



Guide to the
Robert P. Hogan Collection, 1969-1997
PP04.12

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NASA Ames Research Center

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Descriptive Summary

Title:

Robert P. Hogan Collection, 1969-1997

Collection Number:

PP04.12

Creator:

Hogan, Robert P.

Dates:

Inclusive: 1969-1997

Extent:

Volume: 3 cubic feet

Repository:

NASA 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.

Administrative Information

Access:

Collection is open for research.

Publication Rights:

Copyright does not apply to United States government records. For non-governmental material, researcher must contact the original creator.

Preferred Citation:

[Identification of item], Robert P. Hogan Collection, [Container number]: [Folder number], NASA Ames History Office, NASA Ames Research Center

Acquisition Information:

Donated by Robert P. Hogan in September 2004.

Biographical Note

Robert P. Hogan

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.

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.

Series Descriptions

Series I: Pioneer Project, 1969-1997. 19 folders, 3 log books.

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.

Series II: Space Life Sciences Program, 1985-1996. 34 folders.

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.

Indexing Terms

The following terms may be used to index this collection.

Corporate Name

Ames Research Center

Geographic Name

Moffett Field (Calif.)

Personal Name

Hogan, Robert P.

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

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.

Container List

SERIES I: PIONEER PROJECT

Box	Folder	Folder Title
1. Project Overviews		
1	1	Project Overviews, 1973-1980
2. Pioneer 10 and 11		
	2	Scrapbook Items, 1972-1974
	3	Ephemera, 1973-1997
	4	News Clippings, 1973-1997
	5	Pioneer 11 Newsreels, 29 August 1979
2	1	Technical Documents, 1969-1981
	2	Lou Dickerson F/G Handbook, 1970-1972
	3	Pioneer F/G Log Books, 1971-1973 [housed in flat box #8]
	4	Pioneer Talk Slides, 1974-1975
	5	Pioneer Slides, 1973-1978
	6	Pioneer 10/11 Slides and Notes, 1973-1978
	7	Pioneer 11 – Saturn Encounter, 1979
	8	Pioneer 11 – Sequence of Events/Tracking Plans, 1979
3	1	Pioneer 10/11 Photos, 1973-74 [printed 1978]
	2-3	Pioneer 11/Saturn Photos, 1979
	4-5	Pioneer 11/Saturn Proofs, 1979
	6	Pioneer 11 Polaroids, probably 1979

SERIES II: SPACE LIFE SCIENCES PROGRAM

Box	Folder	Folder Title
1. RAHF Project		
4	1-6	Preliminary Design Review, 1985-1986
	7	Review Items Dispositions, 1985
	8	Review Items Dispositions, 1986
5	1	Review Items Dispositions, 1986
	2-4	Critical Design Review, 11-12 December 1986
	5-8	Reference Documents, 1985-1987
	9	Plans and Requirements, 1985-1988
6	1	Light Levels, 1988

- 2 LMSC Airflow Videotape, May 1988
- 3 *Life into Space*, 1995

2. Rhesus Project

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

3. Spacelab Missions

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