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## Guide to the Robert P. Hogan Collection, 1969-1997

NASA Ames History Office  
NASA Ames Research Center

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### Descriptive Summary

**Title:** Guide to the Robert P. Hogan Collection

**Date (inclusive):** 1969-1997

**Collection Number:** PP04.12

**Creator:** Hogan, Robert P.

**Extent:** Number of containers: 8

Volume: 3 cubic feet

**Repository:** Ames Research Center, Ames History Office  
Moffett Field, California 94035

**Abstract:** The Robert P. Hogan Collection includes project proposals, technical documents, reports, correspondence, publications, photographs, and other visual media documenting Hogan's contributions to the Pioneer Project and the Life Sciences Directorate during his career at the NASA Ames Research Center. The collection is chronologically arranged in two series that reflect these two phases of Hogan's engineering and administrative activities.

**Language:** English

### Access

Collection is open for research.

### Publication Rights

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### Preferred Citation

NASA Ames History Office, NASA Ames Research Center. Moffett Field, California. PP04.12, Robert P. Hogan Collection 1969-1997, [Container number] : [Folder number]. [Identification of item]. [Date, if available].

### Separated Material

One book has been removed and placed in the NASA Ames History Office Reference Collection: Souza, K., Hogan, R., & Ballard, R. (Eds.) (1995). *Life into space: Space life sciences experiments*. NASA Ames Research Center.

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## Acquisition Information

Donated by Robert P. Hogan in September 2004.

## Biographical Note

Robert P. "Bob" Hogan was born October 16, 1939 in Huntington Park, California near Los Angeles. While working full time for the Autonetics division of North American Aviation, he received a BS in Electrical Engineering from West Coast University in 1965. In 1969, he went to work for Hughes Aircraft and received his Masters in Systems Engineering from Cal-State Fullerton in 1970. He joined NASA Ames Research Center in 1970 as an in-plant representative for the Pioneer 10/11 Project at TRW, Manhattan Beach.

During his assignment to the Pioneer Project led by Charlie Hall, Hogan provided support to the 11 Principal Investigators during construction, integration, testing, and launching of the Pioneer 10 and 11 spacecraft on missions to Jupiter and Saturn. Following the launch of Pioneer 11 in 1973, he relocated permanently to Moffett Field and served in the Pioneer Operations branch during the Jupiter Encounters in 1973 and 1974. He served as Flight Director for the Pioneer 11 Saturn Encounter in 1979.

In 1979, Hogan joined the Life Sciences Directorate and served as Deputy Division Chief for Shuttle Payloads Office under Bill Berry. During the period 1985 to 1996, this office flew over 40 payloads involving animal experiments on the Shuttle and the Spacelab Module. Hogan was also assigned responsibility for the redesign of the Research Animal Holding Facility (RAHF) and the General Purpose Work Station (GPWS) which flew successfully on three Spacelab missions.

In 1996, Hogan was appointed Chief of the Space Projects Division and provided the manpower for the development of the Space Station Biological Research Project (SSBRP) and the Stratospheric Observatory for Infrared Astronomy (SOFIA) as well as the Lunar Prospector mission and the Kepler Discovery Mission scheduled for launch in 2007. The division managed advanced project development for the Center and submitted numerous proposals.

The Space Projects Division was abolished in 2004 with the formation of the Code P Projects Directorate. Hogan served as Chief Engineer for Code P until his retirement in January 2005.

Hogan has received numerous awards including the Exceptional Service Medal for the Pioneer 11 Saturn Encounter and the Outstanding Leadership Medal for the Spacelab Life Sciences One Mission.

Hogan has been married for 48 years to his high school sweetheart, Judy, and has two daughters and two grandsons.

## Indexing Terms

The following terms may be used to index this collection.

### Personal Name

Hogan, Robert P.

### Corporate Name

Ames Research Center

### Subjects

Pioneer Project  
Pioneer (Space probes)  
Space biology  
Spacelab Program  
Pioneer space probes  
Pioneer 10 space probe  
Pioneer 11 space probe  
Pioneer Venus spacecraft  
spaceborne experiments  
spacecraft environments  
Spacelab  
space laboratories

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**Geographic Name**

Moffett Field (Calif.)

**Scope and Content**

The Robert P. Hogan Collection (3 cubic feet) includes technical documents, reports, correspondence, publications, photographs, and other visual media documenting Hogan's contributions to the Pioneer Project and the Life Sciences Directorate during his career at the NASA Ames Research Center. The collection is chronologically arranged in two series that reflect the two phases of Hogan's engineering and administrative activities between 1970 and 1996. Because Hogan served as Flight Director of the Pioneer 11 Saturn Encounter in 1979, this milestone in his career is particularly well represented in Series I. Series II, which comprises the bulk of the collection, primarily documents the successes and failures of the Research Animal Holding Facility (RAHF) Project and the Rhesus Project in the Space Life Sciences Program.

The first series, Pioneer Project, contains program overviews, ephemera, news items, technical documents, slides, and photographs mainly documenting Hogan's involvement in the construction, integration, testing, and launching of the Pioneer 10 and 11 spacecraft missions to Jupiter and Saturn. Pioneer 10 was launched on March 2, 1972 and Pioneer 11 on April 5, 1973 with the groundbreaking goals of flying through the asteroid belt and gathering data on Jupiter's atmosphere, magnetosphere, magnetic fields, radiation belts, moons, and the planet's interior. Pioneer 11 was further designed to continue on to Saturn, which it reached in 1979. The Pioneer 11 Saturn Encounter resulted in the first close-up images of the planet's mythic moons and rings, as well as in the exploration of its magnetosphere and magnetic fields.

The second series, Space Life Sciences Program, contains mainly project proposals, reports, correspondence, memoranda, photographs, and technical drawings pertaining to Hogan's involvement between 1985 and 1996 in three interrelated areas of biomedical research regarding the effects of space travel on animals and plants: the Research Animal Holding Facility (RAHF) Project; the Rhesus Project; and Spacelab missions SL-3 and SLS-1.

**Arrangement of the Robert P. Hogan Collection**

The papers are arranged into two series:

- I. Pioneer Project, 1969-1997 (19 folders, 3 log books).
- II. Space Life Sciences Program, 1985-1996 (34 folders).

Boxes 1-3, 8. PP04.12-1 I. Pioneer Project 1969-1997.

**Scope and Content Note**

This series is arranged into two subseries documenting Hogan's successive assignments during the ten years he served as the NASA Ames representative at TRW Defense and Space Systems Group, a member of the operations branch during the Pioneer 10 and 11 Jupiter Encounters, and ultimately Flight Director for the Pioneer 11 Saturn Encounter.

The first subseries consists of one folder of miscellaneous documents and photographs providing program overviews of the Pioneer Project.

The second subseries focuses on various aspects of Pioneer 10 and 11 in several formats, from the ephemera, news clippings, and newsreels testifying to the scientific success and public popularity of these missions to the slides and photographs depicting novel images of the planets Jupiter and Saturn. Of particular note are the documents and photographs that provide detailed information on the planning and preparation of the dedicated team that made the Pioneer 11 Saturn Encounter possible.

Boxes 4-7. PP04.12-2 II. Space Life Sciences Program 1985-1996.

**Scope and Content Note**

This series is arranged into three subseries documenting Hogan's involvement as Chief of the Research Animal Holding Facility (RAHF) Project Office and Deputy Chief of the Space Life Sciences Payloads Office (SLSPO) in the research, construction, testing, and deployment of RAHFs on successive shuttle missions.

The first subseries documents the phases of the RAHF Project, from the establishment of design requirements for the responsible use of animal subjects in space research to the preliminary design review and ultimately the critical design review, which addressed the RAHF malfunctions occurring during the STS-51B/Spacelab-3 mission in 1985.

The second subseries documents the Rhesus Project (also known as the LPF or Large Primate Facility Project), a joint undertaking between the NASA Ames Research Center (ARC) and the Centre National d'Etudes Spatiales (CNES) of France. The project plans, supporting project data, Rhesus Research Facility (RRF) requirements, termination plan, and final report trace this joint effort to study the biomedical changes in rhesus monkeys during spaceflight.

The third subseries primarily concerns two Spacelab Missions, the STS-51B/Spacelab-3 on board the Space Shuttle Challenger in April-May 1985 and the STS-40/Spacelab Life Sciences-1 on board the Space Shuttle Columbia in June 1991. Of note are the follow-up reports, reviews, and memoranda thoroughly documenting the successes and failures of the first RAHF installed in Spacelab-3, as well as the in-flight photographs of the seven astronauts performing their experiments in the SLS-1.

I. Pioneer Project

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1. Project Overviews

Box 1, Folder 1      **Project Overviews 1973-1980**

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2. Pioneer 10 and 11

Box 1, Folder 2      **Scrapbook Items 1972-1974**  
Box 1, Folder 3      **Ephemera 1973-1997**  
Box 1, Folder 4      **News Clippings 1973-1997**  
Box 1, Folder 5      **Pioneer 11 Newsreels 29 August 1979**  
Box 2, Folder 1      **Technical Documents 1969-1981**  
Box 2, Folder 2      **Lou Dickerson F/G Handbook 1970-1972**  
Box 2, Folder 3      **Pioneer F/G Log Books [housed in flat box #8] 1971-1973**  
Box 2, Folder 4      **Pioneer Talk Slides 1974-1975**  
Box 2, Folder 5      **Pioneer Slides 1973-1978**  
Box 2, Folder 6      **Pioneer 10/11 Slides and Notes 1973-1978**  
Box 2, Folder 7      **Pioneer 11--Saturn Encounter 1979**  
Box 2, Folder 8      **Pioneer 11--Sequence of Events/Tracking Plans 1979**  
Box 3, Folder 1      **Pioneer 10/11 Photos 1973-1974 [printed 1978]**  
Box 3, Folder 2-3      **Pioneer 11/Saturn Photos 1979**  
Box 3, Folder 4-5      **Pioneer 11/Saturn Proofs 1979**  
Box 3, Folder 6      **Pioneer 11 Polaroids probably 1979**

II. Space Life Sciences Program

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1. RAHF Project

Box 4, Folder 1-6	<b>Preliminary Design Review 1985-1986</b>
Box 4, Folder 7	<b>Review Items Dispositions 1985</b>
Box 4, Folder 8	<b>Review Items Dispositions 1986</b>
Box 5, Folder 1	<b>Review Items Dispositions 1986</b>
Box 5, Folder 2-4	<b>Critical Design Review 11-12 December 1986</b>
Box 5, Folder 5-8	<b>Reference Documents 1985-1987</b>
Box 5, Folder 9	<b>Plans and Requirements 1985-1988</b>
Box 6, Folder 1	<b>Light Levels 1988</b>
Box 6, Folder 2	<b>LMSC Airflow Videotape May 1988</b>
Box 6, Folder 3	<b><i>Life into Space</i> 1995</b>

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2. Rhesus Project

Box 6, Folder 4	<b>NASA / CNES Plans 1985-1990</b>
Box 6, Folder 5	<b>Research Announcement 1988</b>
Box 6, Folder 6-9	<b>Rhesus Project Data 1989-1992</b>
Box 7, Folder 1	<b>Rhesus Project Data 1989-1992</b>
Box 7, Folder 2	<b>Termination Plan 1993-1994</b>
Box 7, Folder 3	<b>Final Report 1995-1996</b>

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3. Spacelab Missions

Box 7, Folder 4	<b>SLS Presentation Aids approximately 1982-1995</b>
Box 7, Folder 5-7	<b>Follow-Up Documentation 1985-1993</b>
Box 7, Folder 8	<b>SLS-1 Crew Briefings 1988</b>
Box 7, Folder 9-10	<b>SLS-1 Flight Photos 1991</b>