



Smithsonian

National Air and Space Museum

Willy Ley Papers, 1859-1969, bulk 1930-1969

Mark Kahn

2004



National Air and Space Museum Archives
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Collection Overview

Repository:	National Air and Space Museum Archives
Title:	Willy Ley Papers
Date:	1859-1969 (bulk 1930-1969)
Identifier:	NASM.XXXX.0098
Creator:	Ley, Willy, 1906-1969
Extent:	48.29 Cubic feet (107 Boxes)
Language:	English .
Summary:	This collection consists of Willey Ley's personal files, including his business correspondence, book contracts, and galley proofs, as well as publicity concerning Dr. Ley and his activities, and inquiries and comments from Ley's readership during his tenure as columnist for Galaxy Magazine (1952-1969). The material also includes articles gathered by Ley on topics ranging from astronomy and space travel to biology and natural parks to mythology, psychic phenomena, and UFOs.

Administrative Information

Acquisition Information

Willy Ley Estate, Purchase, unknown, XXXX-0098, not NASM

Other Finding Aids

http://www.nasm.si.edu/research/arch/findaids/ley/ley_frames.html

Other Finding Aids

http://www.nasm.si.edu/research/arch/findaids/pdf/Willy_Ley_Papers.pdf

Restrictions

No restrictions on access

Biographical Note

Willy Ley was a world-renown expert in and proponent of rocketry and space travel. Born in Berlin, Germany on October 2, 1906, Ley attended the Universities of Berlin and Konigsberg and studied astronomy, paleontology, zoology and physics. Beyond these studies however, he developed a passionate interest in rocketry and its potential applications for space travel. Accordingly, he wrote and published his first book, *Die Fahrt in den Weltraum* (Travel in Outer Space) in 1926 and helped found Germany's early rocketry and spaceflight club, Verein fur Raumschiffahrt or VfR (Society for Space Travel) the following year. In 1929, Ley, along with well-known rocketry theorist Hermann Oberth, acted as a technical consultant on Fritz Lang's film, *Frau im Mond* (Woman in the Moon). Throughout the late 1920s and early 1930s, he continued to

write books, as well as numerous articles in German and foreign publications, on the subject of rockets and spaceflight. Once Adolf Hitler took power in 1933, the Nazis pressured Ley to cease publishing his articles in foreign journals and magazines due to rocketry's potential as a weapon in Germany's arsenal. Also, the VfR disbanded during the Nazis' first year in power amid concerns among the membership regarding the interest the German military was taking in their activities. These factors compelled Ley to leave Germany for Britain briefly and then to the U.S. in 1935. He became an American citizen in 1944.

Until World War II, Ley focused his writing career on topics unrelated to rocketry and space travel. He discovered little interest in these fields among the U.S. public. He was successful though, with a number of non-space publications such as *Salamanders and Other Wonders* and *The Lungfish, the Dodo and the Unicorn*. From 1940-44, Ley was science editor of the New York newspaper, *PM* and later lectured as a professor at Fairleigh Dickinson University in New Jersey. He was also a regular contributor to a myriad of magazines, encyclopedias and digests such as *Popular Mechanics*, *Cowles Encyclopedia* and *Galaxy*. However, once World War II began and especially after Germany launched V-2 missile attacks on Britain in 1944, Ley found himself in great demand as an expert in rocketry. Following the end of the war, his writings, lectures and newspaper, radio and television interviews helped to spur even greater public interest in rockets and their potential for space flight. Additionally, his books on this subject were widely read in the U.S. and around the world. First published in 1944, *Ley's Rockets, Missiles, & Space Travel* enjoyed a great deal of popularity and justified numerous printings of revised editions. Other highly successful titles that Ley produced during the 1950s and 1960s included *The Conquest of Space*, *The Conquest of the Moon* (written with Wernher von Braun and astronomer Fred Whipple) and *Beyond the Solar System*. Ley, along with von Braun, artist Chesley Bonestell and others, collaborated on a series of space-themed issues of *Collier's* (1952-54) that helped to foster popular support for future U.S. missions to earth orbit, the moon and the planets.

Aside from his busy career as a prolific author and populizer of rockets and space travel, Ley was also a husband and father of two children. His wife, Olga, was an accomplished ballet dancer, model and author in her own right. The couple had two daughters, Sandra and Xenia. Ley had hoped to attend the Apollo 11 launch at the Kennedy Space Center in Florida but died of a heart attack at his home in Jackson Heights, New York, on June 24, 1969. His death came only four weeks before the launch of mankind's first landing on the moon's surface.

<i>1906 October 2</i>	Ley born in Berlin, Germany
<i>1920 January 11</i>	Smithsonian Institution publishes <i>A Method of Reaching Extreme Altitudes</i> , a pamphlet written by U.S. rocket scientist Dr. Robert H. Goddard
<i>1923</i>	Romanian rocket scientist Hermann Oberth publishes short book, <i>Die Rakete zu den Planetenraumen</i> (<i>The Rocket into Planetary Space</i>)
<i>1926</i>	Ley writes and publishes first book, <i>Die Fahrt in den Weltraum</i> (<i>Travel in Outer Space</i>)
<i>1926 March 16</i>	Goddard successfully launches first liquid-fueled rocket in Auburn, Massachusetts
<i>1927 July 5</i>	Ley helps found Germany's early rocketry and space travel club, <i>Verein für Raumschiffahrt</i> or VfR (<i>Society for Space Travel</i>)
<i>1929</i>	Ley (along with Oberth) acts as a technical consultant for Fritz Lang film, <i>Frau im Mond</i> (<i>Woman in the Moon</i>)
<i>1933 January 30</i>	Adolf Hitler becomes chancellor of Germany
<i>1935</i>	Russian rocket scientist Konstantin Tsiolkovsky dies
<i>1935</i>	Ley leaves Germany for Britain and then to the U.S.
<i>1939 September 1</i>	Germany invades Poland – World War II begins

1940	Ley begins stint as science editor of New York newspaper, PM
1942 October 3	First successful launch of Nazi V-2 (A-4) rocket, Peenemunde, Germany
1944	Ley becomes a U.S. citizen
1944	Ley publishes first edition of book, <i>Rockets</i> (book would eventually see many revised editions and renamed <i>Rockets, Missiles, & Space Travel</i>)
1944 September 7-8	First V-2 rocket attacks on London and Paris
1945 May 8	Germany surrenders to Allies
1945 August 10	Goddard dies
1945 September 2	Japan surrenders to Allies
1945 September 29	Wernher von Braun and other captured German rocket scientists are taken to the U.S.
1945 October	Arthur C. Clarke first proposes concept of communication satellites in <i>Wireless World</i> magazine
1946 April 16	First successful launch by the U.S. of a captured V-2
1950	Ley publishes book, <i>The Conquest of Space</i>
1952	Ley collaborates with von Braun, artist Chesley Bonestell and others on a series of space-themed issues of <i>Collier's</i>
1953	Ley collaborates with von Braun and Fred Whipple and publishes book, <i>The Conquest of the Moon</i>
1957 October 4	Russia's successful launch of first artificial satellite, Sputnik 1
1958 January 31	Successful launch of first U.S. artificial satellite, Explorer 1
1961 April 12	Russia's successful launch of first human into space, Yuri Gagarin aboard Vostok 1
1961 May 5	Successful launch of first U.S. astronaut into space, Alan Shepard aboard Mercury-Redstone 3 (Freedom 7)
1964	Ley collaborates with Bonestell and publishes book, <i>Beyond the Solar System</i>
1969 June 24	Ley dies at his home in Jackson Heights, New York
1969 July 16-24	Flight of Apollo 11 succeeds in landing U.S. astronauts on the moon

Scope and Contents

The Willy Ley Collection reflects Ley's broad, restless curiosity about the world around him. However, the main thrust of this material emphasizes his intense interest in the aerospace field. Ley's significant contributions as a great proponent, theorist and historian of rocketry and space travel are quite evident in this collection.

For the most part, the collection encompasses the years Ley spent in the U.S., roughly, from the mid 1930s to his death in 1969. Accordingly, very little pertaining to Ley's time in the VfR is found here. This wide array of materials was sold to the Smithsonian Institution's National Air and Space Museum (NASM) by Ley's widow, Olga, in 1970.(1) Later that year, NASM personnel traveled to Ley's home in New York to transfer this

collection to the museum. They were careful to maintain the overall order of the collection which reflects its original organizational structure, as well as the research techniques and thinking processes of Ley himself.

The collection of materials listed in the finding aid is arranged into four series. The first series is composed of personal materials that include correspondence, book and article contract materials, galley proofs, manuscript and article drafts, notes, articles, lecture invitations and brochures, photographs, drawings, travel and war-time memorabilia, newspaper and press clippings, book reviews, personal bills and receipts, business cards, children's' report cards and Christmas cards. The materials of this series range in date from the early 1930s to 1969. Except for moving this series to the beginning of the collection, original order was maintained. Additionally, original folder titles were retained (as they were for the rest of the collection). Correspondence, book/article contracts materials, research notes, articles, newspaper and press clippings and miscellaneous personal materials are arranged chronologically while the manuscript drafts, galley proofs and book reviews are organized alphabetically by title.

The second series comprises the bulk --about two-thirds, of the Willy Ley Collection. This series, the aerospace subject files, ranges in date from the late 1800s to 1969, and covers the following topics: biography (Ley and others), aviation, inventions, astronomy, space travel, rockets, artificial satellites, manned space flight, ground support and rocket test centers. The folders include correspondence, photographs, notes, reports, brochures, pamphlets, magazines, articles and newspaper clippings. Original order was maintained for this series. The materials are organized by subject.

The third series consists of printed materials. This series ranges in date from the early 1950s to 1970 and includes various publications (newsletters, pamphlets, journals, reports, directories, magazines and books). Also included are article and newspaper clippings. Ley organized the newsletters by title and then chronologically.

The fourth and final series of this collection contains non-aerospace subject files. Ley's certificates, citations and a scrapbook are found in this series. The certificates and citations are for Ley's civic and professional achievements. The scrapbook contains miscellaneous newspaper clippings regarding rocketry and space travel (in English and German) from the 1930s and 1940s. However, this series, ranging in date from the early 1900s to 1969, mainly encompasses materials not directly related to aviation, rocketry or space travel. Original order was maintained for this series. The materials are organized by subject.

The researcher should note that all the folders (except for those of Series 4) are numbered. This numbering system reflects an effort by NASM's Department of Space History in 1970 to create a rough catalog of the Willy Ley Collection as it was being moved to the museum. Though now obsolete as an index, these penciled numbers were retained and are written in the upper right corner of the folders.

Endnotes: 1. That same year, Mrs. Ley also sold her husband's collection of books and journals to the University of Alabama at Huntsville. Currently, it is known as the Willy Ley Memorial Collection and resides at the University's library. Wernher von Braun and NASA Saturn launch vehicle program manager Arthur Rudolph participated in the dedication ceremony in 1971.

Arrangement

- Series 1: Personal Materials
- Series 2: Aerospace Subject Files
- Series 3: Printed Materials
- Series 4: Non-Aerospace Subject Files

List of Acronyms

AFB: Air Force Base

ARCAS: All-Purpose Rocket for the Collection of Atmospheric Soundings

AS: Apollo-Saturn [spacecraft-launch vehicle stack]
ELDO: European Launcher Development Organization
GALCIT: Guggenheim Aeronautical Laboratory of the California Institute of Technology
GAPA: Ground-to-Air Pilotless Aircraft
GT: Gemini-Titan [spacecraft-launch vehicle stack]
HASP: High Altitude Sounding Projectile
IMP: Interplanetary Monitoring Platform [satellite]
JPL: Jet Propulsion Laboratory [Pasadena, California]
MA: Mercury-Atlas [spacecraft-launch vehicle stack]
MOL: Manned Orbiting Laboratory
NACA: National Advisory Committee for Aeronautics
NACA RM: National Advisory Committee for Aeronautics, Research Memorandum
NACA TM: National Advisory Committee for Aeronautics, Technical Memorandum
NARTS: Naval Air Rocket Test Station
NACA TN: National Advisory Committee for Aeronautics, Technical Note
NASA: National Aeronautics and Space Administration
OGO: Orbiting Geophysical Observatory
OSO: Orbiting Solar Observatory
PET: Propulsion, Experimental
RAT: Rocket-Assisted Torpedo
UFO: Unidentified Flying Object
USSR: Union of Soviet Socialist Republics
VfR: Verein für Raumschiffahrt [Society for Space Travel]

General

Other material: Skin sample from Echo-series satellites.

Names and Subject Terms

This collection is indexed in the online catalog of the Smithsonian Institution under the following terms:

Subjects:

- Periodicals
- Rocketry
- Rockets (Aeronautics)
- Space flight
- Works of art

Types of Materials:

- Correspondence
- Financial records
- Manuscripts
- Photographs
- Publications

Names:

American Interplanetary Society
American Rocket Society
Ley, Willy, 1906-1969
United States. National Aeronautics and Space Administration

Container Listing

Series 1: Personal Materials

Scope and Contents: This series includes personal and business correspondence, book and article contract materials, galley proofs, manuscript and article drafts, notes, articles, lecture invitations and brochures, photographs, drawings, travel and war-time memorabilia, newspaper clippings, book reviews, personal bills and receipts, business cards, report cards from his children and Christmas cards. Correspondence, book/article contracts materials, research notes, articles, newspaper and press clippings and miscellaneous personal materials are arranged chronologically while the manuscript drafts, galley proofs and book reviews are organized alphabetically by title.

Arrangement: Missing Title:

- 1.1: Correspondence
- 1.2: Book/Article Contract Materials
- 1.3: Galley Proofs For Ley Book Projects
- 1.4: Drafts Of Manuscripts, Articles And Lectures
- 1.5: Notes
- 1.6: Articles
- 1.7: Lecture Invitations, Photographs And Brochures
- 1.8: Miscellaneous Materials (Drawings, Maps, Travel And War-Time Memorabilia)
- 1.9: Newspaper And Press Clippings
- 1.10: Reviews Of Ley Books
- 1.11: Personal Bills, Receipts And Address Cards
- 1.12: Miscellaneous Personal Materials Regarding Ley's Wife, Children And Mother-In-Law

1.1: Correspondence

Box 1, Folder 1	Correspondence, 1945-49
Box 1, Folder 2	Correspondence from aerospace and science fiction notables, 1947-69
Box 1, Folder 3	Correspondence, 1949-56
Box 1, Folder 4	Correspondence, 1950-51
Box 1, Folder 5	Correspondence, 1950-55
Box 1, Folder 6	Correspondence, 1952-53
Box 1, Folder 7	Correspondence, 1955-56
Box 1, Folder 8	Correspondence, 1956-62
Box 1, Folder 9	Personal and Business Correspondence, 1956-62 Language: English.

Box 2, Folder 1	Correspondence, 1956-67
Box 2, Folder 2	Correspondence, 1957
Box 2, Folder 3	Correspondence, 1957-65
Box 2, Folder 4	Correspondence, 1958
Box 2, Folder 5	Correspondence, 1959
Box 2, Folder 6	Correspondence, 1960
Box 2, Folder 7	Correspondence, 1960-62
Box 2, Folder 8	Correspondence, 1961
Box 3, Folder 1	Correspondence, 1961-67
Box 3, Folder 2	Correspondence, 1962
Box 3, Folder 3	Correspondence, 1964-69
Box 3, Folder 4	Correspondence, 1968-69
Box 3, Folder 5	Correspondence, 1968-69
Box 3, Folder 6	Correspondence, 1969
Box 3, Folder 7	Correspondence, undated

1.2: Book/article contracts materials are arranged chronologically.

Box 4, Folder 1	Book/article contracts, miscellaneous, 1935-67
Box 4, Folder 2	Book/article contracts, miscellaneous, 1945-65
Box 4, Folder 3	Book/article contracts, miscellaneous, 1953-67
Box 4, Folder 4	Book/article contracts, Viking Press, Inc., 1957-67
Box 4, Folder 5	Book/article contracts, Vox Productions, 1958
Box 4, Folder 6	Book/article contracts, Monastra, Inc., 1959-60
Box 4, Folder 7	Book/article contracts, University of Chicago Press, 1962-65
Box 4, Folder 8	Book/article contracts, MacMillan Company, 1963

Box 4, Folder 9 Book/article contracts, Charles Scribner's Sons, 1964

Box 4, Folder 10 Book/article contracts, Doubleday & Company, 1967

Box 4, Folder 11 Book/article contracts, MacGraw-Hill Book Company, 1967

Box 4, Folder 12 Book/article contracts, Weybright & Talley, Inc., 1967

1.3: Galley proofs for Ley book projects are arranged alphabetically by title.

Box 5, Folder 1 Galley proofs, Another Look at Atlantis, 1969 [1 of 2]

Box 5, Folder 2 Galley proofs, Another Look at Atlantis, 1969 [2 of 2]

Box 5, Folder 3 Galley proofs, Events in Space, 1969 [1 of 2]

Box 5, Folder 4 Galley proofs, Events in Space, 1969 [2 of 2]

Box 5, Folder 5 Galley proofs, Inside the Orbit of Earth, 1968

Box 5, Folder 6 Galley proofs, The Meteorite Craters, 1968 [1 of 3]

Box 6, Folder 1 Galley proofs, The Meteorite Craters, 1968 [2 of 3]

Box 6, Folder 2 Galley proofs, The Meteorite Craters, 1968 [3 of 3]

Box 6, Folder 3 Galley proofs, untitled book on space, undated

1.4: Drafts of articles, manuscripts and lectures are arranged by title, then chronologically.

Box 6, Folder 4 Carbon copy draft, Continental Drift, undated

Box 6, Folder 5 Drafts, Exploration of Space (Realm of Science series), 1961-66

Box 6, Folder 6 Carbon copy drafts of unpublished articles for Galaxy magazine, 1969

Box 6, Folder 7 Carbon copy draft, The Gas Giants, undated

Box 6, Folder 8 Carbon copy draft, If series articles, undated

Box 6, Folder 9 Carbon copy drafts, Moon Book Project, undated

Box 7, Folder 1 Drafts, miscellaneous manuscripts, 1965-68

Box 7, Folder 2 Drafts, miscellaneous book chapters and articles, undated

Box 7, Folder 3	Drafts, miscellaneous book chapters, articles and lectures, undated
Box 7, Folder 4	Drafts, miscellaneous book chapters and articles, undated
Box 7, Folder 5	Drafts, obsolete and unpublished articles, undated

1.5: Ley's research, lecture and library notes are arranged chronologically.

Box 7, Folder 6	Library notes, 1948-58
Box 7, Folder 7	Notes for Project Outer Space with Chesley Bonestell (includes correspondence with Bonestell), 1952-64
Box 8, Folder 1	Notes for Kosmos article, 1960
Box 8, Folder 2	Miscellaneous notes, notebooks and drawings, 1962
Box 8, Folder 3	Miscellaneous notes and manuscripts on astronomy and space travel, 1962-69
Box 8, Folder 4	General lecture notes, 1965-67
Box 8, Folder 5	Notes, Golenpaul (book attempt not carried out), 1966-69
Box 8, Folder 6	Notes, 1968
Box 8, Folder 7	Miscellaneous notes and notebooks, undated
Box 8, Folder 8	Miscellaneous notes and tables for articles, undated

1.6: Articles written by Ley are arranged chronologically.

Box 8, Folder 9	Miscellaneous articles, 1932-68
Box 8, Folder 10	Galaxy articles, 1956-65
Box 9, Folder 1	Cowles Encyclopedia articles, 1965
Box 9, Folder 2	Collier's Encyclopedia space articles reviewed by Ley, 1965-69

1.7: Lecture invitations, photographs and brochures are arranged chronologically.

Box 9, Folder 3	Miscellaneous lecture invitations, 1961-69
Box 9, Folder 4	Miscellaneous lecture invitations, 1962-69

Box 9, Folder 5	Lecture photographs and brochures, Denver space symposium, 1963
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1.8: Miscellaneous materials include drawings, maps, travel and war-time memorabilia and photographs featuring Ley.

Box 9, Folder 6	Drawings by Ley, undated
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Box 9, Folder 7	Drawings by Ley, undated
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Box 9, Folder 8	Drawings for books, etc., by Ley, undated
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Box 9, Folder 9	Maps and map drawings by Ley, undated
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Box 9, Folder 10	Photographs, special occasions with Ley, 1963-67
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Box 9, Folder 11	Photographs and portraits of Ley, undated
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Box 10, Folder 1	Miscellaneous travel and war-time materials (also includes register signed by People who visited Ley family after Willy's death in 1969), 1935-69
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1.9: Newspaper and press clippings featuring Ley are arranged chronologically. This also includes newsletters, brochures and programs featuring Lee.

Box 10, Folder 2	Newspaper and press clippings featuring Ley, 1929-44
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Box 10, Folder 3	Newspaper and press clippings featuring Ley, 1951-56 [1 of 8]
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Box 10, Folder 4	Newspaper and press clippings featuring Ley, 1951-56 [2 of 8]
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Box 10, Folder 5	Newspaper and press clippings featuring Ley, 1951-56 [3 of 8]
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Box 10, Folder 6	Newspaper and press clippings featuring Ley, 1951-56 [4 of 8]
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Box 11, Folder 1	Newspaper and press clippings featuring Ley, 1951-56 [5 of 8]
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Box 11, Folder 2	Newspaper and press clippings featuring Ley, 1951-56 [6 of 8]
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Box 11, Folder 3	Newspaper and press clippings featuring Ley, 1951-56 [7 of 8]
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Box 11, Folder 4	Newspaper and press clippings featuring Ley, 1951-56 [8 of 8]
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Box 11, Folder 5	Newspaper and press clippings featuring Ley, 1957-60 [1 of 4]
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Box 11, Folder 6	Newspaper and press clippings featuring Ley, 1957-60 [2 of 4]
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Box 12, Folder 1	Newspaper and press clippings featuring Ley, 1957-60 [3 of 4]
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Box 12, Folder 2	Newspaper and press clippings featuring Ley, 1957-60 [4 of 4]
Box 12, Folder 3	Newspaper and press clippings featuring Ley, 1957-61 [1 of 2]
Box 12, Folder 4	Newspaper and press clippings featuring Ley, 1957-61 [2 of 2]
Box 12, Folder 5	Newsletters, brochures, programs and drawing featuring Ley, 1957-62
Box 12, Folder 6	Newspaper and press clippings featuring Ley, 1958-62 [1 of 2]
Box 13, Folder 1	Newspaper and press clippings featuring Ley, 1958-62 [2 of 2]
Box 13, Folder 2	Newspaper and press clippings featuring Ley, 1959-64 [1 of 4]
Box 13, Folder 3	Newspaper and press clippings featuring Ley, 1959-64 [2 of 4]
Box 13, Folder 4	Newspaper and press clippings featuring Ley, 1959-64 [3 of 4]
Box 13, Folder 5	Newspaper and press clippings featuring Ley, 1959-64 [4 of 4]
Box 13, Folder 6	Newspaper and press clippings featuring Ley, 1959-65
Box 13, Folder 7	Newspaper and press clippings featuring Ley, 1961

1.10: Reviews of Ley books are arranged alphabetically by title.

Box 14, Folder 1	Reviews (German), A History of Astronomy from Babylon to the Space Age, 1965
Box 14, Folder 2	Reviews (German), A History of Astronomy from Babylon to the Space Age, 1966-67
Box 14, Folder 3	Reviews, Watchers of the Skies, 1963-64

1.11: Personal Bills, Receipts And Address Cards

Scope and Contents:	Miscellaneous personal bills, receipts, correspondence, business and address cards are arranged chronologically
Box 14, Folder 4	Miscellaneous receipts, bills, business cards and correspondence, 1957-65
Box 14, Folder 5	Miscellaneous receipts, 1959-66 [1 of 2]
Box 14, Folder 6	Miscellaneous receipts, 1959-66 [2 of 2]
Box 14, Folder 7	Miscellaneous receipts and correspondence, 1961-69

Box 14, Folder 8 Miscellaneous business and address cards, n.d. [1 of 2]

Box 15, Folder 1 Miscellaneous business and address cards, n.d. [2 of 2]

1.12: Miscellaneous Personal Materials Regarding Ley's Wife, Children And Mother-In-Law

Scope and Contents: Miscellaneous personal materials regarding Ley's wife (Olga), two daughters (Sandra and Xenia) and his wife's mother (Dr. Maria Feldman) are arranged chronologically. This material includes correspondence, articles and newspaper clippings, photographs, Christmas cards, the children's report cards, articles and brochures.

Box 15, Folder 2 Articles and newspaper clippings featuring Olga Ley, 1938-54

Box 15, Folder 3 Articles and brochures featuring Olga Ley and dance, 1940-45

Box 15, Folder 4 Manuscript mailings list, Olga Ley, 1947-53

Box 15, Folder 5 Miscellaneous report cards, certifications, brochures and magazines, Xenia Ley, 1947-59

Box 15, Folder 6 Miscellaneous report cards, certificates, photographs and newspaper clippings, Sandra Ley, 1950-58

Box 15, Folder 7 Miscellaneous correspondence, receipts and notes regarding Dr. Maria Feldman, 1956-57

Box 15, Folder 8 Christmas cards, Olga Ley, n.d. [1 of 2]

Box 16, Folder 1 Christmas cards, Olga Ley, n.d. [2 of 2]

Box 16, Folder 2 Photographs, Olga Ley, undated

Box 16, Folder 3 Short story written by Olga Ley, The Item, undated

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Series 2: Subject Files

Scope and Contents: This series, ranging in date from the late 1800s to 1969, includes all of Ley's subject files relating to the fields of rocketry and space travel. Topics include biography (includes Ley and others), inventions, aviation, astronomy, space travel, rockets, artificial satellites, manned space flight, ground support and rocket test centers. The folders include correspondence, photographs, notes, reports, brochures, pamphlets, magazines, articles and newspaper clippings. The materials are organized by subject. Original order for the folders was maintained throughout this series.

Arrangement: Missing Title:

- 1.1: Biography
- 1.2: Aviation
- 1.3: Inventions
- 1.4: Astronomy
- 1.5: Space Travel
- 1.6: Rockets
- 1.7: Artificial Satellites
- 1.8: Manned Space Flight
- 1.9: Ground Support
- 1.10: Rocket Test Centers

2.1: Biography materials

Arrangement: Materials are arranged in the original order.

Box 16, Folder 4	Biography, 1920-28
Box 16, Folder 5	Biography, 1958-69
Box 16, Folder 6	Biography, 1959-69
Box 16, Folder 7	Biography, 1958-67

2.2: Aviation materials

Arrangement: Materials are arranged in the original order.

Box 16, Folder 8	Aviation, general, 1948-69
Box 16, Folder 9	Aviation, general, 1959-69
Box 16, Folder 10	Aviation, patents, 1882-1905

2.3: Inventions materials

Arrangement: Materials are arranged in the original order.

Box 17, Folder 1	Inventions, Bertholdus Niger and the early history of gunpowder, 1930-55
Box 17, Folder 2	Inventions, Herman Ganswindt, 1928-34

Box 17, Folder 3	Inventions, solar energy, 1939-63
Box 17, Folder 4	Inventions, thermal low level difference machinery, 1934-54
Box 17, Folder 5	Inventions, utilization of volcanic heat, 1925-61
Box 17, Folder 6	Inventions, wind power plants, 1936-56

2.4: Astronomy materials

Arrangement: Materials are arranged in the original order.

Box 17, Folder 7	Astronomy, 1949-69
Box 17, Folder 8	Astronomy, 1939-69
Box 18, Folder 1	Astronomy, 1939-69
Box 18, Folder 2	Astronomy, 1939-69
Box 18, Folder 3	Astronomy, 1942-69
Box 18, Folder 4	Astronomy, 1957-69
Box 18, Folder 5	Astronomy, methodology, 1942-65
Box 18, Folder 6	Astronomy, cosmology, 1968
Box 18, Folder 7	Astronomy, extraterrestrial life, 1935-68
Box 18, Folder 8	Astronomy, myths, 1937-60
Box 18, Folder 9	Astronomy, myths, Great Pyramid, 1952-69
Box 19, Folder 1	Astronomy, myths, astrology, 1938-62
Box 19, Folder 2	Astronomy, myths, Horbiger, 1917-47
Box 19, Folder 3	Astronomy, myths, Velikovsky, 1950-65
Box 19, Folder 4	Astronomy, historical notes, Classic period (before 500 A.D.), 1933-65
Box 19, Folder 5	Astronomy, history, Stonehenge, 1941-66
Box 19, Folder 6	Astronomy, historical notes, Dr. Grant McColley, undated
Box 19, Folder 7	Astronomy, historical notes, Nicholas Copernicus, 1943-60

Box 19, Folder 8	Astronomy, history, Tycho Brache and Johannes Kepler, 1941-68
Box 19, Folder 9	Astronomy, history, Galileo Galilei, 1942-62
Box 19, Folder 10	Astronomy, history, Isaac Newton, 1942-62
Box 19, Folder 11	Astronomy, history, Edmond Halley, 1947-67
Box 19, Folder 12	Astronomy, historical notes, (1600-1800), 1937-66
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2.5: Space travel materials

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Box 30, Folder 4	Space travel, Hermann Oberth, 1928-63
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Box 31, Folder 2	Space travel, Vienna Group (von Hoefft, von Pirquet), 1929-60
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Box 31, Folder 4	Space travel, VfR, Raketenflugplatz, photographs, 1931-32
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Box 31, Folder 9	Space travel, other nations, general, 1960-69
Box 31, Folder 10	Space travel, East Germany (special issue W.F.), 1956
Box 31, Folder 11	Space travel, Soviet Union, general, 1958-65
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Box 32, Folder 6	Space travel, NACA TN 4276 (entry into planetary atmosphere), 1958-61
Box 32, Folder 7	Space travel, reentry (unmanned), 1958-61
Box 32, Folder 8	Space travel, orbits to Mars, 1955-61
Box 32, Folder 9	Space travel, professor H.F. MacNeish, Elementary Mathematical Theory of Exterior Ballistics, 1942
Box 32, Folder 10	Space travel, clock paradox, 1957-61
Box 32, Folder 11	Space travel, interstellar flight, 1960-62
Box 33, Folder 1	Space travel, planetary travel, 1958-68
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Box 33, Folder 3	Space travel, early history, 1920-58
Box 33, Folder 4	Space travel, Mars Project (W.v.B.), [Wernher von Braun] 1952-63, 1952-63
Box 33, Folder 5	Space travel, moon trip (W.v.B.), [Wernher von Braun] 1950-53, 1950-53
Box 33, Folder 6	Space travel, early fiction (reviews), 1930-54
Box 33, Folder 7	Space travel, Walt Disney's Man in Space, 1954-55
Box 33, Folder 8	Space travel, Destination Moon, 1950
Box 33, Folder 9	Space travel, Frau im Mond, 1929-72
Box 33, Folder 10	Space travel, 2001, 1968
Box 34, Folder 1	Space travel, science fiction, miscellaneous, 1937-64
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Box 34, Folder 4	Space travel, space law, John Cobb Cooper, 1958
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Box 34, Folder 6	Space travel, space law, politics, public opinion and education, 1958-68
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Box 36, Folder 1	Space travel, space medicine, cabin oxygen supply, 1949-62
Box 36, Folder 2	Space travel, space medicine, decompression and related facts, 1953
Box 36, Folder 3	Space travel, space medicine, high "g" tests, 1949-59
Box 36, Folder 4	Space travel, space medicine, zero-g research, 1942-61
Box 36, Folder 5	Space travel, space medicine, prediction of radiation dosage, 1960
Box 36, Folder 6	Space travel, space medicine, radiation hazard, 1952-62
Box 36, Folder 7	Space travel, space medicine, space foods, 1956-62
Box 36, Folder 8	Space travel, space medicine, the environment of space, 1957-60
Box 36, Folder 9	Space travel, space medicine, cabin simulator, 1957-62
Box 36, Folder 10	Space travel, space medicine, Project Man High, 1957-61
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Box 37, Folder 2	Space travel, space medicine, reclamation of human waste, 1960
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Box 37, Folder 6	Space travel, space medicine, bibliography, 1958
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2.6: Rockets-related materials

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Box 38, Folder 4	Rockets, Maul's camera rockets and unusual applications, 1897-1939
Box 38, Folder 5	Rockets, the Hail Fighters, 1933-67
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Box 38, Folder 8	Rockets, body rockets, 1958-61
Box 38, Folder 9	Rockets, rocket airplanes, German, general, 1945-46
Box 38, Folder 10	Rockets, rocket aircraft (1800-1914), 1924-42
Box 38, Folder 11	Rockets, miscellaneous German patents, 1905-41
Box 38, Folder 12	Rockets, rocket airplane models, 1944
Box 38, Folder 13	Rockets, Alexander Ananoff, 1934-47
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Box 38, Folder 15	Rockets, Luigi Gussalli, 1939
Box 38, Folder 16	Rockets, Nikolai Ivanovitch Kibaltchitch, 1932
Box 38, Folder 17	Rockets, Dr. Eugen Sanger, 1934-64
Box 39, Folder 1	Rockets, Sanger's antipodal bomber, 1948-52
Box 39, Folder 2	Rockets, Dr. Sanger, NACA TM-1012, translation of Flug Sonderheft, 1942
Box 39, Folder 3	Rockets, Friedrich Schmiedl, 1933-64
Box 39, Folder 4	Rockets, Reinhold Tilling, 1932-33
Box 39, Folder 5	Rockets, Louis Damblanc, Les Fusees Autopropulsives a Explosifs, undated
Box 39, Folder 6	Rockets, Raumschiffbahnen, undated
Box 39, Folder 7	Rockets, report, Die Rakete als Kraftmaschine, M. Schrenk, October 13, 1928
Box 39, Folder 8	Rockets, doubtful reports and unintentional hoaxes, 1931-42
Box 39, Folder 9	Rockets, Fischer Hoax, etc., 1933-39
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Box 40, Folder 5	Rockets, German war research, miscellaneous, 1939-48
Box 40, Folder 6	Rockets, German interrogations of researchers, 1945

Box 40, Folder 7	Rockets, World War II, German missiles, general articles, 1946-48
Box 40, Folder 8	Rockets, World War II, German missiles, summary report, 1946
Box 40, Folder 9	Rockets, World War II, German, HWK rocket motors, 1943-46
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Box 40, Folder 11	Rockets, World War II, German, NACA TM-1170, 1943
Box 40, Folder 12	Rockets, World War II, German, NACA TM-1140, 1947
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Box 41, Folder 9	Rockets, World War II, German, A-4, guiding and control, 1946-49
Box 41, Folder 10	Rockets, World War II, German, A-4 development (Peenemunde), 1945-56
Box 41, Folder 11	Rockets, World War II, German, news stories, 1943-50
Box 41, Folder 12	Rockets, World War II, German A-4, general descriptions, 1945-49
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Box 41, Folder 16	Rockets, World War II, German, A-9 and A-10, 1944-48

Box 41, Folder 17	Rockets, World War II, Germany, NACA TM-1144, Busemann report, 1947
Box 41, Folder 18	Rockets, World War II, Germany, NACA TM-1145, Zborowski report, 1947-48, 1947-48
Box 42, Folder 1	Rockets, World War II, Germany, report by Damkoehler and Eggersgluess, 1947, 1947
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Box 42, Folder 9	Rockets, Germany, Pullenberg, 1949
Box 42, Folder 10	Rockets, report, Die Rakete fur flussige Treibstoffe, Otto Wiemer, 1936
Box 42, Folder 11	Rockets, rocket motors (liquid), general descriptions, 1946-57
Box 42, Folder 12	Rockets, rocket motors (liquid), design detail, 1948-56
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Box 44, Folder 6	Rockets, space travel, ion propulsion, engine problems, Eilenberg/Huebner, 1959, 1959
Box 44, Folder 7	Rockets, space travel, nuclear energy propulsion, 1946-60
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Box 44, Folder 9	Rockets, space travel, nuclear space vehicle, Ehricke, 1957
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Box 47, Folder 3	Rockets, nozzle design, NACA TN-1757, 1948
Box 47, Folder 4	Rockets, results of tests of nozzles, NACA TM-1066, 1944
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Box 47, Folder 8	Rockets, NACA TM-1058, 1944
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Box 48, Folder 1	Rockets, Reaction Motors, Inc., 1945-56
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Box 68, Folder 1	Artificial satellites, Japan, 1966
Box 68, Folder 2	Artificial satellites, orbital vehicle, various proposals, 1946-56

Box 68, Folder 3 Artificial satellites, space vehicles, 1967-69

Box 68, Folder 4 Artificial satellites, rocket-propelled, general papers, 1949-57

2.8: Manned space flight materials

Arrangement: Materials are arranged in the original order.

Box 68, Folder 5 Manned space flight, U.S., Bell X-1, 1946-62

Box 68, Folder 6 Manned space flight, U.S., Bell X-1A and X-2, 1951-57

Box 68, Folder 7 Manned space flight, U.S., X-15, 1961-68

Box 68, Folder 8 Manned space flight, U.S., X-15 (sub-orbital), 1958-62

Box 68, Folder 9 Manned space flight, U.S., X-15, the flights, 1958-63

Box 68, Folder 10 Manned space flight, U.S., Douglas Skyrocket, 1947-53

Box 68, Folder 11 Manned space flight, U.S., Dyna-Soar, 1958-62

Box 68, Folder 12 Manned space flight, U.S., Dyna-Soar, 1957-61

Box 68, Folder 13 Manned space flight, U.S., Project Mercury, general articles, 1959-62

Box 69, Folder 1 Manned space flight, U.S., Project Mercury, early unmanned test shots, 1960-61, 1960-61

Box 69, Folder 2 Manned space flight, U.S., Project Mercury, the capsule, 1960-61

Box 69, Folder 3 Manned space flight, U.S., Mercury-Redstone program, 1958-63

Box 69, Folder 4 Manned space flight, U.S., Project Mercury, orbit of dummy, 1961

Box 69, Folder 5 Manned space flight, U.S., Project Mercury, Little Joe, 1959-60

Box 69, Folder 6 Manned space flight, U.S., Mercury-Redstone 2 (MR-2), sub-orbital, chimpanzee "Ham", 1960-61

Box 69, Folder 7 Manned space flight, U.S., Mercury-Redstone 3 (MR-3), Alan B. Shepard, 1961, 1961

Box 69, Folder 8 Manned space flight, U.S., Mercury-Redstone 4 (MR-4), Virgil I. Grissom, 1961-62

Box 69, Folder 9 Manned space flight, U.S., Mercury-Atlas 5 (MA-5), orbital, chimpanzee "Enos", 1961-62

Box 69, Folder 10	Manned space flight, U.S., Mercury-Atlas 6 (MA-6), orbital, John H. Glenn, 1961-63
Box 69, Folder 11	Manned space flight, U.S., Mercury-Atlas 6 (MA-6), newspaper clippings, 1962, 1962
Box 69, Folder 12	Manned space flight, U.S., Mercury-Atlas 7 (MA-7), orbital, Malcolm S. Carpenter, 1962
Box 69, Folder 13	Manned space flight, U.S., Mercury-Atlas 8 (MA-8), orbital, Walter M. Schirra, 1962
Box 69, Folder 14	Manned space flight, U.S., Mercury-Atlas 9 (MA-9), orbital, L. Gordon Cooper, 1963
Box 69, Folder 15	Manned space flight, U.S., Mercury/Gemini programs, 1961-66
Box 70, Folder 1	Manned space flight, U.S., Mercury/Gemini, general, 1962-67
Box 70, Folder 2	Manned space flight, U.S., Project Gemini, preliminary articles, 1961-66
Box 70, Folder 3	Manned space flight, U.S., Gemini 1 (GT-1), 1964
Box 70, Folder 4	Manned space flight, U.S., Gemini 2 (GT-2), 1964
Box 70, Folder 5	Manned space flight, U.S., Gemini 3 (GT-3), 1965
Box 70, Folder 6	Manned space flight, U.S., Gemini 4 (GT-4), 1965
Box 70, Folder 7	Manned space flight, U.S., Gemini 5 (GT-5), 1965
Box 70, Folder 8	Manned space flight, U.S., Gemini 6-7 (GT-6 and GT-7), 1963-65
Box 71, Folder 1	Manned space flight, U.S., Gemini 8 (GT-8), 1966
Box 71, Folder 2	Manned space flight, U.S., Gemini 9 (GT-9), 1966
Box 71, Folder 3	Manned space flight, U.S., Gemini 10 (GT-10), 1966
Box 71, Folder 4	Manned space flight, U.S., Gemini 11 (GT-11), 1966
Box 71, Folder 5	Manned space flight, U.S., Gemini 12 (GT-12), 1966
Box 71, Folder 6	Manned space flight, U.S., Project Apollo, 1961-69
Box 71, Folder 7	Manned space flight, U.S., Project Apollo, general information (abort tests, modifications, etc.), 1963-69
Box 71, Folder 8	Manned space flight, U.S., Project Apollo, New York Times story, 1962

Box 72, Folder 1	Manned space flight, U.S., Apollo/Saturn (early), 1962-68
Box 72, Folder 2	Manned space flight, U.S., Apollo-Saturn 201 and 203 (AS-201 and 203), 1966
Box 72, Folder 3	Manned space flight, U.S., Apollo 4-6, 1967-68
Box 72, Folder 4	Manned space flight, U.S., Apollo 204 disaster, 1967
Box 72, Folder 5	Manned space flight, U.S., Apollo fire disaster results, 1967-68
Box 72, Folder 6	Manned space flight, U.S., Apollo 7, 1968
Box 72, Folder 7	Manned space flight, U.S., Apollo 8-11, 1968-69 [1 of 3]
Box 72, Folder 8	Manned space flight, U.S., Apollo 8-11, 1968-69 [2 of 3]
Box 72, Folder 9	Manned space flight, U.S., Apollo 8-11, 1968-69 [3 of 3]
Box 73, Folder 1	Manned space flight, U.S., Project Apollo, miscellaneous, 1963-69
Box 73, Folder 2	Manned space flight, U.S., Project Apollo, miscellaneous, 1965-69 [1 of 2]
Box 73, Folder 3	Manned space flight, U.S., Project Apollo, miscellaneous, 1965-69 [2 of 2]
Box 73, Folder 4	Manned space flight, U.S., Project Apollo, miscellaneous, 1967-69
Box 73, Folder 5	Manned space flight, U.S., Project Apollo and post-Apollo, 1963-69
Box 73, Folder 6	Manned space flight, USSR, Vostok 1, Yuri Gagarin's flight, 1961-65
Box 74, Folder 1	Manned space flight, USSR, Vostok 3, 1962
Box 74, Folder 2	Manned space flight, USSR, Vostok 4, 1962
Box 74, Folder 3	Manned space flight, USSR, Soyuz 1, 1967
Box 74, Folder 4	Manned space flight, USSR, Voskhod, 1965
Box 74, Folder 5	Manned space flight, space vehicles, 1960-69 [1 of 3]
Box 74, Folder 6	Manned space flight, space vehicles, 1960-69 [2 of 3]
Box 74, Folder 7	Manned space flight, space vehicles, 1960-69 [3 of 3]
Box 74, Folder 8	Manned space flight, MOL (preliminary), 1964-68
Box 74, Folder 9	Manned space flight, space stations and space vehicles, 1948-68

Box 74, Folder 10	Manned space flight, space station (Wernher von Braun), 1949-62
Box 74, Folder 11	Manned space flight, space station (Goodyear Aircraft), 1960-62
Box 74, Folder 12	Manned space flight, small space stations, 1956-61
Box 75, Folder 1	Manned space flight, lifting reentry vehicles, 1960-61
Box 75, Folder 2	Manned space flight, space vehicles, space stations, 1958-68
Box 75, Folder 3	Manned space flight, reentry (manned), 1957-61
Box 75, Folder 4	Manned space flight, moon travel, general, 1956-68
Box 75, Folder 5	Manned space flight, manned lunar landing, 1961-62
Box 75, Folder 6	Manned space flight, trajectory for lunar landings, 1958-61
Box 75, Folder 7	Manned space flight, lunar trajectories, 1961-62
Box 75, Folder 8	Manned space flight, lunar soft landing systems, 1961
Box 75, Folder 9	Manned space flight, lunar surface vehicles, 1963-66
Box 75, Folder 10	Manned space flight, lunar base (articles prior to 1950), 1940-48
Box 75, Folder 11	Manned space flight, lunar base, 1958-62
Box 76, Folder 1	Manned space flight, travel to Mars and other planets, 1958-69
Box 76, Folder 2	Manned space flight, mission to Mars, 1960-62
Box 76, Folder 3	Manned space flight, extraterrestrial colonies, 1960

2.9: Ground support materials

Arrangement: Materials are arranged in the original order.

Box 76, Folder 4	Ground support, NASA, 1958-69
Box 76, Folder 5	Ground support, simulations, electronics, etc., 1957-69
Box 76, Folder 6	Ground support, tracking and simulations, 1958-68
Box 76, Folder 7	Ground support, tracking of artificial satellites, 1957-63
Box 76, Folder 8	Ground support, communication with vessels enroute, 1961-62

2.10: Rocket test centers materials

Arrangement: Materials are arranged in the original order.

Box 76, Folder 9	Rocket test centers, Cape Canaveral (Atlantic Missile range), 1949-62
Box 76, Folder 10	Rocket test centers, Edwards AFB (Muroc Dry Lake), 1948-57
Box 76, Folder 11	Rocket test centers, Mississippi Test Facility, 1962
Box 76, Folder 12	Rocket test centers, Pt. Arguello and Pt. Magu, California, 1948-62
Box 76, Folder 13	Rocket test centers, Vandenberg AFB, 1958-64
Box 76, Folder 14	Rocket test centers, Wallop's Island, 1961-62
Box 76, Folder 15	Rocket test centers, White sands, New Mexico, 1962
Box 76, Folder 16	Rocket test centers, Woomera (Australia), 1947-67

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Series 3: Printed Materials

Scope and Contents: This series, ranging in date from the early 1950s to 1970, includes various publications (newsletters, pamphlets, journals, reports, directories, magazines and books). Also included are article and newspaper clippings. Ley organized the newsletters by title and then chronologically.

Arrangement: Various Publications (Newsletters, Pamphlets, Journals, Reports, Directories, Magazines, Books, Articles And Newspaper Clippings)

Box 77, Folder 1	Newsletters, Marshall Star, NASA/Marshall Space Flight Center, 1963
Box 77, Folder 2	Newsletters, Marshall Star, NASA/Marshall Space Flight Center, 1964
Box 77, Folder 3	Newsletters, Marshall Star, NASA/Marshall Space Flight Center, 1965
Box 77, Folder 4	Newsletters, Marshall Star, NASA/Marshall Space Flight Center, 1966
Box 77, Folder 5	Newsletters, Marshall Star, NASA/Marshall Space Flight Center, 1967
Box 78, Folder 1	Newsletters, Marshall Star, NASA/Marshall Space Flight Center, 1968
Box 78, Folder 2	Newsletters, Marshall Star, NASA/Marshall Space Flight Center, 1969-70
Box 78, Folder 3	Newsletters, Spaceport News, NASA/Kennedy Space Center, 1962-63
Box 78, Folder 4	Newsletters, Spaceport News, NASA/Kennedy Space Center, 1963-64
Box 78, Folder 5	Newsletters, Holloman, Holloman AFB, June 1971 and Roundup, NASA Manned Spacecraft Center, July 31 and August 14, 1970
Box 78, Folder 6	Newsletters, Booster, Aerojet General, 1963-69
Box 78, Folder 7	Pamphlets, regarding U.S./Soviet missiles, rockets and spacecraft, Headquarters, Department of the Army, 1959-61
Box 79, Folder 1	Newsletters, Space Intelligence Notes and Space Information Digest, Space Systems Information Branch, NASA/Marshall Space Flight Center, 1963
Box 79, Folder 2	Newsletters, Space Intelligence Notes and Space Information Digest, Space Systems Information Branch, NASA/Marshall Space Flight Center, 1964
Box 79, Folder 3	Miscellaneous journals, newsletters and reports, 1958-68
Box 79, Folder 4	Miscellaneous magazines, 1952-69
Box 79, Folder 5	Booklets, Manned Space Flight -- 1963, NASA, 1963 and The Science Fiction History of 1956, Fandom House, 1957
Box 79, Folder 6	Miscellaneous newsletters and reports, 1956-68

Box 79, Folder 7	Miscellaneous reports and directories, 1952-68
Box 79, Folder 8	Miscellaneous magazines, 1949-69
Box 80, Folder 1	Magazines, Bunte Illustrated (German), February 1969, 1969
Box 80, Folder 2	Magazines, Bunte Illustrated (German), March 1969, 1969
Box 80, Folder 3	Magazines, miscellaneous, 1951-70
Box 81, Folder 1	Miscellaneous newspaper clippings, articles and reports, 1959-67
Box 81, Folder 2	Newspaper clippings and articles regarding Russian science, technology and inventions, 1946-56
Box 81, Folder 3	Articles and report regarding predictions, 1953-66
Box 81, Folder 4	Newspaper clippings, Mercury MA-9 and Apollo 11 missions, 1963-69
Box 81, Folder 5	Miscellaneous materials, Rocket Research Institute, 1952
Box 81, Folder 6	Press releases, Rocket Research Institute, 1956
Box 81, Folder 7	Miscellaneous materials, Rocket Research Institute, 1957
Box 81, Folder 8	Pamphlets and articles, Rocket Research Institute, 1958
Box 81, Folder 9	NASA press releases regarding tenth anniversary of NASA's creation, 1968
Box 81, Folder 10	Booklet, Saturn IB News Reference, 1965
Box 81, Folder 11	Booklets and notes regarding artillery, 1949-68
Box 82, Folder 1	NASA Special Publications (NASA SP), 1966
Box 82, Folder 2	Speech, Mission into Space, presented by Clelio Brunetti to the Texas Chemical Council, Austin, Texas, April 28, 1960
Box 82, Folder 3	Report, 1960 Aerospace Forecast of Technical Requirements, Aerospace Industries Association, 1960
Box 82, Folder 4	Booklet, The Proceedings; CHICON III, 20th world science fiction convention, 1962
Box 82, Folder 5	Magazine, Think, vol. 24, no. 7, July 1958 and brochure for Disneyland, 1963
Box 82, Folder 6	Miscellaneous reports, articles and data, measurement conversions, 1948-62

Box 82, Folder 7	Journals, The Info, International Fortean Organization, 1967-68
Box 82, Folder 8	Miscellaneous booklets, 1964-69
Box 82, Folder 9	Miscellaneous magazines, 1961-67
Box 83, Folder 1	Book, The Hollow Earth, by Raymond Bernard, Fieldcrest Publishing, New York, New York, 1964
Box 83, Folder 2	Report, Who Killed Science Fiction?, Sa Fari, 1960
Box 83, Folder 3	Report, Space ... the New Frontier, NASA, 1963
Box 83, Folder 4	Book announcements relating to rockets and space, 1960-64
Box 83, Folder 5	Book announcements relating to rockets and space, 1961-65

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Series 4: Non-Aerospace Subject Files

Scope and Contents: This series, ranging in date from the early 1900s to 1969, encompasses materials not directly related to aviation, rocketry or space travel. Original order was maintained for this series. The materials are organized by subject. Ley's certificates, citations and a scrapbook are also found in this series. The certificates and citations are for Ley's civic and professional achievements. The scrapbook contains miscellaneous newspaper clippings regarding rocketry and space travel (in English and German) from the 1930s and 1940s.

Arrangement: Arranged by: Inventions, Miscellaneous, Biology, Natural History, Atomic Energy, Geology, Cendrillon (Footware), Mythology, Assorted Single Subject Files, Geography

Box 83, Folder 6	Inventions, magnetism, Felix Ehrenhaft, 1944-52
Box 83, Folder 7	Inventions, submarines, 1960-64
Box 83, Folder 8	Inventions, maser and laser, 1962-64
Box 83, Folder 9	Inventions, rain making, 1946-58
Box 83, Folder 10	Inventions, miscellaneous, 1945-55
Box 84, Folder 1	Inventions, submarines, 1903-58
Box 84, Folder 2	Inventions, synthetic rubber, 1941
Box 84, Folder 3	Inventions, history and early ships, 1930-62
Box 84, Folder 4	Inventions, Dutch Delta Plan, 1954-66
Box 84, Folder 5	Inventions, St. Lawrence Project, 1957-58
Box 84, Folder 6	Inventions, Snowy Mountains Project (Australia), 1967
Box 84, Folder 7	Inventions, Atlantropa Plan, 1937-39
Box 84, Folder 8	Inventions, tidal power plants (other than Passamaquoddy), 1966
Box 84, Folder 9	Inventions, the Channel Tunnel, 1942-66
Box 84, Folder 10	Inventions, Gandrillon Plan, 1953-64
Box 84, Folder 11	Inventions, wind power, 1946
Box 85, Folder 1	Inventions, ships, Great Eastern, 1953-54
Box 85, Folder 2	Inventions, propeller railroad, 1935-55
Box 85, Folder 3	Inventions, military, electric gun, 1945-47

Box 85, Folder 4	Inventions, military, projectiles, 1945-51
Box 85, Folder 5	Inventions, military, recoilless guns, 1945-60
Box 85, Folder 6	Inventions, military, Gerlich-type guns, 1946-56
Box 85, Folder 7	Inventions, military, small arms (historical), 1944-57
Box 85, Folder 8	Inventions, carbon-dioxide uses, 1943-44
Box 85, Folder 9	Inventions, special alloys, magnesium, 1937-53
Box 85, Folder 10	Inventions, fibers, synthetic (other than plastic), 1941-58
Box 85, Folder 11	Inventions, rubber, natural, 1940-44
Box 85, Folder 12	Inventions, fibers, natural, 1941-44
Box 85, Folder 13	Inventions, glass, 1939-51
Box 85, Folder 14	Inventions, plastics, general, 1943-46
Box 85, Folder 15	Inventions, magnetic compass, 1938-44
Box 85, Folder 16	Inventions, military, long range guns, 1928-55
Box 85, Folder 17	Inventions, plastics, transparent, 1941-54
Box 86, Folder 1	Inventions, C14 method of dating, 1941-61
Box 86, Folder 2	Inventions, history, ancient batteries, 1939-59
Box 86, Folder 3	Inventions, aluminum, 1939-60
Box 86, Folder 4	Inventions, history, Middle Ages, 1940-66
Box 86, Folder 5	Inventions, poison gas, 1941-53
Box 86, Folder 6	Inventions, military, naval mines, 1939-43
Box 86, Folder 7	Inventions, special alloys, nickel, 1951-63
Box 86, Folder 8	Inventions, optics, 1941-67
Box 86, Folder 9	Inventions, special alloys, magnetic, 1940-57
Box 86, Folder 10	Inventions, history, classic period, 1938-60

Box 86, Folder 11	Inventions, deep sea diving, 1954-61
Box 86, Folder 12	Inventions, Project Mohole, 1959-64
Box 86, Folder 13	Inventions, monorail, 1950-64
Box 86, Folder 14	Inventions, special alloys, zirconium, 1951-57
Box 86, Folder 15	Inventions, general, 1962-69
Box 87, Folder 1	Inventions, general, 1917-66
Box 87, Folder 2	Inventions, general, 1953-68
Box 87, Folder 3	Miscellaneous, archeology, 1961-67
Box 87, Folder 4	Miscellaneous, archeology, exploration, 1950-69
Box 87	Miscellaneous, physics, 1949-68
Box 87	Miscellaneous, biology, 1961-68
Box 87	Miscellaneous, natural history, 1950-69
Box 87	Miscellaneous, natural history, 1961-69
Box 88, Folder 1	Miscellaneous, natural history, 1941-68
Box 88, Folder 2	Miscellaneous, ball lightning, 1942-68
Box 88, Folder 3	Miscellaneous, diamonds (natural and artificial), 1955-61
Box 88, Folder 4	Miscellaneous, archeology and paleontology, 1959-61
Box 88, Folder 5	Miscellaneous, civil engineering, 1961-68
Box 88, Folder 6	Miscellaneous, applications for membership to the American Astronautical Society, 1954-64
Box 88, Folder 7	Miscellaneous, applications for membership to the American Astronautical Society, 1954-62
Box 88, Folder 8	Miscellaneous, applications for membership to the American Astronautical Society, 1958-65
Box 88, Folder 9	Miscellaneous, E.S.P. and related subjects, 1952-61
Box 89, Folder 1	Miscellaneous, New York World's Fair, photographs, 1939-40

Box 89, Folder 2	Miscellaneous, household mathematics, 1952-66
Box 89, Folder 3	Miscellaneous, medicine, 1954-64
Box 89, Folder 4	Miscellaneous, natural history, 1915-68
Box 89, Folder 5	Miscellaneous, natural history, 1962-67
Box 89, Folder 6	Biology, general, 1931-66
Box 89, Folder 7	Biology, myths and giants, 1937-52
Box 89, Folder 8	Biology, biotin, 1942-44
Box 89, Folder 9	Biology, protoplasm and silicone life, 1941-68
Box 89, Folder 10	Biology, virus and origin of life, 1941-68
Box 90, Folder 1	Biology, Basilisks and Jenny Hanivers, 1934-61
Box 90, Folder 2	Biology, historical items pertaining to botany, 1941-59
Box 90, Folder 3	Biology, botany in China, 1930-49
Box 90, Folder 4	Biology, the Lysenko case, 1948-61
Box 90, Folder 5	Biology, colchicine, 1940-46
Box 90, Folder 6	Biology, pandas, 1937-66
Box 90, Folder 7	Biology, mammals, marsupials (other than Australian), 1950-57
Box 90, Folder 8	Biology, mammals, prototheria (platypuses), 1944-59
Box 90, Folder 9	Biology, mammals, Madagascar, 1942-67
Box 90, Folder 10	Biology, mammals, insectivora, 1931-66
Box 91, Folder 1	Biology, mammals, armadillos, 1914-42
Box 91, Folder 2	Biology, mammals, pangolins, 1954-63
Box 91, Folder 3	Biology, marine mammals, cetacea, 1939-68
Box 91, Folder 4	Biology, marine mammals, pinnipedia, 1939-66
Box 91, Folder 5	Biology, mammals, chiroptera, 1935-66

Box 91, Folder 6	Biology, mammals, horses, 1942-60
Box 91, Folder 7	Biology, mammals, primates, general, 1940-67
Box 91, Folder 8	Biology, mammals, pygmies, 1950-63
Box 91, Folder 9	Biology, mammals, aardvarks, 1941-58
Box 91, Folder 10	Biology, mammals, giraffes, 1955-59
Box 91, Folder 11	Biology, mammals, camels, 1941-56
Box 91, Folder 12	Biology, mammals, birds, European, 1931-65
Box 91, Folder 13	Biology, birds, kiwis, 1950-60
Box 91, Folder 14	Biology, birds, hens, 1933-56
Box 91, Folder 15	Biology, birds, penguins, 1953-61
Box 92, Folder 1	Biology, birds, pamphlets [including technical manual on the homing pigeon], 1933-40
Box 92, Folder 2	Biology, mammals, rhinoceri and tapirs, 1942-56
Box 92, Folder 3	Biology, hippopotamus and choeropsis, 1943-61
Box 92, Folder 4	Biology, mammals, rodents, 1915-57
Box 92, Folder 5	Biology, mammals, cervidae (deer, antelope, etc.), 1940-56
Box 92, Folder 6	Biology, mammals, elephants, 1940-68
Box 92, Folder 7	Biology, mammals, felidae (cats, leopards, tigers, etc.), 1942-68
Box 92, Folder 8	Biology, mammals, canidae (dogs, wolves, etc.), 1936-66
Box 92, Folder 9	Biology, mammals, suidae (pigs, hogs, etc.), 1936-48
Box 92, Folder 10	Biology, mammals, bears, 1960-67
Box 92, Folder 11	Biology, mammals, sea otters, 1943-60
Box 92, Folder 12	Biology, okapi, 1937-57
Box 92, Folder 13	Biology, mammals, bovidae (cattle), 1939-55
Box 92, Folder 14	Biology, mammals, bos primigenius (bison), 1938-62

Box 92, Folder 15	Biology, mammals, bison (American), 1939-58
Box 92, Folder 16	Biology, mammals, bison (European), 1935-64
Box 92, Folder 17	Biology, mammals, rats, 1931-58
Box 93, Folder 1	Biology, mammals, reports from the American Bison Society, 1930-34
Box 93, Folder 2	Biology, birds, waldrapps, 1917-68
Box 93, Folder 3	Biology, birds, cahows, 1951-67
Box 93, Folder 4	Biology, birds (African), 1936-49
Box 93, Folder 5	Biology, birds (Asian), 1941-53
Box 93, Folder 6	Biology, birds (North American), 1928-68
Box 93, Folder 7	Biology, birds (South American), 1931-64
Box 93, Folder 8	Biology, myths, 1941-44
Box 93, Folder 9	Biology, evolution, 1896-1947
Box 93, Folder 10	Biology, plants, bristlecone pine, 1956-58
Box 93, Folder 11	Biology, history, miscellaneous notes, 1940-59
Box 93, Folder 12	Biology, animal pictures from old books, undated
Box 93, Folder 13	Biology, botany, ginkgo biloba, 1947-48
Box 94, Folder 1	Biology, botany, general, 1923-63
Box 94, Folder 2	Biology, history, Konrad Gesner, 1950-67
Box 94, Folder 3	Biology, plants, fossil ferns, 1936
Box 94, Folder 4	Biology, plants, fungi, 1943-65
Box 94, Folder 5	Biology, history, Konrad von Megenberg, 1928-50
Box 94, Folder 6	Biology, kraken, 1941-67
Box 94, Folder 7	Biology, general, 1937-67
Box 94, Folder 8	Biology, unicorns, 1936-55

Box 94, Folder 9	Biology, unicorns, pamphlets, 1935-41
Box 94, Folder 10	Biology, botany, desert flora (American), 1928-57
Box 94, Folder 11	Biology, botany, sequoiadendron, 1936-52
Box 95, Folder 1	Biology, plants, living fossils, 1935-44
Box 95, Folder 2	Biology, botany, poisonous plants, 1935-53
Box 95, Folder 3	Biology, sea serpents, 1936-53
Box 95, Folder 4	Biology, botany, cycadaceae fossils, 1924-51
Box 95, Folder 5	Biology, botany, sequoia fossils, 1948
Box 95, Folder 6	Biology, bernicula (tree-geese), 1928-41
Box 95, Folder 7	Biology, evolution, history, 1878-1966
Box 95, Folder 8	Biology, botany, plants, sequoia sempervirens, 1943-60
Box 95, Folder 9	Biology, botany, welwitschia mirabilis, 1939
Box 95, Folder 10	Biology, botany, plant fossils, 1963
Box 95, Folder 11	Biology, botany, plants, oddities, 1924-55
Box 95, Folder 12	Biology, botany, lodoicea seychellarum, 1953-55
Box 95, Folder 13	Biology, botany, parasites and epiphytes, 1938-44
Box 95, Folder 14	Biology, botany, plants, metasequoia, 1948-51
Box 95, Folder 15	Biology, botany, Miocene flora from Grand Coulee, Washington, 1931
Box 95, Folder 16	Biology, botany, plants, poisonous, 1938-48
Box 95, Folder 17	Biology, botany, desert flora, Old World, 1938-42
Box 95, Folder 18	Biology, botany, plants, fossil flora (Mississippian), 1936
Box 95, Folder 19	Biology, botany, plants, carnivorous, 1938-43
Box 95, Folder 20	Biology, botany, plants, fossils, carboniferous flora, 1935-63
Box 95, Folder 21	Biology, botany, plants, algae, 1931-55

Box 95, Folder 22	Biology, botany, plants of the Bible, 1941-44
Box 95, Folder 23	Biology, history, biography, 1939-54
Box 96, Folder 1	Natural history, general, 1942-68
Box 96, Folder 2	Natural history, 1944-67
Box 96, Folder 3	Natural history, 1957-69
Box 96, Folder 4	Natural history, 1960-68
Box 96, Folder 5	Atomic energy, substance particles, 1946-62
Box 96, Folder 6	Atomic energy, transuric elements, 1946-61
Box 96, Folder 7	Atomic energy, atomic tables, etc., undated
Box 96, Folder 8	Atomic energy, fallout and related problems, 1949-62
Box 97, Folder 1	Atomic energy, general, 1953-68
Box 97, Folder 2	Atomic energy, general, 1963-66
Box 97, Folder 3	Geology, volcanism, current, 1960-65
Box 97, Folder 4	Geology, volcanism (Holocene period), 1962
Box 97, Folder 5	Geology, earthquakes, 1960
Box 97, Folder 6	Geology, volcanism, Krakatoa, 1946-63
Box 97, Folder 7	Geology, glacial periods, 1930-62
Box 97, Folder 8	Cendrillon, short stories, 1942-60
Box 97, Folder 9	Cendrillon, famous representatives, 1938-63
Box 97, Folder 10	Cendrillon, modern shoes, 1941-64
Box 98, Folder 1	Cendrillon, original (various versions), 1941-55
Box 98, Folder 2	Mythology, gems, 1940-58
Box 98, Folder 3	Mythology, The Flood, 1941
Box 98, Folder 4	Mythology, Michel de Nostredame, 1940-59

Box 98, Folder 5	Mythology, superstitions of the sea, 1939-43
Box 98, Folder 6	Amber, history (including drafts for a writing project), 1940-60
Box 98, Folder 7	Chemistry, the elements, Delaconte project, 1942-66
Box 98, Folder 8	Civil engineering (bridges and dams), 1953-68
Box 98, Folder 9	Elements, the Noble Gases, 1944-58
Box 98, Folder 10	English language, development, 1938-58
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