

# **C. S. Draper Papers**

## **A Finding Aid to the Collection in the Library of Congress**

**Prepared by Joseph K. Brooks**



**Manuscript Division, Library of Congress**

**Washington, D.C.**

**2012**

Contact information: <http://hdl.loc.gov/loc/mss/mss.contact>

**Finding aid encoded by Library of Congress Manuscript Division, 2013**

Finding aid URL: <http://hdl.loc.gov/loc/mss/eadmss.ms013025>

## Collection Summary

**Title:** C. S. Draper Papers

**Span Dates:** 1773-1978

**Bulk Dates:** (bulk 1939-1973)

**ID No.:** MSS21360

**Creator:** Draper, C. S. (Charles Stark)

**Extent:** 16,800 items ; 48 containers plus 1 oversize ; 19.2 linear feet

**Language:** Collection material in English

**Repository:** Manuscript Division, Library of Congress, Washington, D.C.

**Abstract:** Engineer, inventor, and educator. Correspondence, speeches and writings, and consultant and organizational files documenting Draper's career as a professor of aeronautical engineering at Massachusetts Institute of Technology and technical consultant to the Curtiss-Wright Corporation and other airplane manufacturers and to the Sperry Gyroscope Company, Waltham Watch Company, and other instrument makers.

## Selected Search Terms

The following terms have been used to index the description of this collection in the Library's online catalog. They are grouped by name of person or organization, by subject or location, and by occupation and listed alphabetically therein.

### People

Ashley, Holt--Correspondence.  
Bagrit, Leon, Sir--Correspondence.  
Bisplinghoff, Raymond L.--Correspondence.  
Draper family.  
Draper, C. S. (Charles Stark)  
Draper, Martha Washington Stark. Martha Washington Stark Draper papers.  
Draper, Ralph Clayton.  
Galantin, I. J., 1918- --Correspondence.  
Jacoby, John Francis Lucas.  
Jacoby, Ralph, 1768-1822.  
Johnson, Howard Wesley, 1922-2009--Correspondence.  
Reintjes, J. Francis--Correspondence.  
Seamans, Robert C.--Correspondence.  
Stark family.  
Summerfield, Martin--Correspondence.  
Whitledge, Thomas Benson, 1810-1844.

### Organizations

American Waltham Watch Company.  
Curtiss-Wright Corporation.  
Daughters of the American Revolution. Missouri Society.  
Massachusetts Institute of Technology--Faculty.  
Sperry Gyroscope Company, inc.

### Subjects

Aeronautical instruments.  
Aeronautics.  
Aircraft industry.  
Airplanes--Piloting.  
Automatic pilot (Airplanes)  
Commission merchants--United States--History.  
Engineering.  
Gyroscopic instruments.  
Instrument flying.

Instrument industry.

### **Places**

Missouri--History, Local.

Missouri--History.

### **Occupations**

Educators.

Engineers.

Inventors.

## **Administrative Information**

### **Provenance**

The papers of Charles Stark Draper, engineer, inventor, and educator, were given to the Library of Congress by Draper in 1973 and 1979.

### **Processing History**

The papers of C. S. Draper were processed in 1998. The finding aid was revised in 2012.

### **Transfers**

Audiotapes have been transferred to the Library's Motion Picture, Broadcasting and Recorded Sound Division, where they are identified as part of these papers.

### **Copyright Status**

The status of copyright in the unpublished writings of Charles Stark Draper is governed by the Copyright Law of the United States (Title 17, U.S.C.).

### **Access and Restrictions**

The papers of C. S. Draper are open to research. Researchers are advised to contact the Manuscript Reading Room prior to visiting. Many collections are stored off-site and advance notice is needed to retrieve these items for research use.

### **Preferred Citation**

Researchers wishing to cite this collection should include the following information: Container number, C. S. Draper Papers, Manuscript Division, Library of Congress, Washington, D.C.

## **Biographical Note**

<i>Date</i>	<i>Event</i>
1901, Oct. 2	Born, Windsor, Mo.
1917-1919	Attended University of Missouri, Columbia, Mo.
1922	B.S., psychology, Stanford University, Stanford, Calif.
1926	B.S., electrochemical engineering, Massachusetts Institute of Technology, Cambridge, Mass.
1926-circa 1941	Officer, United States Army Air Corp Reserve
1928	M.S., Massachusetts Institute of Technology, Cambridge, Mass.

1935-1938	Assistant professor, aeronautical engineering, Massachusetts Institute of Technology, Cambridge, Mass.
1938	D.Sc., physics, Massachusetts Institute of Technology, Cambridge, Mass. Married Ivy Willard
1939	Appointed professor, aeronautical engineering, Massachusetts Institute of Technology, Cambridge, Mass.
1939-1969	Director, Instrumentation Laboratory, Massachusetts Institute of Technology, Cambridge Mass.
1940-1945	Developed Mark 14 and Mark 15 naval gun sights and related antiaircraft fire control systems
1945	Awarded Sylvanus Albert Reed and Naval Ordnance Development awards
1946	Awarded Medal of Merit by Harry S. Truman
1947-1951	Developed A-1 gun sight and other aids to jet aircraft gunnery
1951	Appointed chairman, Department of Aeronautical Engineering, Massachusetts Institute of Technology, Cambridge, Mass.
1953	First practical demonstration of inertial navigation, <i>B-29</i> flight, Bedford, Mass., to Los Angeles, Calif.
1959-1966	Chairman, Department of Aeronautical and Astronautical Engineering, Massachusetts Institute of Technology, Cambridge, Mass.
1961	One of American scientists declared "Men of the Year" by <i>Time</i> Instrumentation Laboratory awarded contract by National Aeronautics and Space Administration to design guidance system for Apollo spacecraft
1964	Awarded National Medal of Science by Lyndon B. Johnson
1973	Instrumentation Laboratory divested from Massachusetts Institute of Technology to become Charles Stark Draper Laboratory, Cambridge, Mass.
1987, July 25	Died, Cambridge, Mass.

## Scope and Content Note

The papers of Charles Stark Draper (1901-1987) span the years 1773-1978, with the bulk of the material concentrated in the period 1939-1973. Draper was an aeronautical engineer and has been called the father of inertial guidance. The technology of gyroscopic inertial guidance, by which vehicles are kept on course independent of outside navigational aids such as radio signals, radar, and celestial sightings, is the basis of the "automatic pilot" in commercial and military aircraft and of the navigational systems of submarines, missiles, and spacecraft. The Draper Papers are organized into five series: [Family and Personal Papers](#), [Professional File](#), [Speeches and Writings](#), [Miscellany](#), and [Oversize](#).

The largest file in the [Family and Personal Papers](#) was created by Draper's mother, Martha Stark Draper ("Dada"), a founder of the Missouri chapter of the Daughters of the American Revolution. It relates mostly to the history and genealogy of the Stark and Draper families, Missouri state and local history, family memorabilia, and the accomplishments of her son. Martha Stark Draper's interest in genealogy may account for the presence of the oldest document in the papers, a ledger and

commonplace book kept by father and son commission merchants John Francis Lucas Jacoby and Ralph Jacoby during 1773-1833. Correspondents in the Family and Personal Papers include Martha Stark Draper, Thomas Benson Whitledge, and C. S. Draper's brother, Ralph Clayton Draper.

The [Professional File](#) is organized into consultant, correspondence, and organizations files. As a consultant to airplane manufacturers, such as the Curtiss-Wright Corporation, and to instrument makers, such as the Sperry Gyroscope Company and the Waltham Watch Company, C. S. Draper worked on problems of aircraft navigation, blind flying, and the monitoring and measuring through improved instrumentation of in-flight conditions such as engine combustion and vibration. Most of the Professional File dates from C. S. Draper's long association with the Instrumentation Laboratory of the Massachusetts Institute of Technology.

Correspondence in the Professional File is divided into fan mail, general, and seventieth birthday greetings, according to an arrangement established by Draper or his secretarial staff. Substantive issues, such as the divestiture of the Instrumentation Laboratory by the Massachusetts Institute of Technology in 1970, are addressed in some of the fan letters, while some of the general correspondence is obviously fan mail. On his seventieth birthday in 1971, Draper received congratulatory letters from political figures such as Richard Nixon and Lyndon B. Johnson, from former students by then highly placed in the aerospace industry, the military, and civilian agencies, including the National Aeronautics and Space Administration, and from colleagues. Correspondents in the Professional File include Holt Ashley, Sir Leon Bagrit, Raymond L. Bisplinghoff, Benjamin P. Blasingame, Secor D. Browne, Richard H. Frazier, Howard Wesley Johnson, I. J. Galantin, J. Francis Reintjes, Robert C. Seamans Jr., and Martin Summerfield.

The Organizations file documents Draper's attendance at the meetings of professional associations and his consulting relationships with government agencies.

The [Speeches and Writings](#) series includes articles and scientific papers, monographs, and speeches. One of the monographs is a three-volume, multipart report, *Gunsight Mark 15 for the Control of Short- and Medium Range-Antiaircraft Fire from Naval Vessels*, by the Instrumentation Laboratory (MIT) for the United States Navy Bureau of Ordnance.

The [Miscellany](#) series contains albums of awards and certificates documenting the course of Draper's career. The Miscellany also includes a catalog and inventory of his papers prepared by a member of Draper's staff. The introduction to the catalog provides a good general overview of the Draper Papers, and additional information about particular documents can sometimes be obtained through referencing the catalog.

## Arrangement of the Papers

This collection is arranged in five series:

- [Family and Personal Papers, circa 1773-1974](#)
- [Professional File, 1925-1974](#)
- [Speeches and Writings, 1933-1978](#)
- [Miscellany, 1917-1974](#)
- [Oversize, 1939](#)

## Description of Series

<i>Container</i>	<i>Series</i>
BOX 1-5	<p><b><u>Family and Personal Papers, circa 1773-1974</u></b></p> <p>Correspondence, scrapbooks, printed matter, photographs, military personnel records, genealogical material, ledgers, and miscellaneous material.</p> <p>Organized alphabetically by type of material, subject, or name of person.</p>
BOX 5-24	<p><b><u>Professional File, 1925-1974</u></b></p> <p>Correspondence, project files, printed and near-print matter, notebooks and notes, reports, and miscellaneous material.</p> <p>Organized into consultant file, correspondence, and organizations groupings and thereunder alphabetically by type of material or subject. United States government files are located at the end of the organizations grouping.</p>
BOX 24-43	<p><b><u>Speeches and Writings, 1933-1978</u></b></p> <p>Scientific papers, drafts and published articles, drafts and published book chapters, speeches, technical publications, notes, and miscellaneous material.</p> <p>Organized alphabetically by type of material and thereunder chronologically or alphabetically by title.</p>
BOX 43-48	<p><b><u>Miscellany, 1917-1974</u></b></p> <p>Awards, citations, scrapbooks, photographs, catalogs, scientific papers, invitations, greeting cards and postcards, subject files, and other miscellaneous material.</p> <p>Organized alphabetically by type of material, organization, or subject.</p>
BOX OV 1	<p><b><u>Oversize, 1939</u></b></p> <p>Blueprints related to Curtiss-Wright Corp. consultant project.</p> <p>Organized and described according to the series from which the items were removed.</p>

# Container List

<i>Container</i>	<i>Contents</i>
BOX 1-5	<b>Family and Personal Papers, circa 1773-1974</b> Correspondence, scrapbooks, printed matter, photographs, military personnel records, genealogical material, ledgers, and miscellaneous material. Organized alphabetically by type of material, subject, or name of person.
BOX 1	Biographical material, 1956, 1966-1972, undated
BOX 1	Calendar planners and address books, circa 1928, 1938, 1964-1967 (2 folders)
BOX 1	Chemistry class notebook, 1916-1917
BOX 1	Draper, Charles A. (father), 1926, 1940
BOX 1	Draper, Martha Stark ("Dada") (mother)
BOX 1	Central Missouri State Teachers College, Warrenburg, Mo., alumni register, 1923
BOX 1	Correspondence, 1895, 1909-1916, 1921-1922, 1932-1940
BOX 2	Cruises, 1928-1932, undated
BOX 2	Genealogical societies, 1917-1925, 1939, undated
BOX 2	Missouri history, 1876, 1921, undated
BOX 2	Scrapbooks
BOX 2	1881-1929, undated (2 folders)
BOX 2	1915-1939, undated (2 folders)
BOX 3	1919-1921, undated
BOX 3	Wills and inventories, 1914, undated
BOX 3	Writings
BOX 3	"A Little Family History," 1939
BOX 3	School papers and miscellaneous writings, 1884, 1927, undated
BOX 3	Draper, Ralph Clayton (brother), 1935-1937, undated
BOX 3	General correspondence, 1911-1973 (6 folders)
BOX 4	Jacoby family, ledger and commonplace book, and other material, circa 1773-1833, 1856, undated
BOX 4	Military service, 1925-1942
BOX 4	Photographs
BOX 4	Albums, circa 1850-1974 (2 folders)
BOX 4	Miscellany
BOX 4	circa 1850-1972 (3 folders)
BOX 5	Undated (2 folders)
BOX 5	Shelton, Cora Stark (aunt), 1879-1885
BOX 5	Stanford University, Stanford, Calif., 1920-1922
BOX 5	Stark family, 1914-1928, 1940, 1966

## Family and Personal Papers, circa 1773-1974

### Container

### Contents

---

BOX 5	Whitledge, Thomas Benson, 1919
BOX 5-24	<b>Professional File, 1925-1974</b> Correspondence, project files, printed and near-print matter, notebooks and notes, reports, and miscellaneous material. Organized into consultant file, correspondence, and organizations groupings and thereunder alphabetically by type of material or subject. United States government files are located at the end of the organizations grouping.
BOX 5	Consultant file
BOX 5	Altitude measuring instruments, 1925-1930, undated
BOX 6	Amtorg Trading Co., New York, N.Y., electric balance device, 1937
BOX 6	Curtiss Propeller Division, Curtiss-Wright Corp., Clifton, N.J.
BOX 6	Blueprints, 1939. <i>See Oversize</i>
BOX 6	Correspondence, 1938-1941 (4 folders)
BOX 6	Manuals, 1936-1938 (2 folders)
BOX 6	Notebooks, 1938-1940 (3 folders)
BOX 7	Notes and data, 1936-1939, undated (2 folders)
BOX 7	Reports and related matter, 1936-1941, undated (2 folders)
BOX 7	Hamilton Standard Propeller Co., Hartford, Conn., 1939-1940
BOX 7	Sperry Gyroscope Co., New York, N.Y., 1938-1941, undated
BOX 7	Waltham Watch Co., Waltham, Mass., 1939-1940, undated (2 folders)
BOX 8	Correspondence
BOX 8	Fan mail, 1970-1973 (7 folders)
BOX 8	General
BOX 8	1927-1964 (3 folders)
BOX 9	1965-1973, undated (8 folders)
BOX 10	Seventieth birthday, 1971
BOX 10	Organizations
BOX 10	Aerojet-General Corp., El Monte, Calif., 1959-1962, 1969, undated (2 folders)
BOX 10	American Academy of Achievement, 1967
BOX 10	American Astronautical Society, 1960-1967, undated
BOX 11	American Institute of Aeronautics and Astronautics, 1937, 1958-1973, undated (3 folders)
BOX 11	American Institute of Consulting Engineers
BOX 11	<i>Consulting Engineering</i> , newsletter, 1961-1972
BOX 11	General, 1960-1972, undated (2 folders)

## Professional File, 1925-1974

### Container

### Contents

---

BOX 11	American Ordnance Association
BOX 11	1953, 1961-1963
BOX 12	1964, 1969-1972
BOX 12	American Rocket Society, 1960-1962
BOX 12	American Society for Engineering Education, 1962-1967
BOX 12	American Society of Mechanical Engineers, 1934-1935, 1955-1965, 1970-1972 (2 folders)
BOX 12	"A" miscellaneous, 1940-1941, 1960-1961
BOX 13	Boeing Corp., Seattle, Wash., 1939, 1966
BOX 13	Centre International de Generalisation, Canisy, France, 1963-1964 (3 folders)
BOX 13	Charles Stark Draper Laboratory, Cambridge, Mass., 1973-1974
BOX 13	Chrysler Corp., Space Division, New Orleans, La., 1964-1965 (2 folders)
BOX 13	"C-G" miscellaneous, 1962-1964
BOX 13	Institute of Aeronautical Sciences, 1959, undated
BOX 14	Institute of Aerospace Sciences, 1959-1962, undated
BOX 14	Institute of Electrical and Electronics Engineers, 1970-1973
BOX 14	Instrument Society of America
BOX 14	General, 1959-1962, 1970, undated
BOX 14	"Instrumentation in the Aerospace Industry," 1970
BOX 14	International Astronautical Federation
BOX 14	Sixteenth Congress, Athens, Greece, 1965
BOX 14	Twenty-First Congress, Constance, Germany, 1970, and Twenty Fourth Congress, Baku, USSR, 1973
BOX 14	General, 1961-1966, undated
BOX 15	International Academy of Astronautics, 1963-1973, undated (3 folders)
BOX 15	International Congress on Air Technology, 1965
BOX 15	Massachusetts Institute of Technology, Cambridge, Mass.
BOX 15	Aeronautics and Astronautics Department
BOX 15	Annual and long-range planning reports, 1957-1966
BOX 15	General, 1959-1965, undated (2 folders)
BOX 16	Yamamoto, Yoshiyuk, 1965
BOX 16	Centennial, 1960-1961 (2 folders)
BOX 16	Engineering Council, 1962-1963
BOX 16	General, 1936, 1940, 1959-1973, undated (3 folders)
BOX 17	Instrumentation Laboratory
BOX 17	General, circa 1935-1949, 1961-1971, undated (3 folders)
BOX 17	"Review Panel on Special Laboratories Final Report," 1969
BOX 17	Print and near-print material, 1936-1966 (2 folders)
BOX 17	Navy League, 1960-1963, undated

## Professional File, 1925-1974

### Container

### Contents

---

BOX 18	New York Academy of Sciences, 1964-1967
BOX 18	North American Aviation, El Segundo, Calif., 1965-1967, undated
BOX 18	"M-W" miscellaneous, 1934-1972 (2 folders)
BOX 18	United States government
BOX 18	Advisory Committee to Environmental Science Services Administration, 1968 (2 folders)
BOX 18	Air Force
BOX 18	Eastern Test Range, Patrick Air Force Base, Fla., 1968
BOX 19	Inertial Guidance Symposium Program, 1962-1966
BOX 19	Scientific Advisory Board
BOX 19	General, 1962-1967, undated
BOX 19	"Seminar on Celestial and Inertial Long Range Guidance Systems," 1949 (2 folders)
BOX 20	Army
BOX 20	Artillery and Missile School, Fort Sill, Okla., 1962, undated
BOX 20	Electronic Advisory Group, 1966-1971, undated
BOX 20	Scientific Advisory Panel (ASAP)
BOX 20	Air Mobility Advisory Groups, 1962 (2 folders)
BOX 20	General
BOX 20	1959-1968 (2 folders)
BOX 21	1969-1972
BOX 21	Commerce Technical Advisory Board, 1954, 1959-1965, undated (3 folders)
BOX 21	General, 1962-1972
BOX 21	National Academy of Engineering
BOX 21	1964-1967 (3 folders)
BOX 22	1967
BOX 22	National Aeronautics and Space Administration
BOX 22	Apollo missions
BOX 22	Apollo 6, 9, 11-14, 1968-1971
BOX 22	Apollo 15
BOX 22	Delco Electronics, "Guidance and Navigation Summary," 1971
BOX 22	Simmons, Gene, "On The Moon with Apollo 15, A Guidebook to Hadley Rille and the Apennine Mountains," 1971
BOX 22	Apollo 17, 1972
BOX 22	Gemini-Titan program, 1965
BOX 23	General, 1959-1972 (3 folders)
BOX 23	Post-Apollo space program, 1969 (2 folders)
BOX 23	National Inventors Council
BOX 23	circa 1 May 1959-2 Oct. 1963 (2 folders)

## Professional File, 1925-1974

### Container

### Contents

---

BOX 24	22 Oct. 1963-11 Oct. 1968
BOX 24	National Science Foundation, 1959
BOX 24-43	<b>Speeches and Writings, 1933-1978</b> Scientific papers, drafts and published articles, drafts and published book chapters, speeches, technical publications, notes, and miscellaneous material. Organized alphabetically by type of material and thereunder chronologically or alphabetically by title.
BOX 24	Articles and scientific papers
BOX 24	1933-1937 (3 folders)
BOX 25	1938-1957 (5 folders)
BOX 25	1958
BOX 25	(2 folders)
BOX 26	(1 folder)
BOX 26	1959-1963 (8 folders)
BOX 27	1964-1969 (8 folders)
BOX 27	1970 (1 folder)
BOX 28	(6 folders)
BOX 29	(6 folders)
BOX 30	(3 folders)
BOX 30	1971 (2 folders)
BOX 30	1972 (1 folder)
BOX 31	(5 folders)
BOX 32	(1 folder)
BOX 32	1973 (5 folders)
BOX 32	1974
BOX 33	1975 (5 folders)
BOX 34	(2 folders)
BOX 34	Undated (5 folders)
BOX 35	Monographs
BOX 35	<i>Gunsite Mark 15 for the Control of Short and Medium-Range Antiaircraft Fire from Naval Vessels, 1947-1949</i> (3 folders)
BOX 36	(3 folders)
BOX 37	(1 folder)
BOX 37	<i>Instrument Engineering</i>
BOX 37	Drafts
BOX 37	First draft

## Speeches and Writings, 1933-1978

### Container

### Contents

---

BOX 37	Chapters 1-5, 1939, undated (6 folders)
BOX 38	Chapter 6, undated
BOX 38	Second draft, chapters 1-5, undated (4 folders)
BOX 38	Third draft, chapters 2-7, 1940, undated (7 folders)
BOX 38	Fourth draft, chapters 1-5, undated (5 folders)
BOX 39	Fifth draft, chapters 1-3, 1941, undated (3 folders)
BOX 39	Sixth draft, chapters 1-2, undated (2 folders)
BOX 39	Seventh draft, chapter 1, 1941
BOX 39	Eighth draft, chapter 1, 1945-1946
BOX 39	Miscellaneous drafts, chapters 5-6, 9, undated
BOX 39	Preliminary printed drafts
BOX 39	"Notes on <i>Instrument Engineering</i> ," 1950
BOX 39	Chapters 1-13, 1951
BOX 40	Chapters 14-20, 1951 (5 folders)
BOX 40	Chapters 14-20, 1952 (2 folders)
BOX 40	Chapters 21-27, 1953
BOX 40	Chapters 21-27, 1953
BOX 41	Chapters 28-33, 1954
BOX 41	Chapters 36, circa 1955-1958, undated
BOX 41	Chapter 37
BOX 41	General, circa 1955-1958, undated
BOX 41	Illustrations, circa 1955-1958, undated (2 folders)
BOX 41	Text, circa 1955-1958, undated
BOX 42	Chapter 38, circa 1955-1958, undated
BOX 42	Other
BOX 42	Illustrations, 1941, undated
BOX 42	Lists, symbols, and illustrations, undated
BOX 42	References for chapter 3, 1941, undated
BOX 42	<i>Principles of Optimizing Control Systems and an Application to the Internal Combustion Engine</i> , 1949-1954, undated
BOX 42	Speeches
BOX 42	1933, 1955-1964 (3 folders)
BOX 43	1965-1978, undated (4 folders)
BOX 43-48	<b>Miscellany, 1917-1974</b> Awards, citations, scrapbooks, photographs, catalogs, scientific papers, invitations, greeting cards and postcards, subject files, and other miscellaneous material.

## Miscellany, 1917-1974

### Container

### Contents

---

Organized alphabetically by type of material, organization, or subject.

BOX 43	Arthur Murray Dance Studio, 1972-1973, undated
BOX 43	General, 1972-1973, undated
BOX 43	Photographs, 1971-circa 1973
BOX 43	Awards and certificates
BOX 43	Album 1, 1917-1963 (1 folder)
BOX 44	(2 folders)
BOX 44	Album 2, 1964-1974 (2 folders)
BOX 44	Album 3, 1970-1974 (3 folders)
BOX 45	Alphabetical file, 1958-1974, undated (2 folders)
BOX 45	Armed forces, 1945-1970, undated
BOX 45	Daniel Guggenheim medal, 1966-1967
BOX 45	Howard N. Potts medal, 1960-1965, undated
BOX 45	National Aeronautics and Space Administration, 1967-1969, undated
BOX 45	National Medal of Science, 1964-1971
BOX 45	National Society of Professional Engineers Award, 1962
BOX 45	Bohemian Grove, Monte Rio, Calif., 1962-1973 (2 folders)
BOX 46	Catalog of Draper Papers, 1973 (4 folders)
BOX 46	Ephemera, 1917-1965, undated
BOX 46	Greeting cards and postcards, 1961-1973, undated (3 folders)
BOX 47	Invitations, 1960-1973, undated (3 folders)
BOX 47	Malina, Frank J., 1964-1966, undated
BOX 47	Photographs, 1941-1973, undated (5 folders)
BOX 48	Patents, 1950
BOX 48	Pilot training and general flight material, 1929-1934 (2 folders)
BOX 48	Print and near-print material
BOX 48	Scientific papers, 1922-1969, undated (3 folders)
BOX 48	Other, 1957-1968
BOX 48	Scrapbooks, 1925, 1960-1967, undated (2 folders)
BOX OV 1	<b>Oversize, 1939</b> Blueprints related to Curtiss-Wright Corp. consultant project. Organized and described according to the series from which the items were removed.
BOX OV 1	Professional file

**Oversize, 1939**

*Container*

*Contents*

---

**BOX OV 1**

Consultant file

**BOX OV 1**

Curtiss Propeller Division, Curtiss-Wright Corp., Clifton, N.J.

**BOX OV 1**

Blueprints, 1939 (Container 6)