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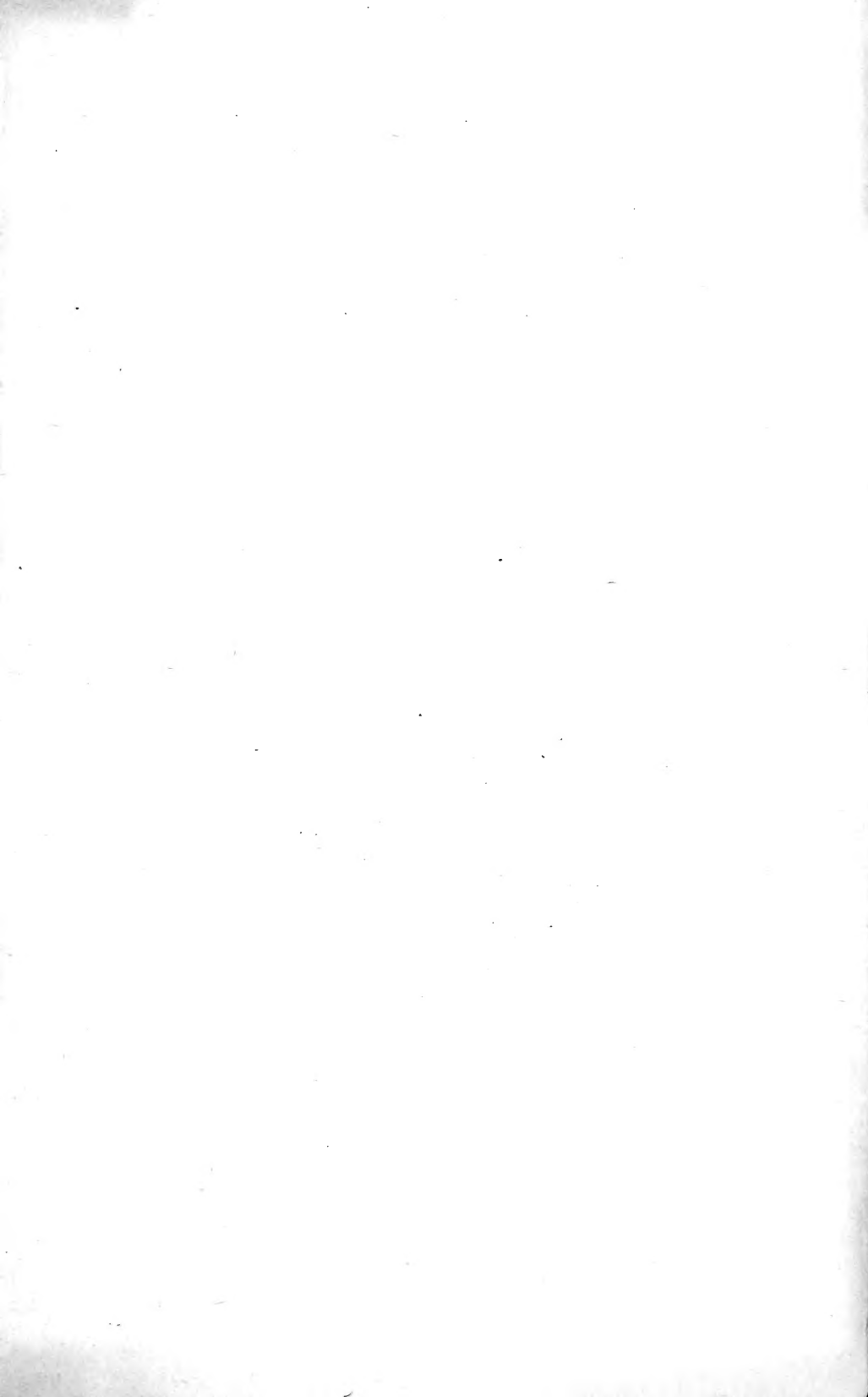
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PUBLICATIONS  
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REPORT SERIES

VOLUME I

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CHICAGO, U. S. A.

1894-1900.





FIELD COLUMBIAN MUSEUM

PUBLICATION 6

REPORT SERIES.

VOL. I, No. I.

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ANNUAL REPORT OF THE  
DIRECTOR

TO THE

BOARD OF TRUSTEES

FOR THE YEAR 1894-95



CHICAGO, U. S. A.

October, 1895.



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# ANNUAL REPORT OF THE DIRECTOR.

1894-1895.

To the Trustees and Members of the Field Columbian Museum.

I have the honor to present a report of the operations of the Museum for the year closing September 30, 1895. Much of the work of this first full year has necessarily been of a preparatory character and of systematizing the methods for conducting the affairs of the Institution. Necessarily also from the very nature of the circumstances under which the original installation was accomplished, much re-arrangement and re-adjustment has been carried on in all of the departments. And as to the building itself and its interior arrangement, considerable reconstruction and re-adaptation has been demanded to render the building more fit for the unexpected uses to which it is now devoted. Viewing its present condition, it would seem almost as if nothing had been done. And yet in contemplating what has been accomplished from the commencement, the criticism of idleness will certainly not fall upon the executive force.

**INCOME AND MAINTENANCE.**—In accordance with the instructions of the Executive Committee, the Director prepared in January last a budget of the income and cost of maintenance for the actual year of 1895. The total estimated income for the year was \$70,770. The estimated expense for the year was \$104,296. An effort has been made to increase the revenue and decrease the expenses, with the result that by taking the actual figures for nine months of the year to October 1, and estimating very carefully and conservatively the figures likely to be made for the three remaining months, it is found that the income for 1895 will be \$74,095, and that the cost of maintenance for 1895 will be \$80,672, a very gratifying contrast with the estimate made the first of the year. These figures do not include special cash donations, nor do they include special appropriations for material and permanent improvements made by the Executive Committee.

**THE MEMBERSHIPS.**—The By-laws published elsewhere in this report explain the different characters of memberships and disclose the conditions under which they may be secured. Under the direction of the Secretary of the Corporation, nominations for Annual Mem-

berships were made in quite large numbers at the beginning of this year, and thus far 723 persons have accepted election. Besides securing to the Museum an effective constituency in many ways, these memberships provide a very considerable annual revenue, and it is believed that with proper effort the number may be largely augmented from year to year. Only one Honorary Life Member has been elected, Professor Charles B. Cory, of Boston, and thus far but one Life Member has been elected, Mr. Wm. J. Chalmers, of Chicago. Mr. Allison V. Armour has been elected a Patron.

**LECTURE COURSES.** The lecture courses were inaugurated in December, 1894. Since that date four courses have been projected, numbering altogether twenty seven lectures. Most of these lectures have been illustrated by stereopticon views, for which special apparatus was purchased by the Museum. The first three courses were given during the season of 1894-95. For lecturers the Museum depended primarily upon the Curators of the Museum, but the courses were augmented both in extent and interest by lecturers from the University of Chicago, the Museum of Archeology of the Ohio University, the Chicago Academy of Sciences; Lake Forest University, the Geographical Society of California, etc.

Admission to these lectures was free to the public, although for the first two lectures of the first course complimentary admission tickets were sent to the officials and constituency of the Museum. As this was found to entail considerable extra expense and trouble, however, the method was abandoned and the doors were thrown open to the public indiscriminately.

The first course, as given, was as follows:

- Dec. 15. "A Trip to Greenland." (Illustrated).  
Prof. T. C. Chamberlain, University of Chicago.
- Dec. 22. "Movements of the Earth's Surface."  
Prof. R. D. Salisbury, University of Chicago.
- Jan. 5. "How Gold Occurs in Nature."  
H. W. Nichols, Curator of Economic Geology, Field  
Columbian Museum.
- Jan. 12. "The Ancient Volcanoes of the Yellowstone." (Illustrated).  
Prof. J. P. Iddings, University of Chicago.
- Jan. 19. "The Extraction of Iron from Its Ores." (Illustrated).  
H. W. Nichols.
- Jan. 26. "History of Gold Mining in the United States."  
Prof. R. A. F. Penrose, University of Chicago.

These lectures were well attended at the start, but during the coldest weather showed some diminution in numbers present. As the



courses proceeded, however, and as, through the aid of the press of Chicago, the value of the lectures was brought more prominently before the public, the attendance gradually grew larger, and in the next course the lecture hall was invariably crowded beyond its seating capacity.

The second course was as follows:

- Feb. 2.—“Pre-Columbian Man in Ohio.” (Illustrated.)  
Warren K. Moorehead, Curator of Archeology, Ohio State University, etc.
- Feb. 9.—“Life Among the Cliff Dwellers.” (Illustrated.)  
Warren K. Moorehead.
- Feb. 16.—“The Story of a Birch Tree.”  
Dr. Selim H. Peabody, President Chicago Academy of Sciences.
- Feb. 23.—“The Other Half of the Discovery.” (Illustrated.)  
Edward Morris Brigham, formerly connected with the Smithsonian Institution.
- Mar. 2.—“Theories of Evolution.”  
Prof. John M. Coulter, President of Lake Forest University.
- Mar. 9.—“The Fishes of Illinois and Adjacent Regions.” (Illustrated).  
Dr. O. P. Hay, Assistant Curator of Ichthyology, Field Columbian Museum.
- Mar. 16.—“The Structure and Constitution of Meteorites.” (Illustrated).  
Prof. O. C. Farrington, Curator of Geology, Field Columbian Museum.

The third course was as follows:

- Mar. 23.—“Giants of Other Days as Revealed in the Zoology of the Past.”  
Part 1. “Reptiles.” (Illustrated).  
Prof. D. G. Elliot, Curator of Zoology, Field Columbian Museum.
- Mar. 30.—“Giants of Other Days.”  
Part 2. “Birds and Mammals.” (Illustrated).  
Prof. D. G. Elliot.
- Apr. 6.—“Cats and the Lands They Inhabit.” (Illustrated).  
Prof. D. G. Elliot.
- Apr. 13.—“Through Death Valley.” (Illustrated).  
Mr. Frederick I. Monsen, of the Geological Society of California.
- Apr. 20.—“Yucatan, the Land of Picar and Cuido.” (Illustrated).  
Lecture First—“Along the Coast.”  
Dr. Charles Frederick Millspaugh, Curator of Botany, Field Columbian Museum.

- Apr. 27. "Yucatan, the Land of Picar and Cuido." (Illustrated).  
Lecture Second—"In the Interior."  
Dr. Charles Frederick Millspaugh.

The fourth course of lectures was planned for the Saturday afternoons of October and November, 1895, and began on October 5, the programme being as follows:

- Oct. 5. "Cats and the Lands They Inhabit."  
(Repeated by request).  
Prof. D. G. Elliot, Curator of Zoology, Field  
Columbian Museum.
- Oct. 12. "Living Pictures of Invertebrate Animals."  
Prof. A. H. Cole, University of Chicago.
- Oct. 19. "Edible and Poisonous Mushrooms."  
Dr. Charles Frederick Millspaugh, Curator of Bot-  
any, Field Columbian Museum.
- Oct. 26. "A Chapter in the Early History of Chicago."  
Prof. O. C. Farrington, Ph. D., Curator of Geology,  
Field Columbian Museum.
- Nov. 2. "Structure and Natural History of Sharks."  
O. P. Hay, Ph. D., Assistant Curator of Ichthyology,  
Field Columbian Museum.
- Nov. 9. "On the Origin of Coal."  
H. W. Nichols, Curator of Economic Geology, Field  
Columbian Museum.
- Nov. 16. "The Ethnology of the Japanese."  
S. Chogo, Commissioner of Fine Arts, Imperial Jap-  
anese Commission, World's Columbian Exposi-  
tion.
- Nov. 23. "Archeology and Episodes of Travel in Mexico."  
Prof. W. H. Holmes, Curator of Anthropology,  
Field Columbian Museum.
- Nov. 30. "Origin and Development of the Native Architecture of  
Mexico." Prof. W. H. Holmes.

The course was opened auspiciously by Prof. Elliot, the lecture hall being comfortably filled. This lecture course has been brought prominently before the universities of Chicago and vicinity, and the public school principals and teachers.

PUBLICATIONS. The first edition of the Guide to the Museum was prepared during the early spring of 1894, and appeared in time for the opening day, June 1. Owing to the somewhat unsettled state of the collections at that time, there was much difficulty in preparing accurate plans, or even descriptions. This Guide contained 248 pages and provided a systematic, although condensed, presentation of all the material then in the Museum, indicating the location by

hall and case numbers. An appendix contained a list of the donors, contributors of loan collections, and collectors' names. The numerous changes and arrangement of material entailed much alteration of the proof, so that the edition was more expensive than usual. The edition was 3,000. The second edition of the Guide was published as soon as the first was exhausted, and the opportunity was taken advantage of to make the numerous changes required by re-installation. This edition was also of 3,000. A subsequent edition of 3,000 was issued in March of this year.

In October, 1894, a plan was outlined for a series of scientific and historical publications which should be the medium of presenting to the world the results of the research and investigation conducted under the auspices of the Museum. The publications are intended primarily to convey information upon the collections and expeditions of the Museum. There is no restriction, however, as to authorship or subject, provided the papers come within the scope of scientific or technical discussion. Each number as issued is treated as a separate monograph on the subject, so that the publication series includes what in other museums and scientific institutions appear under the title of transactions, memoirs, bulletins or catalogues. In order to provide for volume binding, a sectional plan has been adopted, and the following series have thus far been established: Historical, Geographical, Botanical, Zoological and Anthropological. Each series has its own volume numbers and consecutive pagination. This plan has the obvious advantage that the publications of each department are kept distinct, and when bound for library use the numbers are already classified according to subjects. Another great advantage is in enabling the Museum to enlarge its exchange list; instead of sending an entire set of publications in each case, only that series is sent to an institution or individual that is of especial interest thereto. The following publications have been issued:

Pub. 1.—Hist. Ser., Vol. 1, No. 1. An Historical and Descriptive Account of the Field Columbian Museum.

Pub. 2.—Hist. Ser., Vol. 1, No. 2. The Authentic Letters of Columbus.

William Eleroy Curtis, Honorary Curator of the Columbus Memorial.

Pub. 3.—Geol. Ser., Vol. 1, No. 1. Handbook and Catalogue of the Collection of Meteorites.

Oliver C. Farrington, Curator of Geology.

Pub. 4.—Bot. Ser., Vol. 1, No. 1. Flora of Yucatan.

Charles Frederick Millsbaugh, Curator of Botany.

## In Press and Preparation:

Anthropol. Ser., Vol. 1, No. 1, Pt. 1. Studies Among the Ancient Cities of Mexico.

W. H. Holmes, Curator of Anthropology.

Anthropol. Ser., Vol. 1, No. 1, Pt. 2. Studies Among the Ancient Cities of Mexico.

W. H. Holmes, Curator of Anthropology.

Zool. Ser., Vol. 1, No. 1. Vertebral Column of *Amia*.

O. P. Hay, Assistant Curator of Ichthyology.

Bot. Ser., Vol. 1, No. 2. Flora of West Virginia.

Charles Frederick Millspaugh and L. W. Nuttall.

Four of the Museum publications have already been distributed. The scientific institutions to whom the publications have been sent were selected with special reference first, to their prominence and size; second, ability to send in exchange publications of scientific value, third, eagerness for the publications. The following statement shows the distribution in this country: Trustees, 15; Staff, 13; Corporate Members, 56; Annual Members, 723. General—Museums, 16; Scientific Societies, 62; Universities, Schools and Colleges, 67; Libraries, 122. Special—Anthropology, 21; Botany, 81; Geology, 114; History, 20; Industrial Arts, 21; Transportation, 16; Zoology, 16. (Note. Only Botanical, Geological and Historical series have been issued.) Acknowledgments for these publications have been received from the ablest scientists and their words of commendation are a source of much gratification to the Museum. The quotation of a sentence or two from the letters of professors of the leading universities of the country will be pardoned. "I am very much gratified to see the strong movement the Museum is making in the line of scientific publications of a high order." "I wish to congratulate the Field Columbian Museum on issuing such a publication." "It is very neatly gotten out and will have considerable value aside from a mere catalogue of the collections. Your plates are particularly good."

"An Historical and Descriptive Account of the Field Columbian Museum," was sent by mail soon after issuance to the principal museums and scientific institutions of foreign countries. Since that time the Museum has availed itself of the privileges of the Bureau of International Exchanges of the Smithsonian Institution, by which means packages of literature can be forwarded to any foreign address without charge to the Museum, beyond that of delivery to the Smithsonian Institution at Washington. The foreign list of the Museum as far as made up comprises: General—Museums, 58; Libraries, 2; Academies, 11; Institutes, 4; Journals, 9; Schools, 9; Societies, 43. Special—Anthropology, 13; Botany, 40; Geology, 110; Industrial

Arts, 2; Transportation, 2; Zoology, 23. A printed acknowledgment form is sent with each publication so that the Museum may be more certain to be apprised of the receipt of the publications. A request is added in each case that the publications of the recipient be sent in exchange. About 100 personal letters have been written requesting that back volumes be sent to complete sets of books, journals, etc., already on the shelves of the Library, or asking to be placed on the permanent mailing list for contemporaneous publications.

**LIBRARY**—The Library was organized in March, 1894. At that time the collections of books on hand were 1,390 titles from the Department of Ethnology, and 350 titles from the Department of Mines and Mining of the Exposition. The Kunz collection of books on Geology, Gems, Metallurgy, etc., and the Baltimore and Ohio collection on Transportation were added shortly afterward. There were 6,300 titles and 460 titles respectively in these two libraries. The Cory collection on Ornithology, consisting of 587 volumes was purchased and added to the Library on October 5, 1894. Through the generosity of Beloit College the splendid ornithological library of Edward E. Ayer has been conditionally presented to the Museum.

The total number of books accessioned and inventoried to October 1, 1894, was: Gifts, 2,864; loans, 869, purchases, 3,406. The accessions during the year October, 1894, to October, 1895, have been: Gifts, 421 bound volumes, and 465 pamphlets; loans, 123 bound volumes and 79 pamphlets; purchases, 1,170 bound volumes, 51 unbound volumes, and 16 pamphlets. All books published in foreign countries have been purchased through agents in London, Berlin and Leipzig. Most American books have been purchased through Chicago houses. \$3,500.00 was appropriated for the purchase of books for the Library, of which approximately \$1,000.00 was spent for general reference works, sets of scientific periodicals, etc., and about \$500.00 for books in each of the Departments of Anthropology, Botany, Geology, Zoology and Industrial Arts. The whole number of periodicals subscribed for is 94. A large number of the volumes received from the Department of Ethnology of the Exposition were unbound, and as a matter of preservation were sent to the bindery, together with the accumulating numbers of current scientific periodicals and old sets of unbound but valuable publications. The total number of volumes bound is 495. The large collection of pamphlets acquired in the "Kunz Collection" have been classified according to subjects, and fastened in cheap bindings, making them thus available for immediate and constant use.

A new system of shelf classification has been prepared on the

decimal system and the books have been labeled and marked both with subject and author-number. A shelf list card catalogue, containing about 9,000 cards, has been written and is used as a subject catalogue to the books. Some 5,000 cards have been written on the author-catalogue—about one third of the work necessary to finish this catalogue. A card catalogue has also been commenced of books of science and technology in the different Chicago Libraries, with a reference to the Library where located; the idea being to provide the Curators with means of knowing what literature on a given scientific subject is to be found in the city, and also to avoid purchasing for the Museum Library expensive books already in other libraries of the city. This is a typewritten catalogue, and probably five or six thousand cards have already been prepared, but a large amount of work is, of course, still necessary to complete the catalogue. The Library has been quite generally and constantly used by the Curators. The number of books drawn for desk use by Curators during the year amounts to some 630 volumes. All periodicals are reserved for the use of Curators for three days. After this time they are exposed upon the tables of the reading-room for public use and remain there until the receipt of new numbers. Out of a total of 52 periodicals constantly exposed on the tables in this way only two numbers have been abstracted.

The ultimate plan of organization for the Library is upon the departmental system, according to which the more important reference works, encyclopedias, sets of periodicals, etc., will be reserved in the main library room, with smaller libraries in each department containing books bearing distinctly upon that department. Departmental libraries are already commenced in the departments of Geology and Ornithology.

RECORDS.—The system of recording accessions and inventorying specimens has worked efficiently. A set of records for "Accession Catalogues" is kept in the office of the Recorder, one book for each Department, in which the accessions are entered as soon as received. Besides the Accession Record the Recorder keeps an "Announcement Record," which is an account of all material expected to arrive or to which the Museum is entitled; a "Transportation Record," in which is entered the facts pertaining to the transportation and receipt of material; a "Distribution Record," which gives the history of the material sent away from the Museum as a gift, loan or sale; a "Storage Record," accounting for the collections put away for future use. The archives contain all the correspondence pertaining to the accessions, including copies of the letters of the Director in each case. These files of papers are jacketed and numbered,

corresponding to the numbers of the catalogue. Correspondence relating to offers of material are preserved in the same manner and an alphabetical card index containing all names that enter into the correspondence is kept for each set of files.

The catalogue of specimens or "Department Inventory" is prepared by the Curators of departments. A set of books has been provided each department and the inventoring is being pushed as rapidly as time and circumstances permit. The cataloguing of specimens is, of course, an immense undertaking, but the progress thus far made is satisfactory. In this direction the following has been accomplished: Department of Anthropology, 15,000 cards; Department of Botany, 9,041 entries; Department of Geology, 8,000 entries, 4,000 cards; Department of History, 1,455 entries; Department of Industrial Arts, 3,261 entries; Division of Transportation 7,251 entries; Department of Zoology, 388 entries; Department of Ornithology, 1,900 entries; Library, 9,551 entries.

ACCESSIONS.—A detailed list of all of the accessions received for the Museum, either from donations, loans, deposits, for examination, Museum expeditions, and purchases, accompanies this report. As will be observed, the number of the accessions during the year has been quite large; statistics do not signify much where there is such a variation in the size and character of the accessions themselves. Your attention is therefore directed to a few of the larger and more notable acquisitions. The material received through Museum expeditions, especially that of Mr. Allison V. Armour, referred to elsewhere, has added a large amount of valuable scientific material to the collections of several departments. The donations and purchases in Egyptian archeology has enabled the Department of Anthropology to devote an entire hall to their exhibition, and helps to fill the great need of material illustrating the archeology of the Old World. Friends of the Museum have been liberal in their donations to the Department of Botany, and particular mention should be made of the generous contributions of Mrs. M. S. Snyder, who has sent extensive collections of both phanerogamic and cryptogamic plants. The Department of Geology, besides acquiring a large amount of new material by the recent visit of the Curator to the New England States, has been the recipient of numerous individual specimens and complete suites of ores and minerals. An equipment of microscopic and scientific apparatus for cutting sections of rock and mineral for microscopic examination will enable the Curator to carry on lines of investigation that would otherwise have been impossible. In the Department of History the parts of the group of the Columbus Quadriga were assembled in the Museum model room and

added to the statuary of the Columbian Rotunda. A number of the souvenirs of the Exposition have been courteously donated by interested friends. In the Department of Industrial Arts the principal additions have been to the textile room. Several prominent weavers of Belfast, Ireland, have contributed to the completeness of the processes illustrated in the textile collection. A number of new collections have added to the attractiveness of the new ceramic hall. The favrile glassware collection of the Tiffany Glass and Decorative Co., and the sets of early American china gathered in Pennsylvania, by Mr. F. A. Benson, for the Museum, should be particularly mentioned. Upon the application of the Museum to English pattern, Wm. Ait & Co., exhibitors at the Exposition, donated a set of modern English ware in large sizes. Notable progress has been made in extending the collections of the Department of Zoology. A large lot of skins of mammals, principally from tropical habitats, have been purchased in London. These were mounted by the Museum Taxidermist and will make effective groups when all are placed in position. A collection of shells, of rodents, and a number of minor vertebrate animals have also been purchased and are now being prepared, classified and labeled for display. A collection of Colorado birds, including 114 species and 130 specimens, has been purchased for the Department of Ornithology, and considerable field work has been undertaken to gather a typical series of birds from Chicago and vicinity.

EXPEDITIONS AND FIELD WORK—Although a great deal of work that might properly come under the head of expeditions has been done during the year, only three regular expeditions have been sent out by the Museum. One to Yucatan and the Islands and States of Mexico, the other to the West Indies, and the third to Alaska and Siberia.

In October, 1874, Mr. Allison V. Armour, of this city, invited Dr. McSpencer, of the Department of Botany, and Prof. Holmes, of the Department of Anthropology, to accompany him on his yacht to Havana, Progress, the islands on the east coast of Yucatan, Laguna de Termas, and Vera Cruz. On this expedition the Curator of Botany fitted out for making collections in both Zoology and Botany and for general photography. His work resulted in the acquisition of nearly eight hundred specimens in botany, which formed the types included in his "Flora of Yucatan," and considerable material for exchange to augment the small herbarium in his department. He also secured about four hundred specimens in Zoology, principally Conchology, and a number of excellent negatives relating to Geology, Botany, Ethnology and Travel. Having met with a serious accident



in one of the early days of the trip which hampered his work from the start and finally compelled his return to America before the Expedition had covered half its itinerary, the collections were far smaller than his hopes and inclinations had promised. Prof. Holmes fitted out for surveys and observations in Archeology. He secured at all points a large amount of valuable information that he is now embodying in a contribution to the Museum publications, illustrating his work from the wealth of sketches obtained by him on the trip. He secured altogether about one thousand specimens in Archeology from Yucatan, Chiapas, Oaxaca, Vera Cruz and the valley of Mexico. He also established desirable scientific connections and correspondents in all parts of the country visited, and, as with Dr. Millspaugh, secured a knowledge of the countries and the peoples visited that will be of great value in future work. The expedition as a whole was out for three months, and during that time covered a great deal of very interesting territory, much of it theretofore unvisited by scientists. Four lectures in the Museum course have resulted from the trip, two delivered by Dr. Millspaugh in the Spring series, and two by Prof. Holmes scheduled in the present course. All of the expenses of the expedition were borne by Mr. Armour, and to him the Institution and the Curators who accompanied him are indebted for the priceless results obtained.

The expedition to San Domingo was conducted by Mr. Geo. K. Cherrie, Assistant Curator in the Department of Ornithology. He departed in November, 1894, and returned in the latter part of May, 1895. His work was very thorough, very laborious, at times quite dangerous, and exceedingly successful. Most of his work was done in the interior and on the Caribbean slope and along the Nigua river, and the climatic danger to which the Curator was subjected is apparent from the fact that four of his guides were stricken with fever during his stay upon the Island. Mr. Cherrie obtained one thousand nine hundred and fifty-eight bird skins, sixteen mammals, eighty reptiles, and a number of specimens of fish and crustacea. Among the birds, two species proved new to science and a number of others are very interesting as representing rare and little known forms.

Capt. Miner W. Bruce, unattached, but a student in Ethnology and an explorer in the Northwest, of repute, was outfitted by the Museum for an expedition to Alaska and Siberia in June, 1894. Capt. Bruce failed to reach the point of his destination last season on account of an accident to the machinery of the vessel in which he sailed, but he will undertake the work again this season, using the material he had purchased for exchanges last year. Resulting thus far from the expedition has been the acquisition of valuable

ethnologic material from North Alaska, which will find its way to the Museum after its exhibition by Capt. Bruce at the Exposition at Atlanta, where it is at the date of this report.

President Ayer visited Egypt in January last, remaining about two months and obtaining by purchase a large amount of very valuable, unique and generally interesting Egyptian archeologic material. The collections arrived here safely in May and June, and having been attractively installed, add largely to the growing interest of the Egyptian suite of halls.

Prof. O. P. Hay, Assistant Curator of the Department of Zoology, has made a number of local trips collecting material in the Ichthyology, Herpetology and Conchology of Illinois. His collections have added to the Museum series about seven hundred specimens and one hundred and fifteen species. Specimens of the Illinois river shells were sent to the Smithsonian Institution for identification.

Mrs. M. S. Snyder, of Champaign, Ill., has been a very successful volunteer collector for the Museum in the Botany of Lower California. The lady carefully identified and splendidly mounted two hundred and three specimens and seven species of Algae and one hundred and eighty four specimens, and thirty-seven species of phanerogamic plants.

Prof. Farrington, the Curator of Geology, has accomplished considerable work in the field during the past year, his labors including a survey of the rocks of the Green Mountain Chain as exposed in Western Massachusetts and Northern Connecticut; of the Triassic rocks of the Connecticut Valley; a study of the emery deposits at Chester, Mass., and of the features of the local geology made visible by the excavations for the Chicago Drainage Canal. The work in Massachusetts and Connecticut was carried on in company with several other geologists under the guidance of Prof. Emerson, of Amherst College, and Prof. Hobbs, of the University of Wisconsin. A complete series of specimens illustrating the different formations of the Green Mountains and the rocks of the Connecticut Valley was obtained, and several specimens illustrating structural features. At Chester, Mass., a collection was made which illustrates fully the mode of occurrence of the emery, the rocks by which it is surrounded and the minerals which accompany it. This will form a part of the collection illustrating abrasives in the Department of Economic Geology. Study of the Drainage Canal has been carried on by means of visits of from one to four days in length, which offered opportunity for collecting specimens from the material that is being excavated and for taking photographs of the specimens as they were exposed. In this latter work the photographer of the Museum

has rendered valuable assistance. About sixty large photographs have been obtained and a number of fossils and specimens illustrating glacial and other phenomena.

**SOUTH PARK COMMISSIONERS**—The appropriation by the Board of South Park Commissioners of \$15,000 per annum, to be applied to the maintenance of the Museum has been one of the gratifying and encouraging incidents of the year. It is a substantial evidence of the co-operative and helpful attitude of the Commissioners. The Director begs to acknowledge the very friendly and cordial attitude maintained at all times, and often under very trying circumstances, by the Superintendent of the South Park system, and his subordinates. They have aided the Museum effectively whenever the opportunity presented itself.

**PHOTOGRAPHY**.—The necessity arising for photographic work of a nature that the general photographer could not execute, such for example as illustrating publications and lectures, as well as preserving numerous conditions and objects that could in no other way be illustrated in the collections of the Museum, it was determined, in October, to establish a photographic section for work for all the departments of the institution. The Curator of the Department of Botany, who is skilled in the required processes, consented to take charge of the work. One of the rooms in the North Balcony makes an excellent dark chamber, and three cameras with the necessary lenses, one micro-camera and microscope, and the materials and chemicals needed were procured. The work soon became of greater volume than could be performed without assistance in the detail and routine, and an assistant was given Dr. Millspaugh from the staff of the Librarian. The results of the photographic work are as follows: Negatives made, 310; photo-prints, 115; lantern slides for lectures, 119; prints to illustrate publications, 42; photographs taken on expeditions, 131. Fully as much work as was performed in the last year is already on hand for immediate attention.

**PRINTING**.—A printing office was established in the latter part of March to execute the large amount of labels and general printing that is so necessary in the Museum. The intention is to replace all of the hand-written, and in many cases, illegible labels, with printed ones, and each department of the Museum has commenced upon this process of substitution. The amount of labor involved in such an undertaking is, of course, very large, and the establishment of an office was, therefore, not only a necessary but an

economic step. The total number of specimen titles printed for different departments has been as follows: Department of Anthropology, 651; Department of Geology, 1,508; Department of History, 140; Department of Industrial Arts, 1,187; Division of Steam Transportation, 262; Department of Zoology, 688, also much general work. The announcements for lecture courses and all of the blank forms used in the Museum are now issued from the Museum printing office.

EXPOSITION RECORDS.—By order of the Executive Committee, the room of that Committee was offered to and accepted by the World's Columbian Exposition for the purpose of storing and indexing the papers and records of the Exposition, preparing final reports, etc. Two fire-proof vaults were constructed by the Exposition under the rooms of the Executive Committee, and the adjoining room, No. 10, entrance to which is accomplished by means of a stairway leading from the Executive Committee room. In these vaults have been stored the records and correspondence and vouchers and papers generally of the Exposition, of which the Museum, it is understood, is to eventually become the custodian.

WAREHOUSE AND WORKSHOP.—The purchase of a warehouse and workshop, by order of the Executive Committee, which building is located on the corner of Fifty-sixth Street and Jefferson Avenue, has provided the institution with ample room for storage purposes and with rooms for carpentry, modeling and plaster work, and for taxidermy, three kinds of labor which could not be permitted within the Museum building as at present arranged. The small rooms, in what may be termed, the second galleries of the Courts, which it was thought might be utilized for these purposes, have by force of circumstances been pre-empted by the Curators of Botany, Zoology and Ornithology for laboratories, by the poisoning and disinfecting laboratory, by the guards and by the departments of printing and photography. These twelve rooms are already inadequate for the purposes to which they are devoted, and more room for working is already one of the great needs of the Museum.

LIGHT AND HEAT.—The most important permanent improvements during the past year have been the construction of steam heating and electric light plants, which systems are installed in a new boiler house at the west of the building, and have given the greatest satisfaction in operation. The steam plant has three 100 H. P. boilers, 12,000 feet of steam pipe and 70 radiators. The electric light plant has a capacity of forty 1,200-candle power arc lamps. The problem of heating the immense area within the Museum walls was one that required the most serious consideration. It was found

impossible to heat the four great courts with their height of seventy-eight feet, and it was an almost hopeless undertaking to warm the eighty spacious doorless halls. But the necessity for it compelled a means. The entrances to the halls leading from the courts and leading in and out of the long and narrow annex passages were fitted with large movable partitions filling the entire space, in which doors were constructed. By this means all the exhibition halls were enclosed, and being provided in each case with ample steam radiation, a minimum temperature of about 55 degrees was ordinarily maintained throughout the building. The boiler plant being located at the West Annex, it was feared that steam in sufficient quantity could not reach the East Annex. But the construction was so excellent and the return system so capable that all of the halls maintained about the same temperature except on very cold days. The courts are treated as streets, and visitors seem to readily adapt themselves to this condition of affairs. This arrangement practically closes the Department of Botany during the colder months, for, except on the few warm days of the winter season, it is impossible to view the collections there with any satisfaction. Covering the grille work around the sky-lights of the halls with asbestos, of which 15,000 square feet was used, aided very much in creating an agreeable temperature throughout the building.

The only occasion for lighting the building is for patrol purposes, as the Museum is never open to the public after dark. A judicious disposition of the forty arc lamps has amply illuminated the interior of the building and given six lamps for the patrol of the outside of the structure.

The question of light and heat naturally assumes an entirely different phase during the hot months, when the sun driving down upon the sky-lights creates an intensity of heat and a glare of light that at times become unbearable. To obviate this, sun curtains of unbleached muslin were hung under all of the ceiling lights throughout the building and under the great sky-lights in the main roof. This lessened the heat rays very noticeably, and softened the theretofore blinding sunlight.

INSTALLATION, RE-ARRANGEMENT AND PERMANENT IMPROVEMENTS.  
—The largest amount of work under this head has been performed upon the roof. The eight gables on the East and West Annexes, have been covered with tin. Two domes, have been covered with tin; 3,000 square feet of corrugated iron have been put on the roof, while aprons to keep out the snow, and six new fire-proof scuttles have been constructed and covered. Wall strips, gutters, ridge strips and stair domes have been repaired and constructed to the extent of about 5,000

square feet. 39,000 feet of lumber were consumed in bracing the 40 sky-lights in the roof. 200 lights of glass have been placed in the roof during the year. The painters have gone over 163,856 square feet of surface during the year.

Department of Zoology.—Halls 19, 22, and 23 have been opened, fitted with new cases, and filled with material that had been crowded into the cases of other halls. An iron gallery for the use of the Curator of Ornithology and the storage of skins has been constructed in Hall 27. Halls 20, 25, and 26 have been re-arranged and cases and bases re-painted.

Department of Geology.—In Halls 60 and 61 new easels have been constructed and all the relief maps re-painted or re-touched. The West Rotunda statistical column has been rebuilt with iron framework. The Laboratory has been fitted up with working benches, storage cases, etc. Hall 79 has been re-arranged, cases re-painted, new glass put in upright cases, statue of Vulcan in iron and copper transferred from East Court and re-erected. Halls 62, 63, 64, 66, 67, 68, 70, 72, 76, 77, and 78 each have had attention in the nature of either repairs, re-painting, new sash, new bases, new cases entire, glass, etc.

Department of Anthropology.—In Halls 4, 5, 6, 7, 10, 11, 16, and 17, old cases have been re-backed and re-painted, and storage bases provided for flat cases. Halls 13 and 15 have been provided with storage bases with drawers, and new cases for the gold collection. In Hall 18 a new center case has been built and a re-arrangement of suspended installation carried out.

East Court.—Entire re-installation. The old engine models were presented to Armour Institute and other large objects, donated to the Museum, were removed by the donors. The Court, being added to the Department of Anthropology, was installed with new material, and material crowded from the adjoining halls. Alcoves 81, 85, 86, 89, 90, 91 and 92 have all been re-arranged, cases placed on new bases, and general repairs and improvements made. Halls 1, 2 and 3 have been re-arranged, with entirely new cases, most of the material displaced by the re-arrangement being either re-installed in the North Court Alcoves or sent to the warehouse.

North Court.—New installation in new cases containing collections of antique glass, the reproductions of the Naples bronzes and the Irish antiquities. Six partitions were erected in the North Court forming new alcoves. In this Court 19 new cases have been placed and all of the old cases re-painted.

West Court.—In the West Court few changes have been made except that a row of cases of shells has been installed on the south side of the Court.

Department of Botany.—Very little expense has been called for in the Department of Botany, the original installation seeming to have met all requirements.

Department of Industrial Arts.—Hall 33 has been opened in this Department and devoted to ceramics, while Halls 30 and 31, textiles, have been entirely re-installed. In these three halls, and in 32, thirty-four new cases have been fitted, and eighteen new bases placed. One hundred and seven frames for the tapestry collection have been provided and hung in Hall 30 and in Lecture Hall.

Division of Transportation.—Many models have been re-covered, re-bronzed, and re-painted, and many repairs and improvements made in Halls 46 to 53 inclusive. Boat Hall and the Burden-Bearer suite have been re-arranged, cases and bases re-painted, new glass put in, new railings constructed, and a general re-arrangement of all of the material contained therein.

Columbus Memorial.—Many alterations and re-arrangements have been made in Halls 8 and 9. The pictures have been re-hung and much of the material which was rather hurriedly placed in position has been cared for and put in a more satisfactory condition.

Lecture Hall—Has been re-fitted as an audience room, furnished with a movable platform, rear and side doors, roof and base ventilators, stereopticon stand, two hundred new chairs, etc.

The Library—Has been enclosed with doors, tables in the reading-room have been partitioned and re-painted, and pictures hung therein, and railing and new filing cases constructed in the office of the Librarian.

Memorial Rotunda.—The model of the Quadriga has been constructed and placed in position. All of the models have been re-painted, and a passage from east to west and north and south through the collections has been provided by means of iron railings.

The above is a very brief, imperfect synopsis of the general work of the Museum during the year, and while indicating, in a measure, the amount of work performed, gives necessarily a very inadequate idea of it.

FIRE AND POLICE PATROL.—While there has been a sharp reduction in the cost of the protection of the building and its contents, there has been a marked increase in the efficiency of the service. The Fire Department is provided with a chemical carriage of the capacity of fifty-five gallons; two hose jumpers with five hundred feet of hose on each machine; forty-two hand chemicals, stationed in different parts of the building; one hundred and forty-eight pails of water with automatic lids, etc., stationed inside the Building, and one

hundred stationed on the roof; and sixteen barrels of water located on the roof. There are also eight hydrants in the building connected with a twelve-inch main constructed by the Museum from Stony Island Avenue to the Museum building, thus giving Hyde Park pressure within the building at all times. All exposed wood work has been covered with fire-proof paint, and tests made satisfy the management that the fire risk has been greatly reduced thereby. An inspection for danger is made not only throughout the building, but on the roof and in the basement, every two hours from six o'clock in the morning until ten o'clock at night. During the year gallery and roof traps have been constructed in different parts of the building, with iron ladders leading to the roof, thus increasing the facility for reaching the remote parts. A Fire Alarm system is in operation in the building, with twelve stations for alarm boxes.

The Guard is divided into three reliefs, with a Sergeant in charge of each. The Museum is provided with the American Watchman's Time Detector system, and indicating boxes are rung by the guards regularly when on duty. In Higginbotham Hall the guard rings the indicator every fifteen minutes at night, as does the guard at the entrance to the building. This hall is provided with automatic electrical alarm devices. The exterior of the building is patrolled by a guard during the night.

**LOST AND FOUND DEPARTMENT.**—A lost and found department is conducted in connection with the guards, and a careful record kept of anything lost or found. A great many objects and articles, and in some cases sums of money, purses, etc., have been returned to their owners through its agency.

**ROOF AND BASEMENT.**—Its condition has been such that it has been found necessary to have special men constantly at work and on guard on the roof. The winter of 1894-95 and the spring and summer seasons of this year have passed without any material damage to the interior of the building, from the roof. Severe storms of snow and rain and wind have been withstood in a very satisfactory, not to say surprising, manner. The extent of this work is referred to in more detail elsewhere, but its importance will be realized when it is considered that there are seven acres of roof and five acres of sky-light to be cared for.

Herewith is submitted financial statements, analysis of attendance, lists of accessions, names of members, etc., etc.

F. J. V. SKIFF,

DIRECTOR.



## FINANCIAL STATEMENT.

### RECEIPTS AND DISBURSEMENTS

During Year ending September 30, 1895.

#### RECEIPTS.

Cash in Treasurer's hands, Oct. 1, 1894, . . . . .	\$136,755.74	
Petty Cash on hand, . . . . .	978.20	\$137,733.94
Membership Account:—		
Annual, . . . . .	7,210.00	
Corporate, . . . . .	210.00	7,420.00
Chicago City Railroad Co., . . . . .		2,250.00
W. G. Hibbard, special Egyptology, . . . . .		1,000.00
Martin A. Ryerson, special department of Zoology, . . . . .		600.00
Alex. H. Revell, . . . . .		450.20
H. N. Higinbotham, special department of Industrial Arts		253.08
D. G. Hamilton, special Egyptology, . . . . .		250.00
D. W. Burrows, special Egyptology, . . . . .		50.00
B. F. Cummins Co., . . . . .		20.00
Divd. W. C. Exp., Stock:—		
H. P. Victor, . . . . .	1.00	
Josephine M. Gillette, Executrix, . . . . .	50.00	
J. K. George, . . . . .	2.00	
E. A. Simon, . . . . .	1.00	54.00
The McCormick Estate, . . . . .		10,000.00
H. H. Porter, . . . . .		5,000.00
Martin A. Ryerson, . . . . .		5,000.00
Geo. M. Pullman, . . . . .		100,000.00
Mary D. Sturges, . . . . .		50,000.00
South Park Commissioners, . . . . .		13,750.00
Proceeds of sale of old material, boilers, etc., . . . . .		1,341.94
Refund Uniforms (Guards and Janitors), . . . . .		241.65
Admissions to Museum, . . . . .		7,436.95
Check Rooms, . . . . .		1,952.55
Guide Account, two editions net profit (1,700 of 3rd		
Edition on hand Sept. 30, 1895), . . . . .		116.74
Interest Account:—		
On \$600,000 Temple Bonds . . . . .	30,000.00	
On 143 Shares Ill. Trust and Savings Bank . . . . .	1,501.50	
On 18 \$500 Calumet Club Bonds . . . . .	156.00	
On Sundry Mortgages . . . . .	520.56	
Amount allowed by Bank on Daily Balances . . . . .	1,231.24	33,409.39
		\$378,330.44

## DISBURSEMENTS.

Salaries, . . . . .		\$ 34,418.91
Guard Service, . . . . .		12,070.40
Janitor Service, . . . . .		6,925.50
Fire Protection		
Milton Weston Paint Co., . . . . .	\$ 7,400.15	
Alarm System, . . . . .	(999)	
Wages of Firemen, . . . . .	2,870.00	10,370.14
Light Account:		
People's Light & Power Co., . . . . .	1,704.02	
Hyde Park Gas Co., . . . . .	100.78	1,813.80
Building Account:		
Boiler House, . . . . .	1,713.10	
Ventilators, . . . . .	85.62	
Alteration in Toilet Rooms, . . . . .	228.78	2,027.50
Repairs Account:		
Wages of Carpenters, Painters, Plasterers, and Roofers, . . . . .	12,284.70	
Material used—Paints, Oils, Hardware, Glass and Lumber, . . . . .	2,407.42	14,782.21
Steam & Electric Light Plants Account:		
Installation of Steam Plant, . . . . .	10,421.47	
Installation of Electric Light Plant, . . . . .	3,177.37	
Operating Expenses—Wages, . . . . .	3,320.75	
Fuel, . . . . .	1,527.12	
Engineer's Supplies, . . . . .	106.55	21,853.26
Furniture and Fixtures Account:—		
Cases, Stands, etc., . . . . .	10,705.65	
Printing Press, Type, etc., . . . . .	286.60	
Stereopticon, Photographic Outfit, . . . . .	1,151.12	
Sundries, . . . . .	1,187.50	13,420.67
The Library:—		
Books Purchased, . . . . .	2,551.05	
Periodicals, etc., . . . . .	103.20	
Expense Account, . . . . .	179.55	2,834.70
Dept. of Anthropology:—		
Collections and Articles purchased, . . . . .	9,556.17	
Installation Expenses, Etc., . . . . .	1,042.32	10,598.49
Dept. of Botany:—		
Collections and Articles purchased . . . . .	25.00	
Installation Expenses, Etc., . . . . .	140.01	165.01
Dept. of Columbus Memorial:—		
Installation Expenses, . . . . .		11.11
Dept. of Exposition Memorial:—		
Modelling Quadriga, Wages and Material,		321.58
<i>Carried forward,</i> . . . . .		\$131,610.66

	<i>Brought forward, . . . . .</i>		\$131,619.66
Dept. of Industrial Arts:—			
	Collections and Articles purchased, . . . . .	\$1,615.82	
	Installation Expenses, . . . . .	456.61	2,072.43
Dept. of Geology:—			
	Collections and Articles purchased, . . . . .	1,288.35	
	Installation Expenses, . . . . .	350.61	1,638.96
Dept. of Ornithology:—			
	Collections and Articles purchased, . . . . .	333.00	
	Installation Expenses, . . . . .	29.98	362.98
Dept. of Zoology:—			
	Collections and Articles purchased, . . . . .	3,940.56	
	Installation Expenses, . . . . .	184.13	4,124.69
Div. of Railway:—			
	Paid B. & O. R. R., Acc't Contract \$25,000, . . . . .	8,452.78	
	(Total amount paid on above contract \$17,452.78)		
	Installation Expenses, . . . . .	68.57	8,521.35
General Expense Account:—			
	Freight, Expressage and Teaming, . . . . .	2,687.91	
	Stationery, . . . . .	471.44	
	Expeditions to Yucatan and West Indies, . . . . .	1,095.92	
	Cost of Publications Nos. 1 and 2, . . . . .	782.14	
	Telephone Service, . . . . .	171.83	
	Rent of Warehouse, . . . . .	176.00	
	Mailing, Printing, etc., Annual Membership Notices, . . . . .	1,071.75	
	Lecture Course Expenses, . . . . .	214.32	
	Doctor, Hospital and Druggist Bills, . . . . .	329.35	
	Incidentals, . . . . .	1,575.24	8,569.90
			<u>\$156,909.97</u>
Mortgages, etc., purchased, . . . . .		194,200.00	
Real Estate (Warehouse Property), . . . . .		10,186.00	
In Treasurer's hands, Sept. 30, 1895, . . . . .		16,294.52	
Petty Cash on hand, Sept. 30, 1895, . . . . .		739.95	221,420.47
			<u>\$378,330.44</u>

TOTAL INVESTMENTS, OCTOBER 1, 1895.

\$600,000 Temple Bonds @ 5% . . . . .	\$600,000.00
143 Shares Illinois Trust & Savings Bank, . . . . .	50,000.00
18 \$500 Calumet Bldg., Association Bonds @ 6% . . . . .	9,000.00
Sundry Bonds and Mortgages, approx. 5% per annum, . . . . .	135,200.00
	<u>\$794,200.00</u>

List of Cash Contributors to the  
FIELD COLUMBIAN MUSEUM

From its inception to October 1, 1895.

NAME	AMOUNT
Marshall Field, . . . . .	\$1,000,000.00
H. N. Higinbotham, . . . . .	100,000.00
Geo. M. Pullman, . . . . .	100,000.00
Mary D. Sturges, . . . . .	50,000.00
Frances E. Ogden, . . . . .	2,000.00
Tiffany & Co., . . . . .	10,000.00
D. K. Pearsons, . . . . .	5,000.00
The McCormick Estate, . . . . .	10,000.00
H. H. Porter, . . . . .	5,000.00
Martin A. Ryerson, . . . . .	5,000.00
P. D. Armour, . . . . .	10,000.00
J. W. Doane, . . . . .	5,000.00
Norman B. Ream, . . . . .	5,000.00
A. A. Sargent, . . . . .	5,000.00
Edson Keith, . . . . .	5,000.00
Lambert Tree, . . . . .	5,000.00
William A. Fuller, . . . . .	5,000.00
George F. Adams, . . . . .	5,000.00
R. T. Crane, . . . . .	5,000.00
A. C. Bartlett, . . . . .	5,000.00
C. L. Hutchinson, . . . . .	5,000.00
Martin A. Ryerson, special, Dept. of Zoology, . . . . .	600.00
Geo. E. Adams, . . . . .	300.00
W. G. Hibbard, account Egyptology, . . . . .	2,700.25
W. Vernon Booth, " " . . . . .	500.00
D. G. Hamilton, " " . . . . .	250.00
D. W. Burrows, " " . . . . .	50.00
F. S. Winston, " " . . . . .	83.33
Jas. W. Scott, " " . . . . .	83.34
Lyman J. Gage, " " . . . . .	83.33
Geo. F. Kunz, Account Library, . . . . .	65.00
W. T. Baker, Trustee, . . . . .	50.00
Alex. H. Revell, . . . . .	450.20
Dept. of Mines & Mining, World's Columbian Exposition, . . . . .	1,012.60
B. F. Cummins Co., . . . . .	20.00
World's Fair Banquet Fund, . . . . .	25.40
Divd. World's Fair Stock. See list of donors elsewhere . . . . .	132,358.00
	\$1,486,537.45

ATTENDANCE AND RECEIPTS FOR YEAR ENDING SEPT. 30, 1895.

Total Attendance, . . . . .		328,321
Paid Attendance:—		
Adults, . . . . .	29,164	
Children, . . . . .	1,458	30,622
Free Admissions on pay days:—		
School Children, . . . . .	7,035	
Students, . . . . .	1,777	
Teachers, . . . . .	306	
Members—Corporate, . . . . .	60	
Annual, . . . . .	726	
Press, . . . . .	10	
Officer's Family, . . . . .	77	9,989
Admissions on Free Days:—		
Saturdays, . . . . .	95,839	
Sundays, . . . . .	191,871	287,710

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Highest Attendance on any day (Oct. 14, 1894) . . . . .	10,952
Lowest Attendance " " " (Feb. 7, 1895) . . . . .	5
Highest paid Attendance, (July 4, 1895) . . . . .	575
Average Daily Admissions, (365 Days) . . . . .	900
Average paid Admissions, (261 Days) . . . . .	117

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RECEIPTS.

Guides sold, 2,849 @ 25 cents, . . . . .	\$ 712.25
Articles Checked, 39,051 @ 5 cents, . . . . .	1,952.55
Admissions, . . . . .	7,436.95
Total, . . . . .	<u>\$10,101.75</u>

## \*ACCESSIONS, 1893-94.

FROM FOUNDATION OF MUSEUM TO OCTOBER 1ST, 1894.

## DEPARTMENT OF ANTHROPOLOGY:

Donations	9
Loans	2
Exchanges	2
For Examination	1
Purchases	51
Total Accessions	65

## DEPARTMENT OF BOTANY:

Donations	43
Loans	6
Purchases	5
Total Accessions	54

## DEPARTMENT OF GEOLOGY:

Donations	146
Loans and Deposits	6
Exchanges	1
For Examination	1
Purchases	23
Total Accessions	177

## DEPARTMENT OF HISTORY:

Donations	50
Loans	10
Total Accessions	60

## DEPARTMENT OF INDUSTRIAL ARTS:—

Donations	183
Loans	8
Purchases	16
Total Accessions	207

## DIVISION OF TRANSLOCATION:

Donations	41
Loans	13
Purchases	2
Total Accessions	56

## DEPARTMENT OF ZOOLOGY:

Donations	8
Loans	1
Exchanges	1
Purchases	8
Total Accessions	18

## LIBRARY:

Donations	224
Loans	250
Purchases	347

Total Vols. and Examples. 713.

\* The number of specimens is given by the completed Departmental Inventories. An accession is material transferred at one time from one source, and may include a single specimen or a great collection.

## ACCESSIONS, 1894-95.

FROM OCTOBER 1, 1894, TO OCTOBER 1, 1895.

## DONATIONS.

## DEPARTMENT OF ANTHROPOLOGY.

- W. G. FORREST, Chicago.  
2 feather robes—Seris Indians, Gulf of California.
- JAMES W. SCOTT, Chicago.  
Amphora—Ancient Troy.
- W. B. WALTON, Big Foot Prairie, Ill.  
Large wooden bowl—South Sea Islands.
- JOHN B. CATON, Chicago.  
Chinese or Tartar gun.
- EDWARD E. AYER, Chicago,  
1 Buffalo skin, 1 lot of spear heads, 1 lot of stone implements, Indian basket.  
Indian baskets—Pacific Coast.
- DR. JOHN W. O'NEILL, Chicago.  
Archeological specimens—Yucatan.
- ALLISON V. ARMOUR,\* Chicago.  
Portion of hide and hair of a Mammoth—Siberia.
- WILLIAM G. HIBBARD, Chicago.  
Collection of ancient iron and brass utensils—Egypt.
- LAWRENCE C. MOORE, Chicago.  
Sculptured stone head—Florida.
- JOSEPH CLARK, Congo.  
Arrows—Upper Congo, Africa.
- EDMOND JOHNSON, Dublin, Ireland.  
Model of Dalway harp—Ireland.
- EUGENE ARNSTEIN, Chicago.  
Antique bedstead—Indiana.
- W. VERNON BOOTH, Chicago.  
Collection of ancient gold ornaments—Egypt.
- WARREN K. MOOREHEAD, Columbus, O.  
Plan of the Hopewell Group of Mounds, Ross Co., Ohio.  
Maps of Fort Ancient, Ross Co., Ohio.
- WESSELL, NICKEL & GROSS, New York.  
Evolution of the modern piano movement.
- A. BIERSTADT, New York.  
Indian skull—Island of San Salvador.

- F. MUNSON, Windsor Park, Ill.  
Relics from Egypt, Indian stone ax and other antiquities.
- DR. THEO. KODIS, Chicago.  
Small stone battle-ax—Lithuania, Poland.
- W. B. BULL, Quincy, Ill.  
Bronze stop-rock from Pompeii.
- NICARAGUA GOVERNMENT, through A. D. Strauss, New York.  
Collection of earthenware and articles of stone from ancient graves,  
Nicaragua, C.S.A.
- H. K. COALE, Chicago.  
Antique piano, made in 1820.
- WATSON F. BLAIR, Chicago.  
21 articles of bronze, 1 book—Egypt.
- MRS. F. E. AYER.  
6 Ushabtu figures.
- JOE I. DAY, Chicago.  
1 rain-coat, 1 hat—Japan.
- DEPARTMENT OF ETHNOLOGY, World's Columbian Exposition, through  
W. K. Moorehead.  
Archeological collection—Ohio.

## DEPARTMENT OF BOTANY.

- C. F. MILLSPAUGH, Chicago.  
Herbarium specimens.
- MRS. H. B. MINNER, Harvard, Ill.  
One frame of lichens.
- PROF. GEO. F. DAVENPORT, Medford, Mass.  
5 new species of ferns.
- MRS. M. S. SNYDER, Champaign, Ill.  
203 specimens of *Ulex*—La Jolla, Cal.  
Collection of *Ulex*—La Jolla, Cal.  
184 species of phanerogamic plants—La Jolla, Cal.  
7 species *Ulex*—La Jolla, Cal.  
37 species flowering plants—La Jolla, Cal.
- JAS. E. KETCHAM, Paw Paw, Ill.  
Limb of wild cherry showing "natural grafting."
- L. W. NUTTALL, Nuttallburg, W. Va.  
5 species parasitic fungi.
- MARTIN A. RYERSON, Chicago.  
350 species plants.

## DEPARTMENT OF GEOLOGY.

- MRS. WM. BLODGETT, Sharon Springs, Kans.  
Group of rolled pebbles of rock crystal.
- N. DIAZ, City of Mexico, Mexico.  
Catalog of meteorites.
- W. H. JACKSON, Denver, Col.  
Large photograph of Shoshone Falls, Idaho.
- J. H. KNIGHT, Chicago.  
Quartz Crystal.
- GEO. W. STOSE, Washington, D. C.  
Nodules of *Marcasite*.
- W. C. BREMNER, Chicago.  
Specimen of *Chalcedony*.
- F. A. HEALY, Chicago.  
8 specimens of *Brachiopods*.
- F. J. H. MERRILL, New York State Museum, Albany, N. Y.  
Geological map of the state of New York.



- E. R. SNABLE, Summit, Ill.  
Piece of limestone with bitumen.
- ILLINOIS STEEL CO., South Chicago, Ill.  
20 specimens of iron ores, 8 specimens fuels and slags.
- B. A. ECKHART, Sanitary District of Chicago.  
Map showing entire Drainage Canal.
- W. B. DAVENPORT, Chicago.  
7 specimens illustrating the occurrence of gold—Cal.
- MATTHIESSEN & HEGELER ZINC CO., La Salle, Ills.  
Specimens illustrating the extraction of zinc.
- FRANK MANSON, Chicago.  
Specimens of ores and minerals.
- GEO. W. GOETZ, Milwaukee, Wis.  
Piece of iron forged and rolled from iron 2000 years old.
- JOHN BROWN & CO., Sheffield, Eng.  
Serve's ribbed steel tubes.
- J. W. LAMB, Chicago.  
*Marcasite* specimens.
- ALBERT S. GAGE, Chicago.  
Collection of ores.
- B. S. MILLSAUGH, Windsor Park, Ills.  
Onyx marble.
- THE CARBORUNDUM CO., Monongahela, Penn.  
Carborundum (Carbide of Silicon) crude and manufactured.
- T. J. GRIER, Lead City, South Dakota.  
Free gold in quartz.
- W. L. MILLIKEN, Chicago.  
Egyptian Jasper or *Argillyte*.
- PICHER LEAD CO., St. Louis, Mo.  
Specimens illustrating Lewis-Bartlett lead process.
- PETER KOFOD, Chicago.  
Quartz containing porphyritic crystals of *Orthoclase*.
- MAJ. GEO. D. MILES, Old Fort, N. C.  
5 specimens of Garnet Sands, 1 specimen of *Monazite*.
- W. A. GRIFFIN, Griffin, Ill.  
1 specimen of *Chalcedony* in coral.
- DR. ROBERT PARHAM, Chicago.  
1 slab of stalagmite marble (polished.)
- ILLINOIS TERRA COTTA & LUMBER CO., Chicago.  
1 specimen of porous partition tile.
- W. W. HILL, South Dakota.  
1 specimen of clay.
- HENRY W. NICHOLS, Field Columbian Museum.  
Zinc ores and accessory minerals, zinc minerals.  
6 fossils.  
1 specimen of slate.
- MRS. F. W. PARKER, Chicago.  
55 samples of sand of different colors—The Dells of Wisconsin.
- PRINCE MANUFACTURING CO., New York.  
9 specimens of crude and finished mineral paints.
- F. M. SMITH, San Francisco, Cal.  
20 specimens illustrating mining and refining of borax—California.
- EDWARD E. AYER, Chicago.  
Specimens of gold ore.

## DEPARTMENT OF HISTORY.

- LIEUT. E. H. REED, Chicago.  
Old release deed. 1760.

- A. BIERSTADT, New York.  
Sand from the Island of San Salvador.
- F. MUNSON, Windsor Park, Ill.  
Relics of Charter Oak, Plymouth Rock, and the War of '61.  
Small upright picture frame made of wood from Charter Oak and Independence Hall.
- C. A. JORDAN, Chicago.  
First U. S. flag raised on Exposition grounds.
- WORLD'S COLUMBIAN EXPOSITION,  
"Columbus Quadriga," group of statuary.
- A. W. McNEIL, Chicago.  
1 Inkstand souvenir of the Exposition.
- GUATEMALA COMMISSION, World's Columbian Exposition.  
Stationery and literature of the Commission.
- DEPT. OF MINES AND MINING, World's Columbian Exposition.  
Stationery of the Department.
- COLOMBIA COMMISSION, World's Columbian Exposition.  
Invitation issued by the Commission.
- H. B. SHEA, Field Columbian Museum.  
Printed instructions issued by the World's Columbian Exposition.
- CONSULAT DE FRANCE, Chicago.  
Official Exposition stationery of the French Commission.
- FRANK DUNNAP, Field Columbian Museum.  
Exposition ticket No. 217,539 for Cold Storage Fire Fund.
- S. WEDDELES, Chicago.  
Exposition lapel button.
- WILLIAM E. CURTIS, Washington, D. C.  
Exposition stationery and President's proclamation.  
Tracing of Watling Island.
- JEROME A. SMITH, Chicago.  
4 Exposition medals.
- BRAZILIAN COMMISSION, World's Columbian Exposition.  
Official Exposition stationery used by Commission.
- WORLD'S COLUMBIAN EXPOSITION, Board of Directors.  
Gavel (chair arm) relic of first Exposition Stockholders' Meeting.
- SIMON STRAUSS, Belleville, Ill.  
Miniature Columbus Caravel, whittled of wood from Exposition buildings.
- MEYER BALLIN.  
Photographs and autograph letters of Hans Christian Andersen.

#### DEPARTMENT OF INDUSTRIAL ARTS.

- JOHN S. BROWN & SON, Belfast, Ireland.  
Articles pertaining to the linen industry.
- WM. LIDDELL & CO., Belfast, Ireland.  
Miniature lacquard machine.
- IRISH INDUSTRIES ASSOCIATION, Chicago.  
Center piece embroidered.
- YORK STREET FLAX SPINNING CO., Ltd., Belfast, Ireland.  
Photographs of flax works and process of linen working.
- SANFORD MILLS, Sanford, Me.  
The process of mohair from the fleece to finished fabric.
- WILLIAM AULT, Swadlincote, England.  
Specimens of ceramics.
- JOHN ERB, Columbus, Wis.  
One token "Burbank & Shaw." Chicago, 1845.
- MARTIN A. RYERSON, Chicago.  
8 ancient fabrics, 1 tassel.

- MRS. J. M. HORTON, Chicago.  
Korean bed—Seoul, Korea.
- J. N. RICHARDSON, SONS & OWDEN, Belfast, Ireland.  
Photographs of early linen manufacture—Ireland.
- F. MUNSON, Windsor Park, Ill.  
Sets of ancient Chinese coins.
- K. NAKAMURA, Tokyo, Japan.  
Embroideries, bronzes and ceramics.
- SOSUKE NAMIKAWA, Tokyo, Japan.  
Cloisonne panel—Japan.
- MARSHALL FIELD & CO., Chicago.  
Ramie fiber—Shanghai, China.
- GENERAL ELECTRIC CO., Chicago.  
2 cases bamboo fiber for electric light filaments.  
1 case miniature incandescent light bulbs.
- S. I. TAKASHIMA, Kyoto, Japan.  
1 embroidered picture of bird and grasses—Japan.
- MR. DOMEI, Tokyo, Japan.  
1 old Japanese embroidered silk table cover.
- SOZAYEMON NISHIMURA, Tokyo, Japan.  
1 velvet picture of Fujiyama.  
1 embroidered chrysanthemum design—Japan.
- J. AUDO, Nagoya, Japan.  
1 cloisonne plaque in lacquer.
- HENRY ROEPKE, Chicago.  
1 lady's work box.

## DIVISION OF TRANSPORTATION.

- CHAS. CHATEAU, St. Louis, Mo.  
Shipping bill dated March 4, 1826.
- LAWRENCE HARGRAVE, Stanwell Park, New South Wales.  
Flying machine (model.)
- WM. G. HIBBARD, Chicago.  
Cariole—Norway.
- T. J. OLSEN, Chicago.  
Model of land and water velocipede.

## DEPARTMENT OF ZOOLOGY.

- A. E. J. SVEGE, Field Columbian Museum.  
1 Monkey—South America.
- H. P. FRIDENBERG, Jacksonville, Fla.  
Chameleon.
- CHAS. B. CORY, Field Columbian Museum.  
47 jars of reptiles, insects, etc., in alcohol.
- WILL A. CONNELLY, Danville, Ill.  
Hog's foot, showing abnormal number of toes.
- HENRY L. SEIDLER, Columbus, O.  
Shark's jaws and small, dried Hammer-headed shark.
- ED. LEWIS, Chicago.  
2 masses of the worm-like tubes of *Vermetus*—West Coast, Florida.
- J. A. HUME, Field Columbian Museum.  
1 Dog-fish, *Amia calva*—Lake Michigan, Jackson Park.  
3 fishes—Lake Michigan, Jackson Park.  
2 fishes, Bull-head and Goggle-eye—Lake Michigan, Jackson Park.
- W. S. ROYCE, Hawthorne, Ill.  
1 Butterfly—Hawthorne.
- GEORGE MANIERRE, Chicago.  
2 fishes, *Notropis megalops*.
- MRS. KAUFMANN, Chicago.  
1 Gpossum—Central America.

- MRS. DR. J. A. TOMHAGEN, Chicago.  
1 Opossum—Central America.
- PROF. L. B. STEERE, Ann Arbor, Mich.  
Negatives illustrating Dr. Steere's monograph on *Rei Mindereris*.
- DON ANASTASIO ALFARO, Director National Museum, San Jose, Costa Rica.  
2 skins and skulls of *Atelopus charreria*.
- A. THOMPSON, Field Columbian Museum.  
1 fish—Lake Michigan, Jackson Park.
- C. L. KEFFEY, Field Columbian Museum.  
2 skulls of *Tragulus*—Borneo.

## DEPARTMENT OF ORNITHOLOGY

- A. E. J. SVETGI, Field Columbian Museum.  
1 Carolina Rail.
- EDWARD L. AYLER, Chicago.  
5 bird skins.
- HARRY VINCENT, Commissioner from Trinidad, World's Columbian Exp'n.  
Humming birds mounted in glass case—Island of Trinidad.
- J. C. CUMMINS, Chicago.  
2 mounted Prairie Chickens.
- CHAS. B. CORY, Field Columbian Museum.  
35 bird skins—Costa Rica.  
2 hawks, *Bogotanus Wilsoni*.  
1 type, *Chordeiles Chapmani*.
- A. W. CARTER, Chicago.  
Robin's egg—Wisconsin.
- MRS. REYNOLDS, Chicago.  
Mounted Peacock.
- GEO. K. CHERRIE, Field Columbian Museum.  
56 bird skins—from Iowa, chiefly.
- CAPT. ALBERT L. O'FLO, Field Columbian Museum.  
2 Virginia Rails—Lake Michigan, Jackson Park.

## LIBRARY.

## FOR GRAPHIC ART AND PRINTING COLLECTION.

- BARNHARDT BROTHERS & SPINDLER, Chicago.  
Old Ramage printing press—transferred from Department "I".
- GERMAN GOVERNMENT PRINTING OFFICE, Berlin.  
Presses of 13, 14, and 18 columns—transferred from Department "I".
- ART INSTITUTE OF JAPAN, Tokyo, Japan.  
55 numbers of the Kokka, an art journal in Japanese.
- MERGENTHALER LITHO TYPE CO., Tribune Building, New York.  
1 photo Linotype machine.  
12 matrices, 3 slugs of type.
- R. HOE & CO., 501 Grand Street, New York.  
21 pictures of printing presses, samples of color work, etc.
- CHICAGO PHOTO-GRAYURE CO.  
Collection illustrating the Collotype printing processes.
- U. S. NATIONAL MUSEUM, Washington, D. C.  
Photo of Benjamin Franklin's printing press.
- HAMILTON MANUFACTURING CO., Two Rivers, Wis.  
Collection of wood type, framed.

## BOOKS, PAMPHLETS AND SERIALS.

- ALABAMA GEOLOGICAL SURVEY.  
Report of the geology of the Coastal Plain of Alabama. 1878.  
Geological map of Alabama, with explanatory chart. 1881.  
Report upon the Coosa coal fields. 1884.

## AMERICAN INSTITUTE OF MINING ENGINEERS.

Transactions for 1895.

## AMERICAN MUSEUM OF NATURAL HISTORY.

Bulletin, 1894.

Annual report of the president for 1894.

Annual report, act of incorporation, etc., 1893.

## AMERICAN NUMISMATIC AND ARCHEOLOGICAL SOCIETY.

Proceedings and papers of thirty-fifth annual meeting, 1893.

## AMERICAN PHILOSOPHICAL SOCIETY.

Rules and regulations of the Magellanic premium.

Supplementary report of the committee to consider an international language. 1888.

List of deficiencies in the library. 1889.

Catalogue of the library. 1863-84.

Proceedings at the dinner commemorative of the Centennial Anniversary. 1880.

Report of the committee to assist the commission on amended orthography. 1889.

Subject register of papers published in the transactions and proceedings.

List of surviving members, prepared by H. Phillips. 1895.

Laws, regulations, charter, etc., prepared by H. Phillips. 1894.

List of the members. 1890.

Proceedings. 1893-94.

## AMERICAN ACADEMY OF ARTS AND SCIENCES.

Proceedings, new series, vol. xxi. 1894.

## AUSTRALIAN MUSEUM.

Catalogue of the echinodermata, part 1. 1891.

Catalogue of the Australian birds, parts 1-4. 1876-94.

Catalogue of marine shells of Australia and Tasmania. 1892-93.

Catalogue of the Australian hydroid zoophytes. 1884.

Catalogue of the Australian stalk and sessile-eyed crustacea. 1882.

Catalogue of a collection of fossils. 1883.

Descriptive catalogue of the nests and eggs of birds found breeding in Australia. 1889.

History and description of the skeleton of a new sperm whale. 1890.

Notes for collectors. 1887.

Memoirs no. 2; Lord Howe Island. 1889.

Catalogue of sponges. 1888.

Catalogue of the general collection of minerals. 1885.

Guide to the contents, with list of old documents and relics. 1890.

Records, vol. 1, and nos. 1-5 of vol. 2. 1891-92.

Catalogue of the fishes, part 1. 1888.

Catalogue of Australian mammals, by J. D. Ogilby. 1892.

Report of trustees, for 1894.

## ARMOUR, ALLISON V.

Atlas pintoresco historico de los Estados Unid. Mexicanos, by Ontario G. Cubas. 1885.

## AYER, EDWARD E.

The development of the American rail and track, by J. E. Watkins. 1891.

The relics of Columbus, by W. E. Curtis. 1893.

Third report of the Entomological Commission, U. S. Department of Agriculture.

## BADT, E. B. (the author), Chicago.

Bellhangers' handbook. 1893.

Electric transmission handbook. 1891.

Incandescent wiring handbook. 1895.

New dynamo tenders' handbook. 1894.

## BALTIMORE HOME FOR INCURABLES, Baltimore, Md.

Eleventh annual report. 1895.

## BARROWS, REV. DR. J. H. (the author), Chicago.

Results of the Parliament of Religions. 1894.

- BEEBE, W. S. (the author), Thompson, Conn.  
 American inscriptions. 1894.  
 Great dial, Tiahuanaco, Bolivia. 1894.  
 General views, Peru, Bolivia. 1894.  
 Numerical evidence in favor of the wide distribution of the theory of primes. 1894.  
 The mithraic table found at Davenport. 1894.  
 Series exhibiting the influence of the Tiahuanaco dial. 1894.
- BERLIN KÖNIGLICHE MUSEEN.  
 Führer durch das museum für Völkerkunde. 1895.
- BISBEE, MARVIN D. (the author), Concord, N. H.  
 Bibliography of Dartmouth College and Hanover. 1894.
- BOARD OF LADY MANAGERS, World's Columbian Exposition.  
 Addresses and reports of Mrs. Potter Palmer. 1894.
- BOAZ, FRANZ.  
 On the *pitheanthropus erectus*, Dubois, by O. C. Marsh. 1895.
- BOSTON MUSEUM OF FINE ARTS.  
 Nineteenth annual report of the trustees. 1894.
- BOWEN, JAMES L. (the author), London.  
 Notes on shippo, a sequel to Japanese enamels, 1895.
- BRAZILIAN COMMISSION.  
 The Graphic, vol. 9, No. 18, Brazil at the Columbian Exposition. 1893.
- BRIDGEPORT PUBLIC LIBRARY.  
 Finding list. 1894-95.
- BROOKLYN LIBRARY.  
 Thirty-seventh annual report of the board of directors. 1895.
- BÜCKNER, H. (the author), Strassburg, Germany.  
 Neue mineralunde von Westeregeln.
- BURCHARD, F. L., Field Columbian Museum.  
 Report on the geology of N. Eastern Alabama, by C. W. Hayes. 1891.  
 Phosphates and marls of Alabama, by E. A. Smith. 1892.  
 Preliminary report on part of the lower gold belt of Alabama, by W. B. Phillips. 1891.  
 Catalogue of a stratigraphical collection of Canadian rocks for the World's Columbian Exposition, by W. F. Ferrier.  
 Fourth annual report of the Geological Survey of Texas, 1892, with accompanying papers.  
 Report on the geological structure of Murphrees Valley, Alabama, by A. Gibson.  
 The coal trade, by F. F. Saward.  
 Memoria general y especial sobre las minas en la republica Argentina, by H. D. Hoskold.  
 Etude sur les mines d'or et d'argent de la Colombie, by Henry Jalhay.  
 The New River-Cripple Creek mineral region of Virginia, by A. S. McCreath and F. V. d'Invilleers.  
 Mines and minerals of the province of Quebec, by J. Obalsky.  
 Hand-book of regulations and general information, by Royal Commission, World's Columbian Exposition.  
 Official directory of the World's Columbian Exposition.  
 Catalogue of the Brazilian Section, World's Columbian Exposition, 1893.  
 Datos mercantiles, Estados Unidos Mexicanos, by Ricardo de Maria y Campos. 1889.  
 The year-book of Australia for 1892, by Edw. Greville.  
 Documents officielles règlement de comités, World's Columbian Exposition, Minister du Commerce et de l'Industrie. 1892.  
 Mexico ante los congresos internacionales penitenciarios, by A. A. de Medina y Ormaechea.  
 Official congressional directory, by W. H. Michael and F. M. Cox. 1893.  
 Annual report of the director of the mint, U. S. Treasury Department. 65 pamphlets on geology, mineralogy, metallurgy, etc.
- CALIFORNIA AGRICULTURAL EXPERIMENT STATION.  
 Report of work 1892-3 and part of 1894.

## CALIFORNIA MIDWINTER INTERNATIONAL EXPOSITION MEMORIAL MUSEUM.

Guide to the halls and galleries. 1895.

## CALIFORNIA STATE MINING BUREAU.

Bulletin No. 1, 3, 4 and 5. 1888-94.

12th report of the State Mineralogist. 1894.

Bulletin No. 5. The Cyanide process by A. Scheidl. 1894.

## CALIFORNIA WORLD'S FAIR COMMISSION.

Final report including a description of all exhibits of California. 1894.

## CAMBRIDGE UNIVERSITY.

29th annual report of the museums and lecture rooms syndicate. 1895.

## CANADA GEOLOGICAL SURVEY.

Maps to illustrate reports 1871-79.

Annual reports. 1885-88, and 1890-93, 7 vols.

Report of progress. 1876-84, 6 vols.

## CAYUGA COUNTY HISTORICAL SOCIETY.

Collections, no. 11. 1895.

## CHANUTE, O., Chicago.

Progress in flying machines. 1894.

## CHERRIE, G. K., Field Columbian Museum.

On the structure and distribution of coral reefs, by Darwin.

The Batrachia of North America. 1880.

The public writings of G. Newbold Lawrence, by Foster.

## CHICAGO ACADEMY OF SCIENCE.

A naturalist in Mexico, by F. C. Baker. 1895.

Bulletins 1-10. 1883-86.

## CHICAGO ART INSTITUTE.

Circular of instruction. 1894-95.

## CHICAGO UNIVERSITY.

Programme. 1895-6.

Quarterly announcements. Nov. 1895.

Quarterly calendar. vol. 3, nos. 3-5.

Annual register. 1892-95.

Circulars of information, 1895.

## CINCINNATI MUSEUM ASSOCIATION.

1st-9th annual reports. 1882-89.

14th annual report. 1895.

Catalogue of spring exhibition. 1885.

## CINCINNATI PUBLIC LIBRARY.

Supplement to the prose fiction in the library. 1884-94.

Bulletin of books added in the various departments. 1894.

## CINCINNATI SOCIETY OF NATURAL HISTORY.

Journal. 1894.

## CINCINNATI TECHNICAL SCHOOL.

8th annual catalogue. 1894-95.

## CLARK, JOHN M., Chicago.

Report of the collector of customs at Chicago, relating to the World's Columbian Exposition. 1894.

## CLARKE, ROBERT &amp; CO., Cincinnati, O.

Catalogue of a valuable collection of books and pamphlets relating to America. 1895.

## COLBY UNIVERSITY.

75th annual catalogue of officers and students. 1895.

## COLORADO AGRICULTURAL EXPERIMENT STATION.

Bulletin No. 31. 1895.

## COLORADO STATE SCHOOL OF MINES.

Catalogue. 1894-95.

## COLORADO SCIENTIFIC SOCIETY.

Proceedings. 1891-93.

Vein structure in the Enterprise mine. 1895.

- The determination of bismuth in refined lead and in lead bullion. 1895.  
 Notes on the precipitation of precious metals from cyanide. Solutions. 1895.  
 The recent history and present status of chemistry. 1894.  
 The volcanic rock of Alum Hill, Boulder Co., Colorado. 1895.  
 The Costilla Meteorite. 1895.  
 Notes on the geology of the western slope of the Sangre de Cristo. 1894.  
 The sampling and measurement of ore bodies in mine examinations. 1895.
- COLUMBIA COLLEGE, N. Y.  
 Register, 1891-92.  
 Catalogues, 1893-94 and 1894-95.  
 School of mines, 1895-96.
- CONNECTICUT ACADEMY OF ARTS AND SCIENCES.  
 Transactions, vol. 9. 1895.
- CONNECTICUT AGRICULTURAL EXPERIMENT STATION.  
 15th annual report. 1894.
- COOPER UNION FOR THE ADVANCEMENT OF SCIENCE AND ART.  
 Rules and regulations of the free night school, and woman's art school. 1894.  
 56th annual report. 1895.
- CORY, C. B., Field Columbian Museum.  
 Bulletins, 23, 45, 46, and 43 U. S. National Museum. 1893.
- COSTA RICA MUSEO NACIONAL.  
 Anales, 1899-94.  
 Estudios sobre las hormigas de Costa Rica. 1894.  
 Informe, 1894-95, presentado por A. Alfaro.
- COSMOS CLUB, N. Y.  
 Catalogue of the Cella collection of Alpine and Caucasian Views. 1894.
- DARTMOUTH COLLEGE.  
 Catalogue for the year 1894-95.
- DAVIS, GEORGE R., Chicago.  
 The Chicago Fair. 1893.
- DETROIT PUBLIC LIBRARY.  
 14th report of the library commission. 1894.
- DIAZ, N., Mexico City, Mex.  
 Catalogue descriptif des météorites du Mexique.
- DORSEY, GEORGE A., (the author), Cambridge, Mass.  
 The character and antiquity of Peruvian civilization. 1895.
- DYCHE, L. L.  
 Camp fires of a naturalist, by C. E. Edwards. 1893.
- ELECTRICAL ENGINEER PUBLISHING CO., THE.  
 The electrical engineer. 1899-94.
- ELLIOT, D. G., Field Columbian Museum.  
 Bulletins American Museum of Natural History, vols. 1-3. 1890-94.
- FARRINGTON, OLIVER C. (the author), Field Columbian Museum.  
 James D. Dana as a teacher of geology. 1895.
- FRAWKES, J. W., (the author), Boston, Mass.  
 A comparison of the Sia and Tusayan snake ceremony. 1895.  
 The Tusayan new fire ceremony. 1895.
- FOSTER, R. J., Scranton, Pa.  
 The Colliery Engineer. 1892-94.
- FUFESS, R. (the author), Berlin.  
 Engländerer, über kristall. u. amorph. Zustände. 1894.
- GUATEMALA COMMISSION: World's Columbian Exposition.  
 Informe relat. á la exposicion de Guatemala in Chicago. 1894.
- HARTFORD PUBLIC LIBRARY.  
 Author-list, novels, etc., in Hartford Library Association. 1893.  
 Boys' and girls' books. 1895.  
 Bulletins. 1893-94.



## HARVARD UNIVERSITY.

Description of courses in Lawrence scientific school. 1894-95.

Papers used at the examination for admission to Lawrence scientific school. 1891.

HAY, O. P. (the author), Field Columbian Museum.

A consideration of some theories of evolution. 1891.

HAYES, SETH (the author), Cincinnati, O.

Another Miami valley skeleton. 1895.

The Shaw Mastodon. 1895.

HEAD, WILLIAM R. (the author), Chicago.

Paleozoic sponges of North America. 1894.

HILLIS, W. J., Albany, N. Y.

Catalogue of the Hurst collection of stuffed skins, by Frank A. Ward. 1894.

HILLS, R. C. (the author), Denver, Colorado.

Ore deposits of Camp Floyd district. 1894.

HODGE, F. W. (the author), Washington, D. C.

The early Navajo and Apache. 1895.

The first discovered city of Cibola. 1895.

HOVEY, E. O. (the author), Jefferson City.

A study of the cherts of Missouri. 1894.

HUNT, C. W. &amp; CO., New York City.

Industrial railways. 1895.

## ILLINOIS GEOLOGICAL SURVEY.

Geological survey of Illinois, 1883.

Report on geology and paleontology, vol. 8. 1890.

## ILLINOIS STATE HISTORICAL LIBRARY.

Trustees' report. 1894.

## ILLINOIS STATE LABORATORY OF NATURAL HISTORY.

Biennial report of the directors. 1894.

## ILLINOIS STATE MUSEUM OF NATURAL HISTORY.

Bulletin nos. 3, 4, 5 and 6. 1894.

## INDIANA ACADEMY OF SCIENCE.

Proceedings. 1891-93.

## INTERNATIONAL NAVIGATION CO.

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24 lantern slides of Yucatan subjects.
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Archeological collection—Wisconsin.
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2 collections of antiquities—Mexico.
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- PROF. L. H. PAMMEL, Ames, Iowa.  
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Tooth of fish of the Carboniferous era.
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Fossil mammal tooth.
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WILLIAM H. HINRICHSEN, *Secretary of State.*

TO ALL TO WHOM THESE PRESENTS SHALL COME, GREETING:

*Whereas*, a Certificate duly signed and acknowledged having been filed in the office of the Secretary of State, on the 16th day of September, A. D. 1893, for the incorporation 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, in exercise of the powers and duties vested in me by law, hereby certify that the said COLUMBIAN MUSEUM OF CHICAGO, is a legally organized Corporation under the laws of this State.

*In Testimony Whereof*, I have hereunto set my hand and a Seal of the great Seal of State. Done at the City of Springfield, this 16th day of September, in the year of our Lord one thousand eight hundred and ninety three, and of the Independence of the United States the one hundred and eighteenth.



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

TO HON. WILLIAM H. HINRICHSEN,

SECRETARY OF STATE:

SIR:

We, the undersigned Citizens of the United States, propose to form a Corporation under an act of the General Assembly of the State of Illinois, entitled, "An Act Concerning Corporations," approved April 18, 1872, and all acts amendatory thereof, and to carry out the purposes of said act, in and to wit in the 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, Archaeology, 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.*

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. Fitzsimons, 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, Geo. 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 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.

### 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 of 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 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. Only corporate members shall be eligible to the office of Trustee.

SEC. 4. Any person paying into the treasury the sum of five hundred dollars (\$500.00) at any one time shall become a life member, and may be chosen a corporate member by the Board of Trustees upon recommendation of the Executive Committee. Life members shall be exempt from all dues.

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

ation 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 I. The Board of Trustees named in the articles of association shall continue in office until the annual meeting in the year 1894, with power to fill vacancies occurring in the meantime. Before the date of such annual meeting said Trustees shall divide themselves by lot into three classes of five each, the term of office of one class to expire at the annual meeting of 1894, of another class at the annual meeting of 1895, and of another class at the annual meeting of 1896. The Board of Trustees, at its last regular meeting before the annual meeting in each year, shall elect by ballot from among the corporate members five persons as Trustees to serve for a term of three years, and until their successors are elected and qualified, and vacancies in the Board of Trustees occurring in the interval between such annual elections may be filled by a vote of the Board 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, 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 12th day of October in each year, except when that day falls on a Sunday, and then upon the Monday following. At such meetings the corporate members shall transact such business as may properly come before the meeting. Special meetings of the corporate members shall be called at any time by the Secretary upon written request of twenty corporate members. In such case thirty days' notice by mail shall be given to corporate members of the time, place and purpose of such meetings.

SEC. 2. Regular meetings of the Board of Trustees shall be held upon the 11th Monday after the first of October, and 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.

## 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.



## CORPORATE MEMBERS.

<p>GEO. E. ADAMS O. F. ALDIS ALLISON V. ARMOUR PHILIP D. ARMOUR ED. E. AYER WM. T. BAKER A. C. BARTLETT JOHN C. BLACK WATSON F. BLAIR ELIPHALET W. BLATCHFORD THOMAS B. BRYAN EBENEZER BUCKINGHAM M. C. BULLOCK DANIEL H. BURNHAM EDWARD B. BUTLER JOHN M. CLARK W. J. CHALMERS H. C. CHATFIELD-TAYLOR A. CRAWFORD WM. E. CURTIS GEO. R. DAVIS JAMES H. DOLE SIDNEY C. EASTMAN JAMES W. ELLSWORTH CHAS. FITZSIMONS L. J. GAGE HENRY H. GETTY FRANK W. GUNSAULUS C. F. GUNTHER WM. E. HALE WM. R. HARPER AZEL F. HATCH FRANKLIN H. HEAD H. N. HIGINBOTHAM EMIL G. HIRSCH</p>	<p>CHAS. L. HUTCHINSON H. W. JACKSON ARTHUR B. JONES E. G. KEITH HERMAN H. KOHLSAAT BRYAN LATHROP L. Z. LEITER E. B. McCAGG A. C. McCLURG JOHN McCONNELL CYRUS H. McCORMICK ROBERT McMURDY ANDREW McNALLY GEO. MANIERRE JOHN J. MITCHELL ROBERT W. PATTERSON FERD. W. PECK ANDREW PETERSON P. S. PETERSON J. IRVING PEARCE GEO. M. PULLMAN N. B. REAM JOHN A. ROCHE HENRY WADE ROGERS MARTIN A. RYERSON GEORGE SCHNEIDER JOSEPH STOCKTON BYRON L. SMITH WM. SOOY SMITH A. A. SPRAGUE MELVILLE E. STONE EDWIN WALKER R. A. WALLER JOHN R. WALSH NORMAN WILLIAMS</p>
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### DECEASED.

JAMES W. SCOTT

GEORGE F. BISSELL

## LIFE MEMBER.

*By the payment of five hundred dollars.*

W. J. CHALMERS.

## HONORARY MEMBER.

CHAS. B. CORY.

## PATRON.

ALLISON V. ARMOUR.

## ANNUAL MEMBERS.

- ABEL, JONATHAN  
ADAMS, CHARLES  
ADAMS, CYRUS H.  
ADLER, DANKMAR  
ALLEN, W. I.  
ALLERTON, ROBERT H.  
ALLERTON, MRS. S. W.  
AMBERG, WILLIAM A.  
ANDREWS, W. H.  
ANSLEY, ROBERT  
ARMOUR, BARBARA  
ARMOUR, GEORGE A.  
ARMS, W. A.  
ARNOLD, J. B.  
AVERY, FRANK M.  
BAKER, ALFRED L.  
BAKER, FRANK  
BAKER, SAMUEL  
BAILEY, EDWARD P.  
BAILEY, E. W.  
BALDWIN, WILLIS M.  
BALLARD, ORVILLE W.  
BANE, OSCAR F.  
BANGA, DR. HENRY  
BARNES, CHARLES J.  
BARNHART, ARTHUR M.  
BARRELL, JAMES  
BARRETT, JOHN P.  
BARRETT, S. E.  
BARRINGTON, CHARLES V.  
BARTLETT, JOSIAH C.  
BARTLETT, WILLIAM H.  
BATCHELLER, W.  
BAUER, PHIL. C.  
BEACH, F. G.  
BEAUVAIS, E. A.  
BECK, CHARLES A.  
BECKER, A. G.  
BEECHER, MRS. JEROME  
BEIDLER, H. A.  
BEIDLER, FRANCIS  
BEIFELD, JOSEPH  
BELDEN, J. S.  
BELDING, MRS. L. S.  
BENNETT, THOMAS  
BENSLEY, JOHN R.  
BENTLEY, CYRUS  
BERRY, H. J.  
BICKFORD, R. K.  
BIDDLE, GEORGE W. A.  
BIDDLE, W. B.  
BILLINGS, C. K. G.  
BILLINGS, DR. FRANK  
BINGHAM, A. E.  
BIRKHOFF, JR., GEORGE  
BLACKMARR, FRANK H.  
BLACKSTONE, T. B.  
BLAIR, CHAUNCEY J.  
BLAIR, HENRY A.  
BLAIR, LYMAN  
BLAIR, WILLIAM  
BLANCHARD, WILLIAM  
BLAINE, MRS. EMMONS  
BLISS, SAMUEL E.  
BLODGETT, H. W.  
BLUM, EDGAR C.  
BOAL, CHARLES T.  
BOLTON, JAMES  
BONFIELD, JOHN  
BOOTH, A.  
BOOTH, W. VERNON  
BORDEN, JAMES U.  
BORDEN, JOHN  
BORLAND, MRS. JOHN J.  
BOTSFORD, HENRY  
BOUTON, C. B.

- BOUFON, N. S.  
 BRADLEY, I. HARLEY  
 BRADWELL, JAMES B.  
 BEAUMER, F. R.  
 BREMNER, DAVID F.  
 BRENOCK, JOHN  
 BRETT, THEODORE F.  
 BRIWER, JOHN S.  
 BRIGGS, CLINTON  
 BROOKS, ALMON  
 BROOKS, L. W.  
 BROWN, GEORGE F.  
 BROWN, JOHN B.  
 BROWN, JOHN H.  
 BROWN, WILLIAM L.  
 BROWN, EDWARD  
 BROWNE, R. F.  
 BUEHLER, JOHN  
 BUCKLEY, R. H.  
 BURKHARDT, H. S.  
 BURLEY, A. H.  
 BURLY, CLARENCE A.  
 BURLY, FRANK L.  
 BURNET, WM. H.  
 BURNHAM, AUSTIN A.  
 BURTON, L. GRAND S.  
 BYRAM, A.  
 CAMERON, P. F.  
 CANNELL, S. WILMER  
 CARPENTER, A. A.  
 CARPENTER, MYRON L.  
 CARTON, L. A.  
 CHAMBERLIN, G. M.  
 CHANDLER, C. C.  
 CHANDLER, FRANK R.  
 CHANDLER, PEYTON R.  
 CHAPIN, MRS. M. A.  
 CHAPMAN, MRS. J. DEERE  
 CHAPPELL, C. H.  
 CHARLTON, JAMES  
 CHASE, CHARLES C.  
 CHASE, S. B.  
 CHASE, SAMUEL M.  
 CHENEY, C. C.  
 CHRISTY, F. C.  
 CLARK, ALSON E.  
 CLARK, GEORGE M.  
 CLARK, JONATHAN  
 CLARK, W. D.  
 CLARKE, CLINTON C.  
 CLARKE, L. H.  
 CLIFF, CAPT. JOHN  
 CLAY, JOHN, JR.  
 CLOUD, INO. W.  
 COBB, S. B.  
 COFFIN, C. H.  
 COLBY, JOHN A.  
 COLVIN, WILLIAM H.  
 COMAN, SYMOUR  
 COMSTOCK, WILLIAM C.  
 CONKLING, ALLEN  
 CONNELL, CHARLES J.  
 CONOVER, CHARLES H.  
 COOLBAUGH, ADDIE R.  
 COOLIDGE, CHARLES A.  
 COONLEY, MRS. JOHN C.  
 CORNEAL, D. L.  
 CORWITH, CHARLES R.  
 COST, E. F.  
 COUCH, MRS. JAMES  
 COWAN, W. P.  
 COX, ALFRED J.  
 COX, EUGENE R.  
 COY, IRUS  
 CRITCHELL, R. S.  
 CULVER, MRS. CHARLES E.  
 CUMMINGS, E. A.  
 CURTIS, D. H.  
 CUSTEL, E.  
 DAKIN, R. H.  
 DAL, DR. JOHN W.  
 DAMSEL, W. H.  
 DANA, ARTHUR D.  
 DAVIS, CHAS. E.  
 DAVIS, HARRY G.  
 DAVIS, LEWIS H.  
 DAY, ALBERT M.  
 DAY, CHAPIN A.  
 DAYTON, MELVILLE E.  
 DEAKIN, HARRY  
 DEAN, THAD.  
 DEERING, WILLIAM  
 DeKOVEN, JOHN  
 DELANO, F. A.  
 DEWEES, FRANCIS J.  
 DEWEY, DAVID B.  
 DICK, A. B.  
 DILLMAN, L. M.  
 DOANE, J. W.  
 DOBBINS, THOMAS S.  
 DODGE, GEORGE E. P.  
 DORE, GEORGE J.

DOW, WILLIAM C.  
 DOWNS, C. S.  
 DRAKE, JOHN B.  
 DUDDLESTON, GEORGE  
 DUMMER, W. F.  
 DEMMLER, K.  
 DUNHAM, MISS M. V.  
 DURAND, ELLIOTT  
 DURAND, H. C.  
 DWEN, JAMES C.  
 DWIGHT, JOHN H.  
  
 EAMES, L. H.  
 EDDY, CLARENCE  
 EDMONDS, HOWARD O.  
 EDSON, J. M.  
 EGAN, WILEY M.  
 EISENDRATH, W. N.  
 ELLIOTT, EDWARD S.  
 ELLIOTT, W. S. JR.,  
 ELTONHEAD, E. Y.  
 EMMERICH, CHARLES  
 ENGERT, DR. ROSA H.  
 ETHERIDGE, MRS. J. H.  
 EVANS, ORIN L.  
 EVERINGHAM, L.  
 EWING, WILLIAM G.  
  
 FAIR, R. M.  
 FAITHORN, J. N.  
 FARGO, CHARLES  
 FARNSWORTH, GEORGE  
 FARRAR, MRS. ARTHUR  
 FAY, C. N.  
 FEATHERSTONE, A.  
 FELSENTHAL, H.  
 FERGUSON, B. F.  
 FERGUSON, CHAS. H.  
 FISCHER, FREDERICK  
 FISH, STUYVESANT  
 FISHER, L. G.  
 FITCH, M. J.  
 FLANNERY, J. L.  
 FLERSHEM, LEM. W.  
 FLOWER, JAMES M.  
 FOLTZ, FRITZ  
 FORD, J. S.  
 FOREMAN, EDWIN G.  
 FOREMAN, OSCAR G.  
 FORREST, WILLIAM H.  
 FORSYTH, ROBERT  
 FORSYTH, R. CLARKE

FOSTER, SAMUEL B.  
 FOWLER, E. M.  
 FRANK, HENRY L.  
 FRANK, JOSEPH  
 FRANK, MAX  
 FREER, NATHAN M.  
 FREES, B. M.  
 FREYTAG, MORITZ  
 FULGHUM, B. W.  
 FULLER, O. F.  
  
 GAGE, ALBERT S.  
 GANS, LEOPOLD  
 GARRISON, MRS. M. HARROLD  
 GARTZ, ADOLPH F.  
 GARVEY, JOHN W.  
 GATES, RYERSON D.  
 GAYLORD, FREDERIC  
 GERALDINE, DION  
 GEROW, F. P.  
 GIBBS, JAMES S.  
 GIFFORD, C. E.  
 GIFFORD, I. CUSHMAN  
 GIVINS, ROBERT C.  
 GLESSNER, J. J.  
 GOODFELLOW, MRS. WM.  
 GOODRICH, A. W.  
 GOODWIN, DANIEL  
 GORDON, EDWARD K.  
 GORMULLY, R. PHILIP  
 GRAHAM, EUGENE  
 GREEN, O. B.  
 GREY, CHARLES F.  
 GREY, WILLIAM L.  
 GRIDLEY, NELSON C.  
 GRIFFIN, T. A.  
 GRISWOLD, E. P.  
 GROSS, S. E.  
 GROSSMITH, ALFRED  
 GUION, GEORGE MURRAY  
 GUNNING, ROBERT J.  
 HAINES, T. L.  
 HALLE, LOUIS  
 HAMBLETON, C. J.  
 HAMBLETON, EARL L.  
 HAMER, R. W.  
 HAMILTON, HENRY E.  
 HAMILTON, I. K.  
 HANECY, ELBRIDGE  
 HANLON, JOHN J.  
 HARAHAH, J. T.  
 HARBECK, EUGENE

- HARDING, AMOS I.  
 HARGREAVS, GEORGE  
 HARRIS, D. I.  
 HARRIS, GEORGE B.  
 HARRIS, JOHN I.  
 HARRIS, MADISON R.  
 HARRIS, N. W.  
 HARTMAN, ISAAC  
 HARVEY, FURLINGTON W.  
 HASKELL, FREDERICK T.  
 HAVENS, A. L.  
 HAYES, D. H.  
 HEARD, DWIGHT BANCROFT  
 HEATH, ERNEST W.  
 HEMMELGARN, H.  
 HENDERSON, CHARLES M.  
 HENNING, DR. FRANCIS A.  
 HIBBARD, F. V. S.  
 HINLS, EDWARD  
 HOARD, CHARLES D.  
 HOFFLUND, ALEX.  
 HOGG, HOLMES  
 HOLDOM, JESSE  
 HOLT, D. R.  
 HOLT, GEORGE H.  
 HOPKINS, JOHN P.  
 HORNER, ISAAC  
 HOSKINS, WILLIAM  
 HOUGH, CHARLES R.  
 HOUGHTELING, JAMES L.  
 HOWARD, FREDERICK  
 HOWLAND, WALTER M.  
 HOYNE, JAS. T.  
 HUGHITT, MARVIN  
 HULL, MORTON B.  
 HUNT, JAMES A.  
 HUTCHINS, EUGENE R.  
 HUTCHINSON, MRS. B. P.  
 HYDE, JAMES NEVINS  
  
 ILLIFF, WILLIAM H.  
 INGALS, DR. EPHRAIM  
 INGALS, E. FLETCHER  
 INGRAHAM, MRS. G. S.  
 INSULL, SAMUEL  
 ISBESTER, T.  
 ISHAM, EDWARD S.  
  
 JACKSON, HERMAN B.  
 JANES, JOHN J.  
 JENKINS, T. R.  
 JENKINS, WILTON A.  
  
 JERREMS, MRS. W. G.  
 JESSUP, DR. ROBERT B.  
 JOHNSON, HERBERT B.  
 JOHNSON, I. M.  
 JOHNSON, W. P.  
 JOHNSTON, D. P.  
 JONES, I. S.  
 JUDSON, C. E.  
 JUDSON, HARRY PRATT  
  
 KAMMERER, F. G.  
 KAVANAGH, CHARLES J.  
 KEFFER, LOUIS  
 KEELER, HERVEY E.  
 KIEP, ALBERT  
 KIEP, WILLIAM F.  
 KEITH, EDSON  
 KEITH, W. SCOTT  
 KELLEY, DAVID  
 KELLOGG, MRS. C. P.  
 KELLOGG, JAMES B.  
 KELLOGG, MILO G.  
 KENNETT, FRANCIS J.  
 KENT, THOMAS  
 KEOGH, EUGENE  
 KEWLEY, J. R.  
 KIMBALL, EUGENE S.  
 KIMBALL, GEORGE F.  
 KIMBALL, MRS. MARK  
 KIMBALL, W. W.  
 KING, HENRY W.  
 KIRCHBLEGER, S. H.  
 KLEINE, HENRY  
 KNIGHT, MRS. WILLIAM M.  
 KNOTT, HENRY A.  
 KOCHERSPERGER, D. H.  
 KOEHLER, THOMAS S.  
  
 LAFLIN, ALBERT S.  
 LAFLIN, ARTHUR K.  
 LAFLIN, GEORGE H.  
 LAFLIN, JNO. P.  
 LAFLIN, LYCURGUS  
 LAMB, CHAS. A.  
 LAMB, FRANK H.  
 LAMPTON, MRS. A. D.  
 LANGDON, R. B.  
 LARTZ, W. C. C.  
 LAWRENCE, EDWARD F.  
 LAWSON, VICTOR F.  
 LAY, A. TRACY.  
 LEACH, THOS. A.

LE BARON, WM.  
LEFENS, THIES J.  
LEGNER, WM.  
LEITER, JOSEPH.  
LELAND, WARREN F.  
LEVI, HENRY C.  
LEVY, ALEXANDER H.  
LEWIS, JAMES F.  
LEWIS, MRS. WILLIAM G.  
LEYENBERGER, CHARLES  
LIGHTNER, MILTON C.  
LINCOLN, ROBERT T.  
LINN, W. R.  
LLOYD, EVAN  
LOCKE, JOHN M.  
LOEWENTHAL, B.  
LOGAN, F. G.  
LOMBARD, JOSIAH L.  
LONG, EUGENE C.  
LORD, GEORGE S.  
LORD, J. B.  
LOSS, C. E.  
LOWY, HAIMAN  
LUDLAM, DR. R.  
LUNT, ORRINGTON  
LYFORD, O. S.  
LYFORD, W. H.  
LYON, GEORGE M.  
LYON, THOMAS R.  
McCREA, W. S.  
McDONALD, J. S.  
McELLIGOTT, THOMAS G.  
McGUIRE, REV. H.  
McKINLEY, WILLIAM B.  
McKEEVER, JAMES L.  
McKINLOCK, GEORGE A.  
McKINLOCK, WILLIAM H.  
McLEAN, W. A.  
McLENNAN, J. A.  
McNALLY, ANDREW  
McNEIL, MALCOLM  
McVICKER, J. H.  
McWILLIAMS, LA FAYETTE  
MacGEAGH, JOHN W.  
MacVEAGH, FRANKLIN  
MAIR, CHARLES A.  
MALLETT, J. P.  
MANASSE, LOUIS  
MANSON, WILLIAM  
MANSURE, E. L.  
MANVEL, MRS. ANNA F.  
MARK, CLAYTON  
MARKWALD, LIEUT. ERNST  
MARSH, CHARLES A.  
MARSHALL, GEORGE E.  
MARSTON, THOS. B.  
MARTIN, DR. FRANKLIN H.  
MASON, EDWARD G.  
MATHEWS, GEORGE W.  
MATTHIESSEN, C. H.  
MAURER, WILLIAM  
MAY, HORATIO N.  
MAYER, DAVID  
MAYER, LEVY  
MAYO, J. B.  
MEAD, W. L.  
MEARS, CHARLES  
MERRICK, L. C.  
MERRYWEATHER, GEORGE  
MEYER, ISAAC  
MEYER, MRS. M. A.  
MIDDLETON, GEORGE  
MILLER, CHARLES P.  
MILLER, DE LASKIE  
MILLER, HENRY G.  
MILLER, THOMAS  
MILLER, DR. TRUMAN W.  
MILLIKEN, WALTER L.  
MILLS, FRANK O.  
MILNOR, LLOYD  
MITCHELL, J. J.  
MIXER, C. H. S.  
MOORE, LAWRENCE C.  
MOORE, JAMES HOBART  
MOORE, N. G.  
MOORE, SILAS M.  
MOORE, WILLIAM H.  
MORGAN, GEO. C.  
MORISON, GEORGE S.  
MORRIS, EDWARD  
MORRIS, IRA  
MORRIS, NELSON  
MORSE, CHARLES J.  
MORSE, JAY C.  
MOULTON, D. A.  
MOULTON, GEORGE M.  
MUHLKE, JOSEPH H.  
MULLIKEN, A. H.  
MULLIKEN, CHARLES H.  
MUNRO, WILLIAM  
MURDOCH, THOMAS  
MURDOCK, DR. E. P.

- NATHAN, ADOLPH  
 NATHAN, HELEMAN  
 NELSON, MURRY  
 NEWBURY, GEORGE G.  
 NEWELL, FRANK A.  
 NEWELL, O. S.  
 NOELAN, JOHN H.  
 NORTON, HORATIO N.  
 NORTON, JAMES S.  
 NORTON, O. W.  
 NOYES, FAVERNE W.  
 OHNI, THEODORE  
 ORB, JOHN A.  
 ORCHARD, JOHN GRANT  
 OSBORN, HENRY A.  
 OSBORNE, FRANK SAYRE  
 OTIS, CHARLES T.  
 OTIS, GEORGE L.  
 OTIS, L. B.  
 PALMER, MILTON L.  
 PALMER, FERRUAL B.  
 PAPIN, MRS. K. A.  
 PARKER, A. K.  
 PARKER, FRANCIS W.  
 PARKER, F. W.  
 PARKS, JOHN C.  
 PATTERSON, W. R.  
 PEACOCK, C. D.  
 PEASE, JAMES  
 PEASLEY, J. C.  
 PECK, CLARENCE L.  
 PECK, GEORGE R.  
 PECK, WALTER L.  
 PECK, W. H.  
 PENNINGTON, T. C.  
 PERRY, FREDERICK B.  
 PETERSEN, GEORGE L.  
 PETERSON, WILLIAM A.  
 PETTIBONE, A. G.  
 PIETSCH, C. F.  
 PIKE, EUGENE S.  
 PINKERTON, W. A.  
 PITKIN, HARVEY E.  
 PLUMMER, JONATHAN W.  
 POND, IRVING K.  
 POPE, MRS. CHAS. B.  
 PORTER, FRANK W.  
 PORTER, H. H.  
 PORTER, MRS. JULIA F.  
 PORTER, WASHINGTON  
 POTTER, ORRIN W.  
 PRESTON, DEMING H.  
 PRIMLEY, J. P.  
 PRUSSING, LUGINE E.  
 PUSLY, DR. CHARLES M.  
 QUICK, JOHN H. S.  
 RABER, F. W.  
 RAND, JOHN C.  
 RANDALL, THOMAS D.  
 RAY, FRANK H.  
 RAYNER, JAMES B.  
 RAWSON, STEPHEN W.  
 REECE, ALONZO N.  
 REHM, JACOB  
 REID, W. H.  
 REW, HENRY C.  
 REYNOLDS, GEORGE B.  
 RHODE, JOHN C. W.  
 RICE, DR. S. B.  
 RICHARDS, J. T.  
 RICKARDS, GEORGE E.  
 RIDGWAY, WM.  
 RIPLEY, E. P.<sup>1</sup>  
 ROE, CHAS. S.  
 RODMAN, SAMUEL  
 ROLOSON, R. W.  
 ROOD, JAMES  
 ROSENBERG, JACOB  
 ROSENFELD, MAURICE  
 ROSENTHAL, ISAAC  
 ROSENTHAL, JULIUS  
 ROSENTHAL, OSCAR  
 ROTHSCHILD, A. M.  
 ROTHSCHILD, FRED  
 ROWE, MRS. CHARLES H.  
 RUMSEY, GEORGE D.  
 RUNNELLS, J. S.  
 SABIN, A. R.  
 SATTLEY, W. N.  
 SAWYER, CHARLES B.  
 SCHINTZ, THEODORE  
 SCHINTZ, THEO. H.  
 SCHLESINGER, LEOPOLD  
 SCHMIDT, GEORGE A.  
 SCHMIDT, L.  
 SCHMIDT, O. L.  
 SCHMIDT, ANTHONY  
 SCHNEIDER, OTTO C.  
 SCHNERING, JULIUS  
 SCHWARTZ, G. A.  
 SCULL, HENRY



SEARS JOSEPH  
 SEAVERNS, JR., GEORGE A.  
 SECKEL, ALBERT  
 SEDERHOLM, E. T.  
 SEIPP, MRS. C.  
 SEIPP, W. C.  
 SELZ, MORRIS  
 SENN, MRS. N.  
 SERCOMB, ALBERT L.  
 SEWELL, BARTON  
 SHAFFER, J. C.  
 SHANKLAND, EDWARD C.  
 SHAW, GILBERT B.  
 SHEDD, JNO. G.  
 SHEPARD, J. H.  
 SHEPARD, MRS. HENRY MAR-  
 TYN  
 SHERWOOD, H. M.  
 SHERWOOD, MARC  
 SHIPMAN, DANIEL B.  
 SHORTALL, JOHN G.  
 SHUTE, JOHN W.  
 SIEGEL, FERDINAND  
 SIMM, JAMES C.  
 SIMMONS, J. J.  
 SIMONDS, GILBERT  
 SIMONS, DR. CHARLES J.  
 SINGER, A. L.  
 SKINNER, THE MISSES  
 SLOCUM, J. E.  
 SLOSSON, ANSON H.  
 SMITH, CHARLES HEAD  
 SMITH, CHARLES MATHER  
 SMITH, F. B.  
 SMITH, JOHN C.  
 SMITH, ORSON  
 SMITH, ROBERT J.  
 SNELL, MRS. HENRIETTA  
 SNOW, MISS HELEN E.  
 SNYDER, REV. CHAS. C.  
 SODEN, G. A.  
 SOLLITT, OLIVER  
 SONTAG, FRITZ  
 SOMERVILLE, ROBERT  
 SOPER, ALEX. C.  
 SOPER, JAMES P.  
 SOUTHWELL, H. E.  
 SPALDING, JESSE  
 SPENCE, MRS. ELIZABETH E.  
 SPRAGUE, O. S. A.  
 STANLEY, FRANK W.  
 STANTON, W. A.  
 STEELE, HENRY B.  
 STICKNEY, MRS. EDWARD S.  
 STILES, JOSIAH  
 STIRLING, W. R.  
 STOCKTON, JOHN T.  
 STRAHORN, ROBERT  
 STRAUS, SIMON  
 STROBEL, C. L.  
 STUART, ROBERT  
 STUDEBAKER, PETER E.  
 SULLIVAN, LOUIS H.  
 TAYLOR, SAMUEL G.  
 TEMPLETON, THOMAS  
 THORNE, GEORGE R.  
 TIFFANY, H. S.  
 TILTON, MRS. L. J.  
 TOBEY, FRANK B.  
 TREAT, CHARLES P.  
 TRIPP, C. E.  
 TRUAX, CHARLES  
 TRUDE, A. S.  
 TRUE, ALBERT W.  
 TRUMBULL, JOHN H.  
 TURBIN, DR. LOUIS M.  
 TURNER, E. A.  
 TURNER, VOLUNTINE C.  
 TYRRELL, JOHN  
 TYSON, RUSSELL  
 UIHLEIN, EDWARD G.  
 UPTON, GEORGE P.  
 VAN HAMM, F. R.  
 VIERLING, LOUIS  
 VIERLING, ROBERT  
 WACKER, CHARLES H.  
 WAIT, HORATIO L.  
 WALKER, ALDACE F.  
 WALKER, AMOS W.  
 WALKER, GEORGE C.  
 WALKER, HENRY H.  
 WALKER, JAMES R.  
 WALKER, ROBERT P.  
 WALKER, WM. B.  
 WALKER, W. S.  
 WALLER, EDWARD C.  
 WARNER, EZRA J.  
 WATKINS, WILLIAM W.  
 WATSON, A. D.

WATSON, JAMES F.	WILSON, E. C.
WATSON, WILLIAM J.	WILSON, M. H.
WAUGH, DR. WILLIAM F.	WILSON, WM. J.
WEBSTER, GEORGE H.	WILSON, W. M.
WEINSHLEIMER, A. S.	WING, DR. ELBERT
WELLING, JOHN C.	WING, THOMAS W.
WELLINGTON, A. G.	WINK, HENRY
WELLS, B. R.	WINSLOW, Z. R.
WERNER, P. F.	WITHROW, REV. J. L.
WHIFFLER, CHARLES W.	WOLF, FRED W.
WHIFFLER, FRANCIS T.	WOOD, JOHN H.
WHEELER, G. H.	WOOD, S. E.
WHITE, A. STAMFORD	WOODCOCK, LINDSAY T.
WHITE, WM. SR.	WOODHEAD, J. E.
WHITEHEAD, WM. M.	WOODLAND, GEORGE
WHITEHOUSE, FRANCIS M.	WOOLF, ISAAC
WICKES, T. H.	WRIGHT, THOS. A.
WILLIAMS, ABRAM	
WILLIAMS, DIXON C.	YERKES, CHARLES T.
WILLIAMS, SIMEON B.	YOUNG, CARYL
WILLING, MRS. HENRY J.	YOUNG, WM. S.
WILMARTH, MRS. H. M.	

DECEASED.

F. C. OSBORN.

## LIST OF DONORS OF WORLD'S COLUMBIAN EXPOSITION STOCK.

Aagard, J. . . . .	10	Armour, Allison V. . . . .	100
Abbott, A. H. & Company . . .	50	Armsby, J. K., Company . . .	100
Abendpost Company, The . . .	100	Armstrong, Charles G. . . . .	5
Adair, John D. . . . .	5	Arnold Brothers . . . . .	100
Adams, F. F., Tobacco Company	50	Artingstall, Samuel G. . . . .	100
Adams, George E. . . . .	200	Atlas Nat'l Bank of Chicago . .	200
Adams, J. McGregor . . . . .	5	Austin, F. C. . . . .	50
Adams & Westlake Co., The . .	250	Ayer, B. F. . . . .	25
Adams, Wm. Henri . . . . .	10	Ayer, Ed. E. . . . .	250
Adler, Dankmar . . . . .	25	Bach, Becker & Company . . .	25
Aiken, Lois M. . . . .	2	Baeder, Adamson & Company	100
Aiken, Wm. . . . .	1	Baker, Charles S. . . . .	20
Ajax Forge Company . . . . .	100	Baker, Frank . . . . .	20
Aldrich, J. Frank . . . . .	10	Baker & Vawter Company . .	10
Allen, Benj. & Co. . . . .	250	Balding, Jennie M. . . . .	5
Allen, Charles L. . . . .	25	Baldwin, Annie S. . . . .	1
Allen, E. L. . . . .	5	Baldwin, Chas. W. . . . .	10
Allen, E. L. . . . .	1	Baldwin, John A. . . . .	30
Allen, George E. . . . .	5	Ballard, Addison . . . . .	10
Allen, J. D. . . . .	20	Ballard, Thomas C. . . . .	2
Aller, D. S. . . . .	1	Barbour, James J. . . . .	2
Alt George E. . . . .	1	Barnes, J. M. . . . .	5
Alzen, Carl A. . . . .	1	Barnhart Brothers & Spindler	150
American Cutlery Company . . .	25	Barnhart, Kenneth . . . . .	5
Am. Emp. Liability Ins. Co., The	25	Barrett, J. P. . . . .	5
American Exchange Nat'l Bank	500	Barrett, S. E., Mfg. Co. . . . .	510
American Express Company . .	2500	Bartlett, Frazier & Co. . . . .	50
American Soda Fountain Co. . .	25	Barton, E. M. . . . .	20
Ames and Frost Company . . .	100	Batcheller, W. . . . .	20
Ames, H. D. . . . .	1	Bateman, S. . . . .	10
Anderson, D. F. . . . .	10	Battams, George E. . . . .	1
Anderson, W. P. . . . .	5	Baude, Frank W. . . . .	1
Andrews, Elliott R. . . . .	1	Bayley, Edwin F. . . . .	25
Andrews, W. J. . . . .	5	Becker, A. W. . . . .	25

NOTE.—The number of shares is equivalent to the number of dollars donated in each case, as the declared dividend was ten per cent and the shares were ten dollars each.

Becker, P. & Company . . . . .	50	Bradstreet Company, The . . . . .	100
Bee Hive, The . . . . .	250	Brady, Charles G. . . . .	1
Beetle, George L. . . . .	2	Bramard's Sons Co., The S. . . . .	50
Beggam, Bernard . . . . .	1	Bramard, I. G. . . . .	1
Beidler, J. . . . .	100	Braunemister Pub. Co., Der . . . . .	10
Beiersdorf, J. . . . .	2	Braun, George P. . . . .	50
Belding Bros. & Company . . . . .	250	Brennan, Edward P. . . . .	1
Bell, Conrad & Company . . . . .	50	Brewster, Edward L., & Co. . . . .	101
Beneshet, George H., & Company . . . . .	25	Breyspraak, H. A. . . . .	2
Beneshet, G. M. . . . .	5	Bridgman, Arthur . . . . .	1
Benham, Trumbull & Co. . . . .	50	Bridgman, Florence L. . . . .	1
Bennett, E. W. . . . .	1	Bridgman, H. L. . . . .	10
Bennett, H. F. . . . .	5	Brinks Chicago City Ex. Co. . . . .	50
Bennett, K. J. . . . .	110	Brintnall, Solva . . . . .	10
Bent, George P. . . . .	25	Brintnall, W. H. . . . .	10
Bentley, Walter G. . . . .	1	Brooke, Albert H. . . . .	1
Berg, A. . . . .	2	Brooke, Lincoln . . . . .	1
Bert, Miss E. . . . .	1	Brooker & Holmes . . . . .	20
Bigelow Bros. . . . .	100	Brooks, J. F. . . . .	1
Biroth, Henry . . . . .	25	Brower, D. R. . . . .	50
Birr, Fred F., Jr. . . . .	1	Brown, A. E. . . . .	25
Bishop, A., & Company . . . . .	100	Brown, A. F. . . . .	1
Bishop, Charles Nelson . . . . .	10	Brown, C. A. . . . .	2
Bissell, G. F. . . . .	50	Brown, E. W. . . . .	2
Blackwell's Durham Tobacco Co. . . . .	150	Brown, H. C. . . . .	5
Blakelidge, G. W. . . . .	1	Brown, Harry M. . . . .	20
Blatchford Cartridge Works . . . . .	25	Brown, Henry F. . . . .	10
Blatchford, E. W., & Company . . . . .	250	Brown, Paul . . . . .	2
Blayney, Arthur C. . . . .	5	Brown, R. L. C. . . . .	2
Blayney, T. C. . . . .	5	Browning King & Co. . . . .	250
Bleicke, F. W. . . . .	2	Buck & Rayner . . . . .	100
Bliss, Bullard & Gormley . . . . .	100	Buck, Silas E. . . . .	5
Bliss, George H. . . . .	10	Buckingham, J. . . . .	10
Bliss, N. W. . . . .	20	Buehler, John . . . . .	100
Boake, A. F. . . . .	1	Buehler, John W. . . . .	5
Boal, Charles T. . . . .	25	Buescher, Henry . . . . .	1
Bode, Fred . . . . .	25	Bull, L. J. . . . .	5
Bodman, A. C. . . . .	5	Bundy, John C. . . . .	25
Bolles and Rogers . . . . .	30	Burdick, E. M. . . . .	2
Boltwood, H. L. . . . .	3	Burley & Co. . . . .	250
Bond, William A. . . . .	50	Burman, Edw. F. . . . .	1
Booth Packing Co. . . . .	250	Burnham, D. H. . . . .	150
Borden, William . . . . .	300	Burton, LeGrand . . . . .	25
Born, M., & Company . . . . .	50	Burton, S. Lester . . . . .	25
Bowen, Arthur P. . . . .	10	Bush, Simmons & Co. . . . .	75
Bowen, Stephen T. . . . .	1	Bushnell, J. A. . . . .	1
Bowen, S. T. . . . .	2	Buss, Frederick B. . . . .	5
Boyer, Louis J. . . . .	5	Butler Brothers . . . . .	500
Boyles, Charles D. . . . .	1	Butler, Walter . . . . .	5
Bradley, Theo., Jr. . . . .	1	Buttolph, A. C. . . . .	85
Bradshaw & Wait . . . . .	25	Brachvogel, Charles H. . . . .	10
		Bryan, Thomas B. . . . .	100

Byford, Henry T. . . . .	10	Chicago Wilmington & Ver-	
Byrne, Margaret . . . . .	5	million Coal Company, The	100
Byrne, Sarah . . . . .	5	Christensen, A. L. . . . .	1
Cahn, B. R. . . . .	50	Clark, Melville . . . . .	10
Cahn, Wampold & Company .	250	Clay & Forrest . . . . .	50
Cameron, Amberg & Company	100	Clay, Robinson & Co. . . . .	150
Cameron, John McRae . . . .	1	Cleveland, L. D. . . . .	2
Cameron, W. F. . . . .	3	Cleveland Twist Drill Co. . . .	20
Cameron, W. H. . . . .	10	Cluett, Coon & Company . . . .	300
Campbell & Custer . . . . .	50	Cobb, Henry Ives . . . . .	50
Cantrovitz, Harry S. . . . .	1	Cobb, S. B. . . . .	100
Cantrovitz, Admr. of J. S. . . .	1	Cobb, Thomas A. . . . .	1
Cantrovitz, Sol. M. . . . .	1	Cochran, J. Lewis . . . . .	100
Carlisle, W. K. . . . .	5	Cohn, Daniel A. . . . .	20
Carlson, Alfred . . . . .	1	Cole, George E., & Company . .	100
Carnall, J. M. . . . .	1	Colton, A. M. F. . . . .	15
Carpenter, W. M. . . . .	1	Coman, Seymour . . . . .	10
Carter, L. J. . . . .	2	Commercial Cable Company . . .	250
Carrington, William T. . . . .	50	Comstock, W. C. . . . .	300
Carse, David B. . . . .	5	Conkey, W. B. . . . .	100
Carson, Pirie, Scott & Company	2500	Conover, C. H. . . . .	10
Carter, E. P. . . . .	1	Cook, Henry L. . . . .	1
Cary, Eugene . . . . .	50	Coolidge, Winthrop . . . . .	1
Case, J. I., T. M. Co., . . . . .	100	Coolidge, W. G. . . . .	7
Case & Martin . . . . .	40	Cooper, John S. . . . .	10
Castle Shirt Company, The . . . .	75	Corn Exchange Bank . . . . .	750
Catlin, C. E. . . . .	2	Cornell, Paul . . . . .	15
Chace, L. J. . . . .	2	Crandall, C. D. . . . .	3
Chace, Paul Griswold . . . . .	1	Crane Company . . . . .	1000
Chace, Robert Arnold . . . . .	1	Crane Elevator Company . . . . .	750
Chadevick, J. P. . . . .	1	Crawford, A. . . . .	50
Chambers, J. B. & Co. . . . .	150	Crerar, Adams & Company . . . .	250
Champlin, A. H. . . . .	5	Crilly, W. M. . . . .	25
Chandler, G. M. . . . .	2	Critchell, R. S. & Co. . . . .	100
Chandler, Joseph B. . . . .	3	Crook, V. E. . . . .	1
Chapin & Gore . . . . .	500	Crosby Steam Gage & Valve Co.	50
Chesebro, W. H. . . . .	5	Crouch, R. B. & Co. . . . .	25
Chicago Arc Light & Power		Cumberland, A. A. . . . .	1
Company . . . . .	200	Curtis, Augustus D. . . . .	1
Chicago City Railway Co. . . . .	10000	Cushing, E. T. . . . .	50
Chicago Corset Company . . . . .	100	Cutler, A. J. . . . .	1
Chicago Edison Company, The . . . .	250	C. Y. Transfer Company . . . . .	10
Chicago Folding Box Company . . . .	10	Daily National Hotel Reporter . .	10
Chicago Packing & Prov. Co. . . . .	250	Danforth, I. N. . . . .	10
Chicago Rawhide Mfg. Co. . . . .	150	Daniels, A. M. . . . .	2
Chicago Screw Company . . . . .	40	Dashiell, L. . . . .	1
Chicago Shot Tower Works . . . . .	25	Davis, Anna I. . . . .	1
Chicago Slate & Mantel Co. . . . .	20	Davis Brothers . . . . .	10
Chicago Spring Butt Co. . . . .	10	Davis, Charles W. . . . .	3
Chicago Sugar Refining Co. . . . .	150	Davis, Geo. R. . . . .	100
Chicago Telephone Company . . . . .	500	Davis, The John, Company . . . .	100
Chicago Varnish Company . . . . .	100	Daube, M. Jacob . . . . .	20

Danby Iron Works . . . . .	25	"Economist," The . . . . .	25
Dean, Eader & Company . . . . .	100	Edwards, W. H. . . . .	2
Dean, Charles A. . . . .	2	Eggleston, Malette & Brownell . . . . .	100
Dean, John E. . . . .	5	Eichberg, Max . . . . .	10
DeCosta, R. . . . .	5	Eichm, Charles L. . . . .	10
Deering, Wm. & Co. . . . .	1000	Eisendrath, B. W., & Company . . . . .	25
Delaney & Murphy . . . . .	100	Eisendrath, Henry . . . . .	1
Dengler, Gottlob . . . . .	5	Eisendrath, W. N., & Company . . . . .	50
Dennis, Joseph S. . . . .	5	Ela, John W. . . . .	3
Dent, Thomas . . . . .	25	Elkins, M. . . . .	25
Devlin, J. B. . . . .	25	Ellsworth, James W. . . . .	250
Devore, A. A., & Sons . . . . .	20	Elmer & Anderson . . . . .	25
Dewey, Albert B. . . . .	150	Embree, J. R. . . . .	25
Dewey, Charles P. . . . .	150	Emmerich, Charles, & Co. . . . .	100
Dewitz, H. . . . .	1	Endicott, E. M. . . . .	10
De Wolfe, Wallace L. . . . .	5	England, A. H. . . . .	1
Dexter, Miss Lydia A. . . . .	1	Englewood Electric Light Co. . . . .	10
Dexter, Mrs. Ransom . . . . .	1	Erickson, Andrew Magnus . . . . .	2
Dickinson, The Albert, Co. . . . .	150	Etheridge, Francis . . . . .	10
Dickinson, Nathan . . . . .	1	Eureka Fire Hose Company . . . . .	50
Diffley, M. W. . . . .	50	Evans, Orrin L. . . . .	5
Dusston, Henry, & Sons . . . . .	100	Evatt, Wm. . . . .	5
Dobbins, Thomas S. . . . .	0	Everett, W., & Son . . . . .	10
Dole, James H. . . . .	50	Ewen, John M. . . . .	11
Donnelley, R. R., & Sons Co. . . . .	50	Fairbanks, The E. & T., & Co. . . . .	250
Dore, John C. . . . .	100	Falkenau, Victor . . . . .	50
Douglass, William A. . . . .	5	Farlin, J. W. . . . .	25
Dovenmuehle, H. F. C., & Son . . . . .	100	Farrell, P. . . . .	20
Drake, Parker & Co. . . . .	150	Farwell, Arthur B. . . . .	5
Drake, T. D. . . . .	3	Farwell, George E. . . . .	15
Drew, Charles W. . . . .	50	Farwell, John V., Company . . . . .	1000
Drury Brothers . . . . .	20	Fay, C. M., & Co. . . . .	50
"Dry Goods Bulletin" . . . . .	10	Fay, C. N. . . . .	500
Duck Brand Company, The . . . . .	50	Felsenthal, Eli B. . . . .	25
Dun, R. G., & Co. . . . .	100	Ferguson, B. F. . . . .	50
Dundee, William . . . . .	10	Ferguson, Chas. H. . . . .	100
Dunham, J. S. . . . .	20	Ferguson, George W. . . . .	10
Dunham Towing & Wrecking Co. . . . .	100	Fiedler, A. B., & Sons . . . . .	100
Dunlap, R., & Co. . . . .	50	Field, Marshall & Co. . . . .	10000
Dunlop, Simpson . . . . .	15	Fire Extinguisher Mfg. Co. . . . .	20
Dunning, Orrin S. . . . .	1	Fisher, A. F., & Co. . . . .	25
Durand, Henry C. . . . .	120	Fiske, Geo. F. . . . .	1
Durgin, John C. . . . .	10	Fleischmann & Company . . . . .	50
Dutton, D. D. . . . .	1	Fleming, R. H. . . . .	100
Dynciewicz, Wladislaus . . . . .	20	Flood, J. Ramsay (M.D.) . . . . .	25
Dyrenforth & Dyrenforth . . . . .	10	Florsheim Bros. . . . .	25
Easton, Charles L. . . . .	25	Flower, J. M. . . . .	30
Eberle, Wm. H. . . . .	5	Follansbee, S. M. . . . .	10
Ebersole, Jos. . . . .	5	Follansbee, Tyler & Co. . . . .	50
Eckenbrecht, H. F. . . . .	1	Foote, E., Jr. . . . .	50
Eckhart & Swan . . . . .	100	Ford, J. S., Johnson & Com- pany . . . . .	100

Ford River Lumber Co. . . . .	50	Gradle, Dr. H. . . . .	10
Forsythe, R. . . . .	50	Gradle & Strotz . . . . .	100
Fowler, Charles W. . . . .	1	Greenebaum Sons . . . . .	25
Fox, George H. . . . .	5	Grey, Clarke & Engle . . . . .	225
Franklin, L. . . . .	10	Griffin Wheel & Foundry Co. . . . .	100
Franklin MacVeagh & Co. . . . .	500	Griggs, F. H. . . . .	1
Fraser, George . . . . .	10	Grimes, W. F. . . . .	5
Frøehlich, Max . . . . .	3	Griswold, Palmer & Co. . . . .	400
Frost, Charles S. . . . .	50	Grommes & Ulrich . . . . .	500
Frost, W. E., Mfg. Company . . . . .	25	Gross, Howard H. . . . .	50
Fuller's Adv. Agency, Chas. H. . . . .	25	Gross, S. E. . . . .	350
Fuller, A. M. . . . .	110	Gobel, E. F. . . . .	50
Fuller, D. G. . . . .	2	Goodman, Mrs. D. . . . .	1
Fuller & Fuller Co. . . . .	350	Goodman, Miss Grace . . . . .	1
Fuller, George A. . . . .	50	Goodrich Transportation Co. . . . .	100
Furst, Conrad . . . . .	100	Goodwin, Daniel . . . . .	25
Gage Brothers & Company . . . . .	100	Gould, I. L., & Company . . . . .	25
Gage, Downs Company . . . . .	25	Gould, R. M. . . . .	5
Gage, Lyman J. . . . .	250	Hack, Patty A. . . . .	1
Galloway, Helen M. . . . .	25	Hale Elevator Company . . . . .	750
Galloway, James B. . . . .	10	Hall, Thomas C. . . . .	5
Gans, Samuel . . . . .	25	Hallberg, L. G. . . . .	50
Garlichs, Fred A. H. . . . .	1	Halsted, Edward M. . . . .	1
Gartside & Leffingwell . . . . .	25	Hamann, C. F. . . . .	1
Gary, Joseph E. . . . .	25	Hambleton, C. J. . . . .	50
Gauer, N. J., Jr. . . . .	1	Hamilton, D. G. . . . .	50
Gaver, F. P. . . . .	1	Hamilton & Merryman Co. . . . .	100
Gaylord, E. . . . .	100	Hamlin, George A. . . . .	10
Geehr & Gardner . . . . .	20	Hammer, D. Harry . . . . .	25
Gentry, C. H. . . . .	25	Hammond, C. L. . . . .	5
Georg, Adolph . . . . .	10	Hammond, Fry & Co. . . . .	25
George, J. K. . . . .	2	Hanaford, H. M. . . . .	2
Gerts, Lumbard & Company . . . . .	100	Handy, Henry H. . . . .	10
Gibb, J. W. . . . .	5	Hanford, P. C. . . . .	100
Gibbs, F. C. . . . .	50	Hankey, F. L. . . . .	1
Giesler, Rudolph G. . . . .	1	Hanlon, Thomas J. . . . .	1
Gilbert & Bennett Mfg. Co. . . . .	25	Harbert, W. S. . . . .	10
Gilbreath, W. S. . . . .	1	Hardy, F. A. . . . .	25
Gillespie, John . . . . .	7	Hardy, Henry W. . . . .	3
Gillespie, Robert H. . . . .	1	Harlan, A. W. . . . .	100
Gillespie, Thomas . . . . .	3	Harris, Mrs. D. J. . . . .	1
Gillett, E. W. . . . .	200	Harris, N. W., & Co. . . . .	153
Gillette, J. F. . . . .	50	Harshberger, C. R. . . . .	25
Gillette, Josephine M., Exec'x. . . . .	50	Hartman, L. . . . .	20
Gillick, W. M. . . . .	100	Hartwell, Edwin S. . . . .	50
Gilmer, Thomas L. . . . .	10	Hatch, Azel F. . . . .	50
Gilmore, T. W. . . . .	2	Hately, John C. . . . .	100
Ginn & Company . . . . .	20	Hately, Walter C. . . . .	50
Ginter, F. W. . . . .	1	Hathaway, Franklin . . . . .	10
Githens, J. N. . . . .	2	Haskell, G. W. . . . .	5
Glover, George H., Adm. . . . .	46	Haskell, L. P. . . . .	5
Glover & Willcomb . . . . .	50	Haugan & Lindgren . . . . .	10

Hautzenroeder & Company . . . . .	10	"Hotel World" . . . . .	25
Hayes, Nellie L. . . . .	10	Hovey, E. G. . . . .	2
Hayt, H. C. . . . .	25	Hoyne, Florence A. . . . .	1
Haywood, L. . . . .	5	Hoyne, Frank G. . . . .	10
Heal, John W. . . . .	1	Hubbard, D. B. . . . .	2
Heath, Charles A. . . . .	1	Hufton, Thomas . . . . .	1
Heath & Milligan Mfg. Co. . . . .	100	Hugel, L. P. . . . .	3
Hecht, A. A. . . . .	1	Hughitt, Marvin, trustee . . . . .	5000
Hecht, F. A. . . . .	50	Huling, J. B. . . . .	11
Hedstrom, E. L., & Co. . . . .	100	Hull, M. B. . . . .	20
Heffron, Helen M. . . . .	1	"Humane Journal," The . . . . .	10
Heffron, Ida C. . . . .	1	Humstone, Keeling & Co. . . . .	100
Hemeck, Aug. . . . .	1	Hunt, J. H. . . . .	50
Heinemann, F. W., Company . . . . .	25	Hunt, Robert W., & Company . . . . .	100
Heissler & Junge Co. . . . .	100	Hunter, Thomas M. . . . .	1
Hellyer, Frederick . . . . .	10	Huntington, Bessie B. . . . .	1
Hellyer, Mrs. Georgiana . . . . .	5	Huntton, Charles . . . . .	5
Hellyer, Miss Marion . . . . .	5	Hurlbut, V. L. . . . .	25
Helmer & Frank. . . . .	25	Huscher, A. . . . .	5
Hempstead, Charles E. . . . .	2	Hutchinson, Charles A. . . . .	1
Henrottin, F. . . . .	10	Hutchinson, Chas. L. . . . .	100
Herrick, John J. . . . .	25	Hutchinson, W. H., & Son . . . . .	25
Hertle, Louis . . . . .	5	Hyman, R. W., Jr. & Co. . . . .	200
Hetherington, H. J. . . . .	3	Hypes, Fanny L. . . . .	1
Heywood, P. B. . . . .	10	Hypes, W. F. . . . .	1
Hubbard, Spencer, Bartlett & Co. . . . .	1500	Illinois Central R. R. Co. . . . .	5000
Huberman Banking Association . . . . .	150	Illinois Leather Company . . . . .	50
Hucks, Oliver H. . . . .	20	Illinois Paper Company . . . . .	100
Hill, James J. . . . .	2500	Illinois Trust & Savings Bank . . . . .	850
Hill, Matson . . . . .	30	Inderrieden, J. B., & Bro. . . . .	50
Hiller & Kollenberg . . . . .	20	"Industrial World" Co., The . . . . .	10
Hillman, C. H. . . . .	2	Ingalls, Ephraim . . . . .	40
Hilmers, Henry . . . . .	20	Ingalls, M. E., Prest. of the C., C. C. & St. L. Railway Co. . . . .	750
Hinckley, James O. . . . .	5	Ingals, E. Fletcher . . . . .	50
Hirsch, Sol. J. . . . .	2	Ingram, J. S. . . . .	5
Hishen, Margaret . . . . .	1	"Inland Architect" . . . . .	10
Hitchcock, A. B. . . . .	1	Instantaneous Water Heating Co., The . . . . .	10
Hitchcock, R. M. . . . .	10	International Nav. Co., The . . . . .	500
Hitt, W. I. . . . .	1	Jackson, Charles C. . . . .	1
Hoard, Charles D. . . . .	5	Jackson, F. W. . . . .	10
Hogan & Hisgen . . . . .	5	Jackson, H. W. . . . .	30
Holabird & Roche . . . . .	100	Jackson, J. M. . . . .	1
Holdom, Jesse . . . . .	50	Jackson, J. M. . . . .	5
Hollis & Duncan . . . . .	50	Jackson, Luis. . . . .	1
Holt Lumber Company . . . . .	50	Jackson, S. K. . . . .	25
Holton, F. G. . . . .	1	Jacobowsky, Harry . . . . .	1
Hooker, H. M., Company . . . . .	200	Jay Dwiggins & Company . . . . .	10
Hopkins, M. H. . . . .	1	Jeffery, J. T. . . . .	10
Hormuth, Joseph . . . . .	2	Jenkins, John E. . . . .	10
Horton, O. H. . . . .	20	Jenkins, Kreer & Co. . . . .	25
Hosking, Ben T., & Bro. . . . .	25		
Hosmer & Fenn . . . . .	100		



Jenkins, R. E. . . . .	25	Knight, Clarence R. . . . .	3
Jenkins, Sam R. . . . .	2	Knight, Wm. M. . . . .	50
Jenks, John G. . . . .	1	Knight, W. S., & Company . . . . .	25
Jerrems, W. G. . . . .	100	Kohlsaas, C. C. . . . .	50
Johns, H. W., Mfg. Co. . . . .	25	Kreis, A. . . . .	1
Johnson Chair Company . . . . .	100	Kreuger, J. L. . . . .	3
Johnson, Emma Irene . . . . .	2	Kueken, A. W. . . . .	15
Johnson, H. A., Estate . . . . .	10	Lacey, Maurice . . . . .	5
Johnson, Dr. Frank S. . . . .	5	Laffin, George H. . . . .	100
Johnson, Dr. Frank S. . . . .	5	Lake Mich. & Lake Superior Trans. Co. . . . .	50
Johnson, James W. . . . .	10	Lake Shore & Mich. Southern Ry. Co., The . . . . .	5000
Johnson, Oscar C. . . . .	1	Lambeau Leather Company . . . . .	75
Johnson, Peter, & Co. . . . .	50	Lamson Bros. & Co. . . . .	100
Johnson, W. S. . . . .	25	Lane, Francis B. . . . .	10
Jones A. B. . . . .	5	Lang, Rosa A. . . . .	1
Jones & Hacker . . . . .	10	Lapp & Flershem . . . . .	150
Jones, Harriet A. . . . .	25	Lathrop, Bryan . . . . .	100
Jones, William . . . . .	25	Law, Robert . . . . .	250
Josephi, Kate . . . . .	1	Lawton, James S. . . . .	10
Juergens & Anderson . . . . .	200	Lay, C. C. . . . .	25
Julius, Frank J. . . . .	1	Lee, Charles W. . . . .	1
Kaestner, Charles . . . . .	50	Lee, W. H. . . . .	25
Karpen, S., & Bros. . . . .	50	Leger, Edward & Son . . . . .	50
Kartheiser, John J. . . . .	1	Lehman, John C. . . . .	1
Katz, Charles A. . . . .	5	Leman, Francis E. . . . .	5
Kedzie, J. H. . . . .	10	Leman, Henry W. . . . .	10
Keep, Wm. B. . . . .	25	Leman, Sheldon Dole . . . . .	50
Keily, John J. . . . .	2	Leonard, Myron . . . . .	2
Kelsey, Horatio N. . . . .	3	Leonard, R. L. . . . .	10
Kendall Mfg. Company . . . . .	25	Lepper, George A. . . . .	1
Kennedy, Madison B. . . . .	5	Lerow, George L. . . . .	5
Kenthan, Alice B. . . . .	1	Leshner, William T. . . . .	5
Kenthan, Isabella G. . . . .	1	Levi, Henry C. . . . .	250
Kern, Harry W. . . . .	200	Lewis, H. C. . . . .	2
Kessler, G. T. . . . .	25	Lewis, H. L. . . . .	10
Kimball, Eugene S. . . . .	25	Lightner, M. C. . . . .	25
Kimball, W. W., Co. . . . .	500	Linden Glass Company . . . . .	5
Kimball, Elizabeth J. . . . .	25	Lindsay, H. P. . . . .	2
Kimbark, S. D. . . . .	100	Linkenheld, Charles . . . . .	1
King Brothers . . . . .	100	Lipman, A. . . . .	20
King, Henry W., & Co. . . . .	500	Little, John S. . . . .	1
King, James C. . . . .	100	Livingston, D. . . . .	2
Kingsley, H. H. . . . .	1	Lloyd, Evan . . . . .	100
Kinney, Frank F. . . . .	5	Lobdell, Farwell & Co. . . . .	100
Kinsey & Callman . . . . .	50	Lobdell, H. H. . . . .	5
Kips, Fred . . . . .	1	Lochner, George . . . . .	2
Kirchner, F. W. . . . .	2	Lockwood & Strickland . . . . .	20
Kirk, James S. & Co. . . . .	500	Lodge, 36, S. M. A. A. of N. A. . . . .	10
Klein, Mathias, & Son . . . . .	10	Loeffel, J. C. . . . .	1
Klicka, Joseph . . . . .	50	Logan, F. G. & Co. . . . .	80
Knabe, William, & Company . . . . .	100		
Knerr, L. F. . . . .	1		

Lombard, Josiah L., and C. B. Sawyer	100	McCormick Harvesting Machine Co.	2000
Loomis, John H.	5	McDuffee, Andrew J.	10
Loomis, John Mason	100	McEwen, John	50
Lord, Louise M.	2	McFarland, J. C.	20
Lord & Thomas	50	McFarlin, W. W.	2
Lothholz, Richard	25	McIntosh Battery & Optical Co.	20
Lovejoy, J. W.	1	McIntyre, Allan	1
Lowenstein, Emanuel	10	McKay, John A.	5
Lowenstein, Sidney	10	McKeever, J. L.	10
Lukens, Herman, E.	5	McKinlock, Wm. H. and Geo. A., Trustees for Central Electric Co.	100
Lunt, Orrington	100	McLaughlin, W. F., & Co.	100
Lusky, Pavn & Co.	10	McLenahan, M. B.	1
Lyman, David B.	10	McLennan, J. A.	100
Lyon & Healy	500	Mead, Harriet A.	10
Lyon, Thomas R., Ag't.	100	Mead Paper Company, The	100
Maas, J. Edward	1	Means, W. E.	1
MacGeagh, J. W.	5	Merchants Loan & Trust Co.	1500
Maclean, George A.	5	Merchants Nat'l Bank	1000
Magee, H. W.	10	Merriam, Collins & Co.	100
Magee, John J.	20	Merriek, L. C.	100
Mages, George C.	20	Metcalf, McDonald Company	50
Mallory, Son & Zimmerman Co.	20	Metropolitan Nat'l Bank	500
Malone, William	1	Middendorf, George W.	25
Mandoni, J.	1	Miller, E. W.	27
Mannere, Wm. R.	5	Miller, E. W.	1
Manson, William	25	Miller, James A., & Bro.	50
Marks, C. W.	200	Miller, James C.	2
Marsh & Bingham Co., The	50	Miller, John B.	5
Marsh, Erastus P., Receiver	20	Miller, John S.	10
Marshall, George E.	20	Mills, Harry J.	2
Marshall, George E., & Co.	50	Milmine, Bodman & Company	100
Marston, Augur & Tuttle	50	Milwaukee Harvester Company	100
Martin, George P.	10	Mitchell, Lucien C.	3
Mason Brothers	25	Moderwell, E. C.	10
Mason, E. G. & H. B., Executors	50	Moll, E., & Company	50
Mason, E. T., & Co.	25	Moore, John, & Company	30
Matchless Metal Polish Co., The	10	Moorehouse, W. H.	100
Mather, Peter L.	3	Morgan, C. H., Company	11
Mathews, George W.	20	Morgan, J. A.	3
Matlack, E. E.	1	Morrisson, Plummer & Company	250
Matton Mfg. Company	50	Moses, O. H.	1
Matteson, Joseph	25	Mueller, Chas. M.	1
Matthews, Wm. H.	5	Muir, John	5
Maurer, Cass F.	20	Munger, G. M., & Co.	100
Mayer, Ben. S.	1	Mussey, C. E., & Son	20
Mayer, R. H.	2	Nathanson, M.	1
McCagg, E. B.	25	National Bank of Illinois, The	850
McClurg, A. C., & Co.	200	National Linseed Oil Co. The	50
McClurg, W. Lowrie	3	National Malleable Castings Co.	150
McConnell Brothers	50		

Neeler, H. G. . . . .	1	Pairpoint Manufacturing Co. . . . .	50
Neimann & Weinhart Table Co., The . . . . .	50	Palm, I. F. . . . .	5
Nelson Knitting Company . . . . .	20	Palmer, Fuller & Company . . . . .	100
Nelson, Walter C. . . . .	50	Parker, F. L. . . . .	2
Nelson, W. P. & Co. . . . .	50	Parks, W. R. . . . .	2
Nevers, Edward . . . . .	10	Patton, E. A. . . . .	1
Newberry Warehouse & Stor- age Company . . . . .	40	Payson, W. G. . . . .	2
Newburger, E. N. . . . .	2	Peabody, Houghteling & Co. . . . .	250
Newell, Augustus . . . . .	50	Peale, R. S. . . . .	300
Newhall, F., & Son . . . . .	50	Pearson, D. K. . . . .	100
Newton, E. F. . . . .	15	Pearson Lumber Company, The . . . . .	10
Newton, F. A. . . . .	5	Pearsons & Taft . . . . .	100
Newton, L. C. . . . .	10	Pease, Edward H. . . . .	10
Newton, P. A. . . . .	30	Peck, Annah B. . . . .	250
Newton, P. A., Jr. . . . .	40	Peck, Clarence I. . . . .	250
Niles, H. G., Jr. . . . .	1	Peck, Ferd W. . . . .	250
Nixon, Wm. W. K. . . . .	10	Peck Walter L. . . . .	250
Northam, J. V. . . . .	50	Peiser, Sam C. . . . .	5
Northern Trust Co., The . . . . .	500	Pence, A. M. . . . .	10
Northwestern Lead & Oil Co. . . . .	50	Pennoyer, J. C., & Co. . . . .	25
"North Western Lumberman" . . . . .	50	Percival, F. W. . . . .	1
Northwestern National Bank . . . . .	500	Perine, J. W. . . . .	2
North Western Terra Cotta Co., The . . . . .	200	Perkins, George W. . . . .	25
Norton Brothers . . . . .	200	Pernod, P. . . . .	1
Norton, James S. . . . .	10	Perrin, William R., & Company . . . . .	10
Norton & Worthington . . . . .	100	Perry, A. . . . .	1
Noyes, L. W. . . . .	100	Perry, J. C. . . . .	2
Nye, James W. . . . .	10	Perry, W. . . . .	2
Oconto Company . . . . .	100	Peters Trimming Company . . . . .	25
O'Connor, Lilla . . . . .	1	Peterson, Carl . . . . .	1
Odell, B. F. J. . . . .	1	Peterson, Ing. F. . . . .	1
Office Specialty Mfg. Co. . . . .	136	Peterson, P. S. . . . .	20
Olbrich & Golbeck . . . . .	25	Pettet, F. E. . . . .	25
Orelup, Amasa . . . . .	11	Pettibone, Mulliken & Co. . . . .	50
Orr & Lockett Hdwre. Co. . . . .	100	Pettibone, Wells & Company . . . . .	25
Orr, Robert M. . . . .	2	Pfeiffer, J. F. . . . .	2
Ortlieb, Jacob . . . . .	25	Pflaum, Harry . . . . .	5
Osborn, H. A. . . . .	10	Pflueger, Wm. F. . . . .	5
Osborne, M. C., Trustee . . . . .	5	Phoenix Ins. Company . . . . .	150
Otis, F. R. . . . .	50	Philpot, B., & Co. . . . .	50
Otis, George L. . . . .	50	Pickands, Brown & Co. . . . .	200
Otis, James . . . . .	50	Pierce, C. W. . . . .	10
Otis, J. E. . . . .	50	Pierce, George H. . . . .	1
Ottofy, Louis . . . . .	1	Pierce, H. A. . . . .	1
Ottofy, Mrs. Nellie F. . . . .	1	Pierce, L. A. . . . .	1
Overdier, H. D., & Co. . . . .	20	Pike, Eugene S. . . . .	500
Overlock, F. F. . . . .	1	Pitkin & Brooks . . . . .	250
Pabst, Herman . . . . .	20	Plows, Edward . . . . .	150
Page, William R. . . . .	50	Plummer, John T. . . . .	2
		Plummer, Joseph . . . . .	1
		Poole Brothers . . . . .	100
		Populorum, P. . . . .	25

Porter Bros. & Company	50	Rogers & Diamond	25
Porter, F. W.	5	Rogers, Georgiana	1
Porter, Washington	25	Rogers, Jos. M.	20
Postal Telegraph Cable Co.	500	Rose, Quinlan & Co.	20
Pratt, F. H.	25	Roseboom, W. L., & Co.	20
Prentice, L. H., Co.	50	Rosenbaum Brothers & Co.	50
Preston, F. B., & Company	100	Rosenberg, Jacob	100
Price Flavoring Extract Co.	100	Rosenfield Bros. & Co.	10
Prince, S. Fred	1	Rosenthal, B. J.	5
Purcell, John	1	Rosenthal, Herman	10
Purinton, Kimball Brick Co.	50	Rosenwald & Weil	75
Quackenbos, Stella B.	5	Rothschild, Lew	5
Quinlan, E. J.	1	Rubber Paint Company	25
Randall, T. D.	50	Russell, Edward W.	50
Rand, McNally & Company	1000	Russell, P. A., & Co.	25
Ransom, E. S.	5	Ryan, D. W.	10
Rawson, C. L.	3	Ryan, John F.	10
Raynolds, James D., Trustee	10	Ryerson, Jos. T., & Son	200
Raynolds, James D.	30	Ryerson, Martin A.	1000
Raynolds, Julia B.	10	Ryerson, Martin, & Co.	50
Reagan, George Ellis	1	Sanford Mfg. Company	25
Ream, N. B.	500	Sanche, A.	1
Redfield, C. S.	10	Sanders, Edgar	1
Reid, F. T.	1	Sargent, Greenleaf & Brooks	25
Reid, Murdoch & Co.	1000	Sauer, Albert F.	5
Reid, William G.	1	Sawyer, C. B. (see Lombard, J. L.)	
Rendtorff, H.	20	Sawyer, Goodman & Company	100
Rew, Henry C.	100	Scammon, Mrs. J. Young	100
Reynolds, George B.	10	Scanlon, Thomas	40
Reynolds, William C.	100	Schaar, Koch & Company	50
Richards, Arch E.	2	Schaffner, W. S.	1
Richards, A. W.	1	Schaller & Stafford	50
Richards, Emily K.	2	Schaub Brothers	10
Richards, J. T.	5	Schilling, Adoph	1
Richards & Kelly Mfg. Co.	25	Schilling, Arthur	1
Richardson, O. W., & Co.	50	Schilling, Gretchen	1
Richardson Silk Company	50	Schilling, Henry	1
Richardson, Wm. D.	50	Schilling, Paul	1
Ridgway, Charles	2	Schimpferman, W. H.	250
Riley, H. B.	1	Schlesinger & Mayer	1500
Ritchie, W. C., & Company	50	Schmidt, George A.	25
Rittenhouse, M. F.	25	Schmitt, F. P.	25
Roberts, C. W.	1	Schneider, E., & Co.	250
Roberts, David B.	1	Schneider, George	50
Roberts, Hugh	1	Schroeder, H.	20
Robertson, Ada M.	2	Schultz, H. & Co.	50
Robertson, A. P.	10	Schuttler & Hotz	250
Robertson, R.	2	Schwennesen, H. P.	20
Robertson, W. A.	5	Schyke, Henry W.	2
Roekener, H. W.	10	Scully Syrup Co., D. B.	100
Rockwood, E. A.	2	Seaman Cox Brown Cooperage	
Rockwood, W. H., Jr.	1	Co.	50

Seaverns, George A. . . . .	500	Stanton & Company . . . . .	100
Seipp, William C. . . . .	489	Stansbury, E. W. . . . .	1
Sharpe, C. A. . . . .	5	State Bank of Chicago . . . . .	40
Shaw, William W. . . . .	1100	Stebbins, Henry S. . . . .	10
Shay, Maurice W. . . . .	2	Stebbins, Leonard C. . . . .	50
Sheldon, G. W., & Co. . . . .	50	Stebbins, S. I. . . . .	20
Sheriffs, John . . . . .	20	Stecher, M. D. . . . .	5
Sheriffs, John, & Son . . . . .	20	Steele, S. B. . . . .	3
Sherman & Flavin . . . . .	50	Steele, Wedeles & Co. . . . .	50
Sherwood, Marc . . . . .	25	Stern, Julius . . . . .	4
Shirlaw, Hugh . . . . .	5	Stevens, F. L. . . . .	25
Shoemaker, C. D. . . . .	2	Stevenson, D. M. . . . .	10
Siegel, Cooper & Co. . . . .	750	Stewart, Graeme . . . . .	195
Silsbee, J. L. . . . .	5	Stiles, Josiah . . . . .	25
Silverman, S. M. . . . .	5	Stillman, Anna . . . . .	1
Simon, E. A. . . . .	1	Stinson, James . . . . .	100
Singer & Talcott Stone Co. . . . .	105	Stockton, John L. . . . .	9
Sisson, H. A. . . . .	1	Stockton, John Thaw . . . . .	10
Skinner, Herbert E. . . . .	1	Stockton, Joseph . . . . .	45
Skinner, J. B., Treas. . . . .	100	Stoltze, William . . . . .	25
Skinner, William, Mfg. Co. . . . .	50	Stone, J. D. . . . .	1
Slaughter, A. O. & Co. . . . .	100	Storrs, D. W. . . . .	10
Smith, Byron L. . . . .	250	Strasburger, E. . . . .	1
Smith, C. M. . . . .	5	Strauss, Ralph . . . . .	5
Smith, Dunlap . . . . .	25	Streeter Brothers . . . . .	100
Smith, Ellen . . . . .	1	Stubbs, James E. . . . .	10
Smith, F. J. . . . .	2	Studebaker Bros. Mfg. Co. . . . .	500
Smith, George E. . . . .	5	Sullivan, Louis H. . . . .	25
Smith, George T. . . . .	100	Sullivan, T. J. . . . .	1
Smith, George W. . . . .	25	Sweet, Wallach & Co. . . . .	30
Smith, Granger, Miller & Co. . . . .	25	Swift & Company . . . . .	2000
Smith, L. M. & F. M. . . . .	25	Swift & Company . . . . .	100
Smith, Orson . . . . .	25	Switzer, E. M. . . . .	25
Smith, Percy H. . . . .	1	Taft, Lorado . . . . .	10
Smith, R. J. . . . .	50	Talcott, William A. . . . .	10
Smith, R. P., Sons & Company . . . . .	50	Tallman, L. C. . . . .	2
Smith, Shea, & Co. . . . .	25	Tanner, Louis A. . . . .	1
Snydacker, Godfrey . . . . .	20	Taylor, C. W. . . . .	1
Solberg, Albert F. . . . .	2	Taylor, W. G. . . . .	5
Soper Lumber Co., The . . . . .	100	Templeton, Thomas . . . . .	25
South Branch Lumber Co. . . . .	100	Thacher, C. I. . . . .	10
Spaulding & Company . . . . .	500	Thayer & Chandler . . . . .	30
Spencer, Charles . . . . .	1	Thoman, L. D. . . . .	10
Spencer & Macdonald . . . . .	10	Thomas, James . . . . .	5
Spencer, Robert . . . . .	5	Thomasson & Dray . . . . .	50
Spierling & Linden . . . . .	10	Thompson, John F. . . . .	50
Spierling & Linden . . . . .	20	Thompson, Slason, & Company . . . . .	25
Spitz, H. . . . .	2	Thompson & Taylor Spice Company . . . . .	200
Sprague, Warner & Co. . . . .	1000	Thorn, Frank . . . . .	25
Squire, Homer A. . . . .	1	Thurston, F. W. . . . .	10
Stallwood, H. T. . . . .	5	Thurston, Wales B. . . . .	1
Stanley, H. P., & Co. . . . .	100		

Inholin, August . . . . .	10	Waller, William . . . . .	50
Felt, F. F., Shoe Company . . .	100	Wallin, C. C., & Sons . . . . .	25
Life Guarantee & Trust Com- pany . . . . .	100	Ward, Montgomery, & Co. . . .	1000
Lusk, Max . . . . .	10	Warder, Bushnell & Glessner Co., The . . . . .	250
Lusk Mfg. Company . . . . .	25	Wardner, Louise R. . . . .	1
Lourain, C. H. . . . .	1	Washington Ice Company . . . .	620
Lover, Arthur . . . . .	1	Washington Park Club . . . . .	1000
Treat, C. P. . . . .	100	Waterman, Richard . . . . .	5
Free, Lambert . . . . .	100	Watry, N. . . . .	20
Trego, C. E. . . . .	50	Watson, Wm. J. . . . .	2
Trimingham, R. N. . . . .	5	Wayne & Low . . . . .	50
Trumbull, L. & P. . . . .	25	Webber, C. M. . . . .	10
Tuley, M. E. . . . .	20	Webster, George . . . . .	1
Turner, B. S. . . . .	5	Weinberger, A. F. . . . .	20
Udell, S. R., & Company . . . . .	10	Welling, I. C. . . . .	25
Ulrick, Walter . . . . .	5	Wells, Frank . . . . .	5
Underwood & Company . . . . .	100	Wells, M. D., & Company . . . .	1000
Union Ice Company . . . . .	10	Werner, P. E. . . . .	20
Union Stock Yd. & T. Co. . . . .	3250	Western Electric Company . . . .	250
Union Wire Mattress Co. . . . .	50	Western News Company, The . . .	50
United Indurated Fibre Co. . . .	25	Western Planing and Mfg. Co. The . . . . .	25
Upman, Frank . . . . .	100	Western Wheel Works . . . . .	100
Upman, Frank . . . . .	100	Westervelt, John J. D. . . . .	5
Upman, Frank . . . . .	50	Wheeler, Frank P. . . . .	2
Valentine, Alastair I. . . . .	5	Wheeler, Lloyd G. . . . .	10
Valentine, E. H. . . . .	25	Whitacre, Charles C. . . . .	5
Valentine, P. A. . . . .	50	White, Charles B. . . . .	20
Vallens, Eugene, & Co. . . . .	50	White, James H. . . . .	1
Van Bergen, W. F. . . . .	1	Whitfield, G. W. . . . .	5
Van Brocklin, W. . . . .	5	Whitfield, Thomas . . . . .	50
Van Deursen, C. S. . . . .	10	Whitney, George B. . . . .	5
Van Deursen, M. . . . .	5	Whitney, John B. . . . .	5
Van Vlissingen, J. H., & Bro. . .	25	Wiebert, Henry . . . . .	50
Veitch, Wilberforce . . . . .	3	Wilcox, A. E. . . . .	5
Veseen, August . . . . .	3	Wilcox, T. B. . . . .	2
Victor, H. P. . . . .	1	Wild, Theo. . . . .	5
Vierling, Clara J. . . . .	5	Wilder & Company . . . . .	100
Vierling, Louis . . . . .	50	Wiley, B. B. . . . .	1
Vierling, Robert . . . . .	50	Wiley, E. M. . . . .	2
Wahl & Henius . . . . .	10	Wiley, W. R. . . . .	10
Wait, Horatio L. . . . .	10	Willard, M. L. . . . .	10
Wait, Marshall . . . . .	5	Willard, S. L. . . . .	3
Wakefield Rattan Company . . . .	100	Williams, Benozette . . . . .	25
Walcott Hurlbut Co. . . . .	25	Williams, Nelson B. . . . .	10
Walker, Edwin . . . . .	100	Williams, Norman . . . . .	50
Walker, George C. . . . .	250	Williams, S. Lawrence . . . . .	50
Walker, James R. . . . .	100	Willing, H. J. . . . .	200
Walker, S. L. . . . .	10	Willitts & Robbins . . . . .	25
Walker & Wrenn . . . . .	50	Wilson, George C. . . . .	50
Walker-Oakley Company . . . . .	225		

Wilson, Harlow S. . . . .	1	Wolff, L., Mfg. Company . . .	500
Wilson, Henry K. . . . .	1	Wood Brothers . . . . .	100
Wilson, Joseph P. . . . .	1	Wood, William H. . . . .	15
Wilson, Maria J. . . . .	3	Woodbridge, John . . . . .	15
Wilson, Marshall J. . . . .	3	Woodbridge, John, Jr. . . . .	10
Wilson, Paul C. . . . .	1	Woodcock, L. T. . . . .	5
Wilson, Walter H. . . . .	25	Woodnutt, Thomas W. . . . .	1
Winchell, Ann E. . . . .	3	World, Richard . . . . .	10
Wing, Thomas W. . . . .	10	Wyman, Edward F. . . . .	5
Winslow, Bros. & Co., The . .	100	Yale & Towne Mfg. Company .	100
Winterbotham, J. H., & Son . .	50	Yoe, L. G., & Co. . . . .	25
Wise, Abraham . . . . .	10	Young & Farrell Diamond S. S.	
Witbeck, The H., Company . .	100	Co. . . . .	40
Witkowsky & Affeld . . . . .	25	Young, H. L. . . . .	5
Wright, Charles J. . . . .	1	Young, Hugh . . . . .	20
Wright & Meysenburg . . . .	200	Zeese, A., & Company . . . .	25
Wolf, H., & Co. . . . .	50	Ziegler, S. . . . .	5



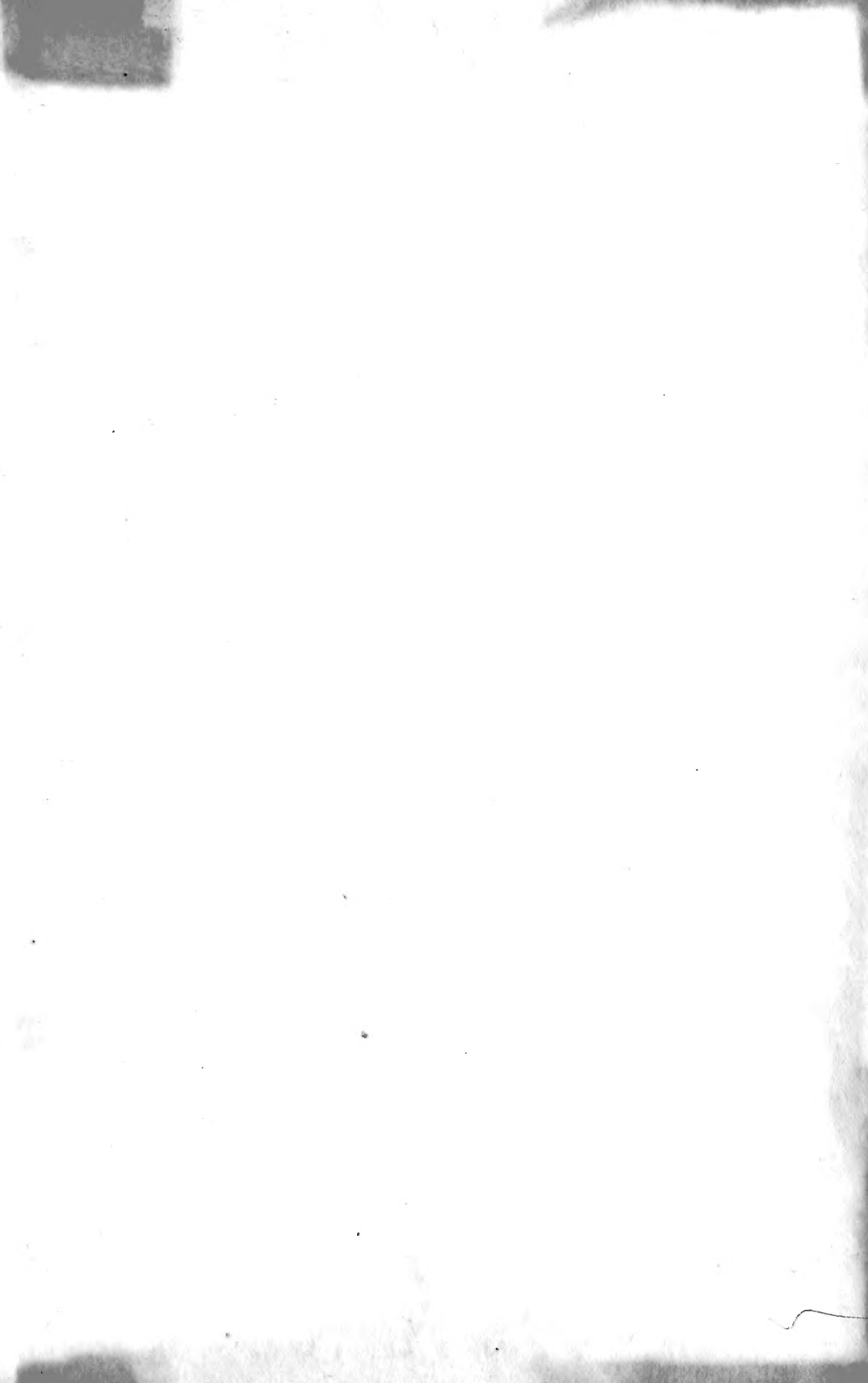








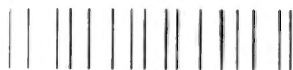




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PHYSICS DEPARTMENT

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