G. Harry Stine Collection Project at The Museum of Flight

Amy Heidrick
Director of Collections
The Museum of Flight is a 501(c)3 non-profit museum that “exists to acquire, preserve, and exhibit historically significant air and space artifacts, which provide a foundation for scholarly research, and lifelong learning programs that inspire an interest in and understanding of science, technology, and the humanities.”
Overview of The Museum of Flight Collection

The Museum of Flight has one of the largest air and space collections related to the entire range of aviation history and the aerospace experience in the U.S.:

- **Over 150 significant air and spacecraft**

- **30,000 other objects** including garments and accessories, aircraft parts and instruments, aircraft models, tools and engines, and art objects

- **Extensive library collection:** 90,000 periodicals, 33,000 books and 20,000 technical manuals and reports

- **10,000 cubic feet of materials in the Archives (paper and photographic mediums)**
G. Harry Stine Collection Overview

Collection arrived at the Museum on nine pallets, including file cabinets, crates and boxes:

• Model rockets – kits and assembled, misc. parts
• Archival materials – photos, documents, research files, slides, posters, etc
• Library materials – books, serials, newsletters
Slide Boxes

<table>
<thead>
<tr>
<th>Name</th>
<th># of Slides</th>
</tr>
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<tbody>
<tr>
<td>Model Rocketry #1</td>
<td>204</td>
</tr>
<tr>
<td>Model rocketry #2</td>
<td>300</td>
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<td>Model rocketry #3</td>
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<td>Model rocketry #9</td>
<td>287</td>
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<tr>
<td>Model rocketry #10</td>
<td>287</td>
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<tr>
<td>First World Championship for Space Models #11</td>
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</tr>
<tr>
<td>Model rocketry #12</td>
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<td>Model rocketry #13</td>
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<td>Model rocketry #18</td>
<td>285</td>
</tr>
<tr>
<td>Model rocketry #19</td>
<td>128</td>
</tr>
</tbody>
</table>

Boxes Sent

Create #1: One box "Historic Model Rocket Motors and Kits"

Create #2: One box - binder with newspaper articles.

Create #2: One box of Estes and Centaur! packets, Ames Research Center - Summary, Composite Rocket Engine binder, Misc. Correspondence + Papers.

Create #2: One box Centaur V2 kits (3)

Create #2: One box Space Modeling Magazines, two blueprints, approx. 40 photos, and negatives. Box titled "Space Modeling Magazine + More."

Create #2: One box titled "Small Space Art," consisting of 3 framed pieces of art.

Create #2: One box titled "Center! Literature" - containing Misc. Center! Literature.

Create #2: One box titled "NO Magazine" consisting of 35 old Model Rocket Magazines.

File Cabinet Sent:

A1 First Drawer entitled "Rockets & Launch Vehicles" consisting of 2 black binders: (Viking Mission to Mars) and (WASP National Aerospace Plane). Also, two black binders of 14 photos (city.107).

A1 Second Drawer entitled "Spacecraft" containing 7 photos and some blueprints, A black binder "Spacecraft Data," a red binder "Nuke Smoke," a red binder "Scale Data German V1.1." Approx. 40 files containing correspondence, blueprints, booklets and 500 photos total.


A3 Third Drawer entitled "Rockets & Launch Vehicles" consisting of 7 of the best protection of SDI Assets binder (blue); a Urban LEO Low Earth Orbiter binder; a Proposal for the Constellation I Satellite I binder (blue). Also, a green binder from Radioplane Co. entitled "Project Recovery." Also contains approx. 80 files containing correspondence, blueprints, booklets.
Objects

Approximately 1000 objects:

• Fully assembled models
• Model Kits
• Engines
• Misc. parts
Library Materials

• 72 banker’s boxes containing:
  – Books
  – Serials
  – Newsletters
  – Clippings
  – Catalogs

• 1100 individual items
Archival

- Sixty (60) banker’s boxes of paper based materials, clippings and photographs
- Six (6) oversize flat material boxes containing posters and drawings
- One (1) oversize box of rolled materials (approximately 2’ x 2’ x 4’)
- Thirty-nine (39) metal slide boxes
- One (1) six drawer metal slide file cabinet
- One (1) five drawer flat file containing oversize paper materials
- Five (5) banker’s boxes of audio visual materials
Challenges

- Organization of materials
- Volume of materials
- Duplication
- Staff time needed to process
- Staff time needed to catalog
Project Development

- Identified the needs of the collection
- Identified staffing requirements
- Estimated funding requirements
- Estimated time requirements
Goals of the Project

• Improve organization and accessibility
• Create detailed finding aid to publish online
• Make materials available to researchers
• Identify materials suitable for future digitization projects
Need for funding

• Processing/cataloging before researcher access
• Volunteer time vs. staff time
• Timeline of processing and cataloging
Funding Campaign with NAR

Matching campaign with National Association of Rocketry, NAR members and the Museum
Use of Funding

- Fully process and catalog entire collection with dedicated staff member
- Produce detailed finding aid
- Allow researcher access to the collection
- Make collection available for digitization and other outreach projects
Project Timeline and Progress

- **August 2018** – Hired Project Archivist – Charise Michelsen
- **August 2018** – September 2019 – Process archival portion of collection
- **October** – **December 2019** – process objects in collection
- **January 2020** – March 2020 – process library materials in collection
Project Archivist: Charise Michelsen

- Recently relocated to Seattle from Hawaii
- Extensive experience with large-scale collections processing and cataloging
- Previous position managing the congressional papers of Senator Daniel Inouye
- Started in August 2018
- Full-time position
- Will be responsible for processing and cataloging all three components of the collection
Archival Collection Update

Completed processing steps (as of February 2019):

• Surveyed content
• Created series hierarchy
  - Down to folder arrangement
• Weeded duplicates
• Separated library material
• Supply list created and items ordered
• 1,000s of photos sleeved and rehoused
• AV & Oversized material has been cataloged
• Physical arrangement has begun
Strengths of Collection

- NAR History
- Stine’s Manuscripts
- International Rocketry
- Rocket Design
- Rocket Safety
- Shuttle & Satellite Programs
- Aeronautical History
Oversized Material

- Quantity
  - Over 1,800 items retained
- Addressing the various formats
  - Blue Prints
  - Diazo Prints
- Size of material
- Organization
- Rolled items
Oversized Material

- Surveyed condition and format
- Cataloged items
- Weeded duplicates
- Humidify when needed
- Rehoused in archival grade enclosures
Photographs
Photographs

- 1,000s of individual items
- Weed duplicates
- Figure out context
- Organize into appropriate series
- Rehouse in archival enclosures
Final Steps for Archival Component

• Complete physical arrangement
• Complete rehousing material
• Produce detailed finding aid
• Summer Intern – assist with oversized material and rehousing 4,000 35mm slides
## Cataloging

### The Museum of Flight

#### Showing Collections: 1 - 10 of 164

<table>
<thead>
<tr>
<th>Collection</th>
<th>Identifier</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Memorial Day Program</td>
<td>2011-00-00-37</td>
<td>The collection contains a program for an air show honoring servicemen who died during World War I. Found in: The Museum of Flight Archives</td>
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<tr>
<td>American Fighter Aces Association Oral Interviews</td>
<td>2002-02-13-OralHist</td>
<td>Collection of approximately one hundred twenty-two (122) oral histories of American fighter aces, primarily from World War I and World War II, with a few from the Korean and Vietnam Wars. There are also at least four interviews with non-ace military pilots and other military personnel. Found in: The Museum of Flight Archives</td>
</tr>
</tbody>
</table>

### Additional filters:

- **Subject**: photographic prints 128, clippings (information artifacts) 58, World War, 1914-1918 57, printed ephemera 49, correspondence 48

[Search](#)
Archival Highlights from the Stine Collection
Henri Coanda Materials
Le Capitaine est de renom, mais bien inutile.

Chapitre I

Le Capitaine est né à Bucarest le 7 juin 1856 de Constantin Capitaine, notaire de Courteny et de

Théodore Ducrot, notaire de Montcachin.

Pour comprendre le meurtre, il faut bien connaître son milieu. Dans le

gant, il a une Voltaire ou plier

tendre enfance.

Il est né à l'heure où son père

Commence sa carrière de mathématicien à l'École des ponts et chaussées à

Bucarest (8 h 05 du matin).

Puis père ancien élève de l'École polytechnique à Paris, diplômé de la Sorbonne de Paris, était officier de

Capitaine.

En la communauté de la grève contre

les Turcs en 1877 et est blessé en face de Vittoriono, reçu à la Bataille de

0h15 de sa batterie, et comme

de capitan, de sa batterie, est lui et

prend la responsabilité de son unité

en de portant avec elle alors la premières
Original Drawings
Clipping Files
Next Phases of the Project:

Objects and Library Materials
Objects

- Partially processed
- Over 800 items inventoried
- Volunteers started initial photography and records
- Approximately 160 are fully cataloged
- Remainder need full processing and cataloging
- All need to be rehoused for long-term storage
<table>
<thead>
<tr>
<th>Catalog #</th>
<th>Object Name</th>
<th>Collection</th>
<th>Title</th>
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<tr>
<td>2013-9-17/74</td>
<td>Model Kit, Rocket</td>
<td>Aircraft Models</td>
<td>Model Kit, Rocket/Evel Knievel Sky Cycle</td>
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<td>2013-9-17/77</td>
<td>Model Kit, Rocket</td>
<td>Aircraft Models</td>
<td>Model Kit, Rocket/Evel Knievel Sky Cycle</td>
</tr>
</tbody>
</table>

Model Kit, Rocket

**Object Information**

- **Description**: Unopened model rocket kit for Evel Knievel Sky Cycle. Kit is still sealed in original plastic packaging with facecard visible on front and parts visible through verso. Additional label at top that extends over front and back of package with “CENTURI” in black letters at top left and “EVEL” in alternating blue and red letters below. “RECOMMENDED FOR AGES TEN TO ADULT” in small black letters at bottom. Facecard is blue on left and bottom edges, white in upper right, and has a red swoosh from upper left to lower right. Image of model vertical up center. “EVEL / KNIEVEL / SKY CYCLE / FLYING / MODEL / ROCKET” in red, blue, and black letters on right side with additional information about model below. Specifications and recommended engine sizes in lower left corner. Panels

- **Material**: Plastic --elastisch --cardboard --metal
- **Date Made**: 1970s __Date
- **Location**: __82 __Date

**Supplemental Information**

- **Object Status**: STORAGE
- **Record Status**: Complete

**Added by CR on 5/12/2015 9:06:54 AM** Updated by al on 11/6/2015 2:46:23 PM
Library

• Already processed
• Over 1100 individual items assessed
• 460 items accepted into the collection
• Remainder transferred or placed in book sale
• All accepted items need to be cataloged
Pilot's handbook of flight operating instructions for XB-47...

**Title Statement:** Pilot's handbook of flight operating instructions for XB-47 airplane.

**Corporate Author:** Boeing Airplane Company.

**Published:** Seattle, WA: Boeing Airplane Company, 1948.

**Description:** 1 v. (various pagings) (some fold) : ill. ; 28 cm.

**Subject:** Boeing airplanes--Air pilots--Training--Handbooks, manuals, etc.

**Subject:** B-47 bomber--Air pilots--Training--Handbooks, manuals, etc.

**General Note:** D-8005.

**General Note:** 1 May 1948.

**Contents Note:** Partial contents: Description of pilots' controls -- Operating instructions -- Combat equipment -- Communication and navigation equipment -- Miscellaneous equipment -- Flight operations data.

**Local Note:** Condition: good. Some yellowing and wear on folded pages.

**Copy 1:** Non-Circulating

**Item ID** | **Call Number** | **Location** | **Status**
--- | --- | --- | ---
1. | MANACT.B65.B-47.27 | Manuals Bay | Non-Circulating

**Collection Type:** Manuals

**Circulating Item:** No

**Copy:** 1

**Copy:** 1 Manuals Bay
New Project Component:

Flickr account and crowdsourcing identifications
G. Harry Stine Collection

[Two boys with model rockets and award ribbons]

Creator(s): Stine, G. Harry (George Harry), 1928-1997

Series: NARAM 1 - Meets/Competitions - National Association of Rocketry - Model Rocketry

Production Date: 1969

Uploaded on January 22, 2019

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G. Harry Stine Collection

[Two boys with model rockets and award ribbons]

Creator(s): Stine, G. Harry (George Harry), 1928-1997

Series: NARAM 1 - Meets/Competitions - National Association of Rocketry - Model Rocketry

Production Date: 1959

Scope and Content Note: Photograph of two unidentified boys posing with their model rockets in front of a space poster, Denver, Colorado, 1959. Both boys have several award ribbons on their jackets.

Use Restriction(s): Permission to publish material from the G. Harry Stine Space History and Model Rocketry Collection must be obtained from The Museum of Flight Archives.

Identifier: 2013-09-17_image_002_01

Museum of Flight Archives
9404 E. Marginal Way South
Seattle, WA 98106-4097
Phone: 206-764-5700
Email: curator@museumofflight.org

Tags

Rocketry  NARAM
Models

Additional info

- Viewing privacy
- Allow commenting
- Allow tags, notes, and people tags
- Set safety level

Uploaded on January 22, 2019

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This photo is in 1 album

Add to album

People in photo  Add people
Stine Collection on Flickr URL:

https://www.flickr.com/people/stine_collection/
On Display

• Original Unicorn drawing
• Stine notebook with model rocket ideas and designs
• NARAM 1 photos
• NAR songs (from NARAM 9)
• V-2 research file
Questions?