
Guide to the Papers of George Ellery Hale, 1882-1938

Collection number: Consult repository

Archives

California Institute of Technology
Pasadena, California

Contact Information:

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Processed by:

Daniel J. Kevles

Date Completed:

1968; updated 2000.

Encoded by:

Kevin C. Knox. Derived from XML/EAD encoded file by the Center for History of Physics, American Institute of Physics as part of a collaborative project (1999) supported by a grant from the National Endowment for the Humanities. Originally derived from the guide to the Microfilm Edition of the George Ellery Hale Papers.

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Descriptive Summary

Title: George Ellery Hale papers,

Date (inclusive): 1882-1938

Collection number: Consult repository

Creator: Hale, George Ellery, 1868-1938

Extent: 80 linear feet

Repository: California Institute of Technology. Archives.

Pasadena, California 91125

Location of Collection: Boxes 1-147 and addenda (3 boxes) (Personal Papers), California Institute of Technology, Institute Archives, Pasadena, CA Boxes 148-173 (Director's Files), Huntington Library, San Marino, CA

Abstract: This collection documents George Ellery Hale's role in planning and developing major observatories in the U. S., and in founding the California Institute of Technology and the Huntington Library. The collection also illustrates the role Hale took in organizing the National Research Council, and in promoting international cooperation among scientists. Records relating to Hale's work on the spectrohelioscope are also included.

Language: English

Access

The collection is open for research. Researchers must apply in writing for access.

Publication Rights

Requests for permission to publish material from the Hale papers located at Caltech should be addressed to: Archivist, California Institute of Technology, Mail Code 015A-74, Pasadena, CA 91125.

For files listed below in the custody of the Huntington Library (Section XI only), permission requests should be addressed to: Curator, Scientific Manuscripts, Huntington Library, 1151 Oxford Road, San Marino, CA 91108.

Users of the papers are reminded that the literary rights to letters and documents in the collection written by persons other than George Ellery Hale are not necessarily in the public domain. It is the responsibility of a scholar or publisher to obtain publication permission from the individual or organization in possession of the literary rights.

Preferred Citation

[Identification of item, box and file number], Papers of George Ellery Hale. Archives, California Institute of Technology.

Acquisition Information

George Ellery Hale's personal papers were placed in the custody of the California Institute of Technology by his heirs in 1966. These materials form the collection known as the Papers of George Ellery Hale at the Caltech Archives. The Director's Files from the Mount Wilson Observatory remained in the possession of the Carnegie Institution of Washington. They have since been deposited in the Huntington Library.

Processing History

The original organizing of the Hale papers took place in 1966 under the direction of Caltech Professor Daniel J. Kevles. A microfilm edition of 100 rolls and a guide were subsequently made with funds from the National Historical Publications Commission. The original description of the collection was done by Dr. Kevles and published in the Guide to the Microfilm Edition of the George Ellery Hale Papers. In preparing an updated introduction to the papers for an online edition of the legacy finding aid, the main portion of Professor Kevles's original introduction has been retained. An addendum, as well as a few minor editorial changes to the introduction, have been added by Charlotte E. Erwin, Associate Archivist, Caltech, in February 2000.

Biography

George Ellery Hale's papers reflect the wide diversity of his activities and accomplishments. Born in Chicago in 1868, he received his B.S. from M. I. T. in 1890. Active in the development of astrophysics, he quickly established a distinguished scientific reputation for his invention of the spectroheliograph. He made important contributions to the study of solar phenomena, organized and co-edited the *Astrophysical Journal*, and was the leading figure in the design, funding and construction of the Kenwood, Yerkes, Mount Wilson and Palomar Observatories.

Hale was also exceedingly energetic in the organization and promotion of the enterprise of science, both at home and abroad. In the United States he played a highly influential role in the National Academy of Sciences. He revived the Academy almost single-handedly by organizing the National Research Council, obtaining substantial endowment for the NAS, and establishing the critically important National Research Council Fellowships. A founder of the International Union of Cooperation in Solar Research, Foreign Secretary of the National Academy of Sciences, and a frequent delegate to the International Association of Academies, he became deeply involved in the international relations of science before the First World War. Instrumental in the establishment of the International Research Council after the war, he was president of its successor, the International Council of Scientific Unions from 1931 to 1934.

Hale settled in Pasadena, California in 1904 to assume the duties of Director of the newly established Mount Wilson Observatory and became deeply involved in the educational and cultural affairs of the area. Among his most important efforts were the creation and development of the California Institute of Technology and the Huntington Library. The Hale collection provides an unusually complete record of his activities.

Scope and Content of Collection

The Papers of George Ellery Hale cover the years from 1882 to 1938, the year of his death, with the inclusion of a few scattered condolence letters from the period directly following. Apart from its importance for the study of Hale's personal and professional life, the collection is one of the richest sources for the history of science in the United States in the early twentieth century. It contains a good deal of significant material relating to the theoretical and instrumental development of astrophysics and the history of the Mount Wilson and Palomar Observatories. The collection is of singular importance for the study of science and government, particularly with respect to the affairs of the National Academy of Sciences and the National Research Council. It documents much of the early history of the California Institute of Technology. Finally it contains substantial material on the general affairs of the scientific community in the United States and Europe.

In April 1966, with the Hale family's consent, the personal papers and the Mount Wilson files were organized and catalogued under the direction of Dr. Daniel J. Kevles of the California Institute of Technology. The project was undertaken with the cooperation and encouragement of Dr. Horace Babcock, Director of Mount Wilson, his predecessor, Dr. Ira Bowen, Dr. Charles Weiner of the American Institute of Physics' Center for History of Physics, Dr. Lee DuBridge, President of Caltech, and Mr. Fred Shelley of the National Historical Publications Commission. Most of the financial support for the organization of the papers was provided by the Carnegie Institution of Washington and the California Institute of Technology; the American Institute of Physics' Center for History of Physics provided the remainder of the funds from a grant made to it by the National Science Foundation to facilitate and encourage the preservation of manuscripts in the history of science.

The heart of the Hale collection consists of the personal and organizational correspondence and the Director's Files of the Mount Wilson Observatory. All three of these groups must be used together. Since Hale's own arrangement of his files was respected in the organization of the collection, the personal correspondence contains scattered files on organizations. Furthermore, all three groups of files contain material related to individuals, organizations, and problems in science. For example, a good deal of information on the Mount Wilson Observatory is in the Robert S. Woodward file, among many others, in the personal section. Similarly, substantial material on William W. Campbell is to be found in the National Academy of Sciences files in the organizational section.

Cross-checking for material on given subjects must also be done within particular sections. For example, the files on international scientific organizations, which deal mainly with the International Research Council and its associated Unions, must be used together with the records relating to the National Academy of Sciences and the National Research Council.

The remaining material is a valuable supplement to the rest of the collection. Hale's family letters, particularly the letters to his wife, Evalina, contain many a frank and detailed appraisal of his activities. The documents relating to his scientific work are of two types: notebooks and letters, all of which date between 1926 and 1936, dealing with his work on the spectrohelioscope. There are twelve notebooks. Three appear to be for 1892, 1893, and 1909 respectively; the rest are dated 1905, 1906, 1911, 1916, 1917, 1920-1930, 1924, 1933, and 1934. In addition to strictly scientific work, Hale recorded in these notebooks ideas and plans for institutions with which he was associated, drafts of articles, and, on occasion, his general thoughts.

In the biographical and personal material are Hale's pocket diaries, an indispensable source for the study of any aspect of Hale's life. These diaries exist for the following years: 1886, 1893, 1894, 1903, 1905, 1910-1912, 1914, 1916-1927, 1929-1935. Three additional diaries are undated. The rest of the biographical and personal section contains material on Hale's childhood and student days at M. I. T.; his autobiographical notes and personal miscellanea; requests and thanks for funds, speeches, personal help, etc.; and honors, invitations, clubs, and lists of books bought.

Organization of Collection

The original Hale papers in their entirety are organized into ten series: I. Personal correspondence and documents relating to individuals (Boxes 1-46); II. Correspondence and documents relating to organizations (Boxes 47-79), subseries A-D as follows: A. International (Boxes 47-52); B. National Academy of Sciences (Boxes 53-57); C. National Research Council (Boxes 58-63); D. General (Boxes 64-79); III. Family letters (Boxes 80-83); IV. Scientific work (Boxes 84-90); V. Biographical and personal material (Boxes 91-112); VI. Drafts of articles (Boxes 113-127); VII. National Research Council documents (Boxes 128-137); VIII. California Institute of Technology documents (Boxes 138-142); IX. League of Nations Committee on Intellectual Cooperation documents (Boxes 143-147); X. Director's Files of the Mount Wilson Observatory (Boxes 148-173, Huntington Library).

Alternate Formats of this Collection

This collection is also available in microfilm.

All of sections I to III have been filmed, as well as almost all of Section IV. Most of Section IV consists of Hale's scientific notebooks. Notebooks containing unidentifiable data tables, computations, and the like have been omitted from filming; in any case, the majority of these unfiled notebooks contain mostly blank pages. The pagination in the filmed notebooks is discontinuous, since blank pages were of course not photographed. In Section V two boxes of correspondence concerning Hale's business affairs and eight boxes of bills and receipts have not been filmed; the editor judged almost all of this material to be inconsequential.

None of the material in Sections VI to IX has been filmed. The articles in Section VI are available in published form without significant change from the drafts. Both Sections VII and VIII were not free for filming. (Section VII contains copies of the minutes of the meetings of the Executive Board and various Divisions of the National Research Council; Section VIII, the minutes of the meetings of the Board of Trustees of the California Institute of Technology.) Section IX contains mimeographed copies of some of the proceedings of the League of Nations Committee on Intellectual Cooperation, which are available elsewhere.

Section X has been filmed almost in its entirety. The Director of the Mount Wilson Observatory removed a small percentage of the documents considered to be of a confidential nature. These documents principally concern the budgetary history of the Carnegie Institution of Washington and the Observatory.

Most of the documents not filmed are open to the inspection of qualified scholars.

For a detailed biography of Hale as well as a bibliography of his writings, one may consult Helen Wright, *Explorer of the Universe: A Biography of George Ellery Hale* (New York: E. P. Dutton, 1966), which is based on a study of the Hale papers.

The microfilm edition and its original guide are still available for purchase. Please contact the Archives at Caltech: Mail Code 015A-74, Pasadena, CA 91125; tel. (626)395-2704; email archives@caltech.edu.

Addendum

Since the original work of organizing and describing the George Ellery Hale Papers was done in the late 1960s, certain organizational changes have affected both the proprietary and depository conditions surrounding the collection. As noted in Daniel Kevles's original introduction, a new administrative building for the Mount Wilson Observatory was planned, and the Hale papers were to be brought together into one unified collection and housed within that structure. This building was never built. Further, the agreement between the California Institute of Technology (Caltech) and the Carnegie Institution of Washington for the joint operation of the Mount Wilson and Palomar Observatories, established in 1948, was dissolved in 1980. A few years later, the Carnegie Institution turned over its Hale manuscripts, the so-called Director's Files, to the Huntington Library, along with other materials relating to the Mount Wilson Observatory, including a rare book collection. The remainder of the Hale papers—by far the bulk of the manuscript material—remained in the custody of Caltech. According to Mrs. Hale's original stipulation, they were to do so until the completion of the new building which would house the collection—a project which was ultimately never completed.

Thus the Hale papers are divided between two neighboring institutions, and each administers its portion according to its understanding of Mrs. Hale's original gift.

Researchers should be aware that a small amount of correspondence has been added to the Hale papers at Caltech since the original microfilming was done. The material is contained in one additional box. Also, the Hale heirs gifted George Ellery Hale's medals to Caltech, where they are now housed in the Archives. Further, numerous photos of Hale, the Mount Wilson Observatory and the Palomar Observatory are available in the Caltech Photo Archives, most of which have been digitized and are viewable at the Archives' web site: <http://archives.caltech.edu>.

Indexing Terms

The following terms have been used to index the description of this collection.

People

Abbot, Charles Greeley, 1872-1973

Hale, George Ellery, 1868-1938--Awards

Hale, George Ellery, 1868-1938--Family

Abetti, Giorgio, 1882-1982

Brashear, John Alfred, 1840-1920

Carnegie, Andrew, 1835-1919

Dunn, Gano, 1870-1953

Einstein, Albert, 1879-1955

Frost, Edwin Brant, 1866-1935

Hoover, Herbert, 1874-1964

Jeans, James H., Sir, 1877-1946

Larmour, Joseph, Sir, 1857-1942

Millikan, Robert Andrews, 1868-1953

Noyes, Arthur A. (Arthur Amos), 1866-1936

Rutherford, Ernest, 1871-1937

Wilson, Woodrow, 1856-1924

Woodward, Robert Simpson, 1849-1924

Corporations

California Institute of Technology

Carnegie Institution of Washington

Mount Wilson and Palomar Observatories

Mount Wilson Observatory

National Research Council (U.S.)

Yerkes Observatory
Huntington Library
Kenwood Observatory
Palomar Observatory

Subjects

Astronomical observatories--Planning--United States
Fund raising
Scientists--International cooperation
Spectroheliograph--Research

Related Collections

Other manuscript collections which contain material relevant to Hale's life are: the records of the National Academy of Sciences National Research Council at the Academy's headquarters in Washington, DC; the John C. Merriam papers at the Library of Congress; the Harry M. Goodwin papers at the Huntington Library; and the Robert A. Millikan papers at the California Institute of Technology.

I. Correspondence with individuals

- Box 1
- Cleveland Abbe 1903**
Charles G. Abbot 1902 - 1937
- Physical Description: 1½"**
- John J. Abel 1915 - 1936**
- Physical Description: ½"**
- Giorgio Abetti 1909 - 1935**
- Physical Description: 2½"**
- J. H. Abraham 1902 - 1904**
Comfort A. Adams 1919 - 1920
Edward Dean Adams 1920 - 1928
Edward F. Adams 1938
- Box 2
- Walter S. Adams 1904 - 1937**
- Physical Description: 3"**
- Alexander Agassiz 1904 - 1910**
- Physical Description: ¼"**
- Agriculture, Secretary of 1916 - 1928**
R. G. Aitken 1905 - 1935
- Physical Description: 1"**
- Lawrence Aller 1931**
J. S. Ames 1900 - 1917
- Physical Description: ¼"**
- Box 3
- Loring B. Andrews 1936**
J. A. Anderson 1928 - 1935
- Physical Description: 1"**
- James R. Angell 1901 - 1924**
- Physical Description: 1½"**
- E. M. Antoniadi 1924 - 1930**
Henry E. Armstrong no date
Trevor Arnett 1904 - 1936
Svante Arrhenius 1904 - 1926
Attwill no date
A. Auwers 1912 - 1915
Edward Ayer 1899
Allan H. Babcock 1910
Harold D. Babcock 1925 - 1933
O. Backlund 1904
Francis H. Bacon Co. 1918
L. H. Baekelund 1916 - 1936
I. W. Bailey 1917
M. B. Baillaud 1908 - 1920

Box 4

C. H. Collins Baker 1932 - 1933
William C. Baker 1915 - 1916
H. G. Van de Sande Bakhuyzen 1915 - 1916
George J. Baldwin 1907 - 1908
Sir Robert Ball 1901 - 1914
W. P. Bancroft 1919 - 1920
L. Lewellys F. Barker 1902 - 1924
E. E. Barnard 1898 - 1924
E. C. Barrett 1911 - 1936

Physical Description: 2"

S. B. Barrett 1899 - 1935

Physical Description: ½"

Albert L. Barrows 1919 - 1934

Physical Description: ¼"

H. Bateman 1916 - 1920

L. A. Bauer 1898 - 1926

Physical Description: ½"

F. E. Baxandall 1904 - 1924
Belgian League of Honor 1937
Alexander Graham Bell 1906
Sir Hugh Bell 1916
Louis Bell 1911
Bell Telephone Laboratories 1930
A. Belopolsky 1904 - 1933
H. Y. Benedict 1932
Bickers and Co. 1911
Albert S. Bickmore 1903
M. B. Bielski 1937
Frank H. Bigelow 1902 - 1911
M. G. Bigourdan 1908 - 1927
J. S. Billings 1902 - 1909
E. W. Birge 1902 - 1919
V. Bjerknes 1924 - 1926
Pietro Blaserna 1909 - 1914
E. W. Blatchford 1899 - 1913
Mildred Bliss 1937
Franz Boas 1916
Vicomte Roger du Boberil 1912 - 1921
Marston T. Bogert 1916 - 1917

Physical Description: ¼"

Hamilton B. Bogue 1885

Physical Description: ¼"

B. B. Boltwood 1915
Lewis Boss 1902
Boston University no date
William Bowie 1917 - 1931

Isaiah Bowman 1932 - 1935
Physical Description: ¼"

Box 5 **Dr. Th. Boveri 1912 - 1913**
F. P. Brackett 1924 - 1931
W. H. Bragg 1929 - 1935
F. E. Brasch 1927
J. A. Brashear 1897 - 1932
Physical Description: 2"

Charles Breasted 1924 - 1942
Physical Description: ¼"

James H. Breasted 1897 - 1935
Physical Description: 4"

Box 6 **Norman Bridge 1907 - 1931**
Physical Description: ½"

P. W. Bridgman 1918
Robert Bridges 1929
W. W. Brierly 1928 - 1935
Physical Description: ¼"

Paul Brockett 1913 - 1935)
Physical Description: 2¾"

E. W. Brown 1914 - 1932
Physical Description: ½"

G. G. Brown 1865
Physical Description: ¼"

Ada M. Browne 1896 - 1916
Catherine and M. W. Bruce 1899
Bumpus Family 1899 - 1902
H. A. Bumstead 1918 - 1921
Physical Description: 1"

George K. Burgess 1925 - 1929
Physical Description: ½"

S. W. Burnham 1898 - 1921
Ernest D. Burton 1913 - 1915
Albert Alfred Buss 1926 - 1927
Physical Description: ¼"

C. P. Butler 1910
Howard Russell Butler 1925 - 1926
W. G. Cady 1905 - 1923

- California Institute of Technology 1919 - 1925**
Physical Description: 1½"
- Box 7 **California Institute of Associates 1926 - 1936**
Physical Description: 1"
- California Institute Budgets, Costs and Estimates 1928 - 1937**
Physical Description: 2"
- Caltech Construction 1928 - 1936**
Physical Description: 1½"
- Box 8 **Caltech 200" Tools and Equipment 1928 - 1936**
Physical Description: 2¾"
- Caltech Correspondence on 200" (Miscellaneous) - Z**
Physical Description: 3"
- Box 9 **Correspondence with press and publishers re 200" 1928 - 36**
Physical Description: 1"
- Correspondence re 200" with railroads 1934 - 1936**
Physical Description: ¼"
- Miscellaneous articles re 200" for publication 1928**
Physical Description: 1¼"
- Correspondence with San Diego re 200" 1930 - 1936**
Physical Description: ¼"
- California Jewish Voice 1914**
W. W. Campbell 1900 - 1935
Physical Description: 1½"
- Box 10 **Walter B. Cannon 1916 - 1917**
William Carty 1905
Prof. Edward Capps 1905 - 1907
G. W. Carman 1903
Andrew Carnegie 1903 - 1932
Physical Description: ¾"
- Carnegie Institution of Washington 1904 - 1936**
Physical Description: ½"
- Ford A. Carpenter 1914 - 1927**
Physical Description: ¼"
- F. I. Carpenter 1903 - 1923**
J. A. Carroll 1924 - 1933
-

Prof. Edna Carter 1932
John J. Carty 1916 - 1933

Physical Description: 1½"

Leona Carver 1905
Alex Caskey 1906
J. McKeen Cattell 1900 - 1927

Physical Description: 1"

Box 11 T. C. Chamberlain 1898 - 1928

Physical Description: ¼"

Harry Chandler "Times" 1927 - 1934
W. E. Chandler 1901
C. A. Chant 1909
Professor S. Chapman 1935 - 1936
Charles M. Childs 1905
Prof. Russell Chittenden 1910 - 1917

Physical Description: ¼"

W. H. Christie 1903 - 1904
Professor Chrystal 1903 - 1904
City Planning Committee 1921 - 1928
F. M. Clapp 1920 - 1933
J. M. Clarke 1916 - 1922
Dugald Clerk 1918 - 1929
Agnes M. Clerke 1903 - 1906
Professor H. E. Clifford 1902 - 1926
W. E. Clough 1899
Samuel T. Clover 1924 - 1926
Henry Ives Cobb 1897 -
Howard E. Coffin 1916 - 1917

Physical Description: ½"

W. A. Cogshall 1904 - 1905
Frank W. Collins 1905 - 1906
Karl T. Compton 1930 - 1933
George C. Comstock 1899 - 1915

Physical Description: ½"

Edwin G. Conklin 1910 - 1926

Physical Description: 1"

Mary and Leander Conklin 1899 - 1930
William Conklin 1905 - 1907
W. M. Cook 1899
Dr. Donald Cooksey 1931 - 1933
D. W. Coolidge 1906
Box 12 Corning Glassworks 1931 - 1936

Physical Description: 1"

A. L. Cortie, S. J. 1902 - 1926
F. O. Cottrell 1919

J. M. Coulter 1900 - 1917

Physical Description: ¼"

W. T. Councilman 1913
Courier-Post Newspapers 1931
John Cox 1903
R. T. Crawford 1907 - 1909
Henry Crew 1900 - 1934

Physical Description: 1"

Charles R. Cross 1900 - 1920

Physical Description: ¼"

Whitman Cross 1913 - 1916

Physical Description: ¼"

C. E. Crowley 1906
William Crozier 1916 - 1917
H. D. Curtis 1902 - 1931

Physical Description: ¼"

Samuel I. Curtis 1903
Charles W. Dabney 1932
C. D. Daggett 1907 - 1920
Henry D. Dakin 1918
M. Gaston Darboux 1912 - 1916
H. Z. Darrah 1902 - 1907
E. H. Darville 1926
George Darwin 1908 - 1912
Horace Darwin 1917
Charles B. Davenport 1903 - 1919
Herman S. Davis 1899 - 1900
W. M. Davis 1907 - 1934

Box 13

Physical Description: 1"

Arthur L. Day 1906 - 1935

Physical Description: 2"

A. de la Baume-Pluvinel 1917 - 1928
Darragh de Lancey 1918 - 1920
Alfred P. Dennis 1916
W. de Sitter 1921 - 1932
M. Henri Deslandres 1904
Sir James Dewar 1909 - 1927
Donald R. Dickey 1918 - 1934
H. Diels 1913 - 1915

Physical Description: ¼"

David Dietz 1932
Cleveland H. Dodge 1908 - 1919
H. H. Donaldson 1898 - 1933

Physical Description: 1"

Box 14
M. R. Dongier 1908 - 1909
A. E. Douglass 1899 - 1923
Gayton A. Douglass 1897 - 1909
Mrs. Henry Draper 1904 - 1914
N. C. Duner no date
Theodore Dunham, Jr. 1931 - 1933

Physical Description: ¼"

Gano Dunn 1916 - 1946

Physical Description: ¾"

Box 15
P. L. du Nouy 1917 - 1927
A. St. C. Dunstan no date
Pierre DuPont 1916
W. F. Durand 1917 - 1919

Physical Description: ¼"

M. E. Durkheim 1916 - 1917
Sir F. W. Dyson 1901 - 1935

Physical Description: ¼"

E. M. East 1917
George Eastman 1927 - 1933
Edward E. Eaton 1898 - 1904

Physical Description: ¼"

H. T. Eddy 1901 - 1912
Graham Edgar 1918
Eglise de la Sorbonne 1912
A. Einstein 1926 - 1933
Sir John Eliot 1905
Ferdinand Ellerman 1898 - 1927
Al Ellis 1928 - 1933

Physical Description: 1¼"

J. W. Ellsworth 1922 - 1925
Pio Emmanuelli 1931
Paul Epstein 1913 - 1934
Herbert M Evans 1919 - 1931
J. Evershed 1904 - 1937

Physical Description: ¾"

Box 16
Charles Fabry 1904 - 1935
Faraday Celebrations 1831
S. W. Farnsworth 1918 - 1919
Beatrix Farrand 1928 - 1934

Physical Description: ¼"

Max Farrand 1926 - 1936

Physical Description: ¼"

Arthur Farwell 1928 - 1932
M. Faye 1893
Rev. Julius Fenyi 1904
J. C. Fields 1919 - 1929

Physical Description: ¼"

Finances 1921 - 1923
H. A. Fischer 1902 - 1903
Irving Fisher 1916
J. O. Fisher 1922
Dr. Martin H. Fischer 1906 - 1915
Arthur H. Fleming 1908 - 1935

Physical Description: ¾"

John A. Fleming 1918 - 1931
Abraham Flexner 1917 - 1935
Simon Flexner 1915 - 1936

Physical Description: 1¼"

Alfred D. Flinn 1918 - 1932
Tod Ford 1917 - 1920
A. Fowler 1907 - 1934
Philip Fox 1905 - 1935

Box 17

Physical Description: ½"

Otto Frank 1916
F. H. Frankland 1919
Maurice Frechet 1935
E. E. Free 1924 - 1933

Physical Description: ¼"

John R. Freeman 1900 - 1922
Robert Freeman 1912 - 1927
Anna Friedrich no date
E. B. Frost 1898 - 1919

Physical Description: 1"

E. B. Frost 1921 - 1937

Physical Description: 1"

G. S. Fulcher 1919 - 1926
Henry Gale 1907 - 1932
J. R. Garfield 1918 -
Jack Garrison 1919 - 1931
F. T. Gates 1901 - 1902
R. Gautier 1923
Dr. J. Gehring 1911 - 1913
Sir Archibald Geikie 1912 - 1915
L. Gianetti 1916 - 1938

Box 18

Physical Description: 1¼"

W. S. Gifford 1917 - 1929

Walter M. Gilbert 1917 - 1929

Physical Description: ¾"

D. C. Gilman 1897 - 1902

G. L. Gilmore 1915 - 1930

Sir David Gill 1909 - 1930

Physical Description: ½"

Dr. T. H. Gill 1914

Walter J. Gill, Jr. 1903 - 1904

Col. Glassford 1916 - 1917

Richard Glazebrook 1932

R. H. Goddard 1918 - 1919

Joel Goldthwait 1917

Mr. and Mrs. B. O. Goodhue 1919 - 1928

Physical Description: 1"

T. H. Goodspeed 1935

Physical Description: ½"

H. M. Goodwin 1907 - 1936

Physical Description: 1½"

Samuel Gompers 1918

Dr. I. Gottfried 1919

Charles W. Gould 1929

Box 19

R. A. Gray 1932 - 1933

R. A. Gregory 1917 - 1936

Adm. Robert S. Griffin 1916 - 1917

C. Guillaume 1905

Marie T. Guizonnier 1933

Sir Robert Hadfield 1916 - 1936

Arthur T. Hadley 1919

Dr. Arnold Hague 1902 - 1914

R. Haines 1915 - 1916

Hale - Genealogy 1934

George E. Hale II 1924 - 1936

George W. Hale 1897 - 1919

Physical Description: 1"

Robert J. Hale 1916 - 1920

William BI Hale 1901 - 1909

Physical Description: 1½"

Box 20

William B. Hale 1910 - 1933

Physical Description: 5"

Box 21

William B. Hale 1934 - 1938

Physical Description: ¾"

Letters to Wm. E. Hale 1890 - 1891

William E. Hale Fund ½" 1913 - 1934

William Ellery Hale 1915 - 1921

Physical Description: ½"

Wilfred Hall 1919

J. Halm 1905

William R. Harper 1897 - 1905

Physical Description: ½"

H. W. Harris 1900 - 1923

Charles C. Harrison 1916

Prof. J. Hartmann 1904

Martha and William W. Harts 1915 - 1929

B. Hasselberg 1904

Charles H. Hawley 1903 - 1906

St. John Heiliger 1925 - 1927

L. J. Henderson 1918 - 1937

Burton J. Hendrick 1927 - 1932

Charles H. Herty 1916

Ejnar Hertzprung 1912 - 1914

George Higgs - Robert Killip 1902 - 1903

Major E. H. Hills 1913 - 1917

Arthur R. Hinks 1902 - 1928

Charles F. Holder 1906 - 1925

Physical Description: ½"

Myra C. Hole 1904 - 1919

W. H. Holmes 1913 - 1917

Hamilton Holt 1926 - 1928

John D. Hooker 1905 - 1935

Physical Description: ½"

Katharine Hooker 1933

Franklin W. Hooper 1900 - 1903

Herbert Hoover 1920 - 1933

Horticultural Society of New York 1937

William Hoskins 1903 - 1904

J.C. Hostetter 1933

Col. Edward M. House 1916 - 1919

L. C. Howard 1916

H. M. Howe 1901 - 1920

Physical Description: ¼"

David J. Howell 1904 - 1905

Dr. Ales Hrdlicka 1918

Hon. Charles E. Hughes 1916

Sir William Huggins 1891 - 1913

Physical Description: 1 and ¾"

Lady Huggins 1905 - 1915

G. F. Hull 1908

W. J. Humphreys 1908-1917

Myron Hunt 1912 - 1934

Huntington - Holladay - Flexner - Hale 1927 - 1935

Box 22

- Mr and Mrs Henry E. Huntington 1914 - 1927**
Physical Description: ½"
- Huntington Library and Art Gallery 1925 - 1936**
Physical Description: ¾"
- Box 23 **Cary T. Hutchinson 1916 - 1932**
Physical Description: 1"
- H. H. Hyder 1917**
George S. Isham 1904 - 1926
Frederick Ives Medal 1928 - 1935
Herbert Ives 1926
Prof. Sir Herbert Jackson 1929 - 1933
Physical Description: ½"
- Bernard Jeffe 1933 - 1935**
F. Franklin Jameson 1910 - 1935
Janssen Medal 1907 - 1917
Joseph Jastrow 1914 - 1933
Morris Jastrow 1917 - 1919
J. H. Jeans 1917 - 1932
Physical Description: ¼"
- Isabel Johnson 1926 - 1931**
Frank B. Jewett 1913 - 1936
Physical Description: 1¼"
- Box 24 **Reginald Johnson 1899 - 1928**
Robert U. Johnson 1916 - 1919
John Johnston 1918 - 1936
Physical Description: ½"
- Lauder Jones 1929**
Henry Pratt Judson 1906 - 1918
Physical Description: ¼"
- C. K. Judy 1918 - 1925**
W. H. Julius 1900 - 1950
Physical Description: ½"
- J. L. Kandel 1919 - 1920**
J. C. Kapteyn 1905 - 1932
Physical Description: 2½"
- Box 25 **J. C. Kapteyn - W. S. Adams Correspondence 1909 - 1916**
H. Kayser 1902 - 1924
James B. Keeler 1898 - 1900
W. W. Keen 1912 - 1936
Physical Description: 1½"
-

Martin Kellogg 1897
Vernon Kellogg 1918 - 1932

Physical Description: 2½"

Lord Kelvin 1918 - 1919
P. Kempf 1906 - 1910
A. E. Kennelly 1919 - 1936
N. A. Kent 1905
E. C. Ketiham 1901
Baron K. Kikuchi 1908 - 1909
Arthur S. King 1928 - 1935

Physical Description: ¼"

Box 26

William H. Knight 1904 - 1908
E. B. Knobel 1921 - 1932
H. H. Knox 1935
S. L. G. Knox 1918 - 1932
Dr. M. Knox-Shaw 1930
George F. Kunz 1916 - 1931
Alfred Lacroix 1917 - 1934
P. Guiseppe Lais 1902 - 1903
Franklin K. Lane Report to the President 1920
R. M. Langer 1933
Euphrosyne Langley 1937
S. P. Langley 1900 - 1905
Pierre Simon La Place 1927 - 1928
J. Larmor 1904 - 1936
Michele la Rosa 1914

Physical Description: 1¼"

S. Lauricella 1931 - 1934

Physical Description: ¼"

Lee Lawrie 1925 - 1928
Kurt Laves 1898 - 1901
G. Lecointe 1918 - 1920

Physical Description: ½"

P. Lenard 1909
Armin O. Leuschner 1899 - 1934

Physical Description: ¼"

Frank R. Lillie 1913 - 1937
Mme. Lipinska 1922
I. W. Litchfield 1900 - 1917

Physical Description: ¼"

Sir Norman Lockyer 1904 - 1932

Physical Description: ½"

Norman Lockyer Observatory 1921 - 1923
William J. S. Lockyer 1906
J. Loeb 1902 - 1903

Box 27

H. M. Loewy 1904
H. A. Lorentz 1923 - 1931
Atherton Loring 1899 - 1903
E. O. Lovett 1905 - 1914
R. H. Lovett 1923
A. Lawrence Lowell 1918 - 1928
George P. Luckey 1917 - 1918
Charles F. Lummis 1905 - 1914
Dr. Knut Lundmark 1929 - 1930
A. B. Macallum 1916 - 1917
Richard C. Maclaurin 1908 - 1920

Physical Description: ½"

Salvador de Madariaga 1931
M. Maurice Maeterlinck 1920
C. O. Maillous 1916 - 1920

Physical Description: ¼"

J. P. Mall 1909 - 1914
Van H. Manning 1917 - 1920
Charles Marie 1926 - 1930
Franklin H. Martin 1916
Mrs. Frances B. Mason 1925 - 1932
Max Mason 1925 - 1935

Physical Description: 1½"

Shailer Mathews 1899 - 1930

Physical Description: ¼"

A. Mathison 1932 - 1933
F. Walter Maunder 1904 - 1907
Alfred C. Mayer 1917
Mayers, Murray and Phillip 1929
Alexander McAdie 1908 - 1922
T. H. McBride 1906 - 1924

Physical Description: ¼"

F. K. McClean 1905
William McClellan 1917
Sir William McCormick 1916 - 1917
William F. McKay 1917
Roger B. McMullen 1917 - 1919
Medallist Society 1934
Mrs. W. W. Meek 1926
C. E. K. Mees 1918 - 1933

Box 28

Physical Description: ¼"

Andrew W. Mellon 1925
Charles E. Mendenhall 1901 - 1920

Physical Description: ¼"

John C. Merriam 1916 - 1937

Physical Description: ¾"

Box 29

C. Hart Merriam 1903 - 1920
Eugene A. Merrill 1917 - 1927
George P. Merrill 1918
Ernest Merritt 1904 - 1927
Mabel B. Messer 1910 - 1922
Dayton C. Miller 1922 - 1933
John A. Miller 1930
R. A. Millikan 1915 - 1944

Physical Description: 2¼"

E. A. Milne 1929 - 1934
Charles S. Minot 1901 - 1912
MISCELLANEOUS, 1899 - 1940
S. A. Mitchell 1899 - 1931
Wm. Mitchell 1909
Prince of Monaco 1919 - 1921
Charlotte E. Moore 1931
E. C. Moore 1918 - 1919
E. H. Moore 1897 - 1930

Physical Description: 1"

H. D. Moore 1904 - 1905
Paul Moore 1936
P. H. Morgan no date
T. H. Morgan 1925 - 1928

Physical Description: 1"

Box 30

T. H. Morgan 1928 - 1938

Physical Description: ½"

F. R. Moulton 1903 - 1919
Mt. Wilson Bulletin 1923 - 1924
Mt. Wilson Correspondence 1901 - 1937

Physical Description: ¼"

Mt. Wilson Bills and Insurance Policies 1903 - 1924

Physical Description: ¾"

Mt. Wilson Insurance and Taxes 1904 - 1910

Physical Description: ¼"

Mt. Wilson Instruments, Buildings, Diagrams, etc. 1904

Physical Description: ¾"

Mt. Wilson Material for Annual Report 1926 - 1935

Physical Description: ¼"

On Mt. Wilson site, etc. 1903 - 1904
Seeley W. Mudd 1917

- D. S. Mulvin 1917 - 1927**
Physical Description: ¼"
- J. P. Munroe 1901 - 1907**
W. B. Munro 1928 - 1934
Capt. Lee Murphy 1919
Sir John Murray 1912
H. F. Newall 1901 - 1918
Physical Description: 1¼"
- Box 31 **H. F. Newall 1919 - 1937**
Physical Description: 1"
- Simon Newcomb 1897 - 1935**
Physical Description: ½"
- Ernest F. Nichols 1900 - 1925**
Physical Description: ¼"
- E. L. Nichols 1900 - 1925**
Physical Description: ¼"
- Seth B. Nicholson 1923 - 1931**
Alfred Noyes 1917 - 1941
A. A. Noyes 1901 - 1916
Physical Description: 2½"
- Box 32 **A. A. Noyes 1917 - 1936**
Physical Description: 3"
- W. A. Noyes 1914 - 1919**
Frau O. E. v Obermayer 1920
Donald O'Melveny 1930
H. F. Osborne 1901 - 1935
Physical Description: 1½"
- Box 33 **W. F. Osgood no date**
W. Osler 1911 - 1919
Sir Richard Paget no date
J. A. Parkhurst 1903 - 1925
C. A. Parsons 1914 - 1930
William Barclay Parsons 1911 - 1920
Stewart Paton 1916 - 1927
W. W. Payne 1902 - 1903
Raymond Pearl 1916 - 1928
Physical Description: ¾"
- F. G. Pease ¼" 1918 - 1934**
C. D. Perrine 1904 - 1934
Physical Description: ¼"
-

O. L. Petitdidier 1904 - 1906
W. L. Phelps 1919 - 1920
Emile Picard 1918 - 1919
Miss Picker 1911
Edward C. Pickering 1888 - 1928

Physical Description: ½"

Edward C. Pickering Memorial 1921 - 1926
Roy S. Pike 1928
R. W. Pike 1897 - 1898
Gifford Pinchot 1903 - 1915
E. H. Pitkin 1900 - 1901
J. S. Plaskett 1916 - 1935
H. C. Plummer 1924 - 1931
W. E. Plummer 1903 - 1904
Poggendorff 1902 - 1933
Charles Lane Poor 1903 - 1907
Helen Porter 1900 - 1903
Russell Porter 1928 - 1936

Physical Description: ¼"

E. Potter 1917
Henry N. Potter 1918
Gertrude Pratt 1902
John S. Prince 1919
H. S. Pritchett 1900 - 1926
H. S. Pritchett 1927 - 1946
Mary Proctor 1913 - 1926
C. Pulfinch 1903 - 1904
P. Puiseux 1911
M. I. Pupin 1914 - 1916
Osgood Putnam 1915 - 1917
K. B. Quinan 1920 - 1923
C. H. Randall 1916
Miss Ransom and Miss Bridges School 1912 - 1915
K. Vaikunta Rao 1925 - 1926
Lord Rayleigh 1907 - 1932
W. B. Rayton 1930 - 1936
Eugenio Regnano 1909
J. K. Rees 1898 - 1901
Ira Remsen 1903 - 1914

Physical Description: ¼"

Stanley Reynolds 1928 - 1929
A. Ricco 1904 - 1917

Physical Description: 1"

Calvin W. Rice 1915 - 1933

Physical Description: ¼"

T. W. Richards 1916 - 1932
F. K. Richtmyer 1921
A. F. Riggs 1927 - 1929

Box 34

Box 35

G. W. Ritchey 1898 - 1930

Physical Description: ¼"

Henry M. Robinson 1915 - 1937

Physical Description: 1½"

J. D. Rockefeller, Jr. 1932

Austin F. Rogers 1918

C. E. Rood 1901

Elihu Root 1912 - 1935

Physical Description: ¾"

E. B. Rosa 1914 - 1916

Wickliffe Rose 1924 - 1932

Julius Rosenwald 1917 - 1926

F. E. Ross 1928 - 1934

S. L. Rotch 1899 - 1904

H. Rubens no date

Kate Ruel 1914 - 1915

Karl Runge 1926

E. Rutherford 1907 - 1924

Henry Norris Russell 1917 - 1930

H. A. Rust 1900 - 1902

Harris J. Ryan 1919

M. A. Sacksteder 1904

Prof. R. D. Salisbury 1903 - 1904

R. A. Sampson 1912

Box 36

San Pedro 1917 - 1918

George Sarton ISIS 1916 - 1935

Physical Description: ½"

W. L. Saunders 1916

Albert Sauveur 1917

Walter B. Scaife 1919 - 1920

James A. B. Scherer 1907 - 1919

Physical Description: 1¼"

James A. B. Scherer 1922 - 1935

Physical Description: 1¼"

Mr and Mrs Paul Scherer 1917 - 1934

Physical Description: ¼"

F. Schiaparelli 1909 - 1910

Dr. Frank Schlesinger 1903 - 1935

Box 37

Charles Schuchert 1914 - 1915

Arthur Schuster 1902 - 1935

Physical Description: 2"

Paul Schutzenberger 1928 - 1929

Karl Schwarzschild 1916

Vittorio Scialoja 1930

S. A. Scranton 1870 - 1917

Charles Scribners' Sons 1917 - 1936

Physical Description: 3"

Box 38 **J. G. Scrugham 1916**
F. H. Seares 1904 - 1936

Physical Description: ¾"

K. Sekiguti 1925 - 1927
Frank H. Sellers 1921 - 1925
Wm. Shackleton 1910
Harlow Shapley 1925 - 1935

Physical Description: ¼"

W. N. Shaw 1904 - 1908
George F. Shears 1905
General P. Sheridan 1920

Physical Description: 1"

Rev. Walter Sidgreaves 1903 - 1904
Seward A. Simons (1904 - 1925)
Admiral William S. Sims 1918
C. E. Skinner 1916
Frederick Slocum 1916 - 1927
Alexander Smith 1903 - 1915
Benjamin S. Smith 1904 - 1905
C. Michie Smith 1903 - 1910
F. E. Smith 1931
Harrison W. Smith 1901 - 1902
Arthur Smithells 1930 - 1933
Helen E. Snow 1903 - 1904
Benjamin W. Snow 1901 - 1903
Lorenzo L. Snow 1916 - 1917
Societe Francaise de Physique 1928
R. W. Sorenson 1933 - 1935
S. California Academy of Sciences 1908

Box 39 **General George O. Squier 1915 - 1919**
Charles E. St. John 1901 - 1931
William R. Staats 1903 - 1906
Joel Stebbins 1914 - 1936

Physical Description: ½"

Harlan T. Stetson 1932 - 1933
G. W. Stewart no date
Julius Stieglitz 1917 - 1920

Physical Description: ¼"

C. A. Stone 1906 - 1916
C. Johnstone Stoney 1907
Carl Stormer (1912 - 1932)

Physical Description: ¼"

F. J. M. Stratton 1925 - 1935

S. W. Stratton 1900 - 1931

Physical Description: ½"

Otto Struve 1932 - 1935

Physical Description: ¼"

Prof. Sulzbache no date

W. P. G. Swann 1935

Ambrose Swasey 1913 - 1935

Physical Description: ¼"

Ernest S. Swift 1909

Lewis Swift 1930 - 1905

Gerard Swope 1925 - 1933

Physical Description: ¼"

Box 40

P. Tacchini 1901 - 1906

T. Takamine 1925 - 1931

A. E. Taylor 1916 - 1922

Charles L. Taylor 1920 - 1921

Admiral David W. Taylor 1916

Nikola Tesla 1908

Sherman Day Thacher 1906 - 1927

Physical Description: 1"

William S. Thayer 1920

Frank Thilly 1911 - 1917

Maude Thomas 1922 - 1925

S. Seymour Thomas 1921 - 1928

Elihu Thomson 1902 - 1935

Physical Description: 1¼"

Sir Joseph J. Thomson 1912 - 1921

Elizabeth Thompson Science Fund 1897

David Todd 1903 - 1904

H. J. Thorkelson 1927 - 1935

Physical Description: ¼"

L. H. Tolhurst 1917

C. P. Townsley 1917 - 1920

Richard C. Tolman 1915 - 1921

John Trowbridge 1919

O. H. Truman 1919

R. h. Tucker 1905

H. H. Turner (1903 - 1907)

Physical Description: 1"

Box 41

H. H. Turner 1908 - 1931

Physical Description: 1¼"

N. C. Twining 1918

H. W. Tyler 1900 - 1918

Physical Description: ¼"

Theodore N. Vail 1919

Winslow Upton 1904 - 1905

Carr C. Van Anda 1929

R. H. Van Dieman 1918

A. C. G. Van Hecke 1919

Charles R. Van Hise 1902 - 1916

Physical Description: ¼"

Adrian Van Maanen 1927 - 1932

P. J. Van Rhijn 1928

Nico Van Suchtelen 1915

Victor C. Vaughan 1916 - 1917

Physical Description: ¼"

J. Violle 1908 - 1909

H. C. Vogel 1904 - 1905

W. Voigt 1908

Vito Volterra 1909 - 1934

J. A. L. Waddell 1910 - 1916

F. L. O. Wadsworth 1898 - 1904

Physical Description: ¼"

Charles D. Walcott 1901 - 1929

Physical Description: 2"

Gilbert T. Walker 1903 - 1930

Physical Description: ½"

R. W. Wallace 1904 - 1932

Physical Description: ¼"

W. R. Warner 1905 - 1908

Warner and Swasey Co. 1928 - 1936

Physical Description: 1¼"

Henry S. Washington 1918 - 1919

A. G. Webster 1904 - 1919

George Lay Weed 1932

W. H. Welch 1¼" 1911 - 1934

Roger Welles 1918

George V. Wendell 1900 - 1908

Physical Description: ¼"

W. Wever 1903

Davis Weyerhauser 1927 - 1930

Wheldon and Wesley, Ltd. 1923

G. H. Whipple 1916 - 1917

David White 1925 - 1930

Henry S. White 1902

Box 42

Box 43

W. R. Whitney 1915 - 1929

Physical Description: ½"

Mt. Whitney 1903

Physical Description: ½"

Horace White 1898 - 1915

John H. Wigmore 1904 - 1917

Rutting Wigton 1917

Evelyn Wilheit 1900 - 1911

C. D. Willard 1912

C. J. Willett 1910 - 1917

W. Ewart Williams 1928 - 1933

E. F. Williams 1899 - 1918

Physical Description: 1"

E. F. Williams - Reports on Academies no date

Physical Description: ½"

Albert P. Wills 1912

J. Wilsing 1902 - 1903

Edmund Beecher Wilson 1909 - 1926

Edwin Bidwell Wilson 1913 - 1920

Physical Description: ¾"

Box 44

E. Bidwell Wilson 1921 - 1934

Physical Description: ¾"

W. E. Wilson 1904 - 1906

Robert Woellner 1933

Max Wolf 1932

Dr. A. Wolfer 1904

Harry O. Wood 1919 - 1920

R. W. Wood 1903 - 1935

Casey O. Wood 1931 - 1934

R. S. Woodward 1897 - 1909

Physical Description: 3"

Box 45

R. S. Woodward 1910 - 1918

Physical Description: 4½"

Box 46

R. S. Woodward 1919 - 1925

Physical Description: 1 ¾"

S. M. Woodward 1916

A. W. Wright 1910 - 1915

Sir Almroth Wright 1931 - 1932

Fred E. Wright 1927 - 1934

Physical Description: ½"

W. H. Wright 1905 - 1935

Physical Description: ½"

Robert M. Yerkes 1916 - 1922

Physical Description: 1"

Yerkes Observatory 1897 - 1905

Physical Description: 1"

Anne S. Young 1903 - 1905

C. A. Young 1897 - 1907

P. Zeeman 1910 - 1935

II. Correspondence and Documents relating to organizations

A. International

- Box 47 **International Research Council 1917 - 1934**
Physical Description: 4"
- Box 48 **IRC Reports, Statutes, Misc. documents 1916 - 1931 and undated**
Physical Description: 2"
- Box 49 **International Council of Scientific Unions 1931 - 1937**
Physical Description: 3"

International Association of Academies 1904 - 1917
Physical Description: ¼"

Lists of Members of Scientific Institutions 1863 - 1927
Physical Description: ½"

National Research Council of Belgium 1921
National Research Council of Canada 1921
National Research Council of China 1922
National Research Council of Italy 1929
National Research Council of Japan 1921
International Research Council of Japan undated
International Astronomical Union 1921 - 1937
- Box 50 **Physical Description: 1"**

International Astronomical Union Organization Meeting 1919
Physical Description: 1"

International Astronomical Union American Section 1919 - 1930)
Physical Description: 1½"

International Astronomical Union on Calendar Reform 1921 - 1922
I. A. U. Committee on Nebulae 1922
I. A. U. Committee on Stellar Classification no date
Physical Description: ¼"

I. A. U. Committee on Stellar Phonometry no date
I. A. U. Committee of Solar Atmosphere 1919 - 1925
Physical Description: ½"

I. A. U. Committee on Telegrams 1922
I. A. U. Committee on Time 1922
International Union of Scientific Radio Telegraph 1922

II. Correspondence and Documents relating to organizations

A. International

IRC - IAU 1918

Physical Description: 1"

Box 51

An Analytic Index of Scientific Literature no date
Committee on International Auxiliary Language 1921 - 23
Committee on Standard Wave-lengths and Solar Spectrum Tables 1920
Institute of Pacific Relations 1928 - 1936

Physical Description: 1"

International Associations 1920 - 1933
International Association of Seismology 1920
International Biological Union no date
International Critical Tables 1923 - 1932
International Catalogue of Scientific Literature 1920 - 1922

Physical Description: 1"

International Electrotechnical Commission 1913
International Geodetic Association 1918 - 1920
International Mathematical Union 1920 - 1924

Physical Description: 1"

Box 52

Institute of International Education 1919 - 1928
International Astronomical Research 1905 - 1908

Physical Description: ½"

International Astronomical Research undated

Physical Description: 2"

International Inst. of Agriculture 1921 - 1934

Physical Description: 1"

Intern. Union of Academies- American Council of Learned Societies 1920
International Union Geodesy and Geophysics 1919 - 29

Physical Description: 1½"

I. U. P. A. C. 1919 - 1926

Physical Description: 1"

Industrial Research 1919
Inventions 1917 - 1918

B. National Academy of Sciences

Box 53

Correspondence re "Future of the N. A. S." 1913 - 1915

Physical Description: 1"

Council of the N. A. S. 1909 - 1930

Physical Description: 2½"

II. Correspondence and Documents relating to organizations

B. National Academy of Sciences

- Box 54 **National Academy of Sciences 1902 - 1934**
- Physical Description: 1"**
- Future Plans of the NRC - NAS 1924 - 1932**
- Physical Description: ¼"**
- N. A. S. Site Fund 1919 - 1920**
- Physical Description: 1"**
- N. A. S. Building 1920 - 1922**
- Physical Description: ¾"**
- Box 55 **N. A. S. Building 1923 - 1926**
- Physical Description: 2"**
- N. A. S. Building Dedication 1924**
- Exhibits Committee 1921 - 1926**
- Physical Description: 2"**
- Box 56 **N. A. S. Correspondence - F. E. Wright and W. W. Campbell 1923 - 1937**
- Physical Description: ¼"**
- National Acad. Mailing List 1914 - 1933**
- Physical Description: 1"**
- N. A. S. - Expansion of yearly elections to 15 1914**
- Physical Description: ¼"**
- N. A. S. Mailing List Miscellaneous lists 1914 - 1933**
- Physical Description: 1½"**
- N. A. S. Foreign Associates 1920 - 1921**
- N. A. S. Medal Awards 1924 - 1925**
- Section on Astronomy 1916 - 1937**
- Physical Description: ¼"**
- Box 57 **Henry Draper Fund 1909 - 1927**
- Physical Description: 1"**
- N. A. S. Nominations 1914 - 1935**
- Physical Description: ¼"**
- Proceedings of the N. A. S. 1906 - 1934**
- Physical Description: 1 ¾"**
-

C. National Research Council

II. Correspondence and Documents relating to organizations

C. National Research Council

Box 58 **General correspondence re N. R. C. 1916 - 1937**
Physical Description: ½"

N. R. C. Miscellaneous documents 1916 - 1919
Physical Description: 1½"

Reports of Committees 1917 - 1918
Physical Description: 1½"

Publications of the NRC 1916 - 1923
Research Council Bulletin 1919

Box 59 **Army - Ordnance 1918**
Carnegie Corporation 1918
Physical Description: ¼"

Council of National Defense Circular 1916
Committee of Supersound 1919
Executive Board 1916 - 1920
Physical Description: ¼"

Engineering Foundation Board 1916 - 1933
Physical Description: ½"

General Munitions Board 1917
Government Division 1919 - 1920
Highways Research Project 1921 - 1928
Invitations 1917 - 1919
Physical Description: ½"

N. A. C. A. 1921
National Research Fellowship Board 1919
Physical Description: ¾"

N. R. F. B. 1920 - 1937
Physical Description: 1¼"

Naval Consulting Board 1917 - 1918
Secretary of the Navy (Navy Dept) 1916 - 1918
Navy League of the U. S. 1913 - 1919 --
Navy League of Pasadena
Newlands Bill 1916
Physical Description: ¾"

Patent Committee 1919 - 1921
Physical Description: 1"

Promotion of Research in the U. S. 1918 - 1920
Research Assoc. and Council 1903 - 1916
Physical Description: ¼"

II. Correspondence and Documents relating to organizations

C. National Research Council

- Box 60
- Research in the War Department 1918**
Research Information Service 1918 - 1924

Physical Description: 3"
 - Research Institute of Physics and Chemistry (1918 - 1920)**
Research Surveys 1919

Physical Description: ½"
 - Rockefeller Foundation 1919**
Rockefeller Plan 1918
Secretary of War 1916 - 1918

Physical Description: ¼"
 - Smith-Howard Bill 1918**
Woodrow Wilson 1916 - 1930

Physical Description: ½"
 - World Cotton Conference 1918 - 1919**

Physical Description: ¼"
- Box 61
- Division of Anthropology and Psychology 1917 - 1921**

Physical Description: ¼"
 - Division of Biology and Agriculture 1919 - 1923**
Division of Chemistry and Chemical Technology 1921 1922
Division of Educational Relations 1917 - 1925

Physical Description: 1¼"
 - Division of Engineering 1918 - 1924**

Physical Description: ½"
 - Division of Foreign Relations Intl. Res. Council (1919 - 1936)**

Physical Description: 3"
- Box 62
- Division of General Relations no date**
Division of Geology and Geography 1919 - 1925
Div. of Industrial Relations 1919
Div. of Medical Sciences 1920 - 1921
Div. of Medicine 1918
Div. of Physical Sciences 1918 - 1922
Div. of Sciences and Technology no date
Div. of Research Extension 1919 - 1921

Physical Description: ¼"
 - Div. of States Relations 1919 - 1927**

Physical Description: ½"
 - Executive Board (Interim Committee) 1921 - 1937**

Physical Description: 1½"
-

II. Correspondence and Documents relating to organizations

C. National Research Council

Lists 1916 - 1917
N. R. C. Committee on Policies 1930 - 1934
Physical Description: 2"

Box 63 National Research Fund 1925 - 1928
Physical Description: 1"

National Research Fund undated
Physical Description: 1"

Organization of the N. R. C. 1" 1918 - 1933
Reports 1908 - 1918
Physical Description: ¼"

Rules and Constitution of the NRC 1918
Science Advisory Board 1935
Science and Research Department-Bureau of Aircraft Production no date

D. General

Box 64 A - Industrial Firms
Physical Description: ¼"

Abstracts 1" 1919 - 1920
Academy for Humanities 1919 - 1920
Adler Planetarium and Astronomical Museum 1928 - 193[?]
Amateur Telescope Makers Society 1928
American Academy of Arts and Letters 1901 - 1922
American Academy of Engineers 1915 - 1920
Comm. of Order of Leopold II --
Academic Royale de Belgique 1920 - 1922
Amer. Assn. for the Advancement of Science 1902 - 1903
Physical Description: 4"

Box 65 Amer. Ass'n. of Variable Star Observers 1922
American Astronomical Society 1902 - 1933
Physical Description: 1"

American Institute of Consulting Engineers 1916
American Geophysical Union 1919 - 1935
Physical Description: 2"

A. G. U. Section of Terrestrial Magnetism and Electricity 1921 - 1922
A. G. U. Latitude Station at Ukiah, Calif. 1921 - 1922
Amer. Journal of Physical Anthropology 1919 - 1920
Amer. Metric Association 1919 - 1920
Amer. Museum of Natural History 1919 - 1937
Physical Description: 1"

II. Correspondence and Documents relating to organizations

D. General

American Philosophical Society 1905 - 1924
Physical Description: 1"

Box 66 American Philosophical Society 1925 - 1937
Physical Description: 1"

American Oriental Society 1920 - 1922
American Physical Society 1914 - 1933
American Relief Ass'n. 1921 - 1922
Annandale Golf Club 1916 - 1926
Physical Description: ¼"

Assoc. Press 1916
Astronomical and Astrophysical Society of America 1902
Astronomical and Astrophysical Society of France (1904 - 1920)
Astronomical Society of Italy 1914
Astronomical Society of Mexico 1908 - 1909
Astronomical Society of the Pacific 1901 - 1934
Physical Description: 1"

Athenaeum - Pasadene 1930 - 1935
Physical Description: ¼"

Atlantic Monthly 1927 - 1935
Automobile Club of So. Calif. 1914 - 1935
Physical Description: ¼"

Beloit College 1902 - 1912
Physical Description: 1"

Box 67 Bell Telephone 1925 - 1927
British Assoc. for the Advancement of Science 1903 - 33
British Astronomical Assoc. 1903 - 1920
Physical Description: ¼"

British Embassy 1917 - 1918
Brooklyn Inst. of Arts and Sciences 1905 - 1919
Physical Description: ¼"

Bryn Mawr College 1902 - 1915
California Academy of Science 1928
General Correspondence re Caltech 1918 - 1928
Physical Description: 1½"

Carnegie Corp 1918 - 1927
Physical Description: ½"

Caxton Club 1912 - 1920
Chamber of Commerce and Civic Ass'n. 1919 - 1933
Physical Description: ½"

II. Correspondence and Documents relating to organizations

D. General

Box 68

Chicago Astronomical Society 1932
Chicago Centennial 1928 - 1934

Physical Description: 1½"

Cities Service Co. 1916 - 1920

Physical Description: ¼"

Columbia University 1908 - 1931

Physical Description: ¼"

Commonwealth Club of California 1916 - 1917

Physical Description: ¼"

Dept. of Commerce 1916
Concilium Bibliographicum 1921
Congress of Arts and Sciences 1904 - 1905
Consolidation of Government Science under Smiths. Inst. 1921
Constrast in Stellar Evolution 1902 - 1903
Copley Medal - Royal Society 1932 - 1933

Physical Description: ¼"

Dalton Mfg Co. 1918
Daniel Giraud Elliott Gold Medal 1916
Drake, Riley and Thomass 1919 - 1920
Egypt Exploration Fund Society 1912 - 1928

Physical Description: ¼"

Elliot and Fry 1905 - 1912
Encyclopedia Britannica 1905 - 1936

Physical Description: ½"

Engineering News Record 1918
English Speaking Union 1919 - 1927

Physical Description: ¼"

Exhibits 1920
First National Bank, Pasadena 1914 - 1934
Fodd Research Institute 1921
Foreign Shipments 1911 - 1913
Franklin Institute 1916 - 1935

Physical Description: ¾"

Griffith Planetarium 1930 - 1936

Physical Description: ¼"

Box 69

Half Moon 1908 - 1926

Physical Description: ½"

II. Correspondence and Documents relating to organizations

D. General

Hall of Fame 1920 - 1924

Physical Description: 1"

Hall of Fame Election of 1920 1920

Physical Description: 2"

Harper Brothers 1907 - 1930

Hamburg - American Line 1907

Harris Trust and Savings Bank 1903 - 1909

Physical Description: ¼"

Harvard Club 1914 - 1934

Physical Description: ¼"

Harvard University 1919 - 1936

Physical Description: ¼"

Herschel Centenary 1922

Huntington Memorial Hospital 1927

History of Science Society (ISIS) 1923 - 24

Illinois Trust and Savings Bank 1904 - 1919

Physical Description: ½"

Indian Assoc. for the Cultivation of Science 1929 - 1933

Institute for Advanced Study 1932 - 1935

Institut de France 1914 - 1931

Inst. of International Education 1931 - 1936

Inst. of Public Relations 1927 - 1928

Insurance 1904 - 1910

Investigators Club 1902 - 1903

Investment Circulars 1928 - 1935

Physical Description: ½"

Italian Society of Sciences 1919

Johns Hopkins University 1928 - 1935

League to Enforce Peace 1915 - 1919

League of Nations (Comm. on I. C.) 1925 - 1932

Physical Description: ½"

League of Nations 1919 - 1936

Physical Description: 1½"

League of Nations Non-Partisan Assoc. 1922 - 27

Lick Observatory Clippings, etc. 1898 - 1904

Linnaeus Anniversary 1907

Lincoln Club 1922 - 1936

Louisiana Purchase Exposition Co. 1905 - 1906

McMillan and Co. 1909 - 1920

Physical Description: ½"

Box 70

Box 71

Madison Historical Society 1920

II. Correspondence and Documents relating to organizations

D. General

M. I. T. 1911 - 1919

Physical Description: ½"

M. I. T. Alumni Assoc. 1895 - 1911

Physical Description: 1"

M. I. T. Alumni Assoc. 1920 - 1929

Physical Description: 1"

Medici Society, Ltd. 1911 - 1921
Membership and Committee 1918
Metric Association 1920 - 1934

Physical Description: 1"

Metropolitan Club 1917 - 1933

Physical Description: ¼"

Nantucket Maria Mitchell Ass'n 1911 - 1925
National Ass'n. of Cotton Manufacturers 1918
National Canners Association 1916
National Highways Commission 1914 - 1915
National Reclamation Ass'n. 1915 - 1916
Nature 1906 - 1936

U. S. Naval Observatory 1898 - 1919

U. S. Naval Academy 1929

New Orient Society of America 1932 - 1936

New York Museum of Science and Industry 1936

New York Times 1916 - 1935

Nobel Committee 1907 - 1915

Physical Description: ½"

Northern Trust Co. 1914 - 1929

Occidental Alumni 1927

Official Bulletin 1917

Optical Society of America 1916 - 1932

Oxford University 1919 - 1934

Pacific Coast Research Conference 1917 - 1919

Packard Motor Car Co. 1916 - 1917

Paris Academy of Science 1917 - 1919

Pasadena Art Institute 1922 - 1935

Physical Description: ½"

Pasadena Board of Trade 1905 - 1920

Pasadena Community Playhouse Assn. 1920 - 193

Physical Description: ½"

Pasadena Hospital 1917 - 1931

Pasadena Music and Art Ass'n. 1912 - 1925

Physical Description: 3"

Box 72

Box 73

II. Correspondence and Documents relating to organizations

D. General

City of Pasadena 1910 - 1935

Physical Description: ¼"

City of Pasadena Schools 1929 - 1931

Physical Description: ¼"

*** City Planning Committee 1921 - 1928 (See Box 11)**

Pasadena Star News 1917 - 1933

City of South Pasadena 1908 - 1926

Pearson-Taft Land Credit 1909 - 1925

Physical Description: 1"

Phi Beta Kappa 1926 - 1935

Physical Description: ½"

E. K. Wallace 1930 - 1931

Physical Society of London 1907 - 1924

Princeton University 1917 - 1922

Quadrangle Club 1897 - 1926

William A. Read 1911 - 1914

Republican National Committee 1916 - 1935

Rice Institute 1912 - 1923

Royal Astronomical Society 1903 - 1935

Physical Description: ¼"

Royal Canadian Institute 1903 - 1920

Royal Institution of Great Britain 1908 - 193

Physical Description: ½"

Royal Societies Club 1900 - 1930

Royal Society of Edinburgh 1913 - 1914

Royal Society of London 1904 - 1936

Physical Description: ¼"

Santa Barbara Planning (City) 1925

Save the Redwoods League 1920 - 1933

Physical Description: ½"

Scientific American 1" 1928 - 1936

Proposed Popular Journal - Science News Service 1916 - 1917

Physical Description: 1"

Science News Service 1920 - 1922

Physical Description: 2"

Science News Service 1924 - 1937

Science League of America 1924

Scribner's Magazine 1916

Security First Natl. Bank of L. A. 1929 - 34

Seismology 1924 - 1927

Society of Arts and Sciences 1930

Box 74

Box 75

II. Correspondence and Documents relating to organizations

D. General

Societe Francaise de Physique 1904 - 1924
Societe Hollandaise 1920
The Southwest Society - Southwest Museum 1916 - 1920
William H. Staats 1904 - 1919
Physical Description: ½"

Box 76
G. E. Stechert and Co. 1905 - 1907
Stellar Evolution 1907 - 1910
Stickney Memorial Art School 1921 - 1922
Students Fund, Inc. 1928 - 1936
Teachers Insurance and Annuity Assoc. of America 1919 - 1937
Technology Club 1906 - 1931
Tennessee Evolution Case Defense Fund 1925 -
Thayer Decoration Co. 1905 - 1906
Throop 1904 - 1917
Physical Description: ½"

Throop College of Technology 1911 - 1920
Physical Description: 4½"

Box 77
Throop College Library 1918
Tiffany and Co. 1912 - 1922
Toledo Railways and Light Co. 1913 - 1915
Tournament of Roses Assoc. 1912 - 1934
Tropical Plant Research Foundation 1924 - 25
Tucker, Hunter, Dulin and Co. 1928 - 1930
Tuna Club 1913
Union Trust and Savings Bank 1915 - 1916
United Engineering Society 1918
University de Gand 1919
University of California 1904 - 1930
Physical Description: ½"

University of California Location Committee 1925
University of Chicago 1897 - 1934
Physical Description: 1"

University of Chicago Press 1901 - 1936
Physical Description: 1"

University Extension in South. Calif. 1917-30
University of Strasbourg 1925
University Club of Chicago 1901 - 1931
University Club of New York City 1918 - 1935
University Club of Pasadena 1913 - 1934
Valley Hunt Club 1906 - 1931
Vienna Academy of Sciences 1904 - 1914
War Relief Funds 1914 - 1924
Physical Description: 1"

Box 78
Washington Academy of Science 1906 - 1933
William Wesley and Son 1908 - 1916
World Agriculture Society 1924

II. Correspondence and Documents relating to organizations

D. General

The World's Work 1912
Yale University 1905 - 1934

Physical Description: ½"

Y. M. C. A. 1914 - 1926
Zinc Research Assoc. 1918
Miscellaneous letters and Crank Mail 1903 - 1934

Physical Description: 2

Miscellaneous Letters and Crank Mail 1897 - 1910

Physical Description: 2

Box 79

Miscellaneous organizations 1905 - 1935

Physical Description: 2"

III. Family letters

Box 80

G. E. Hale to his wife 1909 - 1918

Physical Description: 5"

Box 81

G. E. Hale to his wife 1920 - 1922

Physical Description: ¼"

G. E. Hale to his wife 1926 - 1928

Physical Description: ½"

G. E. Hale to his wife 1930

G. E. Hale to his wife 1932 - 1934

Physical Description: 2"

Box 82

G. E. Hale to his wife undated

Miscellaneous letters to Mrs. Hale 1912 - 1944

Miscellaneous letters to Margaret Scherer 1897 - 19[??]

Margaret Scherer's letters to G. E. H. undated

G. E. Hale to his daughter Margaret 1910 - 1936

Physical Description: 2

Miscellaneous family letters 1886 - 1931

Physical Description: 2"

Box 83

Evelina Hale to Margaret Hale 1906 - 1936

Physical Description: 4"

G. E. Hale to mother, father and sister 1896 - 97

To Margaret and Paul Scherer from the W. E. Hales, Aunt Martha and Eunice Hale 1921 - 1937

Letters to Miss Gianetti from Mrs. Hale 1936

Miscellaneous 1916 - 1938

IV. Scientific Work

- Box 84 **Kenwood C. 1892**
Kenwood C. 1892
Kenwood C. 1892
Kenwood C. 1893
Measurement of Solar Plates Book 1. 1893
Measurement of Solar Plates Book 2. 1893
- Box 85 **Measurement of Solar Plates Book 3. 1893**
Zeeman Effect 1898 - 1928
Spectroscopy 1900
Photographs for Exhibit 1904
Solar Observatory Memoranda 1905
Spot Spectra C. 1905
Notebooks for Articles 1906
- Box 86 **Notebook 1911**
Rough Notes 1916
Notebook 1916
Notebook 1917
Notebook 1920 - 1930
Notebook 1924
- Box 87 **Notebook 1934**
Notebook 1933
Notebook 1933
- Box 88 **Four undated notebooks plus one dated 1933**
- Box 89 **Five undated notebooks plus undated observing cards**
- Box 90 **Spectroheliograph Correspondence**
A - 1927 - 1934

Physical Description: ¼"

B - 1927 - 1935

Physical Description: ¼"

C - 1929 - 1930
D - 1927 - 1930
E - 1933 - 1934
F - 1927 - 1933
G - 1927 - 1933
H-I 1927 - 1934

Physical Description: ¼"

J - 1932
K - 1931 - 1936
M - 1926 - 1935

Physical Description: ¼"

N - 1928 - 1935
O - 1927 - 1930
P - 1926 - 1936

Physical Description: ¼"

R - 1928 - 1936

Physical Description: ¼"

S - 1929 - 1936

Physical Description: ¼"

T - 1930 - 1931

Physical Description: ¼"

V - 1928 - 1929

WXYZ - 1929 - 1934

Mailing Lists - undated

Physical Description: ¼"

V. Biographical and Personal Material

- Box 91 **Childhood notebooks undated**
Notes, assignments and examination papers MIT 1890 - 1899
Dinners, dance programs, graduation 1890
Student notebooks - 1882, 1890 and undated
- Box 92 **Autobiographical notes 1933 - 1938**
Some Personal recollections - notebook - 1935
Bibliography undated
Poems and writings undated
Children's Stories and Poems 1938 and undated
Passports, etc. Aug. 1916 - Spet 1918
Photographs
Press Clippings - General and War Work
- Box 93 **Diaries - 1886**
1890
1893
1894

Physical Description: (3)

1903

Physical Description: (2)

1904
1905
1910
- Box 94 **1911 Diaries**
1912
1914
1916

Physical Description: (2)

1917
1918
1919
1920
1921
1922
- Box 95 **1922 - 1927 Diaries**
1929 - 1932
- Box 96 **1933**
1934

Physical Description: (4)

1935 and undated

Physical Description: (3)
- Box 97 **A - Requests and Thanks 1899 - 1935**

Physical Description: 1½"

B -Requests 1900 - 1937

Physical Description: 1½"

C - Requests and acknowledgements and Thanks 1925 - 1935

Physical Description: 1"

D - Requests and Thanks 1904 - 1937

Physical Description: ½"

E - Requests and Thanks 1897 - 1936

Physical Description: ¼"

F - Requests and Thanks 1897 - 1937

Physical Description: ½"

G - Requests and Thanks 1904 - 1935

Physical Description: ½"

Box 98

H - Requests and Thanks 1895 - 1937

Physical Description: 1"

I - Requests and Thanks 1904 - 1937

J - Requests and Thanks 1901 - 1935

Physical Description: ¼"

K - Requests and Thanks 1901 - 1931

L - Requests and Thanks 1899 - 1935

Physical Description: ½"

M - Requests and Thanks 1900 - 1932

Physical Description: 2"

N - Requests and Thanks 1900 - 1935

Physical Description: ¼"

O - Requests and Thanks 1900 - 1935

Physical Description: ¼"

Box 99

P - Requests and Thanks 1901 - 1935

Physical Description: ½"

R - Requests and Thanks 1902 - 1934

Physical Description: ½"

S - Requests and Thanks 1897 - 1937

Physical Description: 2"

T - Requests and Thanks 1901 - 1935

U - Requests and Thanks 1924 - 1935

V - Requests and Thanks 1906 - 1934

W - Requests and Thanks 1897 - 1936

V. Biographical and Personal Material

Box 100	XYZ - Requests and Thanks 1906 - 1935 Honors, Invitations, etc. 1893 - 1936 CLUBS Personal effects of G. E. Hale 1886 and undated
Box 101	Books bought and sent to G. E. H. 1932 and undated Book list undated Books, memorials, articles and misc. letters 1902 - 1938 Physical Description: ½"
Box 102	Condolence letters on death of G. E. Hale A - Z 1" 1938 G. E. Hale Obituary Notices 1938 Varied correspondence re G. E. Hale Memorial Volume 1939 - 1940 Scrapbook of science clippings 1892
Box 103	Business correspondence A - P
Box 104	Business correspondence R - Z
Box 105-112	Bills and receipts, unorganized

VI. Drafts of Articles

- Box 113 **Photography of the Solar Prominences 1890**
Drafts and notes - early papers c. 1892
Experiments with prominence photography with the horizontal telescope
Early history of the spectroheliograph
The Spectroheliograph and its Application
Bands in the Spectra of Sun-spots
Report on the Bolometric Work with Snow
Telescope
Height of the Hydrogen Flocculi
Five ft. Spectroheliograph of the Solar
Observatory (Yerkes)
Reply to Recent Statements by M. Deslandres
Five Foot Reflector of the Solar Observatory
The Heliomicrometer
The Tower Telescope
The Measurement of Solar Photographs made with the Spectroheliograph
Solar Papers: Opportunities for Solar
Research; Some New Possibilities for Solar Research 1907
On the Hydrogen Flocculi
Whirls on Paper Prints 1909
Solar Vortices and Magnetic Fields
Nature of the Flocculi
The Spectroheliograph
Preliminary Note on an Attempt to Detect the General Magnetic Field of the Sun
Disk Eruptions and Magnetic Storms 1915
The Problem of Astrophysics 1915
- Box 114 **The Minute Structure of the Solar Atmosphere**
Notes on a 25-foot Reflector 1922
Mt. Wilson Photographic Bulletin #2
The Periodic Reversal of the Magnetic Polarity of Sun-spots
Visual Observations of the Solar Atmosphere
The Sun as a Research Laboratory
Committee on the Study of the Physical Features of the Surface of the Moon 1927-28
An Inexpensive Solar Telescope and Spectrohelioscope 1928
Solar Magnetism 1928
Spectroheliographs and Spectrohelioscope 1928
Work of the Solar Laboratory 1908 - 1926
- Box 115 **Electromagnetic Theory of the Hydrogen Vortices above Sun-spots**
On the Nature of Sun-spots
Polarities of Spots
The Direction of Whirl in Vortices above Sun-spots
Sun-spots
Sun-spots
Sun-spots
Notebooks containing Sun-spot data
- Box 116 **Celestial Magnets**
Flocculi Papers undated
Identification of Faint Lines in the Spectra of Sun-spots
Photographic Investigation of Sun-spot Spectra
Present status of the Investigation of the Sun's General Magnetic Field
Seeing
Simple Instruments for Photographing the Sun and its Eruptions
Some Vortex Experiments bearing on the Nature of Sun-spots
Summary of Mt. Wilson Magnetic Observations of Sun-spots 1921
The Direction of Rotation of Solar Storms

Box 117	<p>The Fields of Force in the Atmosphere of the Sun Theories of the Aurora' Some Uses of Spectroheliograph Plates Visual Observations of the Chromosphere and Prominences Calcium Furnace Spectra Matter in the Earth and Stars Microscopy - Descriptions and Drawings - Barometric Observations Kenwood Observatory Miscellaneous Miscellaneous on Moon, Stars and Nebulae Notes on Instruments and Experiments - Spectroheliograph Notes for a New Cosmic Laboratory - Signals from the Sun Notes on Observations c. 1926 - 1930 Report: Solar Observations Solar Rotation Solar Spectrum Chart Solar Spectra and Photographs Sunspots and Radio Disturbances - Data</p>
Box 118	<p>The Life History of a Star Polarity Volume Working Copy Photographs of Sun and Solar Spectra Polar Notes - Other Misc. Material Introduction Polarity Volume (unused) Mt. Wilson Photographic Map of the Sun-spot Spectrum - Notes Unpublished Tabulations Miscellaneous Measures Solar Laboratory Miscellaneous Miscellaneous notes Miscellaneous Articles and Manuscripts; Letters on the Sun</p>
Box 119	<p>Infusoria, Branchiopoda, Rotifera, Foramenifera, Rhizopoda, Diatomacea, Porifera, Proto zoa and Desmidiaceae Notes on the Origin of the Yerkes Observatory Building a New Observatory Some Observatory Problems Some Opportunities for Astronomical Work with Inexpensive Equipment Work for the Amateur Astronomer Responsibilities of the Scientist International Cooperation in Research The New Heavens Cosmic Crucibles Giant Stars (Scribners) Depths of the Universe The Possibilities Barnard's Dark Nebulae Oriental Ancestry of the Telescope History of the Royal Astronomical Society Beyond the Milky Way Heat from the Stars Science and the Wealth of Nations</p>
Box 120	<p>New Light from the Nebulae on the Nature of Matter Solar Research for Amateurs Signals from the Stars Signals from the Sun Deeper into Space Mt. Wilson Observatory (undated) Mt. Wilson notebooks Origin of an Observatory Devoted to Stellar Evolution Popular Scientific Articles - undated incomplete notes</p>

Popular Scientific Articles - undated

- a. Choice of Research Problems
- b. Cosmic Evolution
- c. Future of Smithsonian Inst.
- d. Halley's Comet
- e. Light as a Means of Research
- f. Magnetism and Light
- g. Practical Value of Researches on the Constitution of Matter
- h. Science and Industry
- i. Simple Inst. for Photographing the Sun and its Eruptions
- j. Sounding the Stellar Universe
- k. Use of the Spec. in the Arts
- l. Some Phases of Michelson's research

Untitled

Box 121

Rinaldo and the Giant
In the Name of Allah
The League of Nations
Ramy Belleau
Ascent of Etna
A Winter in Berlin
Brashear
Edwin Brant Frost
Everyman's London
Recollections of Kapteyn
Recent Discoveries in Egypt - Misc. Notes
Sir Arthur Schuster
Some Recollections of Dr. Welch
Introduction to Handbook of French Universities
Recent Discoveries in Egypt
The Real Issue in the Campaign
Union of Art and Science
With Galileo's Eyes

Box 122

International Cooperation in Scientific Research
National Academy Exhibits 1924
National Academy of Science Articles

- a. National Academies - The Progress of Research (I, III, IV)
- B. N. A. S. Development
- c. N. A. S. Membership
- d. N. A. S. Report of Committee on Additional Funds for Research
- e. Science and National Welfare
- f. Some European Estimates of Science in America

Articles re the National Academy of Sciences

- a. N. A. S. and the N. R. C.
- b. National and International Organization of Research
- c. National Value of Scientific Research
- d. New World and Science
- e. Relations of the War to Progress in Science
- f. War Services of the N. R. C.

The National Importance of Scientific and Industrial Research
Articles re the N. R. C.

- a. Purpose of National Research Endowment
- b. Suggestion for the International Organization of Science and Research
- c. War Activities of the N. R. C.
- d. Work of the N. R. C.

Science and War

- a. Science in Civil War
- b. Organizations for War
- c. War and Science

- d. Science after the War**
Progress of Scientific Research in the U. S. Science Advisory Board
Miscellaneous Articles
 a. The Future of the National Academy 1913
 b. Paper for the American Philosophical Society 1914
 c. The Progress of Research in the U. S. II
- Box 123 **The Astrophysical Observatory and Laboratory**
Palomar Telescope (200") Preliminary
Palomar Telescope

Physical Description: (200")
- Box 124 **Building the 200" Telescope (Harper's)**
Notebook containing various articles re 200"
Articles re Astrophysical Observatory
Photographs and Blueprints of 200" Telescope
Palomar Telescope 200" Photographs and Press Cuttings
- Box 125 **Huntington Library (undated)**
Huntington Library (undated)
- Box 126 **Spectroheliometer Correspondence "Miscellaneous"**
Annual Report on Spectroheliometer (1927 - 1932)
Cooperative Research with the Spectroheliometer
Measurement of Solar Spectrum Lines, etc.
Setting Up Instructions for the Spectroheliometer
Spectroheliometer and its Work Part I
Spectroheliometer and its Work Part II
Spectroheliometer and its Work Part III (including solar eruptions and their apparent Terrestrial effects)
Spectroheliometer and its Work Part IV
Galley Proofs of the "Spectroheliometer and its Work" Parts I - IV
Spectroheliometer - Visual Observations of the Solar Atmosphere
Sun Spectra
Über das Spektroheliometer - S. Pokrowski Vortex Experiments
- Box 127 **Notes for Speeches on Scientific Subjects**
Notes for Speeches on General Subjects
Miscellaneous Notes
Galileo Galilei
Historical - Galileo, Sir John Herschel quotations, etc.

VII. National Research Council Documents

Box 128	N. R. C. Executive Board Minutes Oct. 1916 - Dec. 1920
Box 129	N. R. C. Executive Board Minutes Jan. 1921 - Dec. 1925
Box 130	N. R. C. Executive Board Minutes Dec. 1925 - Dec. 1931
Box 131	N. R. C. Executive Board Minutes Jan. 1932 - April 1935
	N. R. C. Financial Statements 1918 - 1920
Box 132	Financial Statements June 1922 - August 1928
Box 133	Financial Statements Sept. 1928 - August 1935
Box 134	Divisional Minutes
Box 135	Divisional Minutes
Box 136	Divisional Minutes
Box 137	Divisional Minutes

IX. California Institute of Technology Documents

Box 138	Executive Council Minutes 1921 - 1930
Box 139	Executive Council Minutes 1930 - 1935
Box 140	Financial Statements 1921 - 1934 Budgets 1921 - 1934 Finance Committee 1921 - 1934
Box 141	Minutes of the Board of Trustees 1920-22; 1924-1935
Box 142	Astrophysical Observatory Council And Engineering Committee Minutes 1928 - 1937

X. League of Nations Committee on Intellectual Cooperation Documents

Box 143	League of Nations Committee on Intellectual Cooperation 1921 - 1922
Box 144	League of Nations Committee on Intellectual Cooperation 1922
Box 145	L. N. CIC 1922 - 1923
Box 146	L. N. CIC 1923 - 1927
Box 147	L. N. CIC 1927 - 1931 and miscellaneous

XI. Director's Files of the Mt. Wilson Observatory

The Director's files are housed at the Huntington Library

- Box 148 **Giorgio Abetti 1908 - 1909**
Abetti 1905 - 1915
Walter S. Adams 1908 - 1921
- Physical Description: 2"**
- C. B. Abbot - L. B. Aldrich 1905 - 1922**
- Physical Description: 1"**
- K. K. Acino 1911 - 1915**
C. E. Adams 1912 - 1920
- Physical Description: 1"**
- Edward D. Adams 1916 - 1918**
The Aermotor Co. 1906 - 1916
- Physical Description: ½"**
- R. G. Aitken 1905 - 1922**
- Physical Description: 1½"**
- Ajax Electrothermic Corp. 1921 - 1922**
Dr. S. Albrecht 1911 - 1916
Am. Assn. Variable Star Observers 1920 - 1921
American Express Co. 1905 - 1913
- Physical Description: ¼"**
- Box 149 **American Philosophical Society 1917**
American Radio and Research Corp 1921
J. S. Ames 1905 - 1922
- Physical Description: ¼"**
- J. A. Anderson 1911 - 1925**
- Physical Description: 1"**
- Knut Angstrom 1905 - 1906**
S.A. Arrhenius 1905 - 1922
Annual Table of Constants 1920 - 1921
Alden F. Ayers
A - Miscellaneous 1904 - 1924
- Physical Description: 1"**
- Harold D. Babcock 1908 - 1925**
Bailey Ornamental Iron Co. 1907 - 1912
- Physical Description: ¼"**
- S. I. Bailey 1913 - 1914**
B. Baillaud 1909 - 1920

Baker Iron Works 1905 - 1920
Physical Description: ¼"

E. E. Barnard 1905 - 1922
Physical Description: 2½"

William Barnum 1904 - 1921
Physical Description: 1"

Box 150 **Leon Barritt 1911 - 1912**
S. B. Barrett 1904 - 1920
Physical Description: ¼"

L. A. Bauer 1905 - 1921
Physical Description: 2"

Bausch and Lomb Optical Co. 1906 - 1919
Physical Description: ¼"

F. E. Baxandall 1907 - 1918
James G. Biddle 1904 - 1912
Physical Description: 2"

F. H. Bigelow 1905 - 1919
Edward F. Bigelow 1914 - 1916
Victor Bjerknes 1909 - 1924
Board of Supervisors 1911
Benjamin Boss 1905 - 1920
Physical Description: 1"

Lewis Boss 1904 - 1910
Frank P. Brackett 1904 - 1915
Physical Description: 1"

Box 151 **Frederick S. Brackett 1919 - 1920**
J. A. Brashear 1904 - 1919
Physical Description: 3½"

F. W. Braun Co. 1906 - 1914
John L. Brickels 1909
E. W. Brown 1915 - 1919
Brown and Sharp Mfg. Co. 1908 - 1915
Bureau of Standards 1921 - 1922
D. H. Burnham Co. 1909 - 1915
Physical Description: 2½"

Box 152 **Albert Alfred Buss 1907 - 1920**
Physical Description: ½"

C. P. Butler 1907 - 1911

W. G. Cady 1904 1908

Physical Description: 1½"

California Cornice Works 1911 - 1916

Physical Description: ¼"

Cambridge Scientific Instrument Co. 1905 - 1910

W. W. Campbell 1909 - 1922

Physical Description: 1½"

R. S. Capon 1914 - 1919

W. F. Carothers 1910 - 1914

Carnegie Institution of Washington

Physical Description: 1½"

J. J. Carty 1921 - 1925

Carte du Ciel 1909 - 1912

Vincenzo Carulli 1909 - 1911

Box 153

F. A. Carpenter 1921 - 1922

J. McKeen Cattell 1904 - 1911

Cawthron Trust 1914 - 1919

C. W. Chamberlain 1909

T. C. Chamberlain 1908 - 1915

C. A. Chant 1908 - 1920

S. Chevalier 1908 - 1911

Sir W. H. M. Christie 1905 - 1908

Rev. R. Cirera 1905 - 1907

Frederick W. Clements 1915 - 1918

Ray G. Coates 1907 - 1910

Geo. G. Comstock 1909 - 1911

C. E. Cook Electric Co. 1911

T. Cook and Sons, Ltd. 1912 - 1920

Physical Description: ½"

Corning Glass Works 1910 - 1920

Rev. A. L. Cortie 1907 - 1922

Cooper Hewitt Electric Co. 1921

A. Cotton 1909 - 1910

Couple-Gear Freight-Wheel 1905 - 1908

Heber D. Curtis 1912 - 1919

R. H. Curtis 1909 - 1920

Cramer Dry Plate Co. 1907 - 1916

C - Miscellaneous 1904 - 1920

Physical Description: 2"

Arthur L. Day 1906 - 1920

Physical Description: ¼"

Frank C. Dennett 1910 - 1912

H. Deslandres 1904 - 1909

The Dictaphone 1912

Dominion Astro. Obs. 1913 - 1920

Box 154

C. L. Doolittle 1905

A. E. Douglas 1907 - 1918
W. Geoffrey Duffield 1907 - 1915
Ducommun Hardware Co. 1909 - 1914
J. C. Duncan 1911 - 1920
Gano Dunn 1919
F. W. Dyson 1905 - 1920
D - Miscellaneous 1901 - 1920
Eastman Kodak Co. 1911 - 1920
G. Eberhard 1905 - 1908
A. S. Eddington 1914 - 1920
Eimer and Amend 1905 - 1910
Albert Einstein. Einstein's 1913 letter inquiring about the measurement of bent starlight around the sun is located in the Huntington vault. Hale's reply is located in Box 154, "E-misc."
Ferdinand Ellerman 1908 - 1923
Charles F. Elmes Engineering Works 1911
R. Emden 1908
A. H. Emery 1911 - 1913
Encyclopedia Americana 1919
Paul Epstein 1913 - 1921
Estimates 1912 - 1916
J. Evershed 1905 - 1915
Exhibition San Francisco 1913 - 1914
E. Miscellaneous 1909 - 1917
Charles Fabry 1905 - 1913
Fairbanks, Morse and Co. 1905 - 1914

Physical Description: 1"

E. A. Fath 1908 - 1913

Physical Description: 1"

Box 155

Fore River Shipbuilding Corp 1912 - 1913
Fay and Scott 1909
Camille Flammarion 1910 - 1920
First National Bank, Pasadena 1908 - 1914
U. S. Forest Service 1909 - 1920

Physical Description: ¼"

F. E. Fowle 1910 - 1919
A. Fowler 1906 - 1913
Philip Fox 1904 - 1922
Frankford Arsenal 1918
J. Franklin Adams 1912
Fulton Engine Works 1907 - 1912
Caroline E. Furness 1911
French Plate Glass Cos. 1904 - 1913

Physical Description: 1"

Box 156

F. Miscellaneous 1905 - 1916
E. B. Frost 1905 - 1920

Physical Description: ¾"

Henry G. Gale 1905 - 1921

Physical Description: 1"

General Electric Co. 1912 - 1920

Physical Description: ¼"

Box 157

William Gaetner 1905 - 1916

Physical Description: 1"

F. G. Gibbx 1913 - 1920

Walter M. Gilbert 1905 - 1920

Physical Description: 2½"

Sir David Gill 1911 - 1914

Physical Description: ½"

Graham-Burnham Co. 1915 - 1917

H. E. Gregory 1921

William H. Guild and Co. 1909 - 1916

Gundlach - Manhattan Optical Co. 1909 - 1919

G - Miscellaneous 1905 - 1920

Physical Description: 1"

Box 158

Rev. John G. Hagen, S. J. 1911 - 1921

George Ellery Hale 1905 - 1911

George E. Hale 1912 - 1925

Physical Description: 1"

J. Hargreaves 1923

J. Hartman 1903 - 1914

James Hartness 1911 - 1916

Harvard College 1913 - 1920

B. Hasselberg 1904 - 1908

C. S. Hastings 1908 - 1909

F. Henroteau 1917 - 1920

W. C. Heraeus 1905 - 1906

Herschel Mirror 1911 - 1922

Ejnar Hertzsprung 1911 - 1921

Physical Description: ½"

A. Hilger, Ltd. 1905 - 1914

Physical Description: 1"

Arthur R. Hinks 1910 - 1920

W. P. Hoge 1914 - 1922

Physical Description: 1"

Box 159

John D. Hooker 1907 - 1908

Janet T. Howell 1915 - 1917

Physical Description: ¼"

Edwin P. Hubble 1917 - 1919

W. J. Humphreys 1906 - 1920

Myron Hunt 1905 - 1918

Physical Description: ½"

W. J. Hussey 1903 - 1920

Charles L. Hutchinson 1905

H - Miscellaneous 1904 - 1922

Physical Description: 1"

Ilford, Ltd. 1909

Imperial College of Science and Technology 1921

Institute Oceanographique Monaco 1919

Insurance 1907 - 1920

Physical Description: ½"

Insurance and Annuity Association 1919 - 1920

Internal Revenue Service 1908 - 1915

Intl. Acheson Graphite Co. 1906 - 1910

Intl. Encyclopedia 1914 - 1916

International Solar Union 1905

Physical Description: 1"

Interstate Commerce 1910 - 1916

George S. Isham 1917

I - Miscellaneous 1905 - 1920

Physical Description: ¼"

Box 160

Harold Jacoby 1913 - 1920

Clement Jacomini 1915 - 1916

Jules Jansen 1905 - 1921

Physical Description: ¼"

J. H. Jeans 1917 - 1922

C. E. Jewell 1903 - 1907

N. Johanssen 1917 - 1921

George D. Jones 1908 - 1920

Alfred J. Joy 1915 - 1918

W. H. Julius 1904 - 1921

Physical Description: ½"

J - Miscellaneous 1905 - 1922

J. C. Kapteyn 1921 - 1922

Rev. D. Kennedy 1908 - 1909

N. A. Kent 1903 - 1915

Physical Description: ¼"

F. E. Kester 1912 - 1914

Arthur S. King 1907 - 1921

William H. Knight 1909 - 1912

P. P. Koch 1912 - 1913

Kodaikanal and Madras Observatory 1922 - 1923

G. W. Koiner 1911

Arnold Kohlschutter 1911 - 1916

Physical Description: ¼"

K - Miscellaneous 1904 - 1917

Physical Description: ½"

Box 161

Andrew L. Lawson 1921

Leeds and Northrup 1909 - 1920

E. P. Lewis 1915

Gilbert N Lewis 1915

A. O. Louschner 1905 - 1920

Physical Description: ½"

Bertil Lindblad 1920 - 1923

Physical Description: ¼"

Arthur D. Little, Inc. 1912

Sir Norman Lockyer 1904 - 1917

W. J. S. Lockyer 1904 - 1921

Physical Description: ¼"

H. C. Lord 1904 - 1916

Physical Description: ¼"

H. Lorentz 1909 - 1925

Physical Description: ¼"

T. P. Lukens 1905

D. T. MacDougal 1906 - 1920

Alexander P. McAdie 1909 - 1920

Physical Description: ½"

McCan Mechanical Works 1907 - 1910

Physical Description: ¼"

Machinists Supply Co. 1909 - 1910

Richard C. McLaurin 1912 - 1913

John M. Manley 1912 - 1913

Physical Description: ½"

Mantois 1916 - 1917

Mare Island Navy Yard 1922

Physical Description: ½"

Box 162

Memoranda 1913

Merck and Co. 1906 - 1914

Paul W. Merrill 1914 - 1919

Ernest Merritt 1907 - 1919

John C. Merriam 1919 - 1925

Physical Description: 1½"

A. A. Michelson 1903 - 1922

Physical Description: 1½"

Dayton C. Miller 1920 - 1921

Physical Description: ½"

John A. Miller 1917 - 1920

H. L. Miller 1905 - 1916

Newman Miller 1914 - 1917

Physical Description: ½"

R. A. Millikan 1920

"The Millionaire" Calculating Machine 1910 - 19[??]

S. A. Mitchell 1909 - 1920

Physical Description: 1"

Box 163

Walter M. Mitchell 1906 - 1912

George S. Monk 1913 - 1919

B. E. Moore 1907 - 1915

E. H. Moore 1911 - 1914

Morava Construction Co. 1909 - 1916

Physical Description: ½"

F. R. Moulton 1909 - 1915

Morehouse's Comot 1907 - 1908

Mt. Wilson Auto State 1915

M - Miscellaneous 1903 - 1925

Physical Description: 1½"

National Census of Research no date

National City Bank 1909 - 1912

National Op. Glass Co. 1916 - 1917

National Research Council

E. F. Nichols 1905 - 1913

Physical Description: 1"

Seth B. Nicholson 1915 - 1917

N - Miscellaneous 1905 - 1922

Charles M. Olmsted 1905 - 1909

The Observatory 1919 - 1923

Ordnance Misc. Corresp. 1918 - 1919

Physical Description: 1½"

Re: Purchase of Optical Building and Lot from Ordnance Dept 1918 - 1919

Physical Description: ½"

Box 164

Ordnance Dept 1918

Ordnance Dept Pasadena-Pittsburgh ½" 1918

Ordnance Dept St. Louis - Stockton ½" 1918

Ordnance Dept Washington, D. C. 1918

Physical Description: 1"

War Dept. Ordnance 1918

Physical Description: ½"

O - Miscellaneous 1905 - 1918

Physical Description: ½"

Pacific Coast Elevator Co. 1907 - 1919

Pacific Coast Research Conference 1917 - 1918

Johann Palisa 1909 - 1911

J. A. Parkhurst 1905 - 1917

Parra Mantois and Cie 1909 - 1910

Pasadena Hardware Co. 1908

Pasadena and Mt. Wilson Toll Road Co. 1905 - 191[?]

F. G. Pease 1907 - 1923

Physical Description: ¼"

C. D. Perrine 1908 - 1918

Physical Description: ¼"

A. Perot 1904 - 1911

J. S. Plaskett 1906 - 1919

J. E. Petavel 1906 - 1908

C. L. Petitdidier 1908 - 1917

Physical Description: ¼"

Edison Pettit 1920

Box 165

E. C. Pickering 1906 - 1920

Physical Description: 1"

Gifford Pinchot 1905 - 1908

Count A. de la Baume Pluvinel 1907 - 1922

John M. Poor 1914

Publicity - Journal of Electricity - Robert Sibley 1917 - 1919

Publicity - Miscellaneous 1912 - 1921

Publicity - New York Times - L A Times 1910-21

Publicity - Popular Astronomy 1913 - 1919

Publicity - Popular Mechanics 1911 - 1917

Publicity - Popular Science Monthly 1915 - 1920

Publicity - Scientific American Monthly 1915-21

Publicity - Westinghouse Bulletin 1920

Luigi Puccianti 1908 - 1909

P - Miscellaneous 1905 - 1925

Physical Description: 1"

Lord Rayleigh 1919

E. H. Rayner 1906 - 1907

Reservoir - Mt. Wilson 1921

J. S. Ricard 1912 - 1913

- A. Ricco 1914 - 1920**
Physical Description: ¼
- Box 166 **G. W. Ritchey 1906 - 1920**
Physical Description: ¼"
- Rix Compressed Air and Drill Co. 1908**
Louis Rodes 1918 - 1920
E. B. Rosa 1909
Royal Astronomical Society 1911 - 1922
Henry Norris Russell 1910 - 1925
Physical Description: 1½"
- R - Miscellaneous 1905 - 1920**
R. Sadler 1911
St. Gobain Plate Glass Co. 1922
Salaries, study of question of 1919
Roscoe F. Sanford 1916 - 1917
Santa Fe Railway Co. 1906 - 1917
Frank Schlesinger 1905 - 1920
Physical Description: 1½"
- Box 167 **Arthur Schuster 1912 - 1916**
Peter Schwamb 1913 - 1916
Physical Description: 5"
- Box 168 **F. H. Seares 1909 - 1921**
Physical Description: 1¼"
- Science Museum, London 1918**
Seaboard Metal Works 1900 - 1910
M. A. Seed Dry Plate 1905 - 1910
Physical Description: ¼"
- H. A. Seller 1912 - 1913**
Harlow Shapley 1912 - 1920
Physical Description: ¼"
- Seward A. Simmons 1904 - 1909**
Physical Description: ½"
- Albert Smith 1910 - 1913**
Smithsonian Institution 1904 - 1916
Physical Description: 1"
- Societe d'Astronomie d'Anvers 1921 - 1922**
S. California Edison Co. 1911 - 1917
S. California Railway Co. 1905 - 1912
Physical Description: ¼"
- Spencer Lens Co. 1920**
-

Wm. R. Staats Co. 1905 - 1926

Physical Description: 1"

Box 169

Joel Stebbins 1918 - 1920
G. E. Stechert and Co. 1905 - 1912
Carl Stormer 1912 - 1924
l'Observatoire - Strasbourg 1921
S. W. Stratton 1905 - 1920

Physical Description: 2"

Gustaf Strombert 1915 - 1919
Paul Stroobant 1905 - 1922

Physical Description: ¼"

S - Miscellaneous 1904 - 1920

Physical Description: 1"

Toshio Takamine 1921
Taylor-Hobson Co. 1909 - 1913

Physical Description: ¼"

Taxes 1905 - 1907
J. Mier y Teran 1907 - 1908
Thompson-Starrett Co. 1909
Elihu Thomson 1907 - 1923
Tiffany and Co. 1913 - 1923

Box 170

Physical Description: ¼"

Otto Toepfer and Sohn 1905 - 1922

Physical Description: ½"

O. H. Truman 1915 - 1919
H. H. Turner 1913 - 1921
T - Miscellaneous 1905 - 1920

Physical Description: 1"

U. S. Coast And Geodetic Survey 1904 - 1919

Physical Description: 1"

U. S. Geological Survey 1919 - 1920
U. S. Naval Observatory 1912 - 1913
U. S. Weather Bureau 1905 - 1916
Union Iron Works Co. 1905 - 1916

Physical Description: 1½"

Union Tool Co. 1914 - 1916

Physical Description: ½"

University of Chicago Press 1905 - 1915

Physical Description: 1¼"

Box 171

U - Miscellaneous 1905 - 1921
E. A. Varela 1911 - 1914
A. Van Maanen 1911 - 1921

Physical Description: ½"

P. J. Van Rhijn 1913 - 1922
V - Miscellaneous 1905 - 1920

Physical Description: ¼"

Charles D. Walcott 1905 - 1913
O. R. Walkley 1916 - 1917
R. James Wallace 1905 - 1910

Physical Description: ½"

Warner and Swasey 1904 - 1920

Physical Description: ¼"

H. P. Warren 1922
William C. Weber 1921 - 1922
William Wesley and Son 1904 - 1910

Physical Description: 1"

Westinghouse Manufacturing and Electric Co. 1915 - 1919
Western Union Telegraph Co. 1919 - 1920
Walter T. Whitney 1912 - 1916
C. J. Willett 1913 - 1914
E. B. Wilson 1914 - 1919

Physical Description: ¼"

Box 172

H. C. Wilson 1909 - 1921
Ralph E. Wilson 1918
W. H. Wright 1916 - 1920

Physical Description: ¼"

Max Wolf 1908
Frank S. Wood 1917 - 1918
R. W. Wood 1908 - 1915

Physical Description: ½"

W. Miscellaneous
Anne S. Young 1917 - 1920
P. Zeeman 1908 - 1921

Physical Description: ½"

Carl Zeiss 1905 - 1920
F. R. Ziel 1910
XYZ - Miscellaneous 1904 - 1914

Physical Description: 1"

Box 173

John L. Wirt 1905 - 1920

Addenda to Hale Papers

Physical Description: 3 Boxes (unnumbered)

Correspondence (Located after microfilming)

1. Misc.

2. F. H. Seares

Hale-Goodwin Correspondence

Copies of letters of G. E. Hale to Harry Goodwin. Originals in the Huntington Library. Approximately 180 letters, dating from 1887 to 1936. Processed in 7 folders in one box (no box number). Added to end of Hale collection 2/18/91 by SE from JRG.

Boxes for Hale Medals