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# Guide to the Stine (G. Harry) Space History and Model Rocketry Collection

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English

Describing Archives: A Content Standard

1st edition

The Museum of Flight Archives

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## Summary Information

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<b>Repository:</b>	The Museum of Flight Archives
<b>Creator - org:</b>	Stine, G. Harry (George Harry), 1928-1997
<b>Title:</b>	G. Harry Stine Space History and Model Rocketry Collection
<b>ID:</b>	2013-09-17
<b>Date [inclusive]:</b>	1914-2008
<b>Date [bulk]:</b>	1956-1988
<b>Physical Description:</b>	80 Cubic Feet 118 letter size full-width document boxes, 3 legal size full-width document boxes, 5 record cartons, 4 oversize boxes (16 1/2" x 20 1/2" x 3"), 3 oversize boxes (20 1/2" x 24 1/2" x 3), 6 oversize rolled storage boxes, 58 oversize folders (35 3/4" x 47 3/4")
<b>Language of the Material:</b>	English
<b>Language of the Material:</b>	Some materials are in Russian, French, and German. All other materials are in English.
<b>Abstract:</b>	The G. Harry Stine Space History and Model Rocketry Collection encompasses the professional work of G. Harry Stine, the founder of model rocketry in the United States. The collection includes material related to his work in the National Association of Rocketry, drafts of his writings, rocket designs, materials affiliated with model rocketry corporations, and his aeronautical research files.

### Preferred Citation

[folder number] and/or [box number]. G. Harry Stine Space History and Model Rocketry Collection. The Museum of Flight (Seattle, Wash.).

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## Biographical Note: G. Harry Stine

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George Harry Stine (March 26, 1928 – November 2, 1997) was one of the founders of model rocketry and an expert on science and technology. Within the field he worked as a writer, researcher and consultant. In addition, he published as a science fiction author under the penname Lee Correy.

Born in Philadelphia, Pennsylvania to Dr. George H. and Rhea M. Stine, "Harry" Stine grew up in Colorado Springs, which he considered his hometown. He attended both New Mexico Military Institute and Colorado College in Colorado Springs, where graduated with a B.A. in physics in 1952. Upon his graduation he went to work at White Sands Proving Grounds, first as a civilian scientist and then, from 1955–1957, at the U.S. Naval Ordnance Missile Test Facility as head of the Range Operations Division.

While working at White Sands, Stine was involved with high altitude rockets, range flight safety, and rocket motor testing. Additionally, he handled inquiries from young people concerning rockets, which inspired him to write an article in 1957 titled "The World's Safest Business" for *Mechanics Illustrated* about rocket safety. Shortly after the publication of the article, Stine received a letter from Orville H. Carlisle (July 5, 1917 – August 1, 1988) reaching out to share his latest invention, the "Rock-A-Chute". Carlisle appreciated Stine's writing on the subject and asked if he could send Stine a version of his model rocket prototype. Stine was impressed with the samples that Carlisle sent him and wrote a cover article for the October 1957 issue of *Mechanics Illustrated* about the designs. From there, the two began a correspondence and collaborated in the development of model rockets. Stine guided Carlisle on propellant material suitable for his designs and on safety measures he should follow. Through this partnership they opened a hobby rocket business, Model Missiles, Inc., the first manufacturer of model rockets and their engines, in 1957. Vern Estes joined Model Missiles, Inc. developing a machine for the company that mass-produced rocket motors to keep up with growing popularity of the hobby.

Within that same year Stine founded the National Association of Rocketry (NAR). As the founder of the NAR and president until the late 1960s, Stine established the organization's safety code and sporting code, assisted with the design and production of model rockets, developed educational programming, organized NAR competitions, and worked with various sections affiliated with the organization. He served on the board of trustees and various committees affiliated with the NAR, such as the Editorial Board, where he contributed content and edited the *Model Rocketeer*, the NAR magazine.

Stine continued to work to popularize the hobby, writing the *Handbook of Model Rocketry in 1965*, which went on through seven editions over the years. This publication is regarded as the seminal work in writing about model rockets and serves as a source for learning about the hobby. As an avid writer, Stine was a constant contributor to publications like *American Modeler Magazine* and *Model Rocketry Magazine* with the series "Count Down" and "The Old Rocketeer" where he chronicled the development and highlights of the hobby. Other publications he contributed to on the topic of sports rocketry include *Popular Mechanics*, *American Aircraft Modeler*, *Craft, Model and Hobby Industry*, and *Mechanix Illustrated*.

NAR established many formal protocols addressing safety and sporting codes for the sport. Stine produced numerous writings, conducted tests, developed the standards, and made them available to the model rocket users making it a safe and educational activity. As an influential figure in model rocketry the National Fire Protection Agency looked to him to serve as chairman of the Pyrotechnics Committee as a representative for the sports rocketry community to discuss safety concerns; he served on this committee for twenty years.

In addition to serving on organizations and committees related to safety, Stine also served for eleven years on the Federation Aeronautique Internationale (FAI). Through this connection he assisted on the groundwork for international space model rocketry throughout Europe, beginning in the early 1960s. He worked closely with Otakar Saffek to establish the Space Models Subcommittee of the FAI, assisted

with writing the international sporting code for rocketry, and organized large international competitions between various countries, including the United States. In 1985 he was awarded the Paul Tissandier Diploma by the FAI for his life-long contribution to the development of space model rocketry.

Stine had a significant professional career in the field of aeronautics as a researcher, consultant, and author. He began working as a technological forecaster and space planner with the Martin Company in 1957. He was science advisor to CBS-TV News during the Apollo missions. He was a consultant to numerous aeronautical institutes such as the Franklin Institute, the Hudson Institute, and the Institute for the Future. Beginning in 1965, he worked as a researcher and consultant for the National Air and Space Museum (NASM) where he prepared accurate drawings and space control models of twelve historic space launch vehicles and spacecraft, as well as 18 historic aerospace vehicles. Many of these drawings remain in the Museum's collection. He also worked alongside Romanian engineer and inventor Henri Coandă at the Huyck Research Center, where they shared an office from 1961-1965. This led to a lifelong friendship and correspondence between the two. Coandă gifted parts of his personal papers to Stine before his passing in 1972.

From his work in the aerospace industry Stine became very interested in space industrialization and commercialization. Later in life he worked on managing and financing space programs related to space tourism. He founded space travel committees in Arizona and worked as a lead member for the Arizona Space Commission, the Citizen's Advisory Council on National Space Policy, and the Space Access Society. In addition, Stine worked as a primary consultant on the definitive NASA study on space industrialization in 1977-1978.

Stine published actively on aeronautical studies as a science-fact columnist for *Astounding* and its successor *Analog Science Fact and Fiction*. Other publications he contributed to include, *Scientific American and Space Journal*. He also wrote as a science-fiction author under the penname Lee Correy. One of his first works was "Galactic Gadgeteers" for *Astounding* in May 1951. Some of his titles include *Shuttle Down*, *Rocket Man*, *Starship through Space* and a Star Trek novel called *The Abode of Life*.

Stine and his wife Barbara had three children together, Bill, Connie, and Ellie. He included his whole family in the hobby of model rocketry. They frequently assisted and participated in NAR meets. His daughter Ellie Stine was a contestant in the 1st World Space Modeling Championship held in 1972. Stine passed away in his home in Phoenix, Arizona on November 2, 1997.

Source Note: Biographical information derived from the collection and donor information.

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## Scope and Contents

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The G. Harry Stine Space History and Model Rocketry Collection consist of the personal papers of rocket scientist and early model rocket pioneer George Harry Stine. The material in the collection is made up of correspondence, technical drawings, manuscripts, research files, photographic and audiovisual materials, and ephemera. The papers document the founding of the National Association

of Rocketry (NAR), the growth of the model rocketry industry, and other research and developments on rocketry in the latter half of the twentieth century. The collection has been organized in six series: I. Model Rocketry, 1957-2008; II. Writings, 1957-1994; III. Aeronautical Research Files, 1918-1994; IV. Personal and Other Professional Work, 1955-1997; V. Slides and Audiovisual Materials, 1946-1992; and VI. Henri Coanda Archives, 1914-1965. The materials are primarily in English, with a few items in French, German and Russian.

**Series I. Model Rocketry** documents Stine's involvement with the founding of the National Association of Rocketry through early committee records, publications, Plan Program Fact Sheets, safety codes and reports. Included in the material are thousands of photographs illustrating the founding years of the annual model rocket meets held by the organization beginning in the late 1950s. These photographs illustrate early meets and competitions of the NAR, as well as affiliated sections throughout the United States. In addition, there are numerous documents regarding international model rocketry and the symbiotic partnership in developing the hobby between the U.S. and Europe from the 1960s until the late 1980s.

Another set of records consists of Stine's documents on safety codes and regulations pertaining to model rocketry. These records reflect his work on the Pyrotechnics Committee beginning in the early 1970s. The committee worked with the National Fire Protection Agency. Included are correspondence and meeting minutes, as well as documents on fire marshals and the Fire Prevention Committee.

Series I. also includes numerous files on the various corporations who produced model rockets for consumers within the United States; most notably Estes Industries, Centuri Engineering, Inc., Aerospace Vehicles, and Model Missiles, Inc. Within the files there is a large amount of correspondence between Stine and Orville Carlisle who together founded Model Missiles, Inc. beginning in 1957.

**The second series**, is comprised of Stine's writings, including contributions to publications such as American Modeler Magazine and Model Rocketry Magazine, spanning the 1950s to 1980s. These works are all well documented with original drafts of his articles as well as final publications. As part of the manuscript material there are also early versions and revisions of Stine's renowned publication Handbook of Model Rocketry. Included are examples of his notes where he formulates new ideas for model rocket designs.

**Series III. Aeronautical Research Files** is the largest portion of the collection, representing Stine's personal and professional interest in aeronautical research. These files encompass rocket designs and development; space programs within the United States and internationally, predominantly the Soviet Union; aircraft; and aerospace research facilities. A notable aspect of the material is the thousands of oversized technical illustrations of rockets and examples of model rockets designs inspired and based upon rockets listed in the subseries.

**The fourth series** is an assortment of files documenting other personal and professional accomplishments of Stine, such as his contribution to research of commercial space travel, a few examples of his work as a science-fiction writer under the penname Lee Correy, his personal inventories of his model rocket collection, and documents related to his work at White Sands Proving Grounds in the 1950s.

**Series V.** consists of audio-visual materials and 35mm slides. While the subject matter overlaps much of the rest of the collection, the materials were maintained as a series following Stine's original organization

of the collection. There are roughly 3,000 35mm slides related to model rocketry and the various meets and competitions that Stine attended throughout his lifetime. In addition to photo-documentation of model rocketry, there are also slides related to aeronautical research which illustrate individual rockets, manned space flight, and aircrafts. Other formats in the audio-visual subseries are 8mm and 16mm film, VHS, 45-rpm records, a few instances of DVDs and a large grouping of both audiocassette tapes and open-reel magnetic audio recording tape.

The final and smallest series is the personal archives of Henri Coanda, Romanian aeronautical engineer with whom Stine worked at Huyck Research Center in the 1960s, including photographs, designs, and Coanda's handwritten autobiography.

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## Arrangement

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Very little evidential original order was present in the collection upon transfer to the Museum aside from folder titles assigned by Stine which have been retained throughout the collection. After surveying the material the Project Archivist inferred from the context of the records that the collection should be grouped into six main series: Model Rocketry, Writings, Aeronautical Research Files, Personal and Other Professional Work, 35mm Slides and Audiovisual Materials, and Henry Coanda Archives. These were broken down further into subseries that reflected the main themes that correlated to the folder titles Stine assigned to the records. The Project Archivist imposed physical order where necessary to develop groups of related records arranged according to a meaningful theme. The main series and sub-series hierarchy developed a foundation for physically arranging the files into a cohesive and researchable system that retained elements of Stine's original order when possible but also emphasizing the main themes in the collection.

Series 1. Model Rocketry (boxes 1-36, 127-128, and flat files 7-1) has been arranged by major themes of Stine's work within the hobby. NAR Committee records have been alphabetized by committee name, as well as their publications and other affiliated sections. The various meets and competitions have been organized chronologically. A similar structure has been assigned to the International Model Rocketry subseries.

The Writings series (boxes 36-45) has been organized into groupings of Stine's book manuscripts, short works, notes, assorted works, and works by other authors. The Book Manuscripts subseries is broken down into his major works, starting with the Handbook of Model Rocketry, and is further organized by manuscript date and editions. The Short Works subseries is structured chronologically maintaining Stine's original order of the folders.

The largest of the series is the Aeronautical Research Files (boxes 45-100, 108, 128-139, and flat files 7-2 to 8-1). The subjects within this series have been organized alphabetically except for Space – General subseries and the National Aeronautics and Space Administration subseries which were placed at the end of the series because of the more general and assorted subject matter within them. The records in this series are housed in both document boxes as well as in oversized storage.



Series 4. Personal and Other Professional Work (boxes 100-106, 130, 133, and flat file 8-1) is organized alphabetically by subject.

Series 5. 35mm Slides and Audiovisual Materials (boxes 109-125) has been arranged by format and maintains the original order established by the creator. The 35mm slides were donated in metal cases that were labeled by Stine. The slides were rehoused into sleeves and folders but slides remain in original sequence and the folders are titled after the original cases.

The audiovisual material has been rearranged and organized by format. Because there was no contextual information for this grouping before processing the Project Archivist established a structure by format and then cataloged each item to aid in identifying individual items.

The final series, Henri Coanda Archives (box 126), has been arranged by format.

The majority of the collection consists of papers and photographs housed in document boxes, however there is a significant amount of oversize material in the collection as well. The oversized material in the collection was donated in 10 oversize boxes with very little context to the contents, most often tightly rolled together. Only one box "Centuri Engineering, Inc." had a common theme between documents, which has been retained to preserve the existing relationship. In addition, there were multiple oversized documents folded within the folders of documents. Some of these items were duplicates of what was located in the oversize boxes. In total there were over 2,000 oversized documents donated with the collection. The Project Archivist inventoried each individual item to collect identifiable information for the document and to develop relationships between them. Once each oversized document was cataloged, three copies were retained with collection and any additional copies were deaccessioned. The remaining documents were arranged based upon how they related to the above-described series and folder listing established by the archivist. Oversized materials were cataloged according to their intellectual position within the collection, regardless of size or format. When there is an oversized illustration or document connected to a folder, the oversize location is listed in the inventory alongside the folder of documents. Oversize documents were unfolded, unrolled humidified and flattened when necessary.

### **Organization by Format Storage**

- Black-and-white photographs, color photographs, and paper material: boxes 1-108, 126;
- 35mm slides: boxes 109-120;
- Audiovisual material: boxes 121-125;
- Oversize material: boxes 127-139, flat files 7-1 to 8-1

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## **Administrative Information**

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### **Publication Statement**

The Museum of Flight Archives

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Seattle, Washington 98108-4097  
[curator@museumofflight.org](mailto:curator@museumofflight.org)  
URL: <http://www.museumofflight.org>

## Conditions Governing Access

This collection is open for research and is accessible in the Dahlberg Research Center by appointment. For more information contact us.

## Conditions Governing Use

The Museum of Flight (TMOF) Archives is the owner of the physical materials in the archives and makes available reproductions for research, publication, and other uses. Written permission must be obtained from TMOF archives before any publication use. TMOF does not necessarily hold copyright to all of the materials in the collections. In some cases, permission for use may require seeking additional authorization from copyright owners. Consult repository for more details.

## Immediate Source of Acquisition

The collection was donated by the creator's son.

## Accruals

No further accruals are expected.

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## Related Materials

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### Separated Materials

As part of the processing steps specific non-archival material was separated and moved to the appropriate location. Serials, books, and other publications were moved to the Harl V. Brackin Library and objects were relocated to Objects storage at the Museum of Flight. Posters, catalogs, decals, press kits and other model rocketry corporate ephemera was moved to the Trade Literature artificial collection.

## Related Materials

The National Air and Space Museum has a small collection related to G. Harry Stine: <https://airandspace.si.edu/collection-objects/g-harry-stine-collection-ca-1950s-1970s>

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## Controlled Access Headings

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- 8mm (photographic film size)
- 16mm (photographic film size)
- audiocassettes
- blueprints (reprographic copies)
- booklets
- cartoons (humorous images)
- clippings (information artifacts)
- correspondence
- commercial spaceflight (regulation)
- diazotypes (copies)
- DVDs
- forms (documents)
- illustrations (layout features)
- Launch Vehicles and Launch Operations
- Manned space flight--Soviet Union--History
- Manned space flight--United States
- manuscripts (documents)
- Models and modelmaking
- negatives (photographs)
- newsletters
- notebooks
- open reel audiotapes
- photographic prints
- postcards
- posters
- printed ephemera
- Rocketry
- Rockets (Aeronautics) -- Models
- slides (photographs)
- space sciences (general)
- tear sheets
- technical drawings
- transparencies

- Coand#, Henri, 1886-1972

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## Other Finding Aids

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The following more detailed inventories for certain materials are also available upon request:

- 2013-09-17\_Stine Collection\_AV material
- 2013-09-17\_Stine Collection\_Oversize material
- 2013-09-17\_Stine Collection\_Trade Literature\_Catalogs
- 2013-09-17\_Stine Collection\_Separations

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## Collection Inventory

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### Series 1. Model Rocketry, 1957-2008

#### Scope and Contents

There are six subseries that make up the Model Rocketry Series: Subseries A. National Association of Rocketry, 1958-2005; Subseries B. International Model Rocketry, 1959-1981; Subseries C. Safety Codes and Regulations, 1958-1997; Subseries D. Corporations, 1957-2008; Subseries E. Designs, 1957-1989; Subseries F. Assorted Materials, 1958-1990.

This series represents the bulk of Stine's professional work in model rocketry and the development of the hobby beginning with the foundation of the NAR and the corporations that contributed towards the designs and production of the model rockets. There are thousands of photographs in this series capturing the different meets (nationally and internationally), sections, demos and conventions, model rockets, and tests to aid in the development of safety standards for the hobby. Additional types of materials include negatives, forms, brochures, correspondence, newspaper clippings, press releases, newsletters, board minutes, case documents, depositions, committee reports, test reports, invoices, hand-written notes, press kits, programs, fact sheets, applications, lithographs, site maps, reports of official results, bylaws, safety codes, decals, memos, articles, member lists, guides, certificates, illustrations, memos, postcards, receipts, contest packets, and technical reports. Note that additional photographic documentation related to this series can be found in Series 5, Slides and Audiovisual Materials.

**Subseries A. The National Association of Rocketry** was started in 1957 by Stine and he remained an active member and lead in the development of the organization throughout his life. Within the collection there are many examples of early founding documents, Board of Trustees meeting minutes, correspondence, and reports. In addition, there are the papers related to various subcommittees that made up the NAR and a record of the organization's membership from 1965 to 1979. Stine contributed content and was editor for the Model Rocketeer, and his collection includes the photograph archive for the publication, as well as articles he wrote, newsletters, and correspondence. The collection also reflects other major publications that the NAR developed such as the Safety Code, Sporting Code, Technical Reports, and Plan Program Fact Sheets, which all illustrated various model rocket designs and their fabrication.

Another major component of the NAR subseries is the documentation of model rocketry meets and the various sections and groups affiliated with the organization that made up the competitions. In the collection's holdings is the very first black and white photographs recording the Nation Association of Model Rocket Annual Meet in 1959. There is a record of sequential meets for each year until NARAM 15 (1973), then various years from 1977 to 1997, the final year that Stine attended the competition. There are other examples of documentation of the NAR meets, such as National Association of Rocketry Winter Meet (NARWIN) and Sunnyvale Rocketry Convention (SUNROC) that was part of the Pacific Region NAR Section. Most of the material in this subseries is in arranged in alphabetical order, except for the folders related to meets, competitions, demonstrations and conventions, which are arranged in chronological order.

The archivist made efforts to identify individuals photographed at the NAR meets. A sampling of photographs from this subseries were selected, digitized and exhibited on a Flickr website that was open to the public from January-October 2019. NAR community members commented on the name of participants and rockets featured in the photograph. After soliciting identification of individuals, Museum staff cataloged the information in the metadata record for the digitized version and a printout of the Flickr page with comments was interfiled with the photographs to maintain provenance of the identifications. These printouts are not original to the collection.

**Subseries B.** consists of the documents related to Stine's work as a committee member of the Fédération Aéronautique Internationale and Space Model Subcommittee (CIAM) as the U.S. liaison to the group, and the assorted international model rocket meets that he attended beginning in 1964. The bulk of the material are black-and-white photographs taken at the international competitions by Otakar Saffek, Stine's Czechoslovakian counterpart. There are also meeting minutes, sporting codes, correspondence, travel documents, and newspaper clippings. The material in this subseries is broken up between the FAI and the international meets, then arranged chronologically.

**Subseries C. Safety Codes and Regulations** is broken into three components: National Fire Protection Agency, Court Cases, and Safety Standards. The documents that make up this subseries are committee records for both the Pyrotechnics Committee and Fire Prevention Committee. Stine's was a member of the Pyrotechnics Committee where he worked as a liaison between the model rocket developers and the National Fire Protection Agency from the early 1970s until 1990s. There are also depositions and other documents related to court cases where Stine was requested to contribute his expertise on the matter of safety protocols for the production of materials for model rockets. The remaining files are documents Stine collected on the topic of safety standards and laws that include legal matters, as well as tests of rocket materials conducted by the NAR.

**Subseries D.** on corporations is made up of the files related to model rocket manufacturers, organized in alphabetical order. Much of the material is correspondence, memos, news releases, and illustrations. There was a large oversized box of Centuri Engineering, Inc. model rocket designs donated with the material, which has been listed in the files related to the company rather than the Rockets and Missiles subseries or Designs in the Model Rocketry Series to maintain provenance of the illustrations. Notable are the correspondence files between Stine and Orville Carlisle, who together founded Model Missiles, Inc. in 1957 and founded the hobby.

The Design subseries is composed of photographs, illustrations, and design notes for model rockets. Boost-Gliders, motors, scale birds and some general files are listed in this subseries however individual model rockets are integrated with the Rockets and Missiles subseries in the Aeronautical Research Files (Series 3) since Stine had model prototypes listed with the original rocket version.

Controlled Access Headings:

- Czechoslovakia
- Explosives--Law and legislation--United States
- Model Rocketeer
- Models and modelmaking
- Poland
- Rockets (Aeronautics)--Models--Design and construction
- scale models
- Slovakia

- Aerospace Vehicles, Inc.
- American Institute of Aeronautics and Astronautics
- Canadian Rocket Society
- Centuri Engineering, Inc.
- Estes Industries
- Estes, Vernon
- International Aeronautic Federation
- Massachusetts Institute of Technology
- Model Missiles, Inc.
- National Association of Rocketry (U.S.)
- National Fire Protection Agency
- Piester, Lee
- YMCA Space Pioneers Section

## Subseries A. National Association of Rocketry, 1958-2005

### Committee records

Title/Description	Instances	
Early documents, 1958-1960	box 1	folder 1
Board of Trustees -- assorted documents, 1970-1991	box 1	folder 2-5
	box 2	folder 1
Board of Trustees -- Commission on Advanced High Power Rocketry, 1985-1991	box 2	folder 2-4
Blue Ribbon Committee, 1984-1985	box 2	folder 5-7
Contests and Records Committee, 1976-1979	box 3	folder 1
Education Committee, undated	box 3	folder 2
Public Affairs Committee, 1971-1979	box 3	folder 3
Standards and Testing Committee, 1967-1979	box 3	folder 4
Technical Services Committee, undated	box 3	folder 5
By-laws, 1967-1972	box 3	folder 6
Membership, 1965-1979, undated	box 3	folder 7
	box 127	folder 1

### Publications

Title/Description	Instances	
"Black Binder" -- assorted articles, 1961-1967, undated	box 3	folder 8
	box 4	folder 1
<i>Model Rocketeer</i> -- newsletters, 1959-1997, undated	box 4	folder 2
<i>Model Rocketeer</i> -- article, 1977 November	box 4	folder 3
<i>Model Rocketeer</i> -- article, 1978 February	box 4	folder 4

<i>Model Rocketeer</i> -- correspondence, 1976-1978	box 4	folder 5
<i>Model Rocketeer</i> -- photograph archive, 1965-1979, undated	box 4	folder 6-8
	box 5	folder 1-4
	box 6	folder 1-5
Pamphlets, brochures, and press releases, 1971-1972, undated	box 7	folder 1
Plan Program Fact Sheets, 1960-1962, undated	box 7	folder 2
	box 127	folder 1
	oversize folder 1	
Safety Code, undated	box 7	folder 3
Safety Reports, 1970-1997, undated	box 7	folder 4-5
Sporting Code, 1964,1967	box 7	folder 6
Sporting Code, 1970, 1973	box 7	folder 7
Technical Reports, 1958-1970, undated	box 7	folder 8

## Meets and Competitions

<b>Title/Description</b>	<b>Instances</b>	
Assorted meets and competitions, 1970-1982	box 7	folder 9
	box 127	folder 2
National Association of Rocketry Annual Meet (NARAM) -- assorted documents, 1980, undated	box 7	folder 10
NARAM -- assorted photographs, 1960s-1990s	box 8	folder 1-3
NARAM 1, 1959-1960	box 8	folder 4
NARAM 2, 1960	box 8	folder 5
NARAM 3, 1961	box 8	folder 6
NARAM 4, 1962	box 8	folder 7
NARAM 5, 1963	box 9	folder 1-3
NARAM 6, 1964	box 9	folder 4
NARAM 7, 1965-1966	box 9	folder 5
NARAM 8, 1966	box 9	folder 6
NARAM 9, 1967-1968	box 9	folder 7
	box 10	folder 1-3
NARAM 10, 1968-1969	box 10	folder 4-6
NARAM 11, 1969-1970	box 11	folder 1-3

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	box 107	folder 1
NARAM 12, 1970	box 11	folder 4
NARAM 13, 1971	box 11	folder 5
NARAM 14, 1972	box 11	folder 6-7
NARAM 15, 1972-1973	box 11	folder 8
NARAM 19, 1977	box 12	folder 1
	box 107	folder 2
	box 127	folder 5
NARAM 20, 1978	box 12	folder 2-6
	box 107	folder 3-4
	box 131	folder 1
NARAM 21, 1979	box 12	folder 7
	box 107	folder 5
NARAM 22, 1980-1981	box 13	folder 1
<u>Related Materials:</u>	box 107	folder 6
<b>Related Materials</b>		
See also Series 1. Model Rocketry, Subseries: International Model Rocketry, Meets and Competitions, Folder: 4th World Space Modeling Championship		
NARAM 26, 1984	box 13	folder 2
	box 107	folder 7
NARAM 29, National Association of Rocketry Annual Conference 4, 1987	box 13	folder 3
	box 107	folder 8
NARAM 31, Old Rocketeers Reunion, 1988-1989	box 13	folder 4
NARAM 39, 1997	box 13	folder 5
National Association of Rocketry Winter (NARWIN) 1, 1976-1978	box 13	folder 6-7
	box 14	folder 1
	box 107	folder 9
NARWIN 2, 1977-1978	box 14	folder 2
	box 107	folder 10
NARWIN 3, 1979	box 14	folder 3
National Association of Rocketry Kit-bashing Tournament (NARBASH) 1, undated	box 14	folder 4
Alberta Association of Rocketry Competition (AARCON), Calgary, Canada Rocket Meet, 1977	box 14	folder 5



	box 127	folder 4
Sunnyvale Rocketry Convention (SUNROC) 1, 1977	box 14	folder 6
	box 127	folder 4
SUNROC 2, 1978	box 14	folder 7
Static Space Models Concourse, 1978-1979	box 14	folder 8
	box 127	folder 5
Space Modeling Competition NASA's Wallop Island, 1988	box 127	folder 3

## Demonstrations and Conventions

Title/Description	Instances	
Wallops Flight Facility, 1964	box 14	folder 9
General Electric's Valley Forge Space Technology Center, 1967	box 14	folder 10
American Institute of Aeronautics and Astronautics, 1968	box 14	folder 11
Pittsburg, Pennsylvania, 1968	box 15	folder 1
Massachusetts Institute of Technology, 1968-1969	box 15	folder 2
Smithsonian Mall, 1969	box 15	folder 3
Convention at an unidentified location, 1971	box 15	folder 4
Hogback and Green Mountain launch site, 1972 August	box 15	folder 5
Catastrophic failures, 1972	box 15	folder 6
Convention at an unidentified location, undated	box 15	folder 7

## Sections and Groups

Title/Description	Instances	
Assorted sections and groups, 1969-1987, undated	box 15	folder 8
Bay Regional Section, 1977-1979	box 15	folder 9
<u>Related Materials:</u> <b>Related Materials</b>		
see also Series 1. Model Rocketry, Subseries: Meets and Competitions, Folder: SUNROC 1		
Fairchester Section, 1970-1971	box 15	folder 10-11
	box 131	folder 3
National Association of Rocketry Training Rocketeers for Experience and Knowledge (NARTREK), 1977-1979	box 16	folder 1-2
	box 131	folder 3
Pacific Region, 1977-1979	box 16	folder 3

Pasack Valley Section, 1970	box 16	folder 4
Sunland Tujunga Rocket Society, California, 1958	box 16	folder 5
Tripoli Rocket Society, 1988-1990, undated	box 16	folder 6
Valley of the Sun Section, 1968, 1974-1980	box 16	folder 7
YMCA Space Pioneers Section, 1965-1973, undated	box 16	folder 8
	box 17	folder 1-5
	box 18	folder 1
	box 107	folder 11

## Assorted materials

Title/Description	Instances	
Correspondence, 1964-1972	box 18	folder 2
	box 131	folder 3
Correspondence, 1973-1974	box 18	folder 3
Correspondence, 1975-1976	box 18	folder 4
Correspondence, 1977	box 18	folder 5
Correspondence, 1978	box 19	folder 1
Correspondence, 1979	box 19	folder 2-3
Correspondence, 1980-2005	box 19	folder 4
Decals, undated	box 19	folder 5
Early NAR photographs, 1958-1960	box 19	folder 6
Forms and applications, undated	box 19	folder 7
	box 107	folder 12
	oversize folder 2	
Milestones and songs, 1959, undated	box 19	folder 8
Model rocketeers photographs, 1958-1979, undated	box 19	folder 9
	box 127	folder 6
Stationery, undated	box 19	folder 10
	box 107	folder 13

## Subseries B. International Model Rocketry, 1959-1981

### Fédération Aéronautique Internationale and Space Model Subcommittee (CIAM)

## Scope and Contents

The documents in this sub-series are made up of correspondence, meeting minutes, and plans for international space modeling competitions.

Title/Description	Instances	
Assorted documents, 1959-1969	box 20	folder 1
Assorted documents, 1971	box 20	folder 2
Assorted documents, 1972	box 20	folder 3-4
	box 107	folder 14
Assorted documents, 1973	box 20	folder 5-6
Assorted documents, 1974-1977	box 20	folder 7
	box 107	folder 14
Sporting Code, 1969-1974	box 20	folder 8
	box 107	folder 15
Europe trip, 1972 March-April	box 20	folder 9

## Meets and Competitions

Title/Description	Instances	
Assorted meets and competitions, 1965-1970, undated	box 20	folder 10
	box 107	folder 16
The United States Air Force -- Europe, 1964-1967	box 21	folder 1
National Model Rocket Championships -- Brno, Czechoslovakia, 1965	box 21	folder 2
International Model Rocket Meet -- Czechoslovakia and Dubnica nad Váhom, Slovakia, 1966 May	box 21	folder 3-5
	box 131	folder 2
National Model Rocket Championships -- Krakow, Poland, 1966	box 21	folder 6-7
National Model Rocket Championships -- Prague, Czechoslovakia, 1966	box 21	folder 8
World Free Flight Championship -- Sazena, Czechoslovakia, 1967	box 21	folder 9
National Model Rocket Championships -- Dubnica nad Váhom, Slovakia, 1967	box 21	folder 10
National Model Rocket Championships -- Ostrava, Czechoslovakia, 1967	box 21	folder 11
National Model Rocket Championships -- Vrchlabí, Czechoslovakia, 1967	box 21	folder 12

National Model Rocket Championships -- Dubnica nad Váhom, Slovakia, 1968	box 21	folder 13
	box 131	folder 2
National Model Rocket Championships -- Czechoslovakia, 1968 August	box 21	folder 14
National Model Rocket Championships -- Vrsac, Serbia, 1969	box 21	folder 15
National Model Rocket Championships -- Vrchlábí, Czechoslovakia, 1969	box 22	folder 1
National Model Rocket Championships -- Yugoslavia, 1969-1970	box 22	folder 2
National Model Rocket Championships -- Vrsac, Serbia, 1970	box 22	folder 3
1st World Space Modeling Championship -- Dubnica nad Váhom, Slovakia and Vrsac, Serbia, 1971-1972	box 22	folder 4-8
	box 127	folder 5
	oversize folder 2	
1st World Space Modeling Championship -- Dubnica nad Váhom, Slovakia and Vrsac, Serbia -- travel Itinerary, 1972	box 22	folder 9
2nd World Space Modeling Championship -- Dubnica nad Váhom, Slovakia, 1974	box 22	folder 10
	box 23	folder 1-2
	oversize folder 2	
3rd World Space Modeling Championship -- Yambol, Bulgaria, 1977-1978	box 23	folder 3-4
4th World Space Modeling Championship -- Lakehurst, New Jersey, 1979-1980	box 23	folder 5-6
	box 107	folder 17
	box 127	folder 5
Canadian Rocket Society, 1977-1978	box 23	folder 7
Canadian Association of Rocketry (CANAROC), 1980-1981	box 23	folder 8
	oversize folder 2	

## Subseries C. Safety Codes and Regulations, 1958-1997

### National Fire Protection Agency

Title/Description	Instances	
Assorted documents, 1968-1985	box 24	folder 1
Bureau of Explosives and Department of Transportation, 1968-1989	box 24	folder 2-3
Fire Marshals, 1968		

	box 24	folder 4
Fire Prevention Committee, 1969-1975	box 24	folder 5-6
Fire Prevention Code, Proposed Edition, 1973	box 24	folder 7
Pyrotechnics Committee, 1971-1972	box 24	folder 8
Pyrotechnics Committee, 1973-1974	box 24	folder 9
Pyrotechnics Committee, 1975	box 25	folder 1
Pyrotechnics Committee, 1976	box 25	folder 2-3
Pyrotechnics Committee, 1977	box 25	folder 4-5
Pyrotechnics Committee, 1978	box 25	folder 6
Pyrotechnics Committee, 1979-1990	box 25	folder 7
Trips -- Cincinnati, Ohio, 1976	box 25	box 8
Trips -- Penrose, Colorado, 1977	box 26	folder 1
Trips -- Montreal, Quebec, 1978	box 26	folder 2

## Court Cases

<b>Title/Description</b>	<b>Instances</b>	
Helm, Pletcher, and Hogan, 1983	box 26	folder 3
Lee Hagen, 1976-1986	box 26	folder 4
The McMath Law Firm, 1983-1984, undated	box 107	folder 18-19
Castro v. Estes, 1984-1987	box 26	folder 5
Henderson: Wright v. Crazy Jack's, 1986-1988	box 26	folder 6
Kallick v. Estes, 1986-1988	box 26	folder 7
Sucher v. Damon Corporation, 1986-1988	box 27	folder 1
Morton v. Estes, 1987-1988	box 27	folder 2
Ford v. Morris, 1989	box 27	folder 3
Damon Corporation v. Horne, 1990-1991	box 27	folder 4
Lee-Henson Law Firm, 1990-1991	box 27	folder 5
Klein v. Pyrodyne, 1991	box 27	folder 6
Douglas Pratt, Vagshenian v. Palo Alto Unified, 1991 January 30	box 27	folder 7
Schmalfeldt v. Humdinger Inc., 1991	box 27	folder 8
Sucher v. Estes, 1991-1992	box 27	folder 9

## Safety Standards

<b>Title/Description</b>	<b>Instances</b>	
Bureau of Explosives and Department of Transportation, 1980-1993, undated	box 107	folder 20
Department of Transportation, OCST (Public Law 98-575 & 98-365), 1984-1985	box 28	folder 1
Laws and Regulations, 1958-1980	box 28	folder 2-4
Federal Aviation Administration 14 CFR Part 101, 1989-1992	box 28	folder 5-6
Model rocket safety legal matters, 1961-1997	box 29	folder 1-2
NAR Phoenix burn tests, 1978-1992	box 29	folder 3-4
New Jersey law, 1980-1981	box 29	folder 5
Orbital Sciences Corporation, 1996 May	box 29	folder 6

### **Subseries D. Corporations , 1957-2008**

<b>Title/Description</b>	<b>Instances</b>	
Assorted corporations, 1969-1992	box 29	folder 7
Aerospace Vehicles, Inc., 1972-1977	box 29	folder 8-9
Centuri Engineering, Inc., 1966-1979	box 30	folder 1
	box 127	folder 7
Centuri Engineering, Inc. -- assorted designs, 1971, undated	oversize	folder 3
Centuri Engineering, Inc. -- Little Joe, undated	oversize	folder 4
Centuri Engineering, Inc. -- Saturn IB	box 138	
	oversize	folder 5
Centuri Engineering, Inc. -- Saturn V, undated	oversize	folder 6
	oversize	folder 7
Centuri Engineering, Inc. -- Skytrack, undated	oversize	folder 8
	oversize	folder 9
Colspan, 1971	box 30	folder 2
Estes Industries, 1969-1972, undated	box 30	folder 3-8
Estes Industries, Damon, 1968-1977	box 30	folder 9-10
Flight Systems, Inc., 1971-1976	box 31	folder 1

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Model Missiles, Inc., 1957-1959, 2008, undated, (1957-1959, undated)	box 31 box 107	folder 2-3 folder 21
Model Missiles, Inc. -- correspondence with Orville Carlisle, 1957	box 31	folder 4-6
Model Missiles, Inc. -- correspondence with Orville Carlisle, 1958	box 31	folder 7-9
Model Missiles, Inc. -- correspondence with Orville Carlisle, 1959-1961	box 31	folder 10
Model Missiles, Inc. -- correspondence with Orville Carlisle, 1975-1985	box 32	folder 1
Model Missiles, Inc. -- assorted designs, 1957-1959, undated	oversize folder 10	
<i>Model Rocketry Magazine</i> , 1968-1971, undated	box 32	folder 2-3
MPC Model Rockets, undated	box 32	folder 4
MPC Model Rockets -- patents, 1970-1972	box 107	folder 22
<i>Sports Rocketry</i> , 1995	box 32	folder 5
Toy Biz, Inc. and Quest, 1996-1997	box 32	folder 6
<i>Vertical Space-modeling Journal</i> , 1978	box 32	folder 7

### Subseries E. Designs, 1957-1989

Title/Description	Instances
Boost-Gliders -- assorted designs and documents, 1962-1971, undated	box 32 folder 8 box 127 folder 8
Boost-Gliders, Flat Cat, 1967-1969	oversize folder 11
Boost-Gliders, international, 1968-1970, undated	oversize folder 11
Boost-Glider, Unicorn, 1965-1969	box 32 folder 9 box 131 folder 4
Boost-Gliders -- assorted photographs, undated	box 32 folder 10
Boost-Gliders -- research and design notes, 1964-1969	box 32 folder 11-12
Illustrations, undated	box 33 folder 1-2 box 127 folder 9 box 128 folder 1-2
Model rockets photographs, 1960s-1980s	box 33 folder 3-5

	box 34	folder 1-2
Model Rocketry -- research and design notes, 1957-1964	box 34	folder 3-4
	oversize folder 12	
Model rockets -- assorted designs, 1963-1979, undated	box 34	folder 5-7
	box 108	folder 1
	box 127	folder 6
	box 128	folder 3-4
	box 131	folder 6-8
	oversize folder 12	
	oversize folder 13	
Motors -- assorted photographs, 1963-1971	box 34	folder 8
Motor tests -- assorted photographs, 1970 May 12	box 35	folder 1
Romanian models, 1968-1972	box 108	folder 2
Scale rocket models, 1968-1969	box 35	folder 2
Scale rocket models -- assorted photographs, 1965-1969	box 35	folder 3
Star Birds, 1971, undated	box 35	folder 4

## Subseries F. Assorted Materials, 1958-1990

Title/Description	Instances	
American Institute of Aeronautics and Astronautics Pre-College Guidance Committee, 1971	box 35	folder 5
American Space Technology Research Association (ASTRA), 1990	box 35	folder 6
Cartoons, undated	box 35	folder 7
Certificate of Achievement for Stine, 1978 July 2	box 35	folder 8
Clippings, 1958-1977	box 35	folder 9-10
Photographs of Stine, 1958-1988	box 35	folder 11
	box 36	folder 1
Photograph of Ronald Reagan receiving model rocket, undated	box 36	folder 2

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## Series 2. Writings, 1957-1994



## Scope and Contents

The Writing series is made up of the professional written works by Stine associated with sports model rocketry. There are five subseries in this grouping: Subseries A. Book Manuscripts, 1961-1994; Subseries B. Short Works, 1957-1987; Subseries C. Notes, 1965-1971; Subseries D. Assorted Works, 1969-1971; Subseries E. Works by Other Authors, 1958-1994.

The types of material that make up this series are galley proofs, typed manuscripts, photographs, illustrations, tear-sheets of magazine articles, notebooks, and correspondence.

**Subseries A.** is arranged by book manuscript title with Stine's most famous work Handbook of Model Rocketry listed first. The first manuscript from 1961 is in the collection and the sequential revisions and editions throughout the years until 1993 are also represented. Included in this subseries are correspondence and photograph selections related to the work. In addition to the Handbook of Model Rocketry there are manuscripts related to other books on model rocketry such as Model Rocketry Manual, which Stine began writing in 1970.

**The Short Works subseries** is comprised of Stine's articles on model rocketry for various hobby publications, most notably American Modeler Magazine and Model Rocketry Magazine where he was a content contributor beginning in the 1950s. The recurring columns "Countdown" and "Rocket Trails" were regularly featured in the American Modeler Magazine, and he had a recurring column in Model Rocketry Magazine titled "The Old Rocketeer". These writings updated the sport rocketry community on current happenings, highlighted competitions, summarized new theories in model rocketry, and presented how-to designs. All works in the collection are listed individually, organized in chronological order. There are a few instances where assorted articles are grouped together under the publication title. These fall at the end of the sub-series.

**Subseries C.** is a very small subseries made up of Stine's three notebooks on model rocketry. One of them is titled the "Personal Idea Book from the department of Witchcraft and Sorcery." The notes are accompanied by illustrations of the model rocket designs. They have been arranged in chronological order.

The last part of the series is a small subseries of manuscripts by other authors that relate to aeronautical research and model rockery, for example Gerald M. Gregorek's "A Critical Examination of Model Rocket Drag for Use with Maximum Altitude Prediction Charts" and "Physical Reality" by Robert L. Carroll.

There is no evidence of Stine's science fiction authorship in this series, but there are a few examples of his work under the penname Lee Correy in the Publishing subseries in the Personal and Other Professional Work series.

### Controlled Access Headings:

- Analog Science Fiction & Fact
- American Aircraft Modeler
- Craft, model & hobby industry
- Mechanix Illustrated
- Model Rocketry Magazine
- Rockets (Aeronautics)--Models--Periodicals
- American Institute of Aeronautics and Astronautics

## Subseries A. Book Manuscripts, 1961-1994

### *Handbook of Model Rocketry*

Title/Description	Instances	
Early manuscript, 1961	box 36	folder 3-4
Edition with illustrations, circa 1960s	box 37	folder 1-2

Follett revisions -- typescript and correspondence, 1966

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	box 36	folder 5
3rd revision -- typescript, undated	box 36	folder 6
4th edition -- photographs, notes, correspondence, clippings, and manuscript, 1973-1975	box 36	folder 7-9
5th edition -- manuscript, undated	box 37	folder 3
5th edition, outtakes -- photographs and illustrations, undated	box 36	folder 10
6th edition -- manuscript, 1993 May 18	box 38	folder 1-4
Photographs and illustrations, undated	box 38	folder 5-6
	box 39	folder 1-3
Correspondence, 1968-1994	box 39	folder 4

### ***Model Rocketry Manual***

<b>Title/Description</b>	<b>Instances</b>	
Assorted documents, 1970-1972	box 39	folder 5
Manuscript, 1970	box 39	folder 6
Updated <i>Model Rocketry Manual</i> , 1976-1977	box 39	folder 7
<i>Model Rocket Safety</i> , 1967-1970	box 40	folder 1-2
<i>Anticipation of the Parachute-Recoverable Model Rocket</i> , 1967	box 40	folder 3

### **Subseries B. Short Works, 1957-1987**

<b>Title/Description</b>	<b>Instances</b>	
"Tribute to Pat Miller", 1987 May 27	box 40	folder 4
"The Formative Years of Model Rocketry, 1957-1962; A Personal Memoir", 1976 October 10-16	box 40	folder 5
"Is There A Future for Model Rocketry?" <i>Hobby Industry Association of North America</i> , 1973	box 40	folder 6
"National Association of Rocketry: The Non-professional Side of Astronautics" American Institute of Aeronautics and Astronautics, 1973	box 40	folder 7
"NARAM 14 – Report", 1972	box 40	folder 8
"Space Modeling: The First World Championships for Space Models" <i>American Aircraft Modeler</i> , 1972	box 40	folder 9
"Model Rocketry is here to Stay" <i>Craft, Model &amp; Hobby Industry</i> , 1971-1972	box 40	folder 10
"The Tenth National Model Rocket Championships: A Decade of Progress in Model Astronautics, NARAM 10 Report", 1968	box 40	folder 11
"Polish Boost Glider, Count Down" <i>American Aircraft Modeler</i> , 1968	box 40	folder 12

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"Honest John Count Down" <i>American Aircraft Modeler</i> , 1968	box 40	folder 13
"Conventions, Count Down" <i>American Aircraft Modeler</i> , 1968	box 40	folder 14
"Model Rockets Prove Ineffective Against Czech Secret Agent W4C", circa 1960s	box 40	folder 15
"The Truth about the Russian Space Program, Count Down" <i>American Aircraft Modeler</i> , 1968	box 40	folder 16
"Count Down" <i>American Aircraft Modeler</i> , 1968 March	box 40	folder 17
"Count Down" <i>American Aircraft Modeler</i> , 1968 January	box 40	folder 18
"Low Drag Design, Count Down" <i>American Aircraft Modeler</i> , 1968 January	box 40	folder 19
"Model Rocketry Goes Metric, Count Down" <i>American Aircraft Modeler</i> , 1967-1968	box 40	folder 20
"Scale II Nike Smoke, Count Down" <i>American Aircraft Modeler</i> , 1967	box 40	folder 21
"Ninth Rocketry NATS: Milestone in Mankato, Count Down" <i>American Aircraft Modeler</i> , 1967	box 40	folder 22
"The Ins and Outs of Scale, Count Down" <i>American Aircraft Modeler</i> , 1967	box 40	folder 23
"Future Astronauts" <i>The American Way</i> , 1967	box 40	folder 24
"The World of Model Rocketry, Count Down" <i>American Modeler Magazine</i> , 1967	box 40	folder 25
"Tomahawk, Count Down" <i>American Modeler Magazine</i> , 1967	box 40	folder 26
"T. Guill's Dubnica Payloader Malewicki Report, Count Down" <i>American Modeler Magazine</i> , 1967	box 41	folder 1
"Flatcat, Count Down" <i>American Modeler Magazine</i> , 1967	box 41	folder 2
"How to Design a Boost-Glider" <i>American Modeler Magazine</i> , 1967	box 41	folder 3
"Growth Pains of Model Astronautics, Count Down" <i>American Modeler Magazine</i> , 1967	box 41	folder 4-5
"MR-1 Meteo, Count Down" <i>American Modeler Magazine</i> , 1966	box 41	folder 6
"Rocket Trails" <i>American Modeler Magazine</i> , 1965-1966	box 41	folder 7
"Details of Czech Rockets, Count Down" <i>American Modeler Magazine</i> , 1966	box 41	folder 8
"Jestrab, Count Down" <i>American Modeler Magazine</i> , 1966	box 41	folder 9
"Special Report: U.S. 8th National Model Rocket Competition" <i>American Modeler Magazine</i> , 1966	box 41	folder 10
"Eighth Rocket Championships Prove to be Record-Breakers" <i>American Modeler Magazine</i> , 1966	box 41	folder 11

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"Count Down" <i>American Modeler Magazine</i> , 1966 July	box 41	folder 12
"The ABC's of Model Rocketry" <i>American Modeler Magazine</i> , 1966	box 41	folder 13
"First International Model Rocket Meet Brings East and West Together at Dubnic" <i>American Modeler Magazine</i> , 1966	box 41	folder 14
"Preliminary Parametric Study of Variables Affecting the Pitching Moment and Trim Conditions of Rocket-Powered Boost-Glider", 1965 February	box 41	folder 15-16
"Seventh Rocnats Technically Tops, NARAM 7", 1965	box 41	folder 17
"What's New in Model Rocketry?", 1965	box 41	folder 18
"The Sixth National Model Rocket Championships", 1964	box 41	folder 19
"Rocket Trails" <i>American Modeler Magazine</i> , 1962	box 41	folder 20-21
"Report from NARAM 3", 1961	box 41	folder 22
"Model Rocketry Comes of Age", 1961	box 41	folder 23
"Citizen's Band Telemetry for Model Rockets", 1961	box 41	folder 24
"Report on the Electric Field Rocket", circa 1960s	box 41	folder 25
"Science-Fiction is Too Conservative", circa 1960s	box 41	folder 26
"The Wonderful Dirty Bird" <i>American Modeler Magazine</i> , 1961	box 41	folder 27
"Sub-Mach Rockets", circa 1960s	box 41	folder 26
"Basic Model Rocketry, NAR Technical Report #9", circa 1960s	box 42	folder 1
"The Future Spacemen of the NAR", circa 1960s	box 42	folder 2
"The New Look in Model Rocketry", circa 1960s	box 42	folder 3
"The Second NARAM" <i>American Modeler Magazine</i> , 1960	box 42	folder 4
"The Model Rocketeers" <i>Scientific American</i> , circa 1960s	box 42	folder 5
"Staging Model Rockets", 1960	box 42	folder 6
"Demon in a Bottle", circa 1960s	box 42	folder 7
"Green Mountain Proving Ground: Gateway to Tomorrow" <i>Space Journal</i> , 1959	box 42	folder 8
"The Green Mountain Rocketeers", 1959	box 42	folder 9
"Electro-Gravitics-Mechanix Illustrated" <i>Mechanix Illustrated</i> , 1957	box 42	folder 10
"Missile Noses, Bodies and Fins" <i>American Modeler</i> , circa 1950s	box 42	folder 11
"Aerodynamics of Model Missiles", circa 1950s	box 42	folder 12
"Construction of Model Missiles", circa 1950s	box 42	folder 13

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"Denver's Cape Canaveral", circa 1950s	box 42	folder 14
"Space Age Hobby", circa 1950s	box 42	folder 15
"Do-It-Yourself Rocketeers and What to Do About Those Backyard Rocketeers", circa 1950s	box 42	folder 16
"Do-It-Yourself Rocket", circa 1950s	box 42	folder 17
"The World's Safest Business-II" <i>Mechanix Illustrated</i> , circa 1950s	box 42	folder 18
"Coanda Effect", undated	box 42	folder 19
"Loudly from a Broken Soap Box", undated	box 42	folder 20
"Scale Model Rocketry Manual", undated	box 42	folder 21
<i>American Modeler Magazine</i> -- assorted articles, 1957-1958	box 42	folder 22
"Countdown" <i>American Modeler Magazine</i> , 1966-1969	box 42	folder 23
	box 43	folder 1
"Rocket Trails" <i>American Modeler Magazine</i> , 1962 February-1966 May	box 43	folder 2
<i>Model Rocketry Magazine</i> -- assorted articles, 1969-1970	box 43	folder 3-4
"The Old Rocketeer" <i>Model Rocketry Magazine</i> , 1968-1977	box 43	folder 5
NAR Roots "The Old Rocketeer", 1960s-1990s	box 44	folder 1
<i>Space Journal and Analog Science Fact and Fiction</i> , undated	box 44	folder 2

### Subseries C. Notes, 1965-1971

Title/Description	Instances	
Personal Idea Book, 1965-1967	box 44	folder 3
Notebook, 1969	box 44	folder 4
Model Rocket Development, 1970-1971	box 44	folder 5

### Subseries D. Assorted Works, 1969-1971

Title/Description	Instances	
Book reviews, 1969	box 44	folder 6
Teachers Guide "Random House Science 3R Space Travel Unit", 1971	box 44	folder 7

### Subseries E. Works by Other Authors, 1958-1994

Title/Description	Instances	
"A Critical Examination of Model Rocket Drag for Use with Maximum Altitude Prediction Charts" by Gerald M.Gregorek, 1967 August	box 44	folder 8

"Guided Missiles and Space Vehicles" by Robert E. Calmes, 1958	box 44	folder 9
"Physical Reality" by Robert L. Carroll, undated	box 44	folder 10
"Single Stage: The Thirty Year Quest to Develop Real Spaceships" by Gary Hudson, 1994 June 9	box 45	folder 1
"A Web of Words" by Harold Wooster, 1963 July 8	box 45	folder 2

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## Series 3. Aeronautical Research Files, 1918-1994

### Scope and Contents

The Aeronautical Research Files is the largest of all the series in the Stine Collection, consisting of about 31 cubic feet of material. Nine subseries make up this grouping: Subseries A. Aircraft, 1918-1987; Subseries B. Facilities, 1954-1994; Subseries C. International Programs, 1920-1993; Subseries D. Rockets and Missiles, 1924-1992; Subseries E. Satellites, 1957-1985; Subseries F. Space Shuttles and Missions, 1946-1986; Subseries G. Space Vehicles, 1960-1993; Subseries H. Space – General, 1943-1976; and Subseries I. National Aeronautics and Space Administration, 1965-1982.

A wide variety of materials make up this series, including correspondence, articles, brochures, news releases, charts, booklets, press kits, technical briefs, facility maps, photographs, brochures, fact-sheets, philatelic ephemera, postcards, articles, and clippings. The Rockets and Missiles subseries includes the material cited above but is predominately comprised of illustrations (copies and hand-drawn), blueprints, lithographs, negative proofs, hand-written notes, and test results. Also included in this subseries are model rocket designs that illustrate the model versions inspired by prominent rockets. Note that additional photographic documentation related to this series can be found in Series 5, Slides and Audiovisual Materials.

These records are Stine's research files, which he began actively collecting material related to aeronautical studies beginning in the early 1950s with his first position at White Sands Proving Ground. His main interest was in rocket science but materials on various other sub-fields within aeronautics are also present. He used the material to guide his model rocket designs, assist with his work a space history consultant, as well as his writings, both non-fiction and science fiction. Most of the material in this series is organized alphabetically, except for the Space Missions and Programs files. These folders have been arranged chronologically by space mission to show the development of the programs over time.

#### Controlled Access Headings:

- Aircraft carriers
- Aircraft industry
- Outer space -- Exploration
- Space shuttles
- Space vehicles
- White Sands Missile Range (N.M.)
- Aerojet-General Corporation
- Aerojet Rocketdyne
- Atlantic Research Corporation
- Boeing Company
- British Hovercraft Corporation
- General Electric Company
- Goddard Space Flight Center
- Lunar Orbiter (Artificial satellite)

- Martin Company
- McDonnell Douglas Aerospace (Firm)
- Thiokol Corporation

## Subseries A. Aircraft, 1918-1987

Title/Description	Instances	
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Apollo 13, 1969-1970, undated	box 87	folder 4
Apollo 14, 1970-1971	box 87	folder 5
Apollo 15, 1970-1971, undated	box 87	folder 6
	130	folder 8
Apollo 16, 1972, undated	box 87	folder 7
Apollo 17, 1972-1973	box 88	folder 1
Post-Apollo plans, 1966-1971, undated	box 88	folder 2
Apollo Lunar Module, 1962-1971, undated	box 88	folder 3-4
Space Nuclear Auxiliary Power (SNAP 27), 1965-1967, undated	box 88	folder 5
Apollo Lunar Orbiter, 1966-1969	oversize folder 52	
Apollo-Soyuz, 1969-1971	box 88	folder 6-7
Lunar Science, 1969-1971	box 88	folder 8
	oversize folder 53	
Skylab, 1971-1974, undated	box 89	folder 1
	oversize folder 53	
Surveyor, 1962-1968, undated	box 89	folder 2
Grand Tour, 1968-1969	box 89	folder 3
Viking, 1969-1982, undated	box 89	folder 4-7

	box 133	folder 8
Pioneer Jupiter, 1973, undated	box 89	folder 8
	oversize folder 53	
Voyager, 1964-1979, undated	box 90	folder 1-4
	oversize folder 53	
Pioneer Venus, 1972-1979, undated	box 90	folder 5

## The Space Shuttle Program

Title/Description	Instances	
Assorted subjects, 1972-1981, undated	box 90	folder 6
	box 91	folder 1
	box 108	folder 12
	oversize folder 54	
Enterprise, 1975-1979, undated	box 91	folder 2-4
Columbia	box 91	folder 5
	box 92	folder 1-6
	box 93	folder 1
Art and concepts, 1968-1977, undated	box 93	folder 2-5
Get-A-Way Special, 1978-1979, undated	box 93	folder 6
Hardware, 1970-1978, undated	box 94	folder 1-2
Proposal, 1969-1974, undated	box 94	folder 3-4
Rockwell International Space System Group, 1975-1977, undated	box 94	folder 5
Roll-Out, 1976-1979, undated	box 95	folder 1
Space Telescope, 1977-1978	box 95	folder 2
Spacelab, 1974-1983, undated	box 95	folder 3-4

## Philatelic Ephemera

Title/Description	Instances	
Apollo stamps, 1969-1975, undated	box 95	folder 5
International space program stamps, 1964-1972, undated	box 95	folder 6
Assorted space programs, 1967-1979, undated	box 95	folder 7
Clippings, 1965-1977, undated	box 95	folder 8

### Subseries G. Space Vehicles, 1960-1993

Title/Description	Instances	
Dyna Soar, 1960-1962, undated	box 95	folder 9
General Dynamics 106 Single Stage to Orbit (GD SSTO), 1990-1993, undated	box 95	folder 10
Heavy lift launch vehicle, 1978, undated	box 96	folder 1
HL-10 (Heavy Lift), 1967-1969, undated	box 96	folder 2
Lunar Rover, 1968-1972, undated	box 96	folder 3
Martin SV-5P Lift Body, 1965-1967, undated	box 96	folder 4
Nuclear Pulse Space Vehicle, undated	box 96	folder 5
Space Tug, 1970-1972	box 96	folder 6
Supersonic Planetary Entry Decelerator Spacecraft (SPED II), 1970	box 96	folder 7

### Subseries H. Space -- General, 1943-1976

Title/Description	Instances	
Assorted subjects, 1966-1976, undated	box 96	folder 8
	box 134	
Posters -- assorted, undated	box 133	folder 9
	oversize	folder 55
Space technology research, 1943-1967	box 96	folder 9
Unidentified flying objects, 1968-1971	box 96	folder 10
Astronautic Systems, undated	box 139	

### Subseries I. National Aeronautics and Space Administration, 1965-1982

Title/Description	Instances	
Assorted subjects, 1976-1979, undated	box 96	folder 11
Brochures, 1973-1978, undated	box 96	folder 12
Facts, 1965-1981	box 97	folder 1-2
	oversize	folder 56
News, 1968	box 97	folder 3
News, 1969	box 97	folder 4
News, 1972	box 97	folder 5

News, 1973	box 97	folder 6
News, 1974	box 97	folder 7
News, 1975	box 97	folder 8
	box 98	folder 1-3
News, 1976	box 98	folder 4-5
News, 1977	box 98	folder 6
	box 99	folder 1
News, 1978	box 99	folder 2-3
News, 1979	box 99	folder 4-5
News, 1981	box 100	folder 1
Photographs, 1965-1982	box 100	folder 2
Photograph index, 1968-1971	box 100	folder 3
Report to Educators, 1973-1978	box 100	folder 4

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## Series 4. Personal and Other Professional Work, 1955-1997

### Scope and Contents

This series consists of six subseries: Subseries A. Assorted subjects, 1955-1997; Subseries B. Coanda, Henri, 1956-1997; Subseries C. Inventories, undated; Subseries D. Publishing, 1972-1994; Subseries E. Space Tourism, 1967-1997; and Subseries F. White Sands Proving Ground, 1995.

These subseries reflect Stine's personal and other professional work outside of model rocketry, such as his work in the field of aeronautics and various memorabilia. The documents consist of correspondence, clippings, posters, movie ephemera, decals, postcards, brochures, photographs, certificates, card catalog, and his personal mailing list.

Within the Assorted Subjects there are records of his efforts towards developing an International Space Academy in Arizona from 1986-1987, as well as his aeronautical research company, Enterprise Institute, Inc. There is science-fiction movie ephemera, such as Star Wars posters, and job applications to space research institutes.

The Henri Coanda subseries includes clippings, correspondence between Coanda and Stine, and obituaries and biographies that Stine contributed to news publications after Coanda's passing. There is also substantial amount of documents related to the "Coanda Effect" and Stine's development for other applications of the theory, as well as research conducted at the Huyck Research Center in Stamford, Connecticut where Stine and Coanda shared an office from 1961-1965.

Subseries C. contains inventories of objects, photographs, drawings, and documents of model rockets in the Stine Collection, including the card catalog that Stine maintained. The listings do not reflect the actual organization of the items listed in the inventories to The Museum of Flight's holdings.

The third subseries relates to Stine's publishing endeavors. Included are his agent search listings, correspondence with agents and publishers, spreadsheets of cost analyses, and drafts prepared for OMNI Publications International. While Stine was a well-known science-fiction author, writing under the pseudonym Lee Correy, there is very little

in the collection representing this aspect of his work. There are only a few items related to his science fiction in the form of illustrations, book jackets, and chapter introductions.

A large aspect of Stine's work towards the end of his life was dedicated to space tourism, beginning in the early 1990s. There are committee records and conferences for the Arizona Space Commission and the Space Access Society where Stine contributed to as a committee member. Illustrations and writings on the Single Stage to Orbit vehicle (SSTO), and records on the Citizen's Advisory Council on National Space Policy, who Stine was a founding member of, and the Space Tourism Society.

The last subseries in Other Personal and Professional Work series reflects Stine's connection with the White Sands Pioneer Group, a nonprofit association of the employees of White Sands Missiles Range or White Sands Proving ground.

Controlled Access Headings:

- Coanda effect
- space commercialization (legal aspects)
- Space tourism
- Arizona Space Commission
- Huyck Research Center
- Space Access Society

**Subseries A. Assorted subjects, 1955-1997**

Title/Description	Instances	
Clippings, 1975	box 100	folder 5
Cole, Dan, 1961-1965, undated	box 100	folder 6
Conference -- posters, undated	oversize folder 58	
Correspondence, 1994-1997	box 100	folder 7
Dick Dastaraly's Vulture Squadron Flight Diploma, 1969	box 108	folder 13
E-Systems, Inc., 1984-1986	box 100	folder 8
Enterprise Institute, Inc., 1995, undated	box 100	folder 9
Mailing list, undated	box 100	folder 10
Movie ephemera -- <i>2001 A Space Odyssey</i> , 1968	130	folder 10
Movie ephemera -- <i>Star Trek</i> , <i>Silent Running</i> , and <i>Meteor</i> , undated	oversize folder 58	
Movie ephemera -- <i>Star Wars</i> , undated	130	folder 10
	oversize folder 58	
National Air and Space Museum application, 1987	box 100	box 11
Photograph of John Wayne, undated	box 100	folder 12
Postcards -- assorted subjects, undated	box 100	folder 13-14

	box 101	folder 1-3
Posters -- assorted subjects, undated	oversize folder 58	
Roe, William S., 1957-1962, undated	130	folder 9
Space Academy, 1986-1987, undated	box 101	folder 4-6
Space Academy -- Megacorp, 1987	box 102	folder 1
Stationery, undated	box 102	folder 2
Decals	box 102	folder 3
Locomotive designs, 1955, undated	box 133	folder 10

### Subseries B. Henri Coanda, 1956-1997

Title/Description	Instances	
Clippings, 1956-1970, undated	box 102	folder 4
Coanda Effect, 1963-1964, undated	box 102	folder 5
Coanda Effect, Huyck Research Center, 1962-1964, undated	box 102	folder 6-7
	130	folder 11
	box 139	
	oversize folder 57	
Correspondence, 1965-1969	box 102	folder 8
Jet Fan, Ltd., 1979-1997, undated	box 102	folder 9-10
Obituaries and biographies, 1972-1989, undated	box 108	folder 14

### Subseries C. Inventories , undated

Title/Description	Instances	
Inventory of models in Stine Collection, undated	box 102	folder 11
Master card catalog -- photographs, drawings, and documents of rockets and space vehicles, undated	box 103	folder 1-3
Sample of files in collection, undated	box 103	folder 4

### Subseries D. Publishing, 1972-1994

Title/Description	Instances	
Agent search, 1982	box 103	folder 5
Astro Model Newsletter cost analysis, 1972 May 5-10	130	folder 10
Clancy, Tom -- correspondence, 1989 January 9-25	box 103	folder 6

OMNI Publications International "The Man from COMSAT", 1979-1981, undated	box 103	folder 6
	box 104	folder 1

## Science fiction

Title/Description	Instances	
Assorted documents, 1966-1977, undated	box 104	folder 2
Absyrtis and Spaceship Fafnir -- illustrations, undated	oversize folder 58	
Book jackets for works under the pseudonym Lee Correy, 1993-1994, undated	box 104	folder 3
Chapter introduction under the pseudonym Lee Correy, undated	box 104	folder 4

## Subseries E. Space Tourism, 1967-1997

Title/Description	Instances	
Assorted subjects, 1967-1997, undated	box 104	folder 5-8
	box 108	folder 15
Arizona Space Commission, 1992-1996	box 105	folder 1-4
Citizen's Advisory Council on National Space Policy, 1988 December	box 105	folder 5
Citizen's Advisory Council on National Space Policy -- meetings and notes, 1997	box 105	folder 6
Habitat 1, Quantum Dynamics, Stock Certificate, 1994-1996	box 105	folder 7
Kistler Aerospace Corporations, 1994	box 106	folder 1
Pacific American Launch System, Inc., Phoenix, 1984-1985, undated	box 106	folder 2
Space Access Society, 1995	box 106	folder 3
Space Access Society, 1996	box 106	folder 4
Space Access Society, 1997	box 106	folder 5
Space drives, United States bibliography, 1989	box 106	folder 6
Space Policy 2000, 1992	box 106	folder 7
Space Tourism Society, 1997	box 106	folder 8

## Subseries F. White Sands Proving Ground, 1995

Title/Description	Instances	
White Sands Pioneer Group, 1995	box 106	folder 9



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## Series 5. Slides and Audiovisual Materials, 1946-1995

### Scope and Contents

This series has broken into two sections: Subseries A. 35mm Slides, 1946-1992 and Subseries B. Audiovisual, 1951-1995.

The first subseries consists of a series of slides depicting various rocketry and aviation activities. This includes model rocketry, manned space flight, aircrafts, astronomy and various slides form lectures. The images were taken between 1950 and 1995. They depict various model rocketry competitions and activities that Stine was involved with during his lifetime. The titles in quotations were given to the contents by Stine and have been pulled directly from the containers.

The Audiovisual subseries contains instances of 8mm and 16mm film, VHS tapes, 45-rpm records, with the bulk of the collection consisting of audiocassette tapes and open-reel magnetic audio recording tape. The material in this subseries is similar in content as the themes in the rest of the Stine Collection. The audiocassette tapes and open-reel magnetic audio recording tape cover audio recordings of NAR competitions, board of trustees meetings, and recordings of the YMCA Space Pioneers. There are audio recordings of conventions and keynote addresses for various space related topics, in addition there are reports on space programs produced by NASA. There are also many audio recordings of individuals that Stine worked with throughout his professional career in model rocketry and aeronautics. Some of the audiocassette tapes have no descriptive information written on the item, but they have been retained with the collection. The VHS tapes cover some televised space news productions, which include Stine on The Merv Griffin Show that aired on July 24, 1985, as well as documentation of the Space Access Society and the single-stage-to-orbit (SSTO) vehicle. The films in the series are documentation of model rocketry and the World Congress of Flight from 1959.

The audiovisual material is sorted by format an itemized list of material on an Excel spreadsheet (Stine Collection\_AV material) is available upon request.

### Subseries A. 35mm Slides, 1946-1992

#### Model Rocketry

Title/Description	Instances	
"Model rocketry No. 1", 1957 March-1959 July	box 109	folder 1-2
"Model rocketry No. 2", 1959 July-1962 March	box 109	folder 3-4
"Model rocketry No. 3", 1961 July - 1966 August	box 109	folder 5-6
"Model rocketry No. 4", 1966 August-1969 August	box 110	folder 1-2
"Model rocketry No. 5", 1969 September-1970 February	box 110	folder 3-4
"Model rocketry No. 6", 1970 February-1970 August	box 110	folder 5-6
"Model rocketry No. 7", 1970 August-1971 February	box 111	folder 1-2
"Model rocketry No. 8", 1971 February-1971 August	box 111	folder 3-4
"Model rocketry No. 9", 1971 July-1972 May	box 111	folder 5-6

Guide to the Stine (G. Harry) Space History and Model Rocketry Collection

"Model rocketry No. 10", 1972 June-1972 September	box 112	folder 1-2
"Model rocketry No. 11 -- First World Championships for Space Models, Vrsac, Yugoslavia", 1972 September	box 112	folder 3-4
"Model rocketry No. 12", 1968 November-1974 September	box 112	folder 5-6
"Model rocketry No. 13 -- assorted meets 2nd World Space Modeling Championship-NARWIN 1", 1972 November-1977 December	box 113	folder 1-2
"Model rocketry No. 14 -- assorted Stine home library - 4th World Space Modeling Championship", 1975-1980	box 113	folder 3-4
"Model rocketry No. 15 -- assorted Lakehurst W.C. - USXLR Lucerne, Switzerland", 1980 September-1987 June	box 113	folder 5-6
"Model rocketry No. 16 -- assorted USXLR Lucerne, Switzerland – USA and USSR Meet", 1987 June-1988 October	box 114	folder 1-2
"Model rocketry No. 17", 1988 October-1991 June	box 114	folder 3-4
"Model rocketry No. 18", 1992 September	box 114	folder 5
Photos of Stine, 1981 November-1988 January	box 114	folder 6

## Aeronautical Research Files

Title/Description	Instances	
"Aircraft No. 1", 1959 April-1978 April	box 115	folder 1
"Aircraft No. 2", 1966 August-1973 February	box 115	folder 2
"Aircraft No. 3", 1958 July-1972 September	box 115	folder 3-4
"Aircraft No. 4", 1972 May-1977 May	box 115	folder 5-6
"Aircraft No. 5", 1977 September-1982 April	box 116	folder 1-2
"Aircraft No. 6", 1982 October-1984 October	box 116	folder 3-4
"Aircraft No. 7", 1984 October-1988 May	box 116	folder 5-6
"Aircraft No. 8", 1990 February-1991 April	box 116	folder 7
"Astronomy No. 1", 1957-1977	box 117	folder 1
"Astronomy No. 2", Undated	box 117	folder 2
Earth Resources: A View From Space, Undated	box 117	folder 3
Goddard A-4, 1946-1985	box 117	folder 4
Jupiter C, Undated	box 117	folder 5
"Manned spaceflight No. 1", 1963 August-1973 June	box 117	folder 6
"Manned spaceflight No. 2", 1969 July-1972 September	box 117	folder 7
"Manned spaceflight No. 3", 1972 November-1976 July	box 118	folder 1

"Missiles and launch vehicles", 1958 July-1991 April	box 118	folder 2
"Rocketsondes", 1968 July-1972 September	box 118	folder 3
"Rocket vehicles", 1976 May-1981 April	box 118	folder 4
"Small rocket vehicles", 1971 June-1971 December	box 118	folder 5
"Space Art No. 1", 1959 July-1974 May	box 118	folder 6
"Space Art No. 2", 1955-1984	box 119	folder 1
"Space Shuttle No. 1", 1975 May-1977 August	box 119	folder 2
"Space Shuttle No. 2", 1979 March-1981 November	box 119	folder 3
"Space utilization, industrialization, and colonization", 1972 September-1980	box 119	folder 4
"Transportation", 1946 November-1975 August	box 119	folder 5-6
"U.S.S.R. space activities", 1970 February-1986 December	box 120	folder 1
"Voyage Beyond Apollo", 1972 December	box 120	folder 2
"White Sands Missile Range and Test Facility", 1969 June-1976 March	box 120	folder 3

## Assorted

Title/Description	Instances	
"Lecture slides", 1971 January-1978 April	box 120	folder 4

## Subseries B. Audiovisual , 1951-1995

box 121

box 122

box 123

box 124

box 125

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## Series 6. Henri Coanda Archives, 1914-1965

### Custodial History:

### **Custodial History**

Henri Coanda gifted parts of his personal papers to G. Harry Stine before his passing on 1972 November 25.

### **Scope and Contents**

The last and smallest series in the Stine Collection is the Henri Coanda Archives. Included are documents, photographs, and an autobiography, including a translation. While there is material on Coanda in Series 4, that

material was created and collected by Stine in relation to their research, while this series consists of works originated by Coanda himself.

Title/Description	Instances	
Assorted documents, 1914-1959, undated	box 126	folder 1
	130	folder 12
Autobiography, undated	box Assorted Safe Collections	folder 2013-09-17
Autobiography, translation, 1960	box Assorted Safe Collections	folder 2013-09-17
Photographs, 1963-1965, undated	box 126	folder 2-3

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