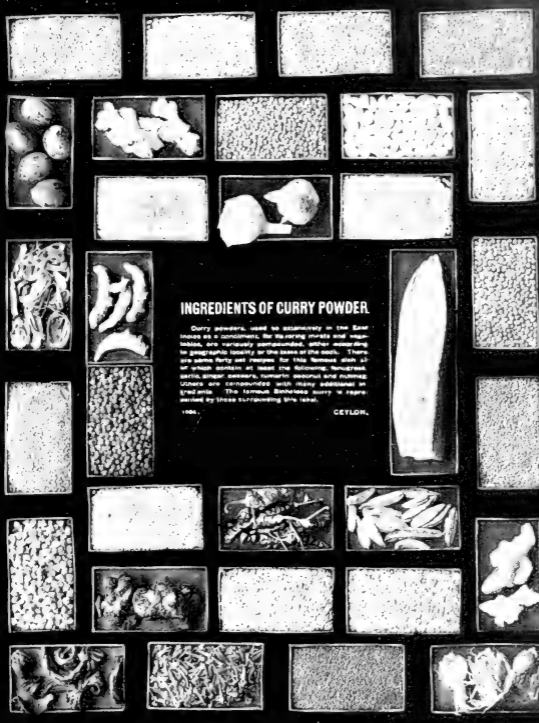
ACCESSIONS.—The accessions in the Department of Anthropology, as in recent years, have been very largely the result of expeditions in the field by various members of the staff of the department. Assistant Curator Owen secured noteworthy collections, one of which, from the White Mountain Apache, consisting chiefly of ceremonial objects and paraphernalia, supplements the collection already formed by Mr. Owen in this tribe, and makes the combined collection one of great importance and scientific value. Also through Assistant Curator Owen's expedition was derived a fairly comprehensive and exceedingly interesting collection from certain of the so-called Mission Indians of southern California. Previous to this year the department possessed but scant material from this interesting region, so this collection not only fills an important gap, but makes the Californian collections representative in a comprehensive way, of the entire state. From Assistant Curator Simms was obtained an interesting collection from the Assiniboins, Cree, and Ojibwa of Minnesota and Assinaboia. This region up to this year had remained practically unrepresented in the collections, and the acquisition, therefore, marks an extenuation of territory covered by collections from the Plains tribes. The Northwest Coast collections have received a most valuable addition through the expedition undertaken for the Museum by Dr. C. F. Newcombe. Dr. Newcombe's work of collecting this year was largely confined to the

tribes of Vancouver Island and the Thompson and Frazer rivers. Especially noteworthy in the material sent in by Dr. Newcombe are several totem and house poles, ceremonial feast dishes, a very old Haida grave-house, and an interesting and well-identified series of ceremonial objects. In a similar manner, the Californian collections have received notable additions from the continued researches of Dr. J. W. Hudson, who has continued the work of investigating and collecting in two regions not hitherto adequately represented in this department: the first region being the lower Klamath, the second that region of California adjacent to Death and Panamint valleys. As a result of the work among the Cheyenne and Kiowa under the direction of Mr. James Mooney and the co-operation of the Bureau of Ethnology, additional material has been received, especially from the Cheyenne. Of chief interest in this material is a full-sized Cheyenne tipi, carefully made of skins after the old manner, decorated in colors, and completely equipped with interior furnishings appropriate to a Cheyenne tipi of a family of means and influence. As a result of the Curator's continued investigation, among the tribes of the Caddoan stock and the Arapaho, a considerable amount of material has been acquired which makes the collections from those tribes more complete and interesting. From nearly all of the above-mentioned expeditions osteological material has been also acquired, especially from the expedition of Dr. Newcombe on the Northwest Coast. Among the notable purchases made during the year should be mentioned, first those made by Mr. Ayer, of specimens from Egypt, Italy, and Benin, Africa. Mr. Clarence B. Moore has again manifested his friendly interest in the department, as shown by his presentation of fifteen interesting specimens from Florida. The departmental collection of ethnic photographs was enlarged by the acquisition of about 400 prints by purchase from the Bureau of Ethnology. It may be noted in this connection that Mr. Carpenter, the official photographer of the Museum, has devoted several months of the year to the work of photographing all the Indians and other primitive peoples brought together by the Department of Anthropology and the Philippine Commission of the World's Fair. Mr. Carpenter has not yet concluded his work, but it is believed that he will have made, before the Exposition closes, over 2,000 negatives. The value of such a collection of physical types cannot be estimated. Ninety-six species of birds, of which 11 were new to the Museum collections, were obtained by Mr. Breninger, collector in Nicaragua. The collecting in the Chicago region also re-

sulted in the accumulation of considerable data relative to the local distribution of birds and a number of nests, eggs, skins, and alcohol specimens were obtained. An important addition to the specimens in the department was a collection of 183 bird skins, obtained as a gift from Mr. D. K. Williamson, of Bluffton, Indiana. In the Department of Geology several valuable accessions have been received by gift. Among these may be mentioned a glaciated copper boulder weighing $101\frac{1}{4}$ pounds, received from Mr. Joseph Austrian; a collection of gem peridots from Rev. Paul S. Mayerhof; a large relief map of France from the Central School Supply Company; a classified collection of soils and subsoils numbering forty-one specimens from the United States Department of Agriculture; a series of rare minerals and crystals of California from M. M. and F. M. Sickler; a transparency of Mt. Pelee from Mr. Morris K. Jesup; a collection of local fossils and specimens illustrating rock structures from Mr. John Hemshell; topaz crystals from Mr. W. J. Chalmers; and specimens of metallic silicon from the Carborundum Company. Several exchanges have been made which have afforded important additions to the collections. This is especially true of the meteorites, to which twenty specimens of falls not before represented have thus been added. For courtesies rendered in this connection, acknowledgment is due the following institutions and individuals: Department of Mines, Sydney, New South Wales; Geological Survey of India; Dr. A. Brezina; Julius Bohm; B. Sturtz; and Prof. H. A. Ward. By exchange with the Australian Museum, Sydney, New South Wales, a rare series of Australian minerals was obtained, including specimens of emerald, topaz, zircon, and garnet of gem quality. The most important purchases by the Department were those of the entire mass of the Rodeo, Durango, Mexico meteorite, and a fossil skeleton of the short-necked swimming reptile, *Platecarpus*, about twelve feet in length. This skeleton is nearly complete. Other purchases included specimens of the Finnmarken, Lance, and Ness Co. meteorites, and a slab of dinosaur tracks. The Department of Botany has received during the past year 83 accessions, of which 65 (representing 33,060 specimens) have been installed in the herbarium, and 18 (representing 111 specimens) in the economic section. Among the most notable series received were those of the herbarium of Dr. John K. Small (21,528 specimens), representing in the main his field work on "The Flora of the Southern States"; and substantially the South American species from the herbarium of Prof. Edward L. Greene (3,315 specimens), kindly donated by himself.

The most important collections received are the following:

Collector.	Received this Year.	Total in Herb.
Bang, A. Miguel—Bolivia	934	1,933
Bebb, Robert—Illinois, Texas, Wisconsin,	234	663
Britton, Britton & Schafer—Cuba,	85	90
Brown—California,	620	620
Brown, Robert—Australia,	417	417
Burgess, A. B.—Florida,	242	242
Canby, W. M.—Crategi,	25	45
Curtiss, A. H.—Bahamas,	208	208
Cusick, W. M.—Oregon,	204	1,629
Eaton, A. A.—Florida,	64	64
Eggleston, W. W.—Vermont,	640	682
Garber, A. P.—Florida,	484	489
Garber, A. P.—Pennsylvania,	211	406
Grout, A. J.—Vermont,	401	448
Greene, Edward L.—California,	21	537
Harris, Fawcett & Campbell—Jamaica,	1,517	1,672
Heller, A. A.—California,	502	967
Heller, A. A.—Hawaii,	860	967
Heller, A. A.—Pennsylvania,	707	709
Heller, A. A.—Virginia,	483	483
Hill, E. J.—Crategi,	46	57
Howe, Clifton D.—Newfoundland,	175	175
Howe, Clifton D.—Nova Scotia,	65	65
Kearney, T. H., Jr.—Kentucky,	246	409
Lansing, O. E., Jr.—Florida Keys,	590	590
Lemmon, J. G.—California,	169	744
McDonald, F.—Illinois,	252	1,098
Meyers, F. S.—Jerusalem,	682	682
Millspaugh, C. F.—Bahamas	417	417
Morong, Thos.—Paraguay,	193	561
Morris, E. L.—Dist. Columbia,	269	270
Morris, E. L.—Massachusetts,	164	168
Nash, Geo. V.—Hayti,	223	223
Nelson, Aven.—Wyoming,	447	460
Newcombe, C. F.—British Columbia,	122	238
Nichols, G. E.—Jamaica,	137	137
Orcutt, C. R.—Lower California,	244	539
Palmer, Dr. Edward—Mexico,	32	2,025
Parish, S. B. & W. F.—California,	243	1,253
Patterson, H. N.—Illinois,	466	2,256
Patterson, H. N.—Colorado,	479	1,123
Piper, C. V.—Washington,	428	486
Porter, T. C.—Pennsylvania,	285	670
Pringle, C. G.—Arizona,	221	1,137
Pringle, C. G.—California,	187	311
Pringle, C. G.—Vermont,	126	444



INGREDIENTS OF CURRY POWDER

Curry powders, used so extensively in the East Indies as a condiment, for flavoring meats and vegetables, are variously compounded, either according to geographic locality or the taste of the cook. There are about forty old recipes for this famous dish all of which contain at least the following ingredients: garlic, ginger, onions, turmeric, pepper and nutmeg. Others are compounded with many additional ingredients. The famous Bishness curry is here printed by these surrounding little labels.

1904.

CEYLON.

CURRY POWDER.

METHOD OF INSTALLATION. DEPARTMENT OF BOTANY

LIBRARY
OF THE
UNIVERSITY OF ILLINOIS

Collector.	Received this Year.	Total in Herb.
Reverchon, J.—Texas,	188	1,004
Reynolds, Mary—Florida,	176	201
Rusby, H. H.—Arizona,	203	304
Rusby, H. H.—Bolivia,	532	604
Rusby, H. H.—New Mexico,	116	315
Rusby, H. H.—Venezuela,	305	405
Ruth, A.—Tennessee,	103	117
Sandberg, J. H.—Idaho,	135	150
Sandberg, J. H.—Minnesota,	434	566
Sargent, C. S.—Crategi,	41	41
Seler, Dr. & Mrs.—Yucatan,	183	183
Sheldon, E. P.—Minnesota,	291	326
Small, John K.—Georgia,	1,897	1,012
Small, John K.—North Carolina,	155	155
Small, John K.—New York,	132	133
Small, John K.—Pennsylvania,	4,013	4,014
Small & Heller—North Carolina,	1,187	1,187
Small & Heller—Pennsylvania,	224	225
Small & Heller—Virginia,	74	74
Sonne, C. F.—California,	191	420
Suksdorf, W. N.—Washington,	296	1,430
Taylor, K. A.—Maryland,	84	84
Taylor, K. A.—South Carolina,	125	125
Umbach, L. M.—Illinois,	245	1,137
Umbach, L. M.—Indiana,	291	936
Wilson, Percy.—Honduras,	103	103

The total additions to the herbarium for the year, arranged geographically, are as follows:

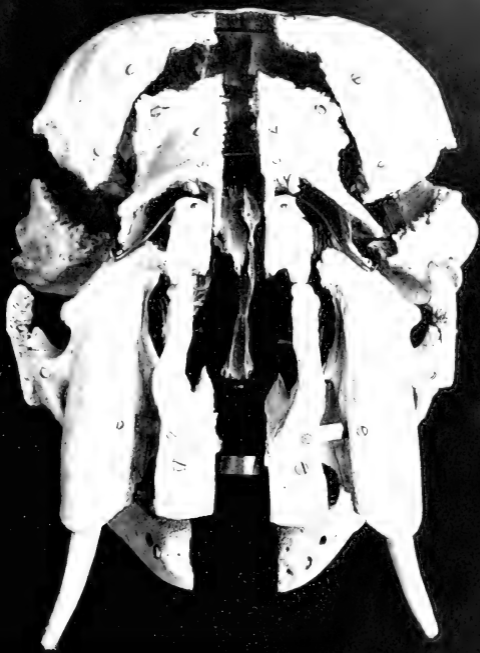
NORTH AMERICA:	Added this Year.	Total in Herbarium.
Alabama,	28	347
Alaska,	10	308
Arizona,	121	3,173
Arkansas,	17	180
British Columbia,	142	223
California,	536	10,391
Canada,	29	1,841
Colorado,	628	5,334
Connecticut,	22	233
Dakota,	47	212
Delaware,	75	822
District of Columbia,	28	1,710
Florida,	1,203	8,450
Georgia,	1,935	2,914
Grand Manan Island,	26	26
Idaho,	165	850
Illinois,	712	14,542
Indiana,	81	3,377

NORTH AMERICA—continued.	Added this Year.	Total in Herbarium.
Indian Territory,	10	171
Iowa,	31	1,228
Kansas,	68	135
Kentucky,	260	639
Labrador,	4	154
Louisiana,	18	790
Maine,	124	759
Maryland,	193	592
Michigan,	422	2,793
Minnesota,	232	1,742
Mississippi,	20	1,394
Missouri,	130	786
Montana,	204	1,774
Nebraska,	17	59
Nevada,	3	116
New Brunswick,	9	614
Newfoundland,	175	212
New Hampshire,	202	809
New Jersey,	712	1,242
New Mexico,	52	1,106
New York,	990	5,412
North Carolina,	1,617	2,602
Nova Scotia,	65	91
Ohio,	88	1,062
Oregon,	258	3,422
Pennsylvania,	5,206	7,979
Queen Charlotte Island,	6	88
Rhode Island,	15	485
Santa Cruz Island,	2	67
South Carolina,	171	516
Tennessee,	140	743
Texas,	241	2,408
Utah,	168	419
Vermont,	140	1,942
Virginia,	2,311	3,430
Washington,	33	3,392
West Virginia,	32	1,195
Wisconsin,	96	669
Wyoming,	58	695
Yellowstone Park,	21	281
WEST INDIES:		
Antigua,	9	10
Bahamas,	647	734
Barbados,	1	75
Cuba,	164	1,879
Dominica,	16	47
Florida Keys,	765	765
Grenada,	10	100

WEST INDIES—continued.	Added this Year.	Total in Herbarium.
Haiti,	239	255
Jamaica,	1,671	2,592
Martinique,	3	18
Porto Rico,	85	3,645
Santo Domingo,	3	107
St. Christopher,	1	9
St. Jan,	1	5
St. Lucia,	2	3
St. Vincent,	5	108
Tobago,	4	38
Trinidad,	14	52
MEXICO AND CENTRAL AMERICA:		
Carmen Island,	21	22
Guatemala,	47	77
Honduras,	103	106
Lower California,	221	1,045
Mexico,	1,620	10,674
Nicaragua,	82	82
Socorro Island,	1	1
Yucatan,	184	3,847
SOUTH AMERICA:		
Bolivia,	999	2,537
Chile,	84	162
Falkland Island,	1	2
Galapagos Island,	2	2
Magellan,	4	38
Paraguay,	68	561
Venezuela,	305	748
EUROPE:		
Hungary,	9	4,157
France,	4	1,427
Germany,	81	4,059
Great Britain,	104	1,416
Italy,	9	902
Norway,	2	207
Spain,	2	41
Sweden,	4	457
Switzerland,	1	991
ASIA:		
Palestine,	682	682
AFRICA:		
Abyssinia,	1	192
Natal,	69	534
Nyassaland,	1	30
Zululand,	41	89
OCEANIA:		
Australia,	417	1,086
Hawaii,	10	961

In the Department of Zoölogy 1,778 specimens of Mammals have been added to the collection during the past year—121 by purchase, 57 by donations, and 1,600 collected in the field. The most important specimens presented were six Caribou from Newfoundland, the gift of Mr. V. Shaw Kennedy, and which eventually will be mounted in one group. Among the notable purchases were a male "Ovis ammon," with very fine horns measuring $19\frac{3}{4}$ inches at base, $53\frac{1}{2}$ inches in length, and 36 inches from tip to tip, thus nearly equalling the largest head recorded; a very fine silver fox, *V. p. argentata*, 5 musk oxen from the Mackenzie River district, the true "*Ovibos moschatus*," and a male, female, and young adult female of the Saiga Antelope, in the rare snow-white winter pelage. Additions to the collection of fishes have been comparatively few during the past year, comprising but 80 specimens in all, of which 54 were donated and 26 collected in the field. No purchases were made. A specimen of Alligator Garpike, donated by Mr. McCrea, is 8 feet in length, and represents the largest species of our fresh-water fishes. Of Lizards, 157 specimens were collected in California and Mexico and added to the collection, and 54 Snakes, all collected in California and Mexico, save one presented by Dr. Roerhig, from Kentucky. Seven thousand two hundred and twenty-seven entomological specimens have been added to the collection during the past year, 6,776 by purchase, 119 donated, and 332 collected in the field by the Assistant Curator. The most important acquisition was the purchase of the collection of Prof. Arthur J. Snyder, containing 5,564 Butterflies and Moths from America north of Mexico, and 409 Butterflies and Moths foreign to these limits. The genus *Argynnis* is strongly represented, having over 750 specimens, and the genus *Catocala* also exhibits over 450 specimens, thus affording a fairly full representation of these perplexing genera. Local species from different places in Illinois are well represented, and about 95 per cent of the entire collection possesses exact and proper data. Eleven hundred and forty-seven shell specimens were added to the collection, 625 purchased, and 522 collected in the field. The classification of accessions follows:

	Number of Accessions.	Number of Specimens.
Gifts,	154	6,203
Loans,	4	50
Exchanges,	45	4,641
Collected,	52	13,510
Purchase,	57	31,555
Collated,	4	43



ODONTOBATUS B. ISMARUS. ATLANTIC WALRUS.

LIBRARY
OF THE
UNIVERSITY OF ILLINOIS



Crinoid stem, *Crinoid stem, Michigan*

DEPARTMENTAL CATALOGUING, INVENTORYING, AND LABELING.—The work of cataloguing specimens as received in the Department of Geology has proceeded as usual during the year. In addition a complete catalogue of the photographs belonging to the Department has been made, and the prints of these in the Department albums carefully labeled. The number of these, of which a complete and permanent record is now thus available, is 1,548. A partial card catalogue of the clay collection has been made, the cards showing the character of the clay, manner of burning, locality, and analysis where this has been obtainable from literature or has been made in the Department. The work of labeling the paleontological collections has been completed during the year by the preparation of 1,455 black cardboard labels printed in aluminum ink. The text of these labels was prepared with a view to making them, as far as possible, of popular interest. Common names and descriptive terms were therefore used in connection with the scientific ones. In addition, ten large descriptive labels, some of them illustrated by special cuts, have been provided for the cases of invertebrate fossils. These labels give comprehensive descriptions of the animal or plant groups represented and of the life and distribution of the rocks of each period. About 500 labels have been prepared to complete the labeling of the collection of gold and silver ores in Hall 72, and 350 miscellaneous labels for new specimens in various collections. The inventory of the Department of Anthropology has been practically brought up to date, and it remained during the present year to continue the inventory of collections as they were received. Practically all of the collections received during the year were catalogued and recorded except those made by Dr. Hudson, who has not returned from the field. The number of labels prepared during the year has not been as large as in previous years. This is largely due to the fact that the work of new installation has been suspended for the present. All specimens placed on exhibition, even though the exhibition be of a temporary nature, have been provided with identification labels, while printed labels have been made for a number of small collections and for the large Tlingit collection, numbering over 2,000 specimens. The recording of collections received in the Department of Botany has been consistently kept up to date throughout the year, 21,917 entries having been made in the inventory books of the department. These books now comprise 51 volumes, in which 161,861 entries have been made to date. The work in the economic section, carried on by the Curator, has been principally spent upon labeling. A complete catalogue of the birds of North America, Central America,

and the West Indies has been finished, and is now ready for publication. This publication shows what the Department of Ornithology lacks, what it possesses, and of what it has duplicate specimens. The study collection in the Department of Zoölogy has been put in systematic order and correctly labeled. All specimens placed on exhibition have been correctly labeled and all new material inventoried. 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, 1904.	Entries During 1903-1904.	Total No of Cards Written.
Anthropology,	24	62,841	1,928	66,731
Botany,	51	161,861	21,917	4,550
Geology,	19	37,824	3,904	6,200
Library,	6	39,566	3,782	33,956
Ornithology,	10	16,018	986	3,300
Photography,	4	27,723	11,672
Zoölogy,	20	31,171	1,915	15,610

EXPEDITIONS AND FIELD WORK.—After a cessation of two years, field work for the collection of vertebrate fossils was resumed during the present year. The work was in charge of Assistant Curator Riggs, who spent, with a party, about four months in the Jurassic and Cretaceous outcrops of Montana and South Dakota. Much new and valuable material, amply repaying the cost of the expedition, was obtained. Of this the most important for exhibition purposes was one nearly complete skull and partial skeleton of an individual of the huge horned reptile *Triceratops*. Four less complete skulls and parts of skeletons of the same genus were also obtained. Other material of value includes remains of three individuals of the long-necked swimming reptile *Plesiosaurus*, portions of which will be available for exhibition, and all of which is of scientific value. About 25 specimens of a sea-crab from the Upper Cretaceous were secured, and some *Mosasaur* and *Claosaur* remains. During the month of September about 12,000 specimens of invertebrate fossils were collected by Mr. Slocum in the Silurian and Devonian localities of western New York. The principal localities visited were East Bethany, Moscow, Lockport, Rochester, and Niagara Falls. At East Bethany and Moscow excellent series of the fossil corals for which these localities are noted, were obtained, the specimens including representatives of more than twenty species, and ranging in size from fourteen inches in diameter down. Several thousand specimens of brachiopods, bryozoans, gastropods, and trilobites were also procured. At Lockport, Rochester, and Niagara

Falls, collections of crinoids, brachiopods, trilobites, bryozoans, and plant remains were made in the Niagara shales and Medina sandstones. The series of crinoids procured here was especially fine, some specimens being the best the localities have ever afforded. All the collections were made with a view to representing faunas as well as individual species, and hence have increased value on this account. The quality of the material obtained, as a whole, was excellent, and the large amount collected will afford much available for exchange. A number of specimens of economic interest were also procured. The Department of Botany had three important expeditions in the field during the year. These were planned in order to gain collections and a better knowledge of the northward extension of the Greater Antillean Flora, of which the Curator is making a special study. In March the Curator proceeded to Miami, Florida, thence to New Providence, Bahama, where he spent six days in the exploration of that island in company with Dr. N. J. Britton, Director of the New York Botanical Garden. Hiring, then, a small sloop, he explored the Joulter Cays and the Bimini Islands (seven in number), and crossing the Gulf Stream, returned via Miami. On the same line of investigation, Mr. O. E. Lansing, Jr., of the department, proceeded in February to Miami, whence he took ship to Key West. He collected on this island, then hiring a sloop, visited and collected on the twenty-five islands of the Marquesas Group. Returning to Key West, he secured passage on the U. S. Government lighthouse tender to the Dry Tortugas Group, and there succeeded in thoroughly collecting on five islands of this farthest western extension of the Florida Keys. In March, Mr. Allan B. Burgess, also of the department, was commissioned to explore the east coast of Florida, from New Smyrna to Miami. He proceeded direct to New Smyrna, collecting there and at Cape Canaveral, Eau Gallie, Fort Pierce, Fort Worth, and West Jupiter, giving attention to the coastal flora only. Field work in the Department of Ornithology has been limited to an expedition to Nicaragua by Mr. George F. Breninger, and numerous short trips to the environs of Chicago by the Assistant Curator. Mr. Breninger's trip was eminently successful, as noted elsewhere. Reference is made elsewhere to the various expeditions conducted by the Department of Anthropology. Mr. Alleyne Ireland, however, completed his work for the department in the British East Indies and in the Malayan Archipelago, and it is gratifying to announce that his mission was highly successful. Mr. Edmund Heller, who was accompanied on this trip by Mr. C. M. Barber, secured much valuable zoological material in southern Mexico.

The following list indicates the various expeditions sent out during the year:

Locality.	Collector.	Material.
Oklahoma,	George A. Dorsey,	Ethnological Collection.
Oklahoma,	George A. Dorsey,	Ethnological Collection.
Northwest Coast of America,	C. F. Newcombe, . . .	Ethnological Collection.
Malay Peninsula,	Alleyne Ireland, . . .	Ethnological Collection.
Nicaragua,	George F. Breninger	Birds and Eggs.
Southern California,	C. L. Owen,	Ethnological Collection.
Arizona,	H. R. Voth,	Ethnological Collection.
Florida Keys,	O. E. Lansing, Jr., . . .	Herbarium Specimens.
Bahamas,	C. F. Millsbaugh, . . .	Photographs and Herbarium Specimens.
Oklahoma,	James Mooney,	Ethnological Collection.
Montana and Wyoming,	Elmer S. Riggs,	Vertebrate Fossils.
Northern California,	J. W. Hudson,	Ethnological Collection.
Western New York,	A. W. Slocum,	Invertebrate Fossils.
East Coast of Florida,	Allan B. Burgess,	Herbarium Specimens.
Southern Mexico,	Edmund Heller and C. M. Barber.	Mammals.

INSTALLATION, REARRANGEMENT, AND PERMANENT IMPROVEMENT.—No appropriation having been made for the construction of cases, there has been comparatively little new installation in any one of the departments. The resources of the Department of Anthropology are taxed to the uttermost to take care of the constantly increasing amount of material which is acquired. The Curator estimates that at the close of this year there will be on hand sufficient material to fill at least five exhibition halls. The scientific arrangement of the department, owing to the lack of floor space, is no longer possible, and the idea of the scientific geographical arrangement must necessarily be abandoned, and future arrangement, therefore, in the present building, will be largely a matter of convenience. Halls 6 and 7 have been overhauled and are now ready for exhibition purposes. The Curator of Geology reports the most extensive rearrangement undertaken was that of Hall 68, where are exhibited clays, soils, etc. As the collection of clays especially had become large and of considerable technical value, a classification was needed by which the collection could be displayed so as to be of general interest. After a study of various classifications, one proposed by Prof. Edward Orton, Jr., was adopted, and the collection rearranged on that basis. The series includes, first, a synoptic collection illustrating varieties of clays and their relations and origins. The classification is indicated in the case by a series



HALL 72. GOLD, SILVER, AND LEAD ORES. DEPARTMENT OF GEOLOGY

LIBRARY
OF THE
UNIVERSITY OF TORONTO

of lines connecting the specimens, after the manner previously employed with much success in the metallurgical collections. Adjoining cases contain specimens of the larger groups of clays, such as fire clays, white-burning clays, red-burning clays, and calcareous clays. These are in turn sub-divided according to localities and varieties. Since the most important uses of clays depend upon the properties of the burnt material, there was prepared from each clay, so far as possible, a burnt briquette about two inches square and one-fourth of an inch thick. These show color and texture of the burnt product, shrinkage, warping, and other important phenomena. They are exhibited in each case in connection with the corresponding clays, thus enabling the properties of the burnt and raw material to be studied at the same time. The number of briquettes prepared for this purpose was 140. Acknowledgments are due Mr. John J. Moroney of Chicago for assistance in their preparation. Occupying another case in the hall are substances allied to clay in composition, including especially ochers, fuller's earths, talcs, and meerschaum. Another collection illustrates the effect of various ingredients upon clays. The collection of soils shown in the same hall has been much improved and enlarged, especially by the addition of a classified series of about forty soils and subsoils donated by the United States Department of Agriculture. With this addition the collection illustrating varieties of soils has become a fairly complete one. The composition of soils, their origin, and plant foods are also illustrated by collections. The collections of sands and cements have not been especially enlarged, since the space available for them is limited at present. In Hall 72, devoted to ores of the precious metals, a complete rearrangement of the upright floor cases has been made in order to provide additional exhibit space and give better lighting of the specimens. This has been accomplished by turning the cases at right angles to their former positions, thus making alcoves in which the material has been installed. A considerable rearrangement of specimens and photographs was performed in connection with this work. A case of abrasives has been added to Hall 78, and an additional large wall case provided in the same hall for exhibiting the series of salts of soda, potash, lime, etc., which had outgrown its former space. The abrasives shown include the extensive series of garnets and corundums collected by the Assistant Curator in the Southern States, and specimens of tripoli, silica, chalk, etc., obtained from various sources. In Hall 64, the interiors of all the wall cases have been painted, and the specimens which occupied them cleaned and reinstalled. A collec-

tion of radioactive minerals, prepared in the Department, was also installed here. This collection contains all known radioactive mineral species so far as they could be procured, and in connection with each specimen is exhibited a radiograph made by the specimen itself upon a photographic plate. Electrical tests of the radioactivity of many of the specimens were also kindly made by Prof. R. A. Millikan of the University of Chicago, giving data which are exhibited in connection with the collection. The series of models of famous diamonds exhibited in the same hall has been increased by the addition of seven important ones not before represented, and the whole series has been reinstalled in an attractive manner. In Hall 65 an individual case has been provided for the large glaciated copper boulder presented by Mr. Joseph Austrian. In connection with the labeling of the systematic rock collection in Hall 66, a careful re-identification of the specimens has been made, and a rearrangement carried out in order to improve the classification. In connection with this work, about twenty sections for microscopic study were made. Several complete rock analyses were also made in the Department laboratory. A number of photographs made by the Curator in Mexico were framed and installed in the hall in connection with the series of volcanic rocks collected at the same time. In Hall 77 a large framed geological map of Japan has been installed, also a transparency of Mont Pelee, presented by Mr. Morris K. Jesup, and four geological photographs loaned by the Curator. The interiors of the cases in Hall 71 have been cleaned and repainted where necessary. New meteorite specimens, as fast as received, were placed on exhibition in Hall 62, and frequent treatment with paraffin has been given all specimens showing a tendency to decompose. About twenty sections of as many stony meteorites were made for purposes of microscopic study. Upon ten of the floor cases in Hall 35 large descriptive labels have been placed. Throughout the paleontological collections, where the beauty or delicacy of structure of a specimen was such as to make it desirable, there have been installed magnifying lenses two inches in diameter and of three-inch focus. About sixty lenses have been so placed, and an increased interest in the study of the collection by visitors is noticeable as a result. In the paleontological laboratory, a considerable amount of time was devoted to the preparation of the incomplete skeleton of the huge dinosaur, *Brachiosaurus*, collected in 1900. The remains were too few in number to be of much value for exhibition purposes, but the great scientific importance of the specimen, due to its being the type of a new family and genus, and the largest known

land animal, seemed to justify a thorough working out of the material on hand. The work was accordingly carried to completion, with results which have been set forth in the scientific publications of the Museum. Seven vertebræ of a Morosaur skeleton collected in 1900 were also worked out, this being a dinosaur whose structure is little known, and one of which the Museum possesses the most complete vertebral column so far found. A skeleton of Procamelus collected in 1898 was also partially prepared for exhibition. A thorough re-assortment of the study collections and duplicate material of all kinds in the Department was made during the year, for the purpose of reducing the space which they occupied, and of classifying the material. Some obsolete material was discarded, and the accessibility of these collections was much increased. For exhibition in connection with the ore collections in Halls 72 and 79, a series of maps has been prepared, upon which are mounted specimens of the ores mined at important producing localities. Relief maps are employed for the purpose, in order to bring out facts of distribution which might otherwise be overlooked. Thus the restriction of profitable gold and silver ores to mountainous regions, and especially the Cordilleras, is shown vividly by these maps, as well as the fact that conditions of transportation, water supply, etc., resulting from relief, often determine whether ores can be profitably worked. Six maps have thus been prepared or are in process of preparation. These illustrate respectively the important gold and silver producing districts of North America, and the important copper, zinc, iron, and oil producing districts of the United States. The Curator of Zoölogy reports that 6 skeletons and 23 large skulls have been placed on exhibition, and 2,505 skulls have been cleaned and placed in the study collection, and 3,340 skulls labeled and recorded.

PRINTING.—The printing office still shows good results. Its capacity should be increased, but floor space is not at present available for an extension in the quarters now occupied. The following table shows the number of label forms and other impressions made during the year:

	Labels.	Other Impressions
Anthropology,	3,352	7,280
Botany,	624	23,893
Geology,	2,496	5,250
Ornithology,	1,300
Zoölogy,	555	66,305
Director's Office,	49,936
Library,	6	5,500

PHOTOGRAPHY AND ILLUSTRATION.—This division has been exceptionally busy throughout the year, and both in the quantity and the quality of the work has made an excellent record. The following is a statement of the work performed:

	Negatives.	Prints.	Lantern Slides.
Director's Office,	51	52	..
Anthropology,	5,306	3,706	..
Botany,	24	180	66
Geology,	212	203	91
Ornithology,	94	100
Zoology,	157	296	29
Distribution,	179	128	207
Totals,	6,023	4,565	493

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

Anthropology,	476
Botany,	84
Geology,	31
	591

SUMMARY OF YEAR'S WORK.

Negatives,	6,023
Prints,	4,565
Lantern Slides,	493
Curator's Negatives,	591
	11,672

ATTENDANCE.—The total number of visitors recorded during the year was 245,125, being a decrease of 50,165 in the figures for the previous year. The daily average showed 668, as against 809. No plausible reason, other than the inclement weather during the winter months, and the omission of the Spring Lecture Course, can be given for the falling off in attendance. A number of eminent and distinguished students of the different sciences have visited the institution during the year, most of whom were en route to the Louisiana Purchase Exposition in St. Louis. Gratifying expressions at the progress of the institution were frequent. The classification of the attendance during the year follows, and a list of the school classes, thirty pupils or more, that visited the institution during the year:

LIST OF CLASSES.

Schools and Location.	Teachers.	Pupils.
Talcott—W. Ohio st., corner Lincoln st.,	1	45
School of Education—University of Chicago,	3	46
River Forest—River Forest, Ill.,	1	32
Talcott—W. Ohio st., corner Lincoln st.,	1	42





HAMATSA COMING OUT OF SECRET ROOM.

Schools and Location.	Teachers	Pages
Hyde Park High—Fifty-sixth st. and Kimbark ave., . . .	1	38
Hyde Park High—Fifty-sixth st. and Kimbark ave., . . .	4	60
Medill—W. Fourteenth pl., near Throop st., . . .	3	73
Sherwood—Princeton ave. and Fifty-seventh st., . . .	2	42
Kenwood—Lake ave., corner Fiftieth st., . . .	1	35
School for Crippled Children—W. Lake and Elizabeth sts., . . .	0	60
Sherwood—Princeton ave. and Fifty-seventh st., . . .	2	37
Myra Bradwell—Sherman ave. and Seventy-seventh st., . . .	1	45
John Marshall—W. Adams st. and Kedzie ave., . . .	2	61
University of Minnesota—Minneapolis, Minnesota, . . .	1	40
Kenwood—Lake ave., corner Fiftieth st., . . .	1	43
Keith—Thirty-fourth and Dearborn sts., . . .	1	33
Normal—Sixty-eighth st. and Stewart ave., . . .	1	41
Hyde Park High—Fifty-sixth st. and Kimbark ave., . . .	4	95
Jackson Park Branch of the Ray—Fifty-sixth st. and Stony Island ave., . . .	2	44
University of Chicago, . . .	1	34
Hyde Park High—Fifty-sixth st. and Kimbark ave., . . .	2	45
Kershaw—Union ave. and W. Sixty-fourth st., . . .	2	66
Normal—Sixty-eighth st. and Stewart ave., . . .	2	60
Englewood High—W. Sixty-second st., corner Stewart ave., . . .	1	116
Chase—Cornelia st. and Point st., . . .	1	35
St. Martin's—W. Fifty-ninth st., corner Princeton ave., . . .	10	273
Hyde Park High—Fifty-sixth st. and Kimbark ave., . . .	2	42
Seymour—Blue Island, Ill., . . .	2	59
Kershaw—Union ave., and W. Sixty-fourth st., . . .	1	34
McClellan—Thirty-fifth and Wallace sts., . . .	1	51
Oliver Goldsmith—210 Maxwell st., . . .	2	46
La Fayette—Hammond, Ind., . . .	2	42
Riverside and Franklin—Hammond, Ind., . . .	10	151
Hyde Park High—Fifty-sixth st. and Kimbark ave., . . .	1	57
J. N. Thorp—Superior ave. and Eighty-ninth st., . . .	1	33
Pullman—Pullman, Ill., . . .	1	37
La Fayette and Central—Hammond, Ind., . . .	5	100
Tilden—W. Lake and Elizabeth sts., . . .	1	50
Thomas Hoyne—Illinois st., corner Cass st., . . .	2	42
J. N. Thorp—Superior ave. and Eighty-ninth st., . . .	1	42
J. N. Thorp—Superior ave. and Eighty-ninth st., . . .	1	37
Kershaw—Union ave. and W. Sixty-fourth st., . . .	2	35
Irving—Berwyn, Ill., . . .	1	32
Kershaw—Union ave. and W. Sixty-fourth st., . . .	2	78
J. N. Thorp—Superior ave. and Eighty-ninth st., . . .	2	60
St. Mary's High—Sixty-seventh st., corner Page st., . . .	9	145
St. Patrick's—Desplaines and W. Adams sts., . . .	4	104
West Pullman—West Pullman, Ill., . . .	2	40
Moseley—Twenty-fourth st. and Michigan ave., . . .	2	58
Baptist Missionary Training School, . . .	1	43
Skinner—Jackson boul., corner Aberdeen st., . . .	2	30
Kershaw—Union ave. and W. Sixty-fourth st., . . .	1	40

Schools and Location.	Teachers.	Pupils.
J. N. Thorp—Superior ave. and Eighty-ninth st.,	1	46
Joseph Jungman—W. Eighteenth and Nutt sts.,	1	33
Normal—Sixty-eighth st. and Stewart ave.,	1	34
W. K. Sullivan—Eighty-third st., corner Houston ave.,	2	68
St. Joseph's Orphan Asylum—Thirty-fifth st., corner Lake ave.	9	160
D. R. Cameron—Potomac ave., corner Monticello ave.,	3	132
J. L. Pickard—W. Twenty-first pl. and S. Oakley ave.,	2	30
Kinzie—Ohio st., corner La Salle ave.,	2	36
Fallon—W. Forty-second st. and Wallace st.,	1	38
Pullman—Pullman, Ill.,	1	35
Taylor—Ninety-ninth st. and Avenue J,	4	210
A. L. Barnard—W. One Hundred and Fourth and Charles sts	1	51
Pullman—Pullman, Ill.,	2	78
Chicago Home for the Friendless—5059 Vincennes ave.,	1	36
Calumet High—W. Eightieth st. and Normal ave.,	5	189
A. A. Libby—W. Fifty-third and Loomis sts.,	2	32
University of Chicago	1	40
St. Patrick's—Ninety-fifth st. and Commercial ave.,	1	123
University of Chicago	3	115
University of Chicago	1	35
Armour Mission—Thirty-third st. and Armour ave.,	72	421
Hyde Park High—Fifty-sixth st. and Kimbark ave.,	2	65
Hyde Park High—Fifty-sixth st. and Kimbark ave.,	2	124

The following comparison between the daily attendance in the year ending September 30, 1903, and the year ending September 30, 1904, is submitted:

	Increase.	Decrease.
Total Attendance,		50,165
Paid Attendance,		4,450
Attendance of School Children on Pay Days		641
Attendance of Students,		249
Attendance of Teachers,		24
Attendance of Members,		41
Average Daily Attendance, 1903,	809	
Average Daily Attendance, 1904,	669	

Herewith are also 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, 1904.

RECEIPTS.

Cash in Treasurer's hands, September 30, 1903,		\$6,623.21
Cash in Treasurer's hands, September 30, 1903 (Special Fund),		1,013.35
Petty Cash on hand, September 30, 1903,		739.95
Dues of Members —		
Corporate	\$140.00	
Annual	2,400.00	2,630.00
Admissions and Check Rooms,		5,057.80
Sale of Guides,		298.25
South Park Commissioners,		15,000.00
Chicago City Railway Company,		2,250.00
Interest on Investments, etc.,		42,966.63
Sundry Receipts,		2,389.23
Huntington W. Jackson, Library Fund,		33.94
Final Dividend on World's Columbian Exposition Stock,		61,209.38
Sale of Securities,		15,000.00
Donations —		
Stanley McCormick (Special),	300.00	
W. J. Chalmers,	6.00	306.00
		<u>156,417.74</u>

DISBURSEMENTS.

Salaries,		\$59,494.86
Guard Service,		11,840.78
Janitor Service,		6,118.07
Fire Protection,		3,023.57
Heat and Light —		
Wages,	\$3,370.42	
Fuel and Supplies,	6,522.94	
Additions to Plant,	1,307.50	11,200.86
<i>Carried forward,</i>		<u>\$91,688.04</u>

	<i>Brought forward,</i>		\$91,688.04
Repairs and Alterations —			
	Wages of carpenters, painters, roofers.	\$7,684.65	
	Material used — paints, oils, lumber, glass, etc.,	1,131.83	8,816.48
Furniture and Fixtures —			
	Cases and Bases,	661.11	
	Sundries,	263.88	924.99
The Library —			
	Books and Periodicals,	626.33	
	Binding,	323.65	
	Sundries,	20.52	970.50
Sections of Printing and Photography,			1,376.75
Collections, etc., purchased,			6,731.00
Departmental Expenses,			3,853.55
Huntington W. Jackson, Library Fund,			981.08
General Expense Account —			
	Freight, Expressage, and Teaming,	1,785.18	
	Stationery, Postage, Telegrams and Telephone,	986.26	
	Expeditions,	9,460.16	
	Publications,	12,345.90	
	Sundries,	1,407.42	25,985.01
			<u>\$141,327.40</u>
In Treasurer's hands, September 30, 1904,		\$14,350.39	
Petty Cash on hand September 30, 1904,		739.95	\$15,090.34
			<u>\$156,417.74</u>

ATTENDANCE AND RECEIPTS FOR THE YEAR ENDING SEPT. 30, 1904.

ATTENDANCE.

Paid Attendance --		
Adults,	19,653	
Children,	1,293	20,946
Free Admission on Pay Days		
School Children,	6,185	
Students,	2,750	
Teachers,	400	
Members --Corporate,	13	
Annual,	170	
Life,	13	
Officers' Families,	10	
Special,	133	6,782
Admissions on Free Days --		
Saturdays,	44,781	
Sundays,	169,616	214,397
Total Attendance,		
	245,125	
Highest Attendance on any day (June 12, 1904),	7,086	
Highest Paid Attendance on any day (July 4, 1904),	583	
Average Daily Admissions (366 days),	669	
Average Paid Admissions (262 days),	79	

RECEIPTS.

Guides sold -- 1,193 at 25 cents each,	\$298.25
Articles checked -- 18,305 at 5 cents each,	915.25
Admissions,	5,042.55
	--
	\$6,256.05

ACCESSIONS.

FROM OCTOBER 1, 1903, TO SEPTEMBER 30, 1904.

DEPARTMENT OF ANTHROPOLOGY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

- AYER, E. E., Chicago.
 1 Malay shield ornamented with hair and inlaid shell.
 1 bronze fibula, 1 bronze bell, 1 bronze lamp, 2 bronze buckles, 1 earthen mould — Italy.
- AYER, MRS. E. E., Chicago.
 String of carnelian, lapiz lazuli, turquoise beads, etc.—Dashur, Egypt.
- BADGER, J. S., Brisbane, Australia.
 3 pieces of ethnological specimens from the Pacific Islands (exchange).
- CORY, CHAS. B., Boston, Mass.
 1 large coiled basket for storing grain — Arizona.
- FIELD COLUMBIAN MUSEUM.
 Collected by Geo. A. Dorsey:
 1 Cheyenne medicine war shield, from Sand Hills battle.
 1 Navaho girl's dress.
 1 Arikara calf robe.
 1 Arikara suit.
 1 pair doctor's leggings (Pawnee).
- Collected by J. W. Hudson:
 Ethnological specimens from Klamath River and Kern and Inyo counties, California.
- Collected by Jas. Mooney:
 Ethnological specimens from the Cheyenne and Arapaho—Oklahoma.
 Shield with cover (buckskin) belonging to High-Back Wolf, a southern Cheyenne.
- Collected by Chas. F. Newcombe:
 Ethnological collections from the Northwest coast.
 Skulls and skeletons of Salish and Kwakiutl.
- Collected by C. L. Owen:
 Ethnological specimens from the Mission Indians—California.
- Collected by S. C. Simms:
 Ethnological specimens from Cree of Canada and Ojibwa of Minnesota.
- Purchases:
 1 papyrus.
 3 carved elephant tusks—Benin.
 Ute shield.
 Sioux war club.
 Bark loin-cloth, Bulu—Africa.
 3 buckskin shirts, Arapaho and Crow.
 Painted ceremonial buffalo robe.
 1 pair medicine man's leggings (Pawnee).
 Carved fish-killing club (Haida).
 2 ceremonial robes—Hopi, Arizona.
 2 decorated ceremonial buffalo robes, Rio Grande, Pueblo—New Mexico.
 Ethnological specimens from Vancouver Islands.
 Archaeological specimens from graves of Arkansas.

LIBRARY
OF THE
UNIVERSITY OF ILLINOIS



- GILL, D. L., Washington, D. C.
400 prints of Cheyenne, Arapaho, Pawnee, Wichita, and Arikara (exchange).
- JAMES, S. L., Chicago.
5 mummies, 5 mummy cases, earthenware, stone carvings, etc.—Egypt.
- MILLS, OWEN W., Millbury, Mass.
75 flaked stone implements and fragments of steatite pots—Millbury, Mass. (exchange).
- MOORE, C. B., Philadelphia, Pa.
15 specimens antiquities from Florida coast.
- PHILLIPS, DR. W. A., Evanston, Ill.
Woven bags, mats and unfinished mats, bark, photographs, etc., of Indians of Michigan.
- SELLERS, F. H., Chicago.
Archæological specimens from Mexico, California, Oregon, etc.
Photographs of Mexican antiquities.
- UMLAUFF, J. F. G., Hamburg, Germany.
One set of photographs of a Maori habitation.
- ZABOULAKIS, J., Chicago.
18 specimens clay tablets, pipes, and boxes, flint and copper arrow heads.

DEPARTMENT OF BOTANY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

- ABAZA, ABDEL HAMID, St. Louis, Mo.
23 specimens various economic plant products—Egypt.
- AMES BOTANICAL LABORATORY, North Easton, Mass.
64 herbarium specimens—South Florida (exchange).
- ARNOLD ARBORETUM, Jamaica Plain, Mass.
41 herbarium specimens—Delaware, New York, Massachusetts (exchange).
- AYER, MRS. E. E., Lake Geneva, Wis.
1 herbarium specimen—Lake Geneva, Wis.
- BEBB, ROBERT, Chicago.
234 herbarium specimens—various localities (exchange).
- BRANDT CHEMICAL COMPANY, Binghamton, N. Y.
19 specimens illustrating the manufacture of distillates from wood.
4 pièces charcoal.
- CALKINS, W. W., Chicago.
1 specimen lichen—Andros Island, Bahamas.
- CANBY, W. M., Wilmington, Del.
25 herbarium specimens—Delaware.
- CHASE, MRS. AGNES, Chicago.
79 herbarium specimens—Illinois, Indiana, and New Hampshire (exchange).
7 herbarium specimens—Illinois, Indiana, and Tennessee (exchange).
4 herbarium specimens—Illinois and Indiana.
1 specimen Buxbaumia—Furnessville, Ind.
- CHASE, V. H., Wady Petra, Ill.
697 herbarium specimens—Illinois (exchange).
- CLARK, H. WALTON, Chicago.
101 herbarium specimens—Lake Chicago Basin.
- DENVER CHAMBER OF COMMERCE, Denver, Colorado.
4 specimens Colorado rubber plant.

FERRISS, JAMES H., Joliet, Ill.

11 herbarium specimens—Texas (exchange).

FIELD COLUMBIAN MUSEUM.

Collated by Mrs. Agnes Chase:

2 portions dried plants—Mexico and Cozumel Island.

Collated by Chas. F. Millspaugh:

27 parts of herbarium specimens—New York Botanical Garden.

2 fragments of herbarium specimens—Bahamas.

12 parts of herbarium specimens—Missouri Botanical Garden.

Collected by Allen B. Burgess:

320 herbarium specimens—Illinois and Michigan.

242 herbarium specimens—Southern Florida.

Collected by O. E. Lansing, Jr.:

676 herbarium specimens—Southern Florida.

Collected by Chas. F. Millspaugh:

476 herbarium specimens—Bahamas.

Purchases:

208 herbarium specimens—Bahamas.

204 herbarium specimens—Oregon.

110 herbarium specimens—Illinois.

137 herbarium specimens—Jamaica.

1 specimen ivory nut fruit, complete—South America.

21,528 herbarium specimens—various localities.

682 herbarium specimens—Palestine.

GREENE, EDWARD L., Washington, D. C.

376 herbarium specimens—Venezuela.

196 herbarium specimens—Bolivia.

177 herbarium specimens—various localities.

174 herbarium specimens—various localities.

145 herbarium specimens—various localities.

142 herbarium specimens—Bolivia.

176 herbarium specimens—Bolivia.

273 herbarium specimens—Bolivia.

270 herbarium specimens—Bolivia.

397 herbarium specimens—various localities.

442 herbarium specimens—various localities.

918 herbarium specimens—various localities.

HARDY, DR. HUGO, St. Louis, Mo.

17 specimens various economic plant products—German East Africa.

HILL, E. J., Chicago.

46 herbarium specimens—Illinois and Michigan (exchange).

HOWE, CLIFTON D., Essex Junction, Vermont.

240 herbarium specimens—Newfoundland and Nova Scotia.

KÖNIGL HOF MUSEUM, Berlin, Germany.

152 herbarium specimens—Yucatan and Mexico (exchange).

12 herbarium specimens—Yucatan and Campeche.

19 herbarium specimens—Yucatan (exchange).

KRUG & URBAN HERBARIUM, Berlin, Germany.

84 herbarium specimens—various localities (exchange).

MAYERHOFF, REV. PAUL S., Fort Apache, Arizona.

4 herbarium specimens—Fort Apache, Arizona.

McDONALD, FRANK E., Peoria, Ill.

56 herbarium specimens—Illinois (exchange).

MILLSPAUGH, CHAS. F., Chicago.

9 herbarium specimens—Chicago.

1 specimen, fruits of *Hicoria alba*.

MUSÉUM D'HISTOIRE NATURELLE, Paris, France.

3 specimens, plant fragments and photograph—Mexico and Martinique.

- NATAL BOTANIC GARDENS**, Berea, Natal, Africa.
111 herbarium specimens—South Africa (exchange).
- NEWCOMBE, CHAS. F.**, Victoria, B. C.
122 herbarium specimens—British Columbia and Queen Charlotte Islands.
1 herbarium specimen—British Columbia.
- NEW YORK BOTANIC GARDEN**, Bronx Park, New York.
2 samples of sugar—Java (exchange).
1,517 herbarium specimens—Jamaica (exchange).
62 herbarium specimens—various localities (exchange).
164 herbarium specimens—Colorado (exchange).
15 photographs of Botanists.
526 herbarium specimens—West Indies (exchange).
159 herbarium specimens—Colorado (exchange).
- OHIO STATE UNIVERSITY**, Columbus, Ohio.
40 specimens fungi exsiccati—Ohio (exchange).
- PACIFIC PINE NEEDLE COMPANY**, San Francisco, Cal.
4 specimens pine needle products.
- PEPOON, DR. H. S.**, Chicago.
2 photographs of plants—Illinois.
- PIERCE, H. J.**, Buffalo, N. Y.
4 specimens of destructive distillates of wood.
- RYERSON, MARTIN A.**, Chicago.
1 specimen, curious root growth—Chicago.
- SCHLECHTER, RUDOLPH**, Berlin, Germany.
1 dried plant, type of *Euphorbia*—South Africa (exchange).
- SECRETARY DEUTSCHER ORIENTGESELLSCHAFT**, Berlin, Germany.
1 specimen ancient wheat—Egypt.
- SNYDER, MRS. MARY S.**, Pacific Beach, Cal.
7 herbarium specimens—California and Sandwich Islands.
- STONE, FRANK B.**, Chicago.
2 specimens of Cuban oak.
- TIBBE, H. & SON**, Washington, Mo.
4 specimens illustrating the manufacture of corncob pipes.
- UNITED RAILWAY & TRADING COMPANY**, Braithwaite, La.
14 specimens bagasse paper and process.
- UNITED STATES NATIONAL MUSEUM**, Washington, D. C.
10 specimens North America violets (exchange).
63 specimens fungi—various localities (exchange).
- WATERBURY BUTTON COMPANY**, Waterbury, Conn.
6 specimens vegetable ivory products.
- WHITFORD, H. N.**, Chicago.
208 herbarium specimens—Long Island, N. Y.

DEPARTMENT OF GEOLOGY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

- AUSTRALIAN MUSEUM**, Sydney, New South Wales.
21 specimens minerals—Australia (exchange).
- AUSTRIAN, JOSEPH**, Chicago.
1 mass of native copper, found near Kalamazoo, Mich., weight 101¼ pounds.
- BAKER, J. E., Garrett**, Ind.
1 specimen peat fiber—Garrett, Ind.
- BEACH, HENRY L.**, Chicago.
1 tooth of mammoth—Big Minook Creek, near Rampart City, Alaska.

- BÖHM, JULIUS, Vienna, Austria.
 145 grams N'Goureyra meteorite, 50½ grams Senhadja meteorite,
 29 grams Girgenti meteorite (exchange).
- BREZINA, DR. A., Vienna, Austria.
 44 grams Nerft meteorite, 156 grams Merceditas meteorite (exchange).
- CALIFORNIA STATE MINING BUREAU, San Francisco, Cal.
 1 specimen nitrous earth, 1 specimen infusorial earth—California.
- CARBORUNDUM COMPANY, Niagara Falls, N. Y.
 2 lbs. metallic silicon.
- CENTRAL SCHOOL SUPPLY HOUSE, Chicago.
 1 relief map of France.
- CHALMERS, W. J., Chicago.
 2 specimens topaz crystals—North Chatham, N. H.
- CHICAGO GRAPHITE MANUFACTURING COMPANY, Chicago.
 1 specimen foliated graphite (disseminated in calcite)—Dillon, Mont
 2 specimens graphite—Mexico and Austria.
- CONNELLY, A. S., Cheyenne, Wyo.
 1 specimen molybdenite—Wyoming.
- DEPARTMENT OF MINES, Sydney, New South Wales.
 292 grams Mt. Dyrning meteorite, 186 grams Mt. Browne meteorite—
 New South Wales (exchange).
- DEXTER, MISS L., Chicago.
 1 specimen chalcedony—Tampa Bay, Florida (exchange).
- DIVEN, THOS. J., Chicago.
 39 specimens garnet crystals—California.
- DOHMEN, U. A., Chicago.
 4 specimens celestite—Put-in-Bay, Lake Erie.
- ELDRIDGE, E. W., Chicago.
 1 specimen molybdenite—Montana.
- ELLIS, E. B., Northfield, Vermont.
 1 slab of Bethel white granite—Northfield, Vermont.
- FARRINGTON, O. C., Chicago.
 1 specimen crystallized beryl—Stoneham, Maine (loan).
 1 specimen radioactive uraninite—Wood Mine, Colorado.
 33 specimens minerals, 8 specimens diamond-bearing gravel—Brazil
 (loan).
 5 photographs (loan).
- FIELD COLUMBIAN MUSEUM.
 Collected by Dr. S. M. Bradbury:
 1 lot agatized bones—Near Fruita, Colo.
 Collected by O. C. Farrington:
 11 specimens minerals, 3 specimens rocks—Maine and Massachusetts.
 36 specimens ores and minerals—St. Louis, Mo.
 Collected by H. W. Nichols:
 27 specimens sand concretions, dune sand soil and subsoil—Spring
 Lake, Mich.
- Purchases:
 1 specimen *Platecarpus*.
 6 relief maps.
 8 specimens crystallized samarskite—Spruce Pine, N. C.
 1 aerolite, weight 1,150 grams, Ness County, Kansas.
 1 slab of dinosaur tracks—Lee's Ferry, Ariz.
 8 mineral specimens.
 Rodeo meteorite—Rodeo, Durango, Mexico.
 85 grams Lance meteorite—Lance, France.
 3 specimens minerals, 2 specimens fossil sponges, 8 specimens fossil
 gastropods, 33 specimens fossil bryozoans, 780 specimens fossil
 brachiopods

FIELD COLUMBIAN MUSEUM—continued.

- Purchases—continued.
 3 specimens fossil crinoids, 20 specimens fossil trilobites -Wisconsin.
 7 models of noted diamonds.
 763 grams Finnmarken meteorite - Norway.
 8 specimens variscite—Utah.
 5 specimens minerals.
- FOHRMAN, CHAS. A., Harvey, Ill.
 1 specimen graphite.—Montana.
- FOOTE MINERAL CO., Philadelphia, Pa.
 1 specimen gypsum crystal, 1 specimen calcite crystal, 3 specimens tellurides of gold and mercury (exchange).
- FORD, H. R. Garrett, Ind.
 1 specimen peat—Garrett, Ind.
- GEOLOGICAL SURVEY OF INDIA, Calcutta, India.
 11 grams Shalka meteorite, 351 grams Sindhri meteorite, 175 grams Kodaikantal meteorite—India (exchange).
- GUION, G. MURRAY, Chicago.
 1 specimen banded novaculite -Hot Springs, Ark.
- HARTWELL, GEO. H., Chicago.
 3 specimens pottery and fire clays—Newport, Ind.
- HARWOOD, A. R., Gonzales, Tex.
 1 specimen kaolin—Gonzales, Texas.
- HEMSHELL, JOHN, Hinsdale, Ill.
 10 boulders, showing various rock structures, 1 specimen concretion, 1 specimen incrustations, 32 specimens fossils.
- HENRY, W., Calais, Me.
 1 specimen molybdenite—Cooper, Maine.
- HUENNEKES, H. CO., New York City.
 1 specimen sand-lime brick—Atlantic City, N. J.
- JESSUP, MORRIS K., New York City.
 1 transparency of Mont Pelee—Mont Pelee, Martinique.
- JOHNSTON, W. M., Chicago.
 1 specimen auriferous beach gravel, 1 specimen tundra—Nome, Alaska.
 18 specimens limonite, pseudomorph after pyrite—Montana.
- JONES, S. P., Atlanta, Ga.
 1 specimen crystallized quartz—Statham, Georgia.
- KEARNEY, W. H., Boise City, Idaho.
 4 specimens mendozite and kalinite, 2 specimens associated alum shale—Utah.
- KENDALL, J. B., Washington, D. C.
 1 specimen cadmium, 1 specimen manganite—Bombay, India.
 1 specimen pyrolusite—Russia.
- KENKEL, L. V., Chicago.
 1 specimen silver-copper ore—Colorado.
 1 specimen silver-lead ore—Washington.
- KUNSTMAN, ROBERT, Chicago.
 1 specimen steatite—Arkansas.
- MAYERHOFF, REV. PAUL S., Lynch, Nebr.
 30 specimens chalcedony chips, 3 specimens oligoclase, 3 specimens smoky quartz, 500 specimens gem peridots, 13 specimens spinel and magnetite—Arizona.
- MITCHELL, GEO. H., Chicago.
 1 block building-stone—Hermon, Maine.

- MORONEY, J. J., Chicago.
 104 specimens dry press briquettes—United States and Mexico.
 1 specimen coal briquette—Tesla, Calif.
 3 specimens clays, 1 specimen pumice—United States.
 1 specimen infusorial earth, 7 specimens clays, 4 specimens briquettes
 —United States and Cuba.
 3 specimens briquettes, 1 specimen clay—United States.
- MORRISON, DONALD S., Onigum, Minn.
 1 specimen calc sinter—Minnesota.
- NORTHWESTERN TERRA-COTTA CO., Chicago.
 7 specimens pottery and fire clays.
- NORTON, E. G., Lockport, Ill.
 1 specimen gold in pyrite—Grass Valley, Calif. (exchange).
- RAIMES & CO., New York City.
 4 specimens siliceous chalk and products—Austria.
- RICHARDSON, E., Chicago.
 9 specimens abrasives and minerals.
- ROHWEDDER, F., Chicago.
 1 specimen lodestone—Ironton, Mo.
- SCOTT, GEO. S., Chicago.
 6 specimens kunzite—Pala, California (exchange).
 1 specimen natrolite—Bohemia (exchange).
- SELLERS, FRANK H., Chicago.
 4 specimens fossil bones, 14 specimens fossil teeth, 13 specimens min-
 erals.
- SICKLER, F. M. AND M. M., Pala, California.
 1 specimen crystallized beryl, 3 specimens triplite, 2 specimens ambly
 gonite, 6 specimens quartz crystals—Pala, California.
- SNYDER, FRED T., Oak Park, Ill.
 1 specimen columbite sand, 1 specimen monazite sand—New Mexico-
- STURTZ, B., Bonn, Germany.
 108 grams Plymouth meteorite (exchange).
 184.7 grams Fisher meteorite (exchange).
- UNITED STATES DEPARTMENT OF AGRICULTURE, Washington, D. C.
 41 specimens typical soils and sub-soils.—United States.
- WARD, HENRY A., Chicago.
 218 grams Canyon City meteorite, 136 grams Hvittis meteorite, 50½
 grams Indarch meteorite, 7 grams Djati-Pengilon meteorite, 50
 grams Utrecht meteorite, 5 grams Nowo-Urei meteorite, 10½
 grams Manbhoom meteorite, 1 gram Agra meteorite, 17 grams
 Futtchpur meteorite, 1,494 grams Willamette meteorite (ex-
 change).
- WARNKE, F. H., Karnes City, Texas.
 2 specimens volcanic ash—Texas.
- WATTS, MRS. FLORENCE, Senoia, Ga.
 2 specimens massive garnet, 1 specimen weathered serpentine—Senoia,
 Ga.
- WEBER, DR. F. C., Chicago.
 1 specimen copper ore—Prince of Wales Island.
- WILLARD, NORMAN P., Chicago.
 1 specimen copper-platinum ore—Wyoming.
 8 specimens copper ore—Wisconsin.



COLLECTION OF RADIO-ACTIVE MINERALS. DEPARTMENT OF GEOLOGY.

UNIVERSITY OF ILLINOIS

DEPARTMENT OF ORNITHOLOGY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

- DEWEY, CLARENCE L., Chicago.
56 birds' eggs—Dowagiac, Mich.
- FIELD COLUMBIAN MUSEUM.
Collected by Geo. F. Breninger:
33 bird skins—Phoenix, Ariz.
424 bird skins, 4 birds' eggs—Nicaragua.
14 bird skins—Arizona.
Collected by N. Dearborn:
147 bird skins, 7 birds' nests, 230 birds' eggs—Chicago.
Collected by E. Heller:
55 bird skins—Achtal, Mexico.
13 bird skins—Oaxaca, Mexico.
3 bird skins—Oaxaca, Mexico.
72 bird skins—Mexico.
Purchases:
2 old-squaw ducks—Chicago.
18 bird skins—Cameroons, W. Africa.
1 arctic loon, 1 allied shearwater, 1 muscovy duck, 1 great snipe.
- FISCHER, J. E., Chicago.
1 ruffed grouse—Central Wisconsin.
- FRASER, REV. MELVIN, Clifton Springs, N. Y.
1 gray parrot—Cameroons, W. Africa.
- GAMMELL, ROBERT E., Chicago.
1 nest of blue-gray gnatcatcher—Chicago.
- HENDRICKS, GENEVIEVE, Chicago.
1 oven-bird—Chicago.
- KENNICOTT, WALTER, AND JOHN DEARLOVE, The Grove, Ill.
2 pine grosbeaks—The Grove, Ill.
- PRAY, L. L., Chicago.
1 barred owl—Dowagiac, Mich.
- SHIRLAW, MARGARET, Chicago.
2 eggs of Panama parrot.
- TIEARNEY, CHAS. J., Chicago.
1 fish duck—Chicago.
- WHITMAN, C. O., Chicago.
1 crested pigeon.
1 oriental turtle dove.
- WILLIAMSON, D. K., Bluffton, Ind.
183 bird skins—Indiana and Ohio.

DEPARTMENT OF ZOOLOGY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

- BARBER, C. M., Chicago.
1 rabbit, 1 musk rat, 1 wood-rat, 2 squirrels, 1 flying squirrel, 1 chipmunk, 3 shrews, 5 mice, 6 voles—Laporte, Ind.
- CLARK, H. W., Chicago.
1 bat—Chicago.
7 specimens beetles, water bugs, butterfly—Chicago and Wolf Lake, Ill.
- CROWTHER, MRS. H. H., Chicago.
1 beetle—Akron, Ohio.
1 fly, 1 horn-tail, 1 cricket—Chicago, Ill.

DOHMEN, U. A., Chicago.

4 flies, 3 beetles—Chicago.

FIELD COLUMBIAN MUSEUM.

Collected by W. J. Gerhard:

120 specimens parasites, bugs, beetles, plant-lice, spiders, flies, moths, etc.—Chicago, Ill.

210 specimens bees, wasps, thrips, grasshoppers, moths, flies, etc.—Illinois.

Collected by E. Heller:

53 specimens lizards, 21 specimens snakes—California.

504 specimens gophers, wood-rats, squirrels, mice, ground squirrels, voles, chipmunks, bats, weasels, hares, polecats, rabbits, shrews, jack-rabbits, etc.—California.

28 specimens woodchucks, foxes, deer, badger, wolves, porcupine, wolverine—California.

7 bats—California.

159 specimens wood-rats, mice, pocket mice, shrews, rabbits, skunk, ground squirrels, gophers, voles, chipmunks, badger—California.

2 antelope, 23 bats—California.

13 bats—California.

320 specimens gophers, opossums, squirrels, mink, mice, rats, bats, tapirs, monkeys, agouti, ocelots, jaguar, ant bear, skunk, coon, deer, porcupine, peccary—Mexico.

159 specimens peccaries, opossums, deer, wolves, foxes, squirrels, bats, rabbits, coati—Mexico.

101 specimens toads, lizards, fishes, snakes—Mexico.

131 specimens skunks, opossums, fox, rabbits, bats, coati, mice, rats—Mexico.

117 specimens mice, rabbits, weasel, gophers, rats—Texas and Mexico.

118 specimens lizards, snakes, toads—Mexico.

6 specimens fishes—Durango, Mexico.

130 specimens squirrels, rabbits, gophers, rats, chipmunks, mice, weasel, opossum, deer, peccaries, coyote, foxes, wildcats, skunks, and small rodents—Mexico.

Collected by O. E. Lansing, Jr.:

2 shells—Dry Tortugas, Fla.

Collected by S. E. Meek:

520 specimens (57 species) sea-shells—Mexico.

2 garter snakes—Palos Springs, Ill.

2 water-bugs—Mexico.

Purchases:

5 ground squirrels, 3 wood-rats, 1 mouse.

10 marten skins—Alaska.

1 cross fox skin—Newfoundland.

11 skunks, 2 muskrats—Green Bay, Wis.

20 specimens grasshoppers—Nevada.

1 rabbit—Minnesota.

5 musk ox skins—Arctic America.

112 specimens (9 species) land-shells—Missouri.

513 specimens (38 species) land and fresh-water shells—Maine.

1 wolf skin—Mankato, Minn.

87 specimens rabbits, bats, squirrels, rats, wild pigs, ant-eaters, foxes, grisons, monkeys, etc.—Colombia, S. A.

35 specimens grasshoppers—various localities.

19 specimens butterflies—Nicaragua.

227 specimens flies—Nevada, California, and Nicaragua.

503 specimens beetles—Colorado, Nevada, California, and Nicaragua.

1 mountain sheep skin.

5,973 specimens butterflies and moths—various localities.

1 blue wolf, 2 cross foxes, 5 sable—Newfoundland and mouth of McKinzie River.

1 silver fox skin—Alaska.

- GALETTI, G., Chicago.
1 pig-tailed baboon—Sumatra.
1 drill—West Africa.
1 baboon.
- GARDNER, JAMES P., Chicago.
1 sand cricket—Coronado, Calif.
- GERHARD, W. J., Chicago.
1 snake.
1 house snake—Beverly Hills, Ill.
1 striped lizard, 1 cricket frog—Clark, Ind.
- GILL, G. M., Racine, Wis.
1 parasite—Racine, Wis.
- HYMAN, SAMUEL, Chicago.
1 sea-horse (fish) —Mediterranean.
- JOHNSON, F. A., AND E. M. ASHCRAFT, Chicago.
4 grizzly bears.
1 brown bear.
- KENKEL, L. V., Chicago.
10 specimens wasp, beetles, grasshoppers, cockroach—Illinois and Michigan.
- KENNEDY, VERNON SHAW, Chicago.
6 caribou skins and skulls—Newfoundland
- LARKIN, T. J., Chicago.
1 parasite—Chicago.
- LUTZ, F. E., Chicago.
4 mice.
- MANN, WILLIAM, Staunton, Va.
17 snakes—Chicago.
2 bugs, 1 fly—River Forest, Ill.
10 beetles—Chicago.
- MCCREA, W. S., Chicago.
1 alligator garpike—Arkansas.
- MILLSPAUGH, CHAS. H., Chicago.
2 beetles—Chicago.
- MUCKERMANN, REV. H. J., Prairie du Chien, Wis.
44 beetles—Wisconsin.
- NEWCOMBE, CHAS. F., Victoria, B. C.
7 mammal skulls—Queen Charlotte Islands, B. C.
- NICHOLS, H. W., Chicago.
6 moths, 3 beetles—Chicago.
- PRAY, L. L., Chicago.
1 beetle—Chicago.
- ROEHRIG, DR. G. E., Chicago.
1 snake—Kentucky.
- ROMANO, JOSEPH, Chicago.
1 dragonfly, 1 moth—Chicago.
- SANDERS, J. G., Columbus, Ohio.
10 species scale insects—Ohio.
- SCHUBERT, A., Chicago.
3 muskrat skins.
- STEPHENSON, F. M., Menominee, Wis.
1 deer—Vera Cruz, Mexico.
- TAVERNIER, P. A., Chicago.
1 beetle—Muskoka Lake, Ontario.
- TIEMAN, B., Chicago.
1 fly—Chicago.

- TOMPSON, A. J., Chicago.
 1 bat—Chicago.
- UNITED STATES FISH COMMISSION, Washington, D. C.
 1 specimen fish—Hawaiian Islands (exchange).
- UNITED STATES NATIONAL MUSEUM, Washington, D. C.
 34 specimens fishes—various localities (exchange).
 3 specimens fishes—Tepic, Mexico (loan).
- WILLIAMSON, E. B., Bluffton, Ind.
 6 specimens moles, squirrels, flying squirrels, opossum
- WOLCOTT, A. B., Chicago.
 1 grasshopper, 2 scorpion flies—Bowmanville, Ill.

SECTION OF PHOTOGRAPHY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

FIELD COLUMBIAN MUSEUM.

Made by C. H. Carpenter:

- 3 negatives of views in Japanese Garden—World's Fair, St. Louis, Mo.
 5 lantern slides of views in Japanese Garden—World's Fair, St. Louis.

Mo.

- 3 lantern slides Jamaica, the Princess of the Antilles.
 28 lantern slides "Wild Flowers" of the Chicago Basin.
 5,280 negatives of Indians and Foreign Aliens—World's Fair, St.

Louis, Mo.

Made by C. F. Millspaugh:

- 2 negatives of views in Japanese Garden—World's Fair, St. Louis, Mo.
 72 negatives of landscapes, etc.—Bahama Islands.

Made by C. L. Owen:

- 297 negatives of Arizona Indians, etc.

Made by S. C. Simms:

- 36 negatives of Cree, Chippeway, and Blackfoot Indians—Canada and Minnesota.

Purchases:

- 35 lantern slides, Wild Flowers of Minnesota.
 2 lantern slides, Wild Flowers of the Chicago Basin.
 11 photographs of buffalo—Montana.

THE LIBRARY.

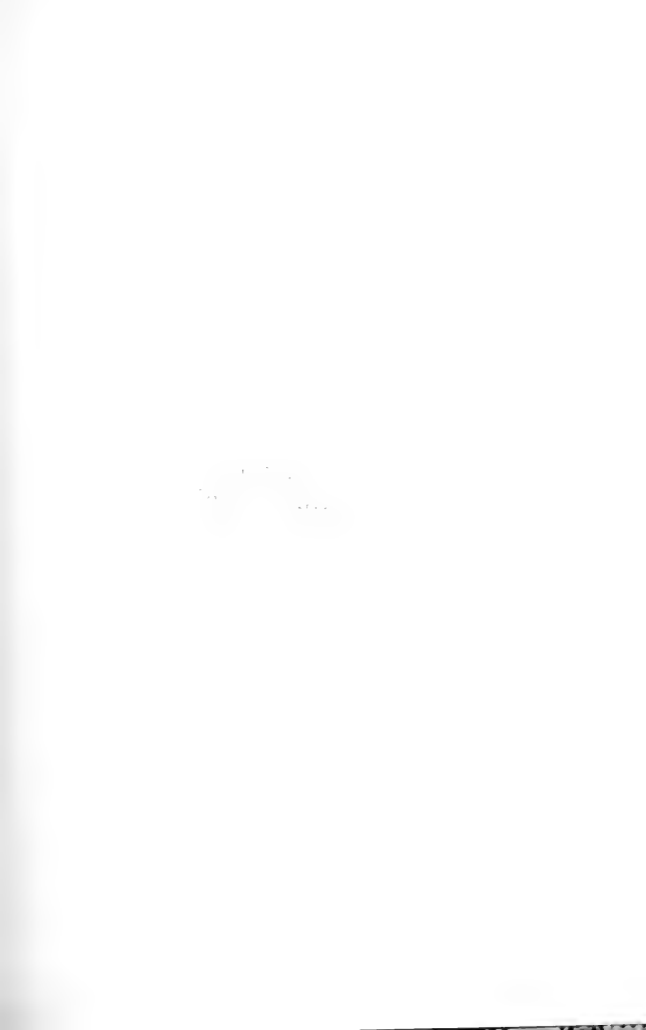
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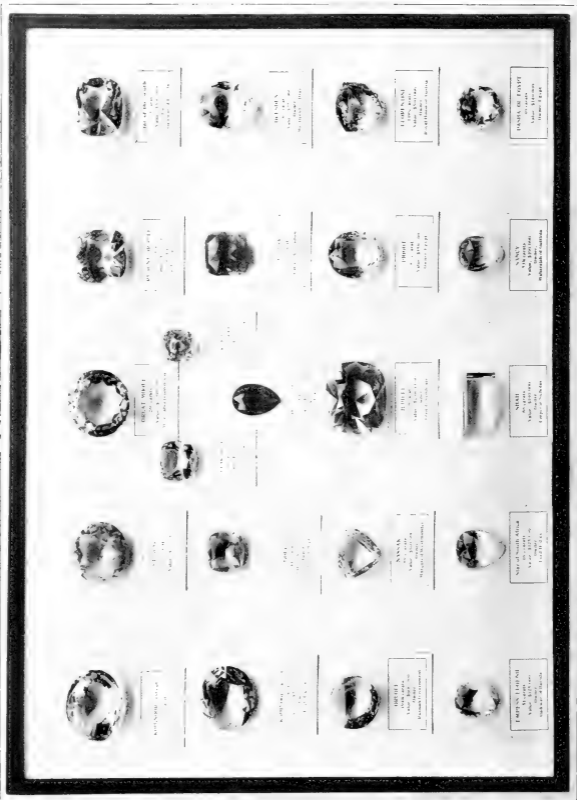
BOOKS, PAMPHLETS, AND SERIALS.

- ACIREALE. REALE ACCADEMIA DI SCIENZE, Acireale, Italy.
 Rendiconto e memoire, ser. 3, v. 2, 1903.
- ADAMS, CHAS. C., Ann Arbor, Mich.
 1 pamphlet.
- ALABAMA AGRICULTURAL EXPERIMENT STATION, Auburn, Ala.
 Bulletin, current numbers.
- ALBANY MUSEUM, Grahamstown, Cape Colony.
 Records of the Albany Museum, v. 1, pt. 2.
- ALFARO, ANASTASIO, San Jose, Costa Rica.
 15 reprints.
- AMBROSETTI, JUAN B., Buenos Ayres, Argentina.
 4 pamphlets.

- AMERICAN ACADEMY OF ARTS AND SCIENCES, Boston, Mass.
Memoirs, v. 13, no. 1.
Proceedings, current numbers.
- AMERICAN ANTIQUARIAN SOCIETY, Worcester, Mass.
Proceedings, v. 16, pt. 1.
- AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE
Washington, D. C.
Proceedings, 52d meeting (gift).
- AMERICAN CHEMICAL JOURNAL PUBLISHING COMPANY, Baltimore,
Md.
Journal, current numbers.
- AMERICAN FOLK-LORE SOCIETY, Cambridge, Mass.
Journal, current numbers.
- AMERICAN INSTITUTE OF HOMŒOPATHY, New York City.
Transactions, 1903.
- AMERICAN INVENTOR PUBLISHING COMPANY, New York City.
American inventor, current numbers.
- AMERICAN JOURNAL OF PHARMACY, Philadelphia, Pa.
Journal, current numbers (gift)
- AMERICAN MUSEUM OF NATURAL HISTORY, New York City.
Annual report, 1903.
Bulletin, v. 17, nos. 1-2; v. 18, no. 2; v. 19.
Memoirs, anthropology, v. 1, pt. 8; v. 3, pts. 2-4; v. 6, pt. 1.
- AMERICAN NUMISMATIC AND ARCHEOLOGICAL SOCIETY, New York
City.
Proceedings and papers, 46th annual meeting.
- AMERICAN ORIENTAL SOCIETY, New Haven, Conn.
Journal, v. 24, pts. 1-2; v. 25, pt. 1.
- AMERICAN PHILOSOPHICAL SOCIETY, Philadelphia, Pa.
Proceedings, v. 42.
- AMERICAN SOAP JOURNAL, Milwaukee, Wis.
Journal, current numbers (gift).
- AMERICAN SOCIETY OF NATURALISTS, Baltimore, Md.
Records, v. 2, pt. 6.
- AMES BOTANICAL LABORATORY, Easton, Mass.
Contributions from the Ames Botanical Laboratory.
- AMSTERDAM. ROYAL ACADEMY OF SCIENCES, Amsterdam, Germany.
Proceedings, section of science, v. 5.
Verhandelingen, v. 9, nos. 4-9.
Zittingsverslagen, v. 11.
- AMSTERDAM. UNIVERSITY LIBRARY, Amsterdam, Netherlands.
Catalogus der handschriften, pt. 3.
7 inaugural dissertations.
- ANDOVER THEOLOGICAL SEMINARY, Andover, Mass.
Catalogue, 1903-04.
Views of the seminary.
- ANGERS. SOCIÉTÉ D'ÉTUDE SCIENTIFIQUE, Angers, France.
Bulletin, 1903.
- ANNALES DES MINES, Paris, France.
Annales, current numbers.
- ANTHROPOLOGICAL INSTITUTE OF GREAT BRITAIN AND IRELAND,
London, England.
Journal, current numbers.
- ARCHITECTS' AND BUILDERS' MAGAZINE COMPANY, New York City.
Magazine, current numbers.

- ARGENTINA. INSTITUTO GEOGRAFICO, Buenos Aires, Argentina.
Boletin, v. 22, nos. 1-6.
- ARIZONA UNIVERSITY, Tucson, Arizona.
Annual report, agricultural experiment station, 14th.
Bulletin, current numbers.
- ARMOUR INSTITUTE OF TECHNOLOGY, Chicago, Illinois.
Yearbook, 1904-1905.
- ARTHUR, J. C., Lafayette, Indiana.
4 reprints.
- ASIATIC SOCIETY OF BENGAL, Calcutta, India.
Journal, current numbers.
Proceedings, current numbers.
- ASSOCIATION OF ENGINEERING SOCIETIES, Philadelphia, Pa.
Journal, current numbers.
- ATCHISON, TOPEKA AND SANTA FE RAILWAY, Chicago, Illinois.
Indians of the southwest, by George A. Dorsey (gift).
- AUSTRALIAN MUSEUM, Sydney, New South Wales.
Memoirs, v. 4, nos. 5-7.
Records, v. 4, no. 8; v. 5, nos. 1-3.
Report of the trustees, 1902.
Special catalogue, v. 1, no. 4.
- AUTOMOBILE REVIEW PUBLISHING COMPANY, Chicago, Illinois.
Automobile review, current numbers.
- BASEL. NATURFORSCHENDE GESELLSCHAFT, Basel, Switzerland.
Verhandlungen, v. 13, pt. 1; v. 15, nos. 1-2.
- BELOIT COLLEGE, Beloit, Wis.
Catalogue, 1903-04.
- BERGENS MUSEUM, Bergens, Norway.
Aarbog, 1903; 1904, pt. 1.
Aarsberetning, 1903.
Crustacea of Norway, v. 5, pts. 3-4.
- BERLIN. GESELLSCHAFT FUR ERDKUNDE, Berlin, Germany.
Bibliotheca geographica, v. 9.
Verhandlungen, current numbers.
Zeitschrift, current numbers.
- BERLIN. KONIGLICHE BIBLIOTHEK, Berlin, Germany.
Jahres-verzeichniss, v. 18.
- BERLIN. K. BOTANISCHER GARTEN UND MUSEUM, Berlin, Germany.
Notizblatt, v. 4, nos. 31-34.
Appendices, 8 and 10.
- BERLIN. K. MUSEUM FUR VOLKERKUNDE, Berlin, Germany.
Ethnologisches notizblatt, current numbers.
- BERLIN. K. PREUSSISCHE AKADEMIE DER WISSENSCHAFTEN, Berlin, Germany.
Sitzungsberichte, current numbers.
- BERLIN. ZOOLOGISCHES MUSEUM, Berlin, Germany.
Bericht, 1902.
Führer, 11th edition.
Mitteilungen, v. 2, no. 3.
2 pamphlets.
- BERLINER GESELLSCHAFT FUR ANTHROPOLOGIE, Berlin, Germany
Zeitschrift fur ethnologie, current numbers.
- BERN. HOCHSCHULE BIBLIOTHEK, Bern, Switzerland.
39 inaugural dissertations.





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- BERNICE PAUHI BISHOP MUSEUM**, Honolulu, H. I.
 Fauna Hawaiiensis, v. 1, pt. 4.
 Memoirs, v. 3, pt. 4.
 Occasional papers, v. 2, nos. 1-2.
- BLACK DIAMOND COMPANY**, Chicago, Ill.
 Black diamond, current numbers (gift).
- BLAKE**, W. P., Tucson, Arizona.
 4 reprints.
- BOHEMIA. ROYAL MUSEUM**, Prague, Bohemia.
 Archiv der naturwissenschaftlichen landesdurchforschung, v. 10, nos. 1-5; v. 11, nos. 1-4, 6, with 2 maps; v. 12, no. 6.
- BOLTON**, H., Bristol, England.
 1 reprint.
- BOMBAY. DEPARTMENT OF LAND RECORDS AND AGRICULTURE**,
 Bombay, India.
 Bulletin, no. 22.
- BORDEAUX. SOCIÉTÉ LINNÉENNE**, Bordeaux, France.
 Proces-verbaux, 1903.
- BOSTON BOOK COMPANY**, Boston, Mass.
 Bulletin, v. 3, nos. 7-10.
- BOSTON MUSEUM OF FINE ARTS**, Boston, Mass.
 Annual report, 1903.
- BOSTON NORMAL SCHOOL OF GYMNASTICS**, Boston, Mass.
 Catalogue, 1902-03 (gift).
- BOSTON PUBLIC LIBRARY**, Boston, Mass.
 Annual report, 1902-03; 1903-04.
 Annual list of books, 1902-03.
 Bulletin, current numbers.
- BOSTON SOCIETY OF NATURAL HISTORY**, Boston, Mass.
 Proceedings, current numbers.
- BOSTON TRANSIT COMMISSION**, Boston, Mass.
 Annual report, 9th.
- BOSTON UNIVERSITY**, Boston, Mass.
 Yearbook, v. 31.
- BOULITCHOV, NICOLAS DE**, St. Petersburg, Russia.
 Antiquities de la Russie Orientale.
 Les rives de L'Oka.
 Kourgans et gorodietz.
- BOWDOIN COLLEGE**, Brunswick, Maine.
 Dedication of Hubbard Hall, 1903.
 Catalogue, 1903-04.
- BRESLAU. ROYAL AND UNIVERSITY LIBRARY**, Breslau, Germany.
 Bericht, 1903.
 Chronik, 1903.
 Verzeichniss der vorlesungen, 1903-04.
 32 pamphlets.
- BRISTOL MUSEUM AND REFERENCE LIBRARY**, Bristol, England.
 Report of the museum committee, 1902-03.
- BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE**, London, England.
 Report, 1903.
- BRITISH COLUMBIA. BUREAU OF MINES**, Victoria, B. C.
 Annual report, 1903.
- BRITISH COLUMBIA. GOVERNMENT PRINTING OFFICE**, Victoria, B. C.
 Statutes of British Columbia, 1903-04.

- BRITISH GUIANA. ROYAL AGRICULTURAL AND COMMERCIAL SOCIETY, Georgetown, B. G.
Journal, vs. 3-5, 8-12, 1884-1902.
- BRITISH MUSEUM (NATURAL HISTORY), London, England.
Catalogue of birds' eggs, vs. 1-3.
Hand list of birds, v. 4.
Library catalogue, v. 1, A-D.
Return, 1903, 1904.
- BROOKLYN INSTITUTE OF ARTS AND SCIENCES, Brooklyn, N. Y.
Yearbook, 15th, 1902-03.
Memoirs of natural sciences, v. 1, no. 1.
Children's museum news, nos. 1-3.
Prospectus, 1904-05.
- BROOM, R., Steltenbosch, South Africa.
7 reprints (gift).
- BRUXELLES. ACADÉMIE ROYALE DES SCIENCES DE BELGIQUE, Bruxelles, Belgium.
Annuaire, 1904.
Bulletin, current numbers.
- BRUXELLES. INSTITUT GEOGRAPHIQUE, Bruxelles, Belgium.
Publication, no. 9.
- BRUXELLES. JARDIN BOTANIQUE DE L'ÉTAT, Bruxelles, Belgium.
Bulletin, v. 1, nos. 1-4.
- BRUXELLES. MUSÉE ROYALE D'HISTOIRE NATURELLE DE BELGIQUE, Bruxelles, Belgium.
Extrait des Mémoires, v. 1.
- BRUXELLES. SOCIÉTÉ D'ARCHEOLOGIE, Bruxelles, Belgium.
Annales, vs. 17-18.
- BRUXELLES. SOCIÉTÉ ROYALE LINNÉENNE, Bruxelles, Belgium.
Bulletin, current numbers.
- BRYN MAWR COLLEGE, Bryn Mawr, Pa.
Monographs, v. 1, nos. 3-4 (reprint series).
Program 1904-05.
Program, graduate courses, 1904.
- BUCKING, H., Strassburg, Germany.
3 pamphlets.
- BUENOS AIRES. MUSEO NACIONAL, Buenos Aires, Argentina.
Anales, ser. 3, v. 2.
- BUFFALO PUBLIC LIBRARY, Buffalo, N. Y.
Annual report, 7th, 1903.
- BUFFALO SOCIETY OF NATURAL HISTORY, Buffalo, N. Y.
Bulletin, v. 8, nos. 1-3.
- CALCUTTA. ROYAL BOTANIC GARDEN, Calcutta, India.
Annual report of the Garden, 1902-03; 1903-04.
Annual report of the Government Cinchona plantation in Sikkim, 1901-02; 1902-03.
- CALIFORNIA ACADEMY OF SCIENCES, San Francisco, Cal.
Constitution and by-laws, 1904.
Memoirs, v. 2, nos. 1-2, 4-5; v. 4.
Proceedings, current numbers.
- CALIFORNIA AGRICULTURAL EXPERIMENT STATION, Berkeley, Cal.
Bulletin, current numbers.
Report, 1897-98; 1901-03.
- CALIFORNIA STATE LIBRARY, Sacramento, Cal.
Descriptive list of the libraries of California.
- CALIFORNIA STATE MINING BUREAU, Sacramento, Cal.
Bulletin no. 27.

- CALIFORNIA UNIVERSITY. DEPARTMENT OF ANTHROPOLOGY.
AFFILIATED COLLEGES, San Francisco, Cal.
Publications: American archeology and ethnology, v. 1, 2, nos. 1-3.
The book of the life of the ancient Mexicans, pt. 1: Zelia Nuttall.
- CALIFORNIA UNIVERSITY, Berkeley, Cal.
Bulletin, department of geology, v. 3, nos. 6-22.
Publications: Botany, v. 2, no. 1.
Pathology, v. 1, nos. 1-37.
Physiology, v. 1, nos. 3-22.
Zoology, no. 6.
University chronicle, v. 6, nos. 3-4.
- CAMBRIDGE ANTIQUARIAN SOCIETY, Cambridge, England.
Proceedings, n. s. v. 70, no. 4.
- CAMBRIDGE PUBLIC LIBRARY, Cambridge, Mass.
Annual report, 1903.
Bulletin, current numbers.
- CAMBRIDGE UNIVERSITY, Cambridge, England.
Reports of the Cambridge anthropological expedition to Torres Straits,
v. 5.
Museums and lecture room syndicate report, 1903.
- CAMPINAS. CENTRO DE CIÊNCIAS, LETRAS, E ARTES, Campinas,
Sao Paulo, Brazil.
Revista, nos. 3-7.
- CANADA. DEPARTMENT OF MARINE AND FISHERIES, Ottawa, Canada.
Annual report, 35th.
- CANADA. DEPARTMENT OF THE INTERIOR, Ottawa, Canada.
Geological Survey:
Altitudes in Canada, with map.
Catalogue of Canadian birds, pts. 1-2.
Catalogue of Canadian plants, pt. 2.
Dictionary of altitudes in Canada.
Geological sheets, nos. 42-48, 56-58; 4 maps.
- CANADA. ROYAL SOCIETY OF CANADA, Ottawa, Canada.
Proceedings and transactions, v. 8, 1902; v. 9, 1903.
- CANADIAN INSTITUTE, Toronto, Canada.
Transactions, v. 7, pt. 3.
- CAPE OF GOOD HOPE. GEOLOGICAL COMMISSION, Cape Town, S.
Africa.
Annual report, 1901-03.
- CARD, G. W., Sydney, New South Wales.
Mineralogical notes, no. 8.
- CARNEGIE INSTITUTE. DEPARTMENT OF FINE ARTS, Pittsburgh, Pa.
Annual report, 7th, 1903; 8th, 1904.
Catalogue eighth annual exhibition.
- CARNEGIE INSTITUTION OF WASHINGTON, Washington, D. C.
Yearbook, 1902-1903.
Desert Botanical Laboratory, by Corille, T. V. and Macdougall, D. T.
- CARNEGIE LIBRARY OF PITTSBURGH, Pittsburgh, Pa.
Annual report, 8th.
- CARNEGIE MUSEUM, Pittsburgh, Pa.
Annals, v. 2, nos. 2-4.
Founder's Day, 1903.
Memoirs, v. 1, no. 4; v. 2, no. 1.
Prize essay contest, 1903.
Report, 1903-04.
- CARPENTER, G. H., Dublin, Ireland.
Irish naturalist, current numbers.
- CATHOLIC UNIVERSITY OF AMERICA, Washington, D. C.
Bulletin, current numbers.
Yearbook, 1904-05.
1 dissertation.

- CHARLEVILLE. SOCIÉTÉ D'HISTOIRE NATURELLE DES ARDENNES, Charleville, France.
Bulletin, vs. 6-8.
- CHAVERO, ALFREDO, Mexico, Mexico.
Apuntes viejos de bibliografía Mexicana.
1 pamphlet.
- CHICAGO ART INSTITUTE, Chicago, Ill.
Annual report, 24th, 1902-03.
12 catalogues.
- CHICAGO HISTORICAL SOCIETY, Chicago, Ill.
Annual report, 1903-04.
- CHICAGO. JOURNAL OF GEOGRAPHY, Chicago, Ill.
Journal, current numbers.
- CHICAGO PUBLIC LIBRARY, Chicago, Ill.
Annual report, 31st, 1902-03.
Bulletin, nos. 62-64, 66.
Finding lists, eighth edition, geography and travels.
Special bulletin, no. 4.
- CHICAGO UNIVERSITY, Chicago, Ill.
Botanical gazette, current numbers.
Decennial publications, ser. 1, vs. 1-4, 6-10.
General register, 1892-1902.
Journal of geology, current numbers.
Register, 1903-04.
36 doctors' theses.
4 reprints.
- CHICKERING & SONS, Boston, Mass.
1 pamphlet (gift).
- CHRISTIANIA UNIVERSITY. MINERALOGICAL INSTITUTE, Christiania, Norway.
Norges geologiske undersogelses publications, vs. 1-34, 36.
- CINCINNATI MUSEUM ASSOCIATION, Cincinnati, Ohio.
Annual report, 23d.
Annual exhibition of American art, 11th.
- CINCINNATI NATURAL HISTORY SOCIETY, Cincinnati, Ohio.
Journal, v. 20, no. 4.
- CINCINNATI PUBLIC LIBRARY, Cincinnati, Ohio.
Annual list of books, 1903.
Annual report, 1903.
Library leaflet, current numbers.
Quarterly bulletin, current numbers.
- CLAUSTHAL. KONIGLICHE BERGAKADEMIE, Clausthal, Germany.
Programme, 1903-04, 1904-05.
1 pamphlet.
- CLEVELAND PUBLIC LIBRARY, Cleveland, Ohio.
Annual report, 32d-35th, 1900-03.
Open shelf, current numbers.
- COHEN, EMIL, Griefswald, Germany.
Uber meteoroeisen von De Sotoville, with three other pamphlets.
- COIMBRA. BIBLIOTHECAS E ARCHIVOS NACIONALES, Coimbra, Portugal.
Boletin, 1902, nos. 1-4; 1903, nos. 1-3.
- COLBY COLLEGE, Waterville, Maine.
Catalogue, 1903-04.
- COLLIERY ENGINEER COMPANY, Scranton, Pa.
Mines and minerals, current numbers.

- COLLINGE, WALTER E., Birmingham, England.
2 reprints.
- COLUMBIA. OFICINA DE HISTORIA NATURAL, Bogota, Columbia.
Seccion de biologia trabajos, no. 1.
- COLOMBO MUSEUM, Colombo, Ceylon.
Catalogue of the library.
Spolia zeylanica, vs. 1-2, nos. 1-6.
- COLORADO COLLEGE, Colorado Springs, Colo.
Studies, science ser. nos. 30-32.
- COLORADO SCIENTIFIC SOCIETY, Denver, Colo.
Proceedings, current numbers.
- COLORADO STATE AGRICULTURAL COLLEGE, Fort Collins, Idaho.
Bulletin, current numbers.
Catalogue, 1903-04.
- COLORADO STATE BUREAU OF MINES, Denver, Colo.
Bulletin, no. 5.
- COLORADO UNIVERSITY, Boulder, Colo.
Catalogue, 1903-04.
Studies, v. 2, nos. 1-2.
- COLUMBIA UNIVERSITY, New York City.
Catalogue, 1903-04.
- COMSTOCK, FRANK M., Cleveland, Ohio.
2 reprints.
- CONNECTICUT AGRICULTURAL EXPERIMENT STATION, New Haven, Conn.
Annual report, 26th-27th.
Bulletin, current numbers.
- COOPER UNION FOR THE ADVANCEMENT OF SCIENCE AND ART, New York City.
Annual report, 45th.
- COPENHAGEN. NATURAL HISTORY SOCIETY, Copenhagen, Denmark.
Videnskabelige meddelelser, 1903.
- COPENHAGEN UNIVERSITY. MINERALOGICAL AND GEOLOGICAL MUSEUM, Copenhagen, Denmark.
Beretning, 1902.
Communications paleontologiques, nos. 5-6.
Contribution to mineralogy, nos. 2-4.
- CORNELL UNIVERSITY, Ithaca, N. Y.
Register, 1903-04.
- CORNELL UNIVERSITY. AGRICULTURAL EXPERIMENT STATION, Ithaca, N. Y.
Bulletin, current numbers.
- COSTA RICA. INSTITUTO FISICO-GEOGRAFICO NACIONAL, San Jose, C. R.
Bulletin, nos. 24-35.
- CUSHMAN, B. B., Chicago, Ill.
Coinage laws of the United States from 1702 to 1804.
Military notes on Cuba.
Military notes on the Philippines.
Rates of duty on imports into the United States from 1789 to 1800.
Report of the Bureau of Ethnology, 1880-1805, 16 vols.
Review of the world's commerce (gift).
- DELAWARE COLLEGE AGRICULTURAL EXPERIMENT STATION, Newark, Del.
Bulletin, current numbers.
Report, 1902.

- DENISON UNIVERSITY, Granville, Ohio.
Bulletin, v. 12, nos. 5-8.
- DE PAUW UNIVERSITY, Greencastle, Ind.
Bulletin, v. 1, no. 1 (gift).
- DETROIT MUSEUM OF ART, Detroit, Mich.
Annual report, 1902-04.
Bulletin, nos. 1-3.
- DETROIT PUBLIC LIBRARY, Detroit, Mich.
Annual report, 39th.
Catalogue, supplement, 1899-1903.
- DEUTSCHE GEOLOGISCHE GESELLSCHAFT, Berlin, Germany.
Zeitschrift, v. 55, nos. 1-3.
- DEWALQUE, G., Liege, Belgium.
1 pamphlet with map.
- DIAL PUBLISHING COMPANY, Chicago, Ill.
Dial, current numbers.
- DRESDEN. K. SAMMLUNGEN FÜR KUNST UND WISSENSCHAFTEN.
Dresden, Germany.
Bericht, 1900-1901.
- DREW THEOLOGICAL SEMINARY, Madison, N. J.
Yearbook, 1903-04.
- DRUGS, OILS AND PAINTS, Philadelphia, Pa.
Journal, current numbers (gift).
- EAST ST. LOUIS PUBLIC LIBRARY, East St. Louis, Ill.
Annual report, 12th, 1903 (gift).
- EATON, GEORGE, New York City.
1 reprint.
- EDINBURGH MUSEUM OF SCIENCE AND ART, Edinburgh, Scotland.
Report, 1903.
- EIGENMANN, C. H., Bloomington, Ind.
Contributions from the zoological laboratory, Indiana University.
4 reprints.
- ELECTRICAL ENGINEERING PUBLISHING COMPANY, Chicago, Ill.
Telephone magazine, current numbers (gift).
- ELISHA MITCHELL SCIENTIFIC SOCIETY, Chapel Hill, N. C.
Journal, v. 20, no. 1.
- ELKINGTON & COMPANY, Birmingham, England.
1 pamphlet (gift).
- ENGINEERS SOCIETY OF WESTERN PENNSYLVANIA, Pittsburg, Pa.
Charter, by-laws, and membership list.
Proceedings, current numbers.
- ENOCH PRATT FREE LIBRARY, Baltimore, Md.
Annual report, 18th.
Bulletin, v. 9; v. 10, nos. 1-2.
- ESSEX INSTITUTE, Salem, Mass.
Annual report, 1903-04.
Historical collections, v. 39, nos. 3-4; v. 40, nos. 1-3.
- EVANS, HERBERT M., Berkeley, Cal.
1 reprint.
- EVANSTON FREE PUBLIC LIBRARY, Evanston, Ill.
Annual report, 1902-03.
- FAIRCHILD, H. L., Rochester, N. Y.
4 reprints.

- FARRINGTON, OLIVER C., Field Columbian Museum, Chicago, Ill.
Collection of books and pamphlets from the Louisiana Purchase Exposition.
Gems and gem minerals, by O. C. Farrington (gift)
- FERNALD, M. L., Cambridge, Mass.
1 pamphlet.
- FLORIDA AGRICULTURAL EXPERIMENT STATION, Lake City, Florida
Bulletin, current numbers.
Farmers' institute, bulletin, no. 2 (gift).
- FOREST AND STREAM PUBLISHING COMPANY, Chicago, Ill.
Forest and stream, current numbers.
- FORSTEMANN, E., Charlottenburg, Germany.
5 reprints.
- FRANKLIN INSTITUTE, Philadelphia, Pa.
Journal, current numbers.
- FREIBERG. K. SACHSISCHE BERGAKADEMIE, Freiberg, Germany.
Program, 1904-05.
- FRIEDLANDER, R. AND SOHN, Berlin, Germany.
Naturæ novitates, current numbers.
- FROGGATT, W. F., Sydney, N. S. W.
Australian psyllidæ, with 11 other reprints.
- FUR TRADE REVIEW, New York City.
Directory of the fur trade, 1904-05 (gift).
- FURBRINGER, MAX, Heidelberg, Germany.
5 pamphlets.
- GENÈVE. SOCIÉTÉ DE PHYSIQUE ET D'HISTOIRE NATURELLE,
Genève, Switzerland.
Memoires, v. 34, no. 4.
- GEOLOGICAL SOCIETY OF AMERICA, Rochester, N. Y.
Bulletin, current numbers.
- GEORGIA AGRICULTURAL EXPERIMENT STATION, Experiment, Georgia.
Annual report, 15th-16th, 1902-03.
- GEORGIA GEOLOGICAL SURVEY, Atlanta, Ga.
Bulletin, no. 9-A (gift).
- GERMAN KALI WORKS, New York City.
7 pamphlets (gift).
- GIESSEN. UNIVERSITÄTS BIBLIOTHEK, Giessen, Germany.
12 inaugural dissertations.
- GIGLIO-TOS, ERMANNIO, Cagliari, Italy.
Les problèmes de la vie, v. 1.
- GOTEBORG. K. VETENSKAPS-OCH-VITTERHETS-SAMHALLE, Gothenburg, Sweden.
Handlinger, ser. 4, vs. 5-6.
- GÖTTINGEN. K. GEORG-AUGUST-UNIVERSITÄT, Göttingen, Germany.
Verzeichnis der vlesungen, 1904.
47 inaugural dissertations.
- GREAT BRITAIN. GEOLOGICAL SURVEY, London, England.
Cretaceous rocks of Great Britain, vs. 1, 3.
- GREENE, EDWARD L., Washington, D. C.
Erythea, v. 1 (gift).
- HAARLEM. STADS-BIBLIOTHEEK, Haarlem, Netherlands.
Verslag, 1903.
- HALLOCK-GREENEWALT, MARY, Philadelphia, Pa.
1 reprint (gift).

- HAMBACH, G., St. Louis, Mo.
Revision of the blastovideæ.
- HAMBERG, ALEX, Stockholm, Sweden
2 pamphlets.
- HAMBURG. NATURHISTORISCHES MUSEUM, Hamburg, Germany.
Jahrbuch der Hamburgischen Wissenschaftlichen Anstalten, vs. 15-20,
1897-1902, with supplements.
Mitteilungen, v. 20, 1902.
- HAMILTON SCIENTIFIC ASSOCIATION, Hamilton, Ontario.
Journal and proceedings, no. 19, 1902-03.
- HANNOVER. GEOGRAPHISCHE GESELLSCHAFT, Hannover, Germany.
Catalogue, 1st supplement.
- HARRINGTON, B. J., Montreal, Canada.
2 reprints.
- HARVARD COLLEGE, Cambridge, Mass.
Annual reports of the president and treasurer, 1902-03.
- HARVARD UNIVERSITY, Cambridge, Mass.
Annual reports, 1902-03.
Catalogue, 1903-04.
Gray herbarium contributions, nos. 25, 27.
Museum of comparative zoology:
Annual report, 1903-04.
Bulletin, v. 44.
Memoires, v. 25, pt. 1; v. 26, pts. 1-4; v. 27, pts. 1-2; v. 28, pts.
1-4; v. 29.
1 pamphlet.
- HATCH AGRICULTURAL EXPERIMENT STATION, Amherst, Mass.
Annual report, 16th, 1903-04.
Bulletin, current numbers.
- HATCHER, J. B., Pittsburgh, Pa.
Osteology of haplocanthosaurus.
1 reprint.
- HAUSWALDT, HANS, Magdeburg, Germany.
Interferens-erscheinungen im polarisirten licht, 1904 (gift).
- HAWAII PROMOTION COMMITTEE, Honolulu, T. H.
Hawaiian Islands (gift).
- HAWAIIAN HISTORICAL SOCIETY, Honolulu, Hawaii.
Papers of the society, no. 11.
- HEIDELBERG. UNIVERSITÄTS-BIBLIOTHEK, Heidelberg, Germany.
67 dissertations.
- HELLER, A. A., Los Gatos, Cal.
Muhlenbergia, v. 1, no. 3.
- HEPBURN, A. P., New York City.
History of coinage and currency in the United States (gift).
- HILL, BENJAMIN, New York City.
1 reprint.
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Studies in the cyperaceæ, 1-19, with 9 pamphlets (gift).
- HOPKINS, T. C., Syracuse, N. Y.
1 pamphlet (gift).
- HORNIMAN MUSEUM, London, England.
Annual report, nos. 1-2, 1901-03.
- HOVEY, EDMUND O., New York City.
The 1902-03 eruptions of Mt. Pelee, Martinique, and the Soufriere, St.
Vincent.
3 reprints.



VEGETABLE IVORY PRODUCTS METHOD OF INSTALLATION. DEPARTMENT OF BOTANY

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- HOYT, F. W., New York City.
Stone, current numbers.
- HRDLICKA, ALES, Washington, D. C.,
3 reprints.
- IDAHO AGRICULTURAL EXPERIMENT STATION, Moscow, Idaho.
Annual report, 1903.
Bulletin, current numbers.
- IDAHO. INSPECTOR OF MINES, Boise, Idaho.
Report, 1899-1903.
- ILLINOIS STATE BOARD OF AGRICULTURE, Springfield, Ill.
Statistical report, 1904.
- ILLINOIS STATE HISTORICAL LIBRARY, Springfield, Ill.
Publication, no. 8.
- ILLINOIS STATE LABORATORY OF NATURAL HISTORY, Urbana, Ill.
First annual report on the noxious insects of the state of Illinois.
Fish commissioner's report, 1900-02.
The plankton of the Illinois river, 1849-99, pt. 1.
- ILLINOIS UNIVERSITY, Urbana, Ill.
Experiment station:
Annual report, 12th-16th.
Bulletin, current numbers.
Studies, v. 1, nos. 6-7.
- INDIA. GEOLOGICAL SURVEY, Calcutta, India.
General report, 1902-1903.
Memoirs, v. 34, pt. 3; v. 35, pt. 2.
- INDIA. SUPERINTENDENT OF GOVERNMENT PRINTING, Calcutta,
India.
Agricultural ledger, current numbers.
- INDIAN MUSEUM, Calcutta, India.
Annual report, 1902-1903.
Entomological circulars, nos. 1-6.
- INDIANA ACADEMY OF SCIENCES, Indianapolis, Indiana.
Proceedings, 1902.
- INDIANA. BOARD OF STATE CHARITIES, Indianapolis, Ind.
Annual report, 14th.
2 bulletins.
- INDIANA. DEPARTMENT OF GEOLOGY AND NATURAL RESOURCES,
Indianapolis, Ind.
Annual report, no. 26-28.
- INLAND PRINTER PUBLISHING COMPANY, Chicago, Ill.
Inland printer, vs. 31-32.
- INTERNATIONAL BUREAU OF THE AMERICAN REPUBLICS, Wash-
ington, D. C.
Bulletin, current numbers.
1 pamphlet.
- IOWA ACADEMY OF SCIENCES, Des Moines, Iowa.
Proceedings, v. 11, 1903.
- IOWA AGRICULTURAL EXPERIMENT STATION, Ames, Iowa.
Bulletin, current numbers (gift).
- IOWA GEOLOGICAL SURVEY, Des Moines, Iowa.
Annual report, v. 8, 1902.
- IOWA. HISTORICAL DEPARTMENT, Des Moines, Iowa.
Annals, v. 6, nos. 1, 5-6.
Biennial report, 1-4, 6.
- IOWA MASONIC LIBRARY, Cedar Rapids, Iowa.
Quarterly bulletin, current numbers.

- IOWA STATE UNIVERSITY, Iowa City, Iowa.
Calendar, 1903-1904.
- ISIS. NATURWISSENSCHAFTLICHE GESELLSCHAFT, Dresden, Germany.
Sitzungsberichte und abhandlungen, 1903.
- JACOBS, J. W., Waynesburg, Pa.
Gleanings, no. 3 (gift).
- JAMAICA. BOARD OF PUBLIC GARDENS AND PLANTATIONS, Kingston, Jamaica.
Annual report, 1902-03.
Bulletin, department of agriculture, current numbers.
- JANET, CHARLES, Paris, France.
4 reprints.
- JAPAN. IMPERIAL GEOLOGICAL SURVEY, Tokyo, Japan.
Outlines of the geology of Japan, with maps.
- JOHANNSEN, O. A., Ithaca, New York.
Aquatic nematoceros diptera (gift).
- JOHN CRERAR LIBRARY, Chicago, Ill.
Annual report, 9th, 1903.
List of books on industrial arts.
- JOHNS HOPKINS UNIVERSITY, Baltimore, Md.
Circular, current numbers.
- JUDD, A. F., Honolulu, Hawaii.
1 pamphlet.
- KANSAS HISTORICAL SOCIETY, Topeka, Kansas.
Biennial report, 13th, 1900-02.
Historical collections, v. 6-7.
Transactions, v. 8, 1903-04.
2 pamphlets.
- KANSAS STATE AGRICULTURAL COLLEGE, Manhattan, Kansas.
Experiment station:
Bulletin, current numbers.
Report, 16th, 1902-03.
The industrialist, current numbers.
- KANSAS STATE BOARD OF AGRICULTURE, Topeka, Kansas.
Report, quarterly, no. 87.
- KANSAS UNIVERSITY, Lawrence, Kansas.
New science bulletin, nos. 1-9.
- KENTUCKY AGRICULTURAL EXPERIMENT STATION, Lexington, Ky.
Annual report, 13th, 1900.
Bulletin, current numbers.
- KEW. ROYAL GARDENS, Kew, England.
Appendix, 1904, nos. 1-3.
- KIRSCH, A. M., Notre Dame, Indiana.
Mammalian osteology (gift).
- KLEIN, C., Berlin, Germany.
1 reprint.
- KUNTZE, OTTO, San Remo, Italy.
Generum phanerogamarum (gift).
- LACROIX, A., Paris, France.
7 reprints.
- LA FAYETTE COLLEGE, Easton, Pa.
Catalogue, 1903-04.
- LAFONE QUEVEDO, S. A., Pelciao, Catamarca, Argentina.
Viaje al Rio de la Plata, with 2 reprints.
- LANCASHIRE SEA-FISHERIES LABORATORY, Liverpool, England.
Report, 1903.

- LANE, H. L., Chicago, Ill.
1 reprint.
- LAWRENCE FREE PUBLIC LIBRARY, Lawrence, Mass.
Annual report, 32d, 1903.
- LEHIGH UNIVERSITY, South Bethlehem, Pa.
Register, 1903-04.
- LEHMANN-NITSCHKE, L., Buenos Aires, Argentina.
2 reprints.
- LEIDEN. RIJKS ETHNOGRAPHISCH MUSEUM, Leiden, Netherlands.
Verslag, 1902-1903.
- LEIPZIG. K. SÄCHSISCHE GESELLSCHAFT DER WISSENSCHAFTEN, Leipzig, Germany.
Bericht, 1903, nos. 4-6; 1904, nos. 1-3.
- LELAND STANFORD JUNIOR UNIVERSITY, Stanford University, Cal.
Contributions to biology, nos. 31-32.
Register, 1903-04.
2 dissertations.
- LEWIS INSTITUTE, Chicago, Ill.
Annual register, 7th, 1903; 8th, 1904.
- LIMA. SOCIEDAD GEOGRAFICO, Lima, Peru.
Publications, v. 4.
- LITERARY NEWS COMPANY, New York City.
Literary news, current numbers.
- LIVERPOOL BIOLOGICAL SOCIETY, Liverpool, England.
Proceedings and transactions, v. 17, 1902-03.
Report of the new biological station at Port Erin, 17th.
- LLOYD LIBRARY, Cincinnati, Ohio.
Bulletin, no. 6.
Mycological notes, nos. 10-14.
- LONDON. LINNEAN SOCIETY, London, England.
Journal, zoölogy, current numbers.
List, 1903-04.
Proceedings, 1902-03.
- LONDON. ROYAL GEOGRAPHICAL SOCIETY, London, England.
Journal, current numbers.
- LONDON. ROYAL SOCIETY, London, England.
Obituary notices, pts. 1-3.
Proceedings, current numbers.
Reports to the malaria committee, 8th ser.
Reports of the sleeping sickness commission, nos. 2-4.
- LONDON. SOCIETY OF ARTS, London, England.
Journal, current numbers.
- LONDON. ZOÖLOGICAL SOCIETY, London, England.
Proceedings, current numbers.
Transactions, current numbers.
- LOS ANGELES PUBLIC LIBRARY, Los Angeles, Cal.
Annual report, 15th, 1903.
- LOUBAT, DUC DE, Paris France.
Codex Magleabecchiano XIII.
- LOUISIANA. AGRICULTURAL EXPERIMENT STATION, Baton Rouge, La.
Annual report, 16th (gift).
Bulletin, current numbers (gift).
- McCLURE, C. F. W., Princeton, N. J.
1 pamphlet.
- McCLURG AND COMPANY, Chicago, Ill.
Chicago city directory, 1844.

- MACRITCHIE, DAVID, Edinburgh, Scotland.
2 reprints.
- MADRAS. GOVERNMENT MUSEUM, Madras, India.
Bulletin, v. 5, no. 1.
- MADRID. BIBLIOTECA NACIONAL, Madrid, Spain.
Relaciones de solemnidades y fiesta publicas de Espana.
- MADRID. REAL ACADEMIA DE CIENCIAS, Madrid, Spain.
Memorias, v. 20; v. 21, pt. 1.
Revista, 1904, nos. 1-3.
- MAGYAR NEMZETI MUSEUM, Budapest, Hungary.
Annales, 1903, v. 1, pt. 1.
- MAHOUEAN, G., Paris, France.
1 reprint (gift).
- MAINE AGRICULTURAL EXPERIMENT STATION, Orono, Me.
Bulletin, current numbers.
- MAINE UNIVERSITY, Orono, Me.
Catalogue, 1903-04.
- MANCHESTER GEOLOGICAL SOCIETY, Manchester, England.
Transactions, current numbers.
- MANCHESTER INSTITUTE OF ARTS AND SCIENCES, Manchester, N. H.
Nature study, current numbers.
Proceedings, v. 4, pt. 1
- MANCHESTER MUSEUM, OWENS COLLEGE, Manchester, England.
Handy guide to the museum, third edition.
- MANILA MINING BUREAU, Manila, P. I.
Bulletin, nos. 1-3.
- MANOUVRIER, L., Paris, France.
2 pamphlets.
- MARBURG. K. PREUSSISCHE UNIVERSITÄT, Marburg, Germany.
Cronik, 1903-04.
- MARIETTA COLLEGE, Marietta, Ohio.
Catalogue, 1903-04.
- MARINE BIOLOGICAL ASSOCIATION, Plymouth, England.
Journal, v. 6, no. 4.
- MARSEILLES. FACULTE DES SCIENCES, Marseilles, France.
Annales, v. 13.
- MARSEILLES. INSTITUT COLONIAL, Marseilles, France.
Annales, n. s. v. 1, nos. 1-2.
- MARYLAND AGRICULTURAL EXPERIMENT STATION, College Park, Md.
Bulletin, current numbers.
- MARYLAND INSTITUTE. SCHOOL OF ART AND DESIGN, Baltimore, Md.
Report, 56th, 1904.
- MARYLAND STATE HORTICULTURAL SOCIETY, College Park, Md.
Report, 1903.
- MASSACHUSETTS HORTICULTURAL SOCIETY, Boston, Mass.
Transactions, 1903, pt. 2.
- MASSACHUSETTS INSTITUTE OF TECHNOLOGY, Boston, Mass.
Annual catalogue, 1903-04.
Technology quarterly, current numbers.
- MAYER, A. G., Brooklyn, N. Y.
1 reprint.
- MELBOURNE UNIVERSITY, Melbourne, Australia.
Calendar, 1904.
- MELBOURNE. ZOÖLOGICAL GARDENS, Melbourne, Australia.
1 pamphlet.

- MERRIMAN, J. C., Berkeley, Cal.
3 reprints.
- MEUNIER, STANISLAS, Paris, France.
Eruptions volcaniques, with 3 other reprints.
- MEXICO. DIRECCION GENERAL DE ESTADISTICA, Mexico, Mexico.
Anuario estadistico, 1902.
Censo de Guanajuato, 1900.
Estadistica ganadera de la Republica.
Estadistica industrial, 1902.
Importacion y exportacion, 1902.
2 reports.
- MEXICO. INSTITUTO GEOLOGICO, Mexico, Mexico.
Paregones, v. 1, no. 1.
- MEXICO. MUSEO MICHOACANO, Morelia, Michoacan, Mexico.
Relacion de las Michoacan (gift).
- MEXICO. MUSEO NACIONAL, Mexico, Mexico.
Anales, current numbers.
Boletin, current numbers.
- MEXICO. RED METEOROLOGICO Y REVISTA CIENTIFICA, Toluca, Mexico.
Boletin, current numbers.
- MEYER, A. B., Dresden, Germany.
1 pamphlet.
- MICHIGAN AGRICULTURAL EXPERIMENT STATION, Agricultural College, Mich.
Annual report, 16th, 1903.
Bulletin, current numbers.
- MICHIGAN COLLEGE OF MINES, Houghton, Mich.
Yearbook, 1903-04.
List of graduates, 1904.
- MICHIGAN UNIVERSITY, Ann Arbor, Mich.
Calendar, 1903-04.
University museum report, 1903.
1 pamphlet.
- MILLSPAUGH, C. F., Field Columbian Museum, Chicago, Ill.
Collection of catalogues and pamphlets from the Louisiana Purchase Exposition, St. Louis, Mo.
Hooker's journal of botany, vs. 1-4.
3 reprints (gift).
- MILWAUKEE PUBLIC MUSEUM, Milwaukee, Wis.
Annual report, 21st, 1902-03.
- MINING MAGAZINE PUBLISHING COMPANY, New York City.
Mining magazine, current numbers.
- MINNESOTA AGRICULTURAL EXPERIMENT STATION, St. Anthony's Park, Minn.
Annual report, 6th, 1901.
Bulletin, current numbers.
- MINNESOTA UNIVERSITY EXPERIMENT STATION, St. Anthony's Park, Minn.
Annual report, 17th.
Bulletin, current numbers.
- MISSOURI BOTANICAL GARDEN, St. Louis, Mo.
Annual report, 14th-15th.
Collection of botanical works, 34 vs.
- MISSOURI COLLEGE OF AGRICULTURE AND MECHANIC ARTS, Columbia, Mo.
Experiment station bulletin, current numbers (gift).

- MISSOURI UNIVERSITY, Columbia, Mo.
 Catalogue, 1903-04.
 Report:
 Missouri Geological Survey, v. 11.
 State mine inspectors, 1894-1899.
 Studies, v. 2, nos. 2-6.
- MONTANA UNIVERSITY, Missoula, Mont.
 Bulletin, biological series, nos. 5-8.
 President's report, 1902-1903.
 Register, 1903-04.
- MONTEVIDEO. MUSEO NACIONAL, Montevideo, Uruguay.
 Anales, v. 5, pp. 1-160; ser. 2, no. 1.
 Flora of Uruguay.
- MONTREAL. NUMISMATIC AND ANTIQUARIAN SOCIETY, Montreal, Can.
 Canadian antiquarian, ser. 3, v. 4.
- MOORE, CLARENCE B., Philadelphia, Pa.
 Certain aboriginal mounds of the Florida central west coast.
- MORSE, E. S., Salem, Mass.
 1 pamphlet.
- MOSCOW. SOCIÉTÉ IMPERIALE DES NATURALISTES, Moscow, Russia.
 Bulletin, 1902, nos. 1-2, 4; 1903, nos. 2-3; 1904, no. 1.
- MUNCHEN. K. BAYERISCHE AKADEMIE DER WISSENSCHAFTEN, Munich, Germany.
 Sitzungsberichte, 1902, pt. 3; 1903, pts. 1-3.
- MUSÉE DU CONGO, Brussels, Belgium.
 Annales: Botanique, ser. 5, v. 5, nos. 1-2.
 Ethnographie et anthropologie, ser. 4, nos. 1-4.
 Zoölogie, ser. 3, v. 2, no. 1; ser. 3, v. 3, no. 1.
 Publications, no. 1.
- MUSÉE GUIMET, Paris, France.
 Annales, bibliothèque d'études, v. 15.
 Jubile du Musée Guimet, 1879-1904.
- NASSAUISCHER VEREIN FÜR NATURKUNDE, Wiesbaden, Germany.
 Jahrbuch, v. 56.
- NATIONAL COMMITTEE OF AUDUBON SOCIETIES, New York City.
 Report of the American Ornithologists' Union Committee, 1903.
 Educational leaflet, nos. 1-9 (gift).
- NATIONAL GEOGRAPHIC SOCIETY, Washington, D. C.
 National geographic magazine, current numbers.
- NATURALISTE CANADIEN, Chicoutimi, Canada.
 Journal, current numbers.
- NEBRASKA ACADEMY OF SCIENCES, Lincoln, Nebraska.
 Publications, v. 7, 1897-1900.
- NEBRASKA AGRICULTURAL EXPERIMENT STATION, Lincoln, Neb.
 Annual report, 15th-16th.
 Bulletin, current numbers.
- NEBRASKA. GEOLOGICAL SURVEY, Lincoln, Nebraska.
 Report, v. 2, pt. 1.
- NEBRASKA UNIVERSITY, Lincoln, Nebraska.
 Bibliographical contributions, no. 4.
 Calendar, 1903-1904.
 Studies, v. 4, nos. 1-4.
- NEDERLANDSCH-INDIE. K. NATUURKUNDIGE VEREENIGING, Batavia, India.
 Natuurkundig tijdschrift, v. 63



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- NEDERLANDSCHE DIERKUNDIGE VEREENIGING, Helder, Netherlands.
Tijdschrift, ser. 2, v. 8, pt. 2.
- NEVADA STATE UNIVERSITY, Reno, Nev.
Agricultural experiment station bulletin, nos. 53, 57 (gift).
- NEW BEDFORD. FREE PUBLIC LIBRARY, New Bedford, Mass.
Annual report, 52d, 1903.
Biographical lists.
Monthly bulletins, current numbers.
- NEW BRUNSWICK NATURAL HISTORY SOCIETY, St. John, N. B.
Bulletin, nos. 11-12.
- NEW HAMPSHIRE AGRICULTURAL EXPERIMENT STATION, Durham, N. H.
Annual report, 15th.
Bulletin, current numbers.
- NEW HAMPSHIRE STATE LIBRARY, Concord, N. H.
Reports, 1900-1902.
- NEW JERSEY AGRICULTURAL EXPERIMENT STATION, New Brunswick, N. J.
Bulletin, current numbers.
- NEW JERSEY GEOLOGICAL SURVEY, Trenton, N. J.
Annual report, 1903.
Final report, v. 6.
- NEW MEXICO AGRICULTURAL EXPERIMENT STATION, Mesilla Park, N. M.
Bulletin, current numbers.
- NEW SOUTH WALES. BOTANIC GARDENS, Sydney, N. S. W.
Maiden's critical revision of the genus eucalyptus, pt. 4.
Report, 1902.
- NEW SOUTH WALES. DEPARTMENT OF FISHERIES, Sydney, N. S. W.
Annual report, 1902, pt. 2.
- NEW SOUTH WALES. DEPARTMENT OF MINES AND AGRICULTURE, Sydney, N. S. W.
Annual report, 1903.
Memoirs: Geology, no. 3.
Paleontology, nos. 4, 5, 11.
- NEW SOUTH WALES. LINNEAN SOCIETY, Sydney, N. S. W.
Proceedings, v. 28.
- NEW SOUTH WALES. ROYAL SOCIETY, Sydney, N. S. W.
Journal and proceedings, v. 36, 1902.
- NEW YORK AGRICULTURAL EXPERIMENT STATION, Geneva, N. Y.
Report of Geneva experiment station, 1903.
- NEW YORK BOTANICAL GARDEN, New York, N. Y.
Report, 1903.
- NEW YORK FOREST, FISH, AND GAME COMMISSION, Albany, N. Y.
Annual report, 8th, 1902.
Economic value of birds to the state: Chapman.
- NEW YORK. GENERAL SOCIETY OF MECHANICS AND TRADESMEN, New York, N. Y.
Annual report, 118th, 1903.
- NEW YORK. MERCANTILE LIBRARY, New York City.
Annual report, 83d.
- NEW YORK. METROPOLITAN MUSEUM OF ART, New York, N. Y.
Annual report, 1903-04.
- NEW YORK PUBLIC LIBRARY, New York City.
Bulletin, current numbers.

- NEW YORK SOCIETY LIBRARY, New York City.
Annual report, 150th, 1903-04.
- NEW YORK STATE LIBRARY, Albany, N. Y.
Bulletin, nos. 81-84.
Home education, no. 42.
Museum, nos. 66-72.
Report, no. 55. v. 1.
- NEW YORK STATE MUSEUM, Albany, N. Y.
Handbook, no. 5, 17.
List of New York mineral localities.
Memoir, no. 5.
Report of the state geologist, 22d.
- NEW YORK ZOÖLOGICAL SOCIETY, New York City.
Annual report, 8th, 1903.
Bulletin, current numbers.
- NEWARK. FREE PUBLIC LIBRARY, Newark, N. J.
Annual report, 15th.
- NEWARK TECHNICAL SCHOOL, Newark, N. J.
Handbook, 1903-04.
- NEWBERRY LIBRARY, Chicago, Ill.
Report, 1903.
- NEWPORT NATURAL HISTORY SOCIETY, Newport, R. I.
Proceedings, no. 8.
- NORDIN, FREDRIK, Venersborg, Sweden.
2 reports (gift).
- NORTH CAROLINA AGRICULTURAL EXPERIMENT STATION, Raleigh, N. C.
Bulletin, current numbers (gift).
- NORTH CAROLINA. STATE BOARD OF AGRICULTURE, Raleigh, N. C.
Bulletin, current numbers (gift).
- NORTH DAKOTA AGRICULTURAL EXPERIMENT STATION, Fargo, N. D.
Bulletin, current numbers (gift).
- NURNBERG. NATURHISTORISCHE GESELLSCHAFT, Nurnberg, Germany.
Abhandlungen, v. 15, no. 1.
- NWEEYA, S. K., Indianapolis, Ind.
Persia: the land of the magi (gift).
- OBERLIN COLLEGE, Oberlin, Ohio.
Wilson ornithological club bulletin, nos. 44-46.
- OHIO AGRICULTURAL EXPERIMENT STATION, Wooster, Ohio.
Annual report, 21st-22d.
Bulletin, current numbers.
- OHIO. GEOLOGICAL SURVEY, Columbus, Ohio.
Bulletin, ser. 4, no. 1.
- OHIO STATE ACADEMY OF SCIENCE, Columbus, Ohio.
Annual report, 12th, 1903.
Special papers, nos. 6, 8.
- OHIO STATE ARCHÆOLOGICAL AND HISTORICAL SOCIETY, Columbus, Ohio.
Quarterly, current numbers.
- OHIO STATE BOARD OF AGRICULTURE, Columbus, Ohio.
Annual report, 55th, 57th.
Report of the secretary, 1903.
- OHIO STATE UNIVERSITY, Columbus, Ohio.
Annual report, 32d, 1902.
Contributions, nos. 12, 14-17, 19.

- OKLAHOMA AGRICULTURAL AND MECHANICAL COLLEGE, Stillwater, Oklahoma.
Annual report, 1902-03; 1903-04.
Bulletin, current numbers (gift).
- OMAHA PUBLIC LIBRARY, Omaha, Neb.
Bulletin, current numbers.
- ONTARIO. BUREAU OF MINES, Toronto, Ontario.
Report, 12th, 2 maps; 13th, pt. 1, 2 maps.
- ONTARIO. DEPARTMENT OF AGRICULTURE, Ottawa, Canada.
Annual report, v. 1-2, 1902.
Bulletin, current numbers.
Reports: Bureau of industries, 1902.
Dairymen's association, 1903.
Fairs and exhibitions, 1903, 1904.
Farmer's institutes, 1902-03.
Fruit experiment stations, 1903.
Fruit growers' association, 1902-03.
Live stock association, 1902.
Ontario agricultural college and experiment farm, 1903.
- OPEN COURT PUBLISHING COMPANY, Chicago, Ill.
Monist, current numbers.
- OREGON AGRICULTURAL EXPERIMENT STATION, Corvallis, Ore.
Bulletin, current numbers (gift).
- OREGON UNIVERSITY, Eugene, Ore.
Bulletin, v. 1, no. 3.
- OSBORN, HERBERT, Columbus, Ohio.
1 reprint.
- OTTAWA FIELD NATURALISTS' CLUB, Ottawa, Canada.
Ottawa naturalist, current numbers.
- OTTAWA UNIVERSITY, Ottawa, Kansas.
Catalogue, 1904-05.
- OTTUMWA PUBLIC LIBRARY, Ottumwa, Iowa.
Dedication and first annual report, 1903.
- OUTES, FELIX F., Buenos Aires, Argentina.
1 reprint.
- OUTING PUBLISHING COMPANY, New York City.
Outing, current numbers.
- OXFORD UNIVERSITY MUSEUM, Oxford, England.
Annual report, 16th.
- PALERMO. REAL ORTO BOTANICO, Palermo, Italy
Contributions to biology, v. 3, no. 2.
Index seminum, 1903.
- PAPER MILL AND WOOD PULP NEWS COMPANY, New York City.
Journal, current numbers (gift).
- PARIS. ACADEMIE DES SCIENCES, Paris, France.
Comptes rendus des sciences, current numbers.
- PARIS. MUSÉUM D'HISTOIRE NATURELLE, Paris, France.
Bulletin, 1903, nos. 3-9; 1904, nos. 1-3.
- PARKE, DAVIS AND COMPANY, Detroit, Mich.
Bulletin of pharmacy, current numbers.
- PARKER, C. M., Taylorsville, Ill.
School news, September, 1899-April, 1904 (gift).
- PAVLOW, A. W., Moscow, Russia.
2 pamphlets.
- PEABODY INSTITUTE, Peabody, Mass.
Annual report, 52d.

- PEABODY MUSEUM OF ARCHEOLOGY AND ETHNOLOGY, Cambridge, Mass.
 Memoirs, v. 3, no. 1.
 Papers, v. 3, nos. 1-2.
 Report, 37th.
- PENNSYLVANIA HISTORICAL SOCIETY, Philadelphia, Pa.
 Magazine of history and biography, current numbers.
- PENNSYLVANIA MUSEUM, Philadelphia, Pa.
 Bulletin, current numbers.
- PENNSYLVANIA MUSEUM AND SCHOOL OF INDUSTRIAL ART, Philadelphia, Pa.
 Annual report, 1903-04.
 Circular, 1904-1905.
- PENNSYLVANIA STATE DEPARTMENT OF AGRICULTURE, Harrisburg, Pa.
 Bulletin, current numbers.
 Zoological quarterly bulletin, v. 1.
- PENNSYLVANIA STATE LIBRARY, Harrisburg, Pa.
 Reports: Agricultural department, 1902, pts. 1-2.
 Board of health, 1902.
 Library commission bulletin, no. 1.
 State commissioners of fisheries, 1901.
 State librarian, 1903.
- PENNSYLVANIA UNIVERSITY, Philadelphia, Pa.
 Catalogue, 1903-04.
 Contributions from the zoological laboratory, 1903, v. 10, with supplement.
 Provost's report, 1903.
- PENNSYLVANIA UNIVERSITY. FREE MUSEUM OF SCIENCE AND ART, Philadelphia, Pa.
 Department of archeology, transactions, v. 15, pts. 1-2.
- PENROSE, R. A. F., JR., Philadelphia, Pa.
 Gold-mining in arctic America.
- PEORIA PUBLIC LIBRARY, Peoria, Ill.
 Annual report, 24th, 1903-04.
- PEREZ-VILLAMIL, MANUEL, Madrid, Spain.
 Artes e industrias del Buen Retiro (gift).
- PERKINS INSTITUTION AND MASSACHUSETTS SCHOOL FOR THE BLIND, Boston, Mass.
 Annual report, 72d, 1903.
 1 pamphlet.
- PERU. CUERPO DE INGENIEROS DE MINAS, Lima, Peru.
 Boletín, nos. 3-8.
- PHARMACEUTICAL REVIEW PUBLISHING COMPANY, Milwaukee, Wis.
 Pharmaceutical archives, v. 6, no. 9.
 Pharmaceutical review, current numbers.
- PHILADELPHIA. ACADEMY OF NATURAL SCIENCES, Philadelphia, Pa.
 Proceedings, current numbers.
- PHILADELPHIA COLLEGE OF PHARMACY, Philadelphia, Pa.
 American journal of pharmacy, current numbers (gift).
- PHILADELPHIA. COLLEGE OF PHYSICIANS, Philadelphia, Pa.
 Transactions, v. 25.
- PHILADELPHIA FREE LIBRARY, Philadelphia, Pa.
 Annual report, 8th, 1903.
- PHILADELPHIA. GEOGRAPHICAL SOCIETY, Philadelphia, Pa.
 Bulletin, v. 4, no. 1.
 Charter, by-laws, list of members, 1903.

- PHILADELPHIA LIBRARY COMPANY, Philadelphia, Pa.
Bulletin, no. 52.
- PHILADELPHIA NUMISMATIC AND ANTIQUARIAN SOCIETY, Philadelphia, Pa.
Proceedings, 1902-03.
- PHILIPPINE ISLANDS. DEPARTMENT OF THE INTERIOR ETHNOLOGICAL SURVEY, Manila, P. I.
Philippine Museum bulletin, nos. 3-4.
- PHILLIPS ACADEMY, Andover, Mass.
Catalogue, 1902-03; 1903-04.
- PITT-RIVERS MUSEUM, Oxford, England.
Report, 1902.
- PLYMOUTH MUNICIPAL MUSEUM AND ART GALLERY, Plymouth, England.
Annual report, 5th, 1903-04.
- PORTLAND PUBLIC LIBRARY, Portland, Me.
Annual report, 1903.
- PORTO RICO AGRICULTURAL EXPERIMENT STATION, Mayaguez, P. R.
Bulletin, nos. 3-4.
- PRATT INSTITUTE FREE LIBRARY, Brooklyn, N. Y.
Report, 1903.
- PRESTO PUBLISHING COMPANY, Chicago, Ill.
Presto, current numbers (gift).
- PREUSS, TH., Berlin, Germany.
3 pamphlets.
- PRINCETON UNIVERSITY, Princeton, N. J.
Bulletin, current numbers.
Catalogue, 1903-04.
- PROVIDENCE ATHENÆUM, Providence, R. I.
Quarterly bulletin, current numbers.
Report, 68th.
- PROVIDENCE PUBLIC LIBRARY, Providence, R. I.
Annual report, 26th, 1903.
Bulletin, current numbers.
- PURDUE UNIVERSITY, Lafayette, Ind.
Annual catalogue, 1903-04.
Bulletin, agricultural experiment station, current numbers.
- QUEENSLAND. DEPARTMENT OF MINES, Brisbane, Queensland.
Geological survey report, nos. 184-189.
2 maps.
- QUEENSLAND. ROYAL SOCIETY, Brisbane, Queensland.
Proceedings, v. 18, 1904.
- RAILWAY AND LOCOMOTIVE ENGINEERING PUBLISHING COMPANY, New York City.
Journal, current numbers.
- RAND-McNALLY, Chicago, Ill.
Bird life stories.
Grammar school geography, with three other books.
- RANDALL, T. A., AND COMPANY, Indianapolis, Ind.
Clay-worker, current numbers (gift).
- REDWOOD LIBRARY AND ATHENÆUM, Newport, R. I.
Annual report, 1902-03.
- RENNES. BIBLIOTHÈQUE DE L'UNIVERSITE, Rennes, France.
Travaux scientifique, v. 2, no. 3.
- REVUE GENERALE DES SCIENCES, Paris, France.
Revue, current numbers.

- RHODE ISLAND AGRICULTURAL EXPERIMENT STATION, Kingston, R. I.
Annual report, 15th, 1902; 16th, 1903.
Bulletin, current numbers.
- RHODESIA MUSEUM, Bulawayo, Rhodesia, South Africa.
Annual report, 1902-1903.
Special report, no. 1-2.
- RICE, WILLIAM M., Middletown, Conn.
Twenty-five years of scientific progress.
2 reprints (gift).
- RICHET, CHARLES, Paris, France.
Revue scientifique, current numbers.
- RIES, HEINRICH, Washington, D. C.
1 reprint.
- ROCHESTER ACADEMY OF SCIENCES, Rochester, N. Y.
Proceedings, v. 4, pp. 136-148.
- ROGER WILLIAMS PARK MUSEUM, Providence, R. I.
Bulletin, no. 1.
- ROME. REALE ACCADEMIA DEI LINCEI, Rome, Italy.
Atti, current numbers.
Rendiconti, current numbers.
- ROSE POLYTECHNIC INSTITUTE, Terra Haute, Ind.
Catalogue, 1904.
- ROTH, WALTER, Brisbane, Queensland.
Ethnological studies among the northwest-central Queensland aborigines.
North Queensland ethnography, bulletins, nos. 1-7.
- ROYAL ANTHROPOLOGICAL SOCIETY, Sydney, Australia.
Science of man, current numbers.
- ROYAL ASIATIC SOCIETY, CEYLON BRANCH, Shanghai, Asia.
Journal, nos. 52, 54.
- ROYAL ASIATIC SOCIETY, STRAITS BRANCH, Singapore, Asia.
Journal, no. 40.
- ROYAL HORTICULTURAL SOCIETY, London, England.
Journal, v. 28.
- SAINT LAURENT COLLEGE, Montreal, Canada.
Bulletin, nos. 18-19.
Catalogue, 1904.
- SAINT LOUIS. ACADEMY OF SCIENCES, Saint Louis, Mo.
Transactions, current numbers.
- SAINT LOUIS MERCANTILE LIBRARY ASSOCIATION, Saint Louis, Mo.
Annual report, 58th.
- SAINT LOUIS UNIVERSITY, Saint Louis, Mo.
Catalogue, 1903-04.
- SAINT PAUL PUBLIC LIBRARY, Saint Paul, Minn.
Annual report, 22d, 1903.
- SAINT PETERSBURG. ACADEMIA IMPERIALE DES SCIENCES, Saint Petersburg, Russia.
Bulletin, current numbers.
Memories, v. 10, nos. 1-2.
Travaux du musée botanique, no. 1.
- SAINT PETERSBURG. SOCIÉTÉ IMPERIALE DES NATURALISTES, Saint Petersburg, Russia.
Travaux, vs. 30-34; v. 35, nos. 1-4.
- SAINT VIATEUR'S COLLEGE, Bourbonnais, Illinois.
The viatorian, current numbers.

- SALEM PUBLIC LIBRARY, Salem, Mass.
Bulletin, current numbers.
Trustees' report, 1903.
- SAN SALVADOR. MUSEO NACIONAL, San Salvador.
Anales, v. 1, nos. 1-8 (gift).
- SANDERS, JAMES G., Columbus, Ohio.
Coccide of Ohio.
- SAO PAULO. INSTITUTO AGRONOMO DO ESTADO, Sao Paulo, Brazil.
Boletim, ser. 4, no. 12; ser. 5, nos. 1-6.
- SARAWAK MUSEUM, Sarawak, Borneo, India.
Report, 1903.
- SCHALLER, W. T., Washington, D. C.
1 reprint.
- SCHMIDT, MAX, Berlin, Germany.
4 reprints.
- SCHUCHERT, CHARLES, Washington, D. C.
3 reprints.
- SCOTT, W. B., Ottawa, Canada.
Canadian yearbook, 1903 (gift).
- SELER, EDUARD, Berlin, Germany.
Gesammelte abhandlungen zur Amerikanischen sprach und alterthums-
kunde, vs. 1-2.
- SENCKENBERGISCHE NATURFORSCHENDE GESELLSCHAFT, Frank-
fort-on-the Main, Germany.
Bericht, 1903.
- SHELFORD, R., Sarawak, India.
Mimetic insects and spiders from Borneo and Singapore.
- SHOOTING AND FISHING PUBLISHING COMPANY, New York City.
Shooting and fishing, current numbers (gift).
- SINCLAIR, WILLIAM J., Oakland, Cal.
Exploration of the Potter Creek cave.
2 pamphlets (gift).
- SKIFF, F. J. V., Field Columbian Museum, Chicago, Ill.
American Institute of Mining Engineers, Transactions, vs. 32-33; List,
1903 (gift).
- SMITH, J. C., New Orleans, La.
2 reprints.
- SMITH, JOHN D., Baltimore, Md.
Enumeratio plantarum Guatemala, pts. 3-4.
Primitive flore Costaricensis, v. 2, no. 2.
Undescribed plants from Guatemala, nos. 2, 4-7, 9-26.
- SMITHSONIAN INSTITUTION, Washington, D. C.
Annual report, 1902.
Bureau of American Ethnology,
Annual report. 17th-20th.
Bulletin, nos. 1-5, 7-9, 11, 14-27.
Contributions to knowledge, no. 1413; index, v. 29.
List of publications, 1846-1903.
Miscellaneous collections, v. 44; v. 45, pts. 1-2.
Solar eclipse expedition of the astrophysical observatory for 1900.
U. S. National Museum.
Annual report, 1901-1902.
Proceedings, v. 27.
Special bulletin, 4, pts. 1-2.
- SMULSKI, J., Chicago, Ill.
1 pamphlet.

- SOCIEDAD CIENTIFICA "ANTONIO ALZATE," Mexico, Mexico.
Memorias y revista, current numbers.
- SOCIEDAD ESPANOLA DE HISTORIA NATURAL, Madrid, Spain.
Boletin, v. 3.
Memorias, v. 1; v. 2, nos. 1-4.
- SOCIEDAD MEXICANA DE HISTORIA NATURAL, Mexico, Mexico.
La naturaleza, ser. 2, v. 1, nos. 2-10; vs. 2-3.
- SOCIEDADE PERSEVERANCA E AUXILIO, Maccio, Brazil.
Relatorio, 1901-02.
- SOCIETA GEOGRAFICA ITALIANA, Rome, Italy.
Bollettino, current numbers.
- SOCIETA ITALIANA DI ANTHROPOLOGIA, Firenze, Italy.
Archivio per l'anthropologia, v. 33.
- SOCIETA ITALIANA DI SCIENZE NATURALI IN MILANO, Milano, Italy.
Atti, v. 42, nos. 2-4; v. 43, nos. 1-2.
- SOCIETA TOSCANA DI SCIENZE NATURALI, Pisa, Italy.
Atti, current numbers.
Atti, processi verbali, v. 13, pp. 155-192.
- SOCIÉTÉ DES AMERICANISTES, Paris, France.
Journal, v. 3, no. 1.
- SOCIÉTÉ DES SCIENCES, Nancy, France.
Bulletin, ser. 3, v. 4, no. 4.
- SOCIÉTÉ DES SCIENCES NATURELLES, Reims, France.
Bulletin, current numbers.
- SOCIÉTÉ DES SCIENCES NATURELLES DE SAONE-ET-LOIRE, Chalon-sur-Saone, France.
Bulletin, current numbers.
- SOCIÉTÉ FRIBOURGEOISE DES SCIENCES NATURELLES, Fribourg, Switzerland.
Berichte, v. 13.
Bulletin, v. 11.
Memoires:
Chemistry, v. 2, no. 1.
Geology, v. 3, no. 1.
Mathematics and physics, v. 1, no. 1.
- SOCIÉTÉ ZOÖLOGIQUE DE FRANCE, Paris, France.
Bulletin, v. 28.
- SOCIETY FOR PHYSICAL RESEARCH, Boston, Mass.
Proceedings, v. 18, nos. 47-48.
- SOUTH AFRICAN MUSEUM, Cape Town, Cape of Good Hope, S. A.
Annals, v. 3, no. 4; v. 4, nos. 1-6.
Annual report, 1903.
- SOUTH AFRICAN PHILOSOPHICAL SOCIETY, Cape Town, S. A.
Transactions, v. 14, pts. 2-5; v. 15, pt. 1.
- SOUTH AUSTRALIA. PUBLIC LIBRARY, MUSEUM, AND ART GALLERY, Adelaide, S. Aus.
Report, 1902-03.
- SOUTH AUSTRALIA. ROYAL SOCIETY, Adelaide, S. Aus.
Transactions, v. 27, pt. 2.
- SOUTH CAROLINA AGRICULTURAL EXPERIMENT STATION, Clemson, S. C.
Bulletin, current numbers (gift).
- SOUTH DAKOTA AGRICULTURAL EXPERIMENT STATION, Brookings, S. D.
Bulletin, current numbers (gift).
- SOUTH DAKOTA STATE SCHOOL OF MINES, Rapid City, S. D.
Catalogue, 1904-05.



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LIBRARY
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UNITED STATES

- SOUTHERN CALIFORNIA ACADEMY OF SCIENCES, Los Angeles, Cal.
Bulletin, vs. 1-2; v. 3, nos. 1-6.
- SOUTHERN PACIFIC RAILWAY COMPANY, San Francisco, Cal.
Sunset magazine, v. 12, nos. 4-6; v. 13 (gift).
- SPRINGFIELD CITY LIBRARY ASSOCIATION, Springfield, Mass.
Annual report, 1903, 1904.
Report of the museum of natural history, 1902-1904.
1 pamphlet.
- STATEN ISLAND. NATURAL SCIENCE ASSOCIATION, Staten Island,
N. Y.
Proceedings, current numbers.
- STEIERMARK. NATURWISSENSCHAFTLICHER VEREIN, Gratz, Sty-
ria, Austria.
Mitteilungen, 1903.
- STEVENS, NETTIE MARIA, Bryn Mawr, Pa.
1 pamphlet.
- STEVENS INSTITUTE OF TECHNOLOGY, Hoboken, N. J.
Catalogue, 1904-05.
- STOCKHOLM. KONIGL. VETTERHETS HISTORIE OCH ANTIQUITETS
AKADEMIEN, Stockholm, Sweden.
Manadsblad, 1808-99, 1901-1902.
- STORRS AGRICULTURAL EXPERIMENT STATION, Storrs, Conn.
Annual report, 15th, 1902-03.
Bulletin, current numbers.
- STRASSBURG. KAISER-WILHELMS-UNIVERSITAT, Strassburg, Ger-
many.
Stiftungsfest, 1904.
40 dissertations.
- STRETTON, CLEMENT E., Leicester, England.
History of railway, with two other papers.
- SWARTH, HARRY S., Los Angeles, Cal.
Birds of the Hauchuca Mountains, Arizona (gift).
- SYDERE, ARTHUR H., Toronto, Canada.
86 government reports.
- SYRACUSE UNIVERSITY, Syracuse, N. Y.
Contributions from the zoological laboratory, v. 1.
- TEXAS ACADEMY OF SCIENCE, Austin, Texas.
Transactions, v. 5.
- TEXAS AGRICULTURAL EXPERIMENT STATION, College Station, Texas.
Bulletin, current numbers (gift).
- TEXAS UNIVERSITY, Austin Texas.
Bulletin, mineral survey, nos. 6-8.
Bulletin, scientific series, nos. 1-2.
- THEOSOPHICAL SOCIETY, Chicago, Ill.
Theosophical review, current numbers (gift).
- TOKYO BOTANICAL SOCIETY, Tokyo, Japan.
Botanical magazine, current numbers.
- TORINO. MUSEI DI ZOOLOGIA ED ANATOMIA COMPARATA, Torino,
Italy.
Bollettino, v. 17, nos. 433-458.
- TORINO. R. ACCADEMIA DELLE SCIENZE, Torino, Italy.
Atti, current numbers.
- TORONTO UNIVERSITY, Toronto, Canada.
Calendar of the University of Toronto and its colleges, 1904-1905.
- TRELEASE, WILLIAM, St. Louis, Mo.
2 reprints.

- TRING ZOÖLOGICAL MUSEUM, Tring, England.
Novitates zöologica, v. 10, nos. 3-4; v. 11, nos. 1-2.
- TRINITY COLLEGE, Dublin, Ireland.
Hermathena, no. 29.
- TRIVANDRUM GOVERNMENT MUSEUM AND PUBLIC GARDENS,
Trivandrum, India.
Report, 1902-1904.
- TRONCOSO, F. DEL PASO Y, Firenze, Italy.
1 pamphlet.
- TRONDHJEM, K. NORSKE VIDENSKABERS SELSKABS, Trondhjem,
Norway.
Skriiten, 1902.
- TUBINGEN ROYAL UNIVERSITY LIBRARY, Tubingen, Germany.
7 pamphlets.
- TUFTS COLLEGE, Tufts College, Mass.
Studies, no. 8.
- UNION UNIVERSITY, Schenectady, N. Y.
Catalogue, 1903-04.
- VAN HISE, C. R., Madison, Wis.
1 reprint.
- VEEDER, M. A., Lyons, Mass.
1 reprint (gift).
- VERMONT AGRICULTURAL EXPERIMENT STATION, Burlington, Vt.
Annual report, 16th, 1902-03.
Bulletin, current numbers.
- VERMONT UNIVERSITY, Burlington, Vt.
Catalogue, 1903-04.
- VILLENOISY, FRANCOIS DE, Paris, France.
10 separates.
- VIRCHOW, HANS, Berlin, Germany.
3 reprints.
- U. S. DEPARTMENT OF AGRICULTURE, Washington, D. C.
Bureau of Animal Industry:
Bulletin, current numbers.
Circular, current numbers.
Report, 19th, 1902.
Bureau of Chemistry:
Bulletin, current numbers.
Circular, current numbers.
Bureau of Plant Industry:
Bulletin, current numbers.
Bureau of Statistics:
Bulletin, current numbers.
Circular, current numbers.
Card index, nos. 1093-1206.
Crop reporter, current numbers.
Division of Entomology:
Bulletin, current numbers.
Circular, current numbers.
Division of Foreign Markets:
Bulletin, current numbers.
Circular, current numbers.
Division of Forestry:
Bulletin, current numbers.
Circular, current numbers.
Report, 1903.
Index cards to publications, issue no. 10.
North American fauna bulletin, no. 23.

- U. S. DEPARTMENT OF AGRICULTURE—continued.
- Office of Experiment Station:
 - Bulletin, current numbers.
 - Circular, current numbers.
 - Experiment station record, v. 15.
 - Progress of the beet industry, 1903.
 - Report of the secretary, 1903.
 - Yearbook, 1903.
- U. S. DEPARTMENT OF COMMERCE AND LABOR, Washington, D. C.
- Bureau of Fisheries:
 - Report, 1902-1903.
 - Reprints, 337-350.
 - Bureau of Statistics:
 - Consular reports, current numbers.
 - Special reports, vs. 5, 28-30.
- U. S. DEPARTMENT OF THE INTERIOR, Washington, D. C.
- Bureau of Education:
 - Report, 1902.
 - Census Office:
 - Bulletins of the 12th census, nos. 5-10.
 - Special reports, 1-3.
 - Commissioner of Indian Affairs:
 - Report, 1903, pt. 1.
 - Geological Survey:
 - Annual report, 24th.
 - Bulletins, nos. 208, 211, 217-222, 225-226, 228-231.
 - Mineral resources, 1902.
 - Monographs, nos. 45-46.
 - Professional papers, 11-12, 15-20.
 - Water supply and irrigation papers, nos. 80-87.
- U. S. GOVERNMENT PRINTING OFFICE, Washington, D. C.
- Catalogue, current numbers.
- U. S. LIBRARY OF CONGRESS, Washington, D. C.
- Biblioteca Filipina: Pardo de Tavoro.
 - Books on the Philippine islands.
 - Report of the librarian, 1903.
 - Select list of recent purchases in certain departments of literature, 1901-03.
- UNITED STATES NAVAL ACADEMY, Annapolis, Maryland.
- Annual register, 1903-04.
- U. S. TREASURY DEPARTMENT, Washington, D. C.
- Coast and Geodetic Survey:
 - Report, 1903.
 - Director of the Mint:
 - Report, 1903.
 - Production of precious metals:
 - Report, 1902.
- U. S. WAR DEPARTMENT, Washington, D. C.
- Index catalogue, ser. 2, v. 9.
 - Official army register for 1904.
 - Register of the navy of the United States and marine corps, 1904.
- UPSALA UNIVERSITY LIBRARY, Upsala, Sweden.
- Results of the Swedish zoölogical expedition to Egypt and the White Nile, 1901, pt. 1.
 - Sweden, its people and its industries.
 - 6 inaugural dissertations.
- UTAH. AGRICULTURAL COLLEGE, Logan, Utah.
- Annual report, 14th, 1903.
 - Bulletin, current numbers.
 - Circular, nos. 1-2 (gift).

- VICTORIA. FIELD NATURALISTS' CLUB, Melbourne, Victoria.
Victorian naturalist, current numbers.
- VICTORIA. PUBLIC LIBRARY, MUSEUMS, AND NATIONAL GALLERY, Melbourne, Victoria.
Report, 1901-02.
- VICTORIA. ROYAL SOCIETY, Melbourne, Victoria.
Proceedings, pts. 1-2.
- VICTORIA UNIVERSITY LIBRARY, Toronto, Canada.
Publication, no. 2.
- VICTORIA. ZOÖLOGICAL AND ACCLIMATISATION SOCIETY, Melbourne, Victoria.
Annual report, 3d, 5th-7th, 22d, 24th, 27th-28th, 31st-34th, 36th-40th.
- VIENNA. ROYAL LIBRARY, Vienna, Austria.
Anica iuliana in Wiener dioskonides Kodex.
- VIRGINIA AGRICULTURAL EXPERIMENT STATION, Blacksburg, Va.
Bulletin, current numbers (gift).
- VIRGINIA UNIVERSITY, Charlottesville, Va.
Bulletin, current numbers (gift).
- WAGNER FREE INSTITUTE OF SCIENCE, Philadelphia, Pa.
Transactions, v. 3, pt. 6.
- WARD, HENRY A., Chicago, Ill.
Catalogue of the Ward-Coonley collection of meteorites.
- WASHINGTON ACADEMY OF SCIENCES, Washington, D. C.
Proceedings, current numbers.
- WASHINGTON BIOLOGICAL SOCIETY, Washington, D. C.
Proceedings, current numbers.
- WASHINGTON CITY. VOLTA BUREAU, Washington, D. C.
Reprints of useful knowledge, no. 39.
- WASHINGTON PHILOSOPHICAL SOCIETY, Washington, D. C.
Bulletin, current numbers.
- WASHINGTON STATE AGRICULTURAL COLLEGE, Pullman, Wash.
Bulletin, nos. 52-57, 59 (gift).
- WASHINGTON UNIVERSITY, St. Louis, Mo.
Catalogue, 1903-1904.
- WASHINGTON UNIVERSITY, Seattle, Wash.
Catalogue, 1904 (gift).
- WEBSTER, W. H., Wauiku, New Zealand.
1 reprint (gift).
- WELLESLEY COLLEGE, Wellesley, Mass.
Calendar, 1903-04.
- WELLINGTON ACCLIMATIZATION SOCIETY, New Zealand, Australia.
Annual report, 19th.
- WESLEYAN UNIVERSITY, Middletown, Conn.
Bulletin, nos. 33-34.
Catalogue, 1903-04.
- WEST VIRGINIA AGRICULTURAL EXPERIMENT STATION, Morgantown, W. Va.
Bulletin, current numbers (gift).
- WEST VIRGINIA GEOLOGICAL SURVEY, Morgantown, W. Va.
Report on coal, v. 2.
Supplementary report on petroleum and natural gas, v. 1-A.
- WESTERN AUSTRALIA GEOLOGICAL SURVEY, Perth, Western Australia.
Annual progress report, 1902.
Bulletin, nos. 8-10, with maps.
Boulder belt map and sections.
- WIEN. K. K. NATURHISTORISCHES HOFMUSEUM, Wien, Austria.
Annalen, v. 18, pts. 2-4.

- WIEN. NATURWISSENSCHAFTLICHER VEREIN, Wien, Austria.
Mitteilungen, 1903, nos. 1-6.
- WIEN. ROYAL UNIVERSITY LIBRARY, Wien, Austria.
Feierliche inauguration des rectoris, 1902-04.
Offentliche vorlesungen, 1903-04.
Ubersicht fur akademischen behorden, 1903-04.
- WIESBADEN. NASSAUISCHER VEREIN FUR NATURKUNDE, Wiesbaden, Germany.
Jahrbucher, v. 56.
- WILLE, N., Christiana, Norway.
Algologische notizen, nos. 9-14, with 1 reprint.
- WILLIAMS COLLEGE, Williamstown, Mass.
Catalogue, 1903-04.
- WINDSOR AND KENFIELD PUBLISHING COMPANY, Chicago, Ill.
Brick, current numbers.
Street railway review, current numbers (gift).
- WISCONSIN ACADEMY OF SCIENCES, ARTS, AND LETTERS, Madison, Wis.
Transactions, v. 13, pt. 2; v. 14, pt. 1.
- WISCONSIN AGRICULTURAL EXPERIMENT STATION, Madison, Wis.
Annual report, 20th.
Bulletin, current numbers.
- WISCONSIN ARCHÆOLOGICAL SOCIETY, Milwaukee, Wis.
Wisconsin archaeologist, v. 2, nos. 1-3.
- WISCONSIN GEOLOGICAL AND NATURAL HISTORY SURVEY, Madison, Wis.
Bulletin, economic ser. v. 11, no. 7; v. 13, no. 8.
Bulletin, scientific ser. v. 12, no. 3.
- WISCONSIN STATE HISTORICAL SOCIETY, Madison, Wis.
Historical collection, v. 1 (reprint).
Proceedings, 51st annual meeting, 1903.
- WISCONSIN UNIVERSITY, Madison, Wis.
Bulletin, current numbers.
- WORCESTER. FREE PUBLIC LIBRARY, Worcester, Mass.
Annual report, 44th, 1902-03.
Bulletin, current numbers.
- WRIGHT, G. F., Oberlin, Ohio.
3 reprints.
- WURTEMBERG. VEREIN FUR VATERLANDISCHE NATURKUNDE, Stuttgart, Germany.
Jahreshefte, vs. 59-60.
- WYOMING AGRICULTURAL EXPERIMENT STATION, Laramie, Wyo.
Bulletin, current numbers (gift).
- WYOMING HISTORICAL AND GEOLOGICAL SOCIETY, Wilkesbarre, Pa.
Proceedings and collections, v. 8.
- WYOMING UNIVERSITY, Laramie, Wyo.
Catalogue, 1904-1905.
- YALE UNIVERSITY, New Haven, Conn.
Catalogue, 1903-04.
Report of the president, 1903-04.
Yale University museum, 2 pamphlets.
- ZIMANY, KARL, Budapest, Austria.
1 pamphlet.
- ZURICH. BOTANISCHER GARTEN, Zurich, Switzerland.
Mitteilungen, nos. 19-20.
- ZURICH. NATURFORSCHENDE GESELLSCHAFT, Zurich, Switzerland.
Vierteljahrsschrift v. 48.

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. 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, }
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 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 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.	SCHNEIDER, GEORGE
EASTMAN, SIDNEY C.	SKIFF, F. J. V.
ELLSWORTH, JAMES W.	SMITH, BYRON L.
GAGE, LYMAN J.	SMITH, WILLARD A.
GETTY, HENRY H.	SPRAGUE, A. A.
GUNSAULUS, FRANK W.	STOCKTON, JOSEPH
GUNTHER, C. F.	STONE, MELVILLE E.
HARPER, WILLIAM R.	WALKER, EDWIN
HATCH, AZEL F.	WALSH, JOHN R.
HEAD, FRANKLIN H.	

DECEASED.

ARMOUR, PHILIP D.	LEITER, L. Z.
BAKER, WILLIAM T.	McCLURG, A. C.
BISSEL, GEORGE F.	McNALLY, ANDREW
CRAWFORD, ANDREW	PEARCE, J. IRVING
DAVIS, GEORGE R.	PETERSON, ANDREW
FITZSIMONS, CHARLES	PULLMAN, GEORGE M.
HALE, WILLIAM E.	SCOTT, JAMES W.
JACKSON, HUNTINGTON 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.
- GARTZ, A. F.
GRISCOM, CLEMENT A.
GROMMES, JOHN B.
- HAMILL, ERNEST A.
HEALY, P. J.
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.
KIMBALL, W. W.
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
SCHNEIDER, GEORGE
SCOTT, ROBERT S.
SEAVERN, GEORGE A.
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.
ALLERTON, MRS. S. W.
AMBERG, WILLIAM A.
ARMOUR, GEORGE A.
- BAILEY, EDWARD P.
BAKER, SAMUEL
BANGA, DR. HENRY
BARNES, CHARLES J.
BARRELL, JAMES
BATCHELLER, W.
BEAUVAIS, E. A.
BECKER, A. G.
BELDEN, J. S.
BILLINGS, C. K. G.
BILLINGS, DR. FRANK
BIRKHOFF, GEORGE, JR.
BLACKMAN, W. L.
BLAINE, MRS. EMMONS
BLAIR, HENRY A.
BOAL, CHARLES T.
BOTSFORD, HENRY
BOUTON, C. B.
BOUTON, N. S.
BRADWELL, JAMES B.
BRAUN, GEORGE P.
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.
CHAPPELL, C. H.
COMSTOCK, WILLIAM C.
CONKLING, ALLEN
CONOVER, CHARLES H.
COOLBAUGH, MRS. ADDIE R.
- COOLIDGE, CHARLES A.
COONLEY-WARD, MRS. L. A.
CORWITH, CHARLES R.
COWN, 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.
DODGE, G. E. P.
DUMMER, W. F.
DUNHAM, MISS M. V.
DURAND, ELLIOTT
DWIGHT, JOHN H.
- EDMUNDS, ABRAHAM
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.
FÜRST, CONRAD
- GATES, J. W.
GAYLORD, FREDERIC
GIBBS, JAMES S.
GIFFORD, I. CUSHMAN
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.
HANECY, 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
HOUGHTELING, JAMES L.
HUTCHINSON, MRS. B. P.

INGALS, E. FLETCHER
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.
LAFLIN, GEORGE H.
LAMB, FRANK H.
LAWSON, VICTOR F.
LAY, A. TRACY
LEE, WALTER H.
LEFENS, THIES J.
LEIGH, EDWARD B.
LINCOLN, ROBERT T.
LINN, W. R.
LOYD, 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.
MARKWALD, LIEUT. ERNST
MAY, FRANK E.
MAYER, DAVID
MAYER, LEVY
MEAD, W. L.
MERRICK, L. C.
MERRYWEATHER, GEORGE
MEYER, MRS. M. A.
MILLER, CHARLES P.
MILLER, JOHN S.
MILLER, THOMAS
MIXER, C. H. S.
MOORE, L. T.
MOORE, N. G.
MORRIS, EDWARD
MORRIS, IRA
MORRIS, NELSON
MULLIKEN, A. H.
MULLIKEN, CLARENCE H.

NATHAN, ADOLPH
NOLAN, JOHN H.
NORTON, O. W.
NOYES, LA VERNE W.

OEHNE, THEODORE
ORB, JOHN A.
ORTSEIFEN, ADAM
OSBORN, HENRY A.

PALMER, MILTON J.
PALMER, PERCIVAL B.
PARKER, FRANCIS W.
PATTERSON, W. R.
PEARSON, EUGENE H.
PECK, CLARENCE I.
PETERS, HOMER H.
PETERSEN, GEO. L.
PETERSON, WM. A.

PINKERTON, W. A.
 POPE, MRS. CHARLES B.
 PORTER, WASHINGTON
 RANDALL, THOMAS D.
 RAYNER, JAMES B.
 REHM, JACOB
 REID, W. H.
 RIPLEY, E. P.
 ROBINSON, J. K.
 ROSENBAUM, JOSEPH
 ROSENFELD, MAURICE
 ROSENTHAL, MRS. OSCAR
 RUMSEY, GEORGE D.
 RUNNELS, J. S.
 RYERSON, MRS. MARTIN

SCHAFFNER, JOSEPH
 SCHMIDT, DR. O. L.
 SCHMITT, ANTHONY
 SCHWARTZ, G. A.
 SEARS, JOSEPH
 SEIPP, MRS. C.
 SEIPP, W. C.
 SELFRIDGE, HARRY G.
 SELZ, MORRIS
 SHEDD, JOHN G.
 SHIPMAN, DANIEL B.
 SHORTALL, JOHN G.
 SKINNER, THE MISSES
 SMITH, F. B.
 SNOW, MISS HELEN E.
 SOPER, JAMES P.
 SOUTHWELL, H. E.

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 SPOOR, J. A.
 STEELE, HENRY B.
 STOCKTON, JOHN T.
 STUART, ROBERT
 TEMPLETON, THOMAS
 TILTON, MRS. L. J.
 TOBEY, FRANK B.
 TRIPP, C. E.
 TRUDE, A. S.
 TURNER, E. A.
 UHLEIN, EDWARD G.
 UNZICKER, OTTO
 VIERLING, ROBERT

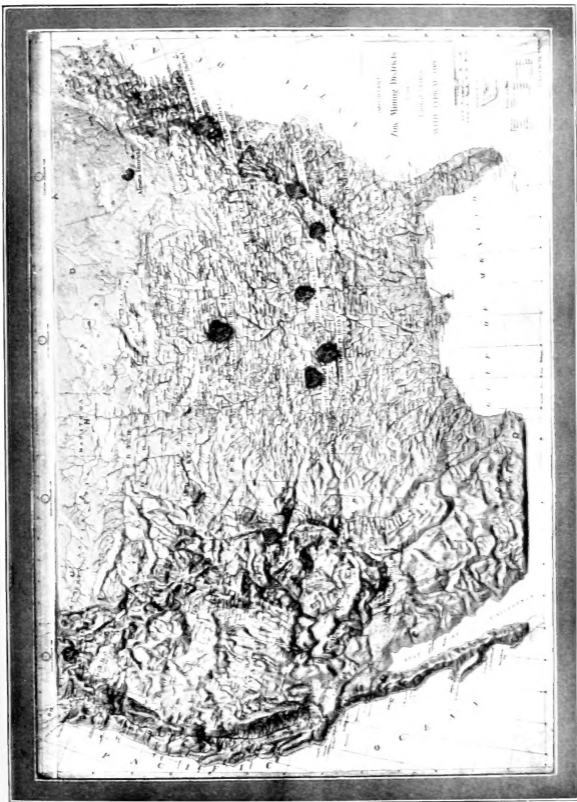
WACKER, CHARLES H.
 WALKER, GEORGE C.
 WALKER, JAMES R.
 WALKER, WILLIAM B.
 WALLER, EDWARD C.
 WARNER, EZRA J.
 WEBSTER, GEORGE H.
 WHITE, A. STAMFORD
 WHITEHEAD, W. M.
 WICKES, T. H.
 WILSON, E. C.
 WILSON, M. H.
 WINK, HENRY
 WOLF, FRED. W.
 WOOD, S. E.
 WOODCOCK, LINDSAY T.
 WOOSTER, CLARENCE K.

 DECEASED.

LOWTHER, THOMAS D.

PERRY, LEWIS S.

WILLING, MRS. HENRY J.



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