



Guide to the
Histories of Ames Research Files
AFS1070.9

NASA Ames Research Center Archives

Contact Information:

NASA Ames Research Center Archives

Mail-Stop 207-1

Moffett Field, CA 94035-1000

Phone: (650) 604-1032

Email: ARC-DL-archives@mail.nasa.gov

URL: <https://www.nasa.gov/archives/arc-archives/>

Collection processed by:

Helen Rutt, Leilani Marshall, and April Gage

Finding aid updated by April Gage, February 2024

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Descriptive Summary

Title:

Histories of Ames Research Files

Collection Number:

AFS1070.9

Creator:

Ames Research Center

Dates:

Inclusive: 1940-2009

Extent:

209 digital items (1.02 Gigabytes) and 6.3 cubic feet of analog material

Repository:

NASA Ames Research Center Archives

Moffett Field, California 94035

Abstract:

This collection contains research materials collected by individuals hired by NASA to write histories of NASA Ames or its research and development activities. Included are drafts of monographs, articles, and biographical sketches of personnel, as well as the materials gathered by the authors during their research. The documentation in this collection covers the history of NASA Ames from the early 1940s through 2009, and includes information gathered from sources such as oral interviews, historical collections in the Ames History Archives, the Center's newsletter (Ames "Astrogram"), Ames business units, and writings and papers by NASA Ames engineers and scientists. The following researchers compiled the materials in this collection: Edwin P. Hartman, Edith W. Watson, Elizabeth A. Muenger, Glenn E. Bugos, Kristen Edwards, Karen Dunn-Haley, and James N. Anderson.

Administrative Information

Access:

Restricted Partly. Some portions of the collection are restricted.

Accruals:

Research files about Ames Research Center by James N. Anderson (Acc. 2019-009) were added to the collection to form Series VII in December 2019.

Publication Rights:

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

Languages and Scripts:

All records are in English.

Preferred Citation:

Expanded:

NASA Ames Research Center Archives. Moffett Field, California. AFS1070.9, Histories of Ames Research Files, [Container number] : [Folder number]. [Identification of item]. [Date, if available].

Abbreviated:

NASA ARC. AFS1070.9 [Container number] : [Folder number]. [Identification of item]. [Date, if available].

Acquisition Information:

The legacy material in Series I-VI of this collection was acquired over time, without acquisition documentation, and processed as a collection for the first time in 1998 by Helen Rutt, then re-processed in 2005 by Leilani Marshall. Series VII was acquired from James N. Anderson in 2009 (Acc. 2019-009).

Scope and Content

The Histories of Ames Research Files collection comprises research products and supporting materials accumulated by individuals hired by NASA to write about the history of Ames. The materials in this collection cover portions of the center's history from 1940 through 2009. Included are drafts of historical products such as monographs, biographical sketches, and articles, as well as research files compiled by the researchers, which include source materials, notes, and oral interviews.

This collection contains the following series:

- Series I, Edwin P. Hartman, contains drafts of Hartman's book *Adventures in Research: A History of Ames Research Center, 1940-1965* (NASA SP-4302).
- Series II, Edith W. Watson, contains research files Watson compiled for updating Hartman's book *Adventures in Research*.
- Series III, Elizabeth A. Muenger, comprises the research files that Muenger accumulated for her monograph entitled *Searching the Horizon: A History of Ames Research Center, 1940-1976* (NASA SP-4304), as well as a draft copy of the work.
- Series IV, Glenn E. Bugos, contains comment drafts of Bugos's book *Atmosphere of Freedom: Sixty Years at the NASA Ames Research Center* (NASA SP-4314).
- Series V, Kristen Edwards, contains the research files that supported her 1999 article entitled *The US-Soviet/Russian Cosmos Biosatellite Program*.
- Series VI, Karen Dunn-Haley, includes research files and drafts of papers written by Dunn-Haley on the issues of manpower, the environment, safety, and external affairs at Ames Research Center.
- Series VII, James N. Anderson, includes research files, oral interviews, and historical articles produced by Anderson to support the 2010 edition of the book *Atmosphere of Freedom* (NASA SP-2010-4314).

System of Arrangement

The collection is arranged into series by researcher (roughly in the order of when their work was either commissioned by NASA or subsequently acquired by the archives) and the body of materials they produced.

Series Descriptions

Series I: Edwin P. Hartman, Boxes 1-3.

The first series contains draft versions of Edwin Hartman's book *Adventures in Research: A History of Ames Research Center, 1940-1965*, published in 1970 (NASA SP-4302), as well copies of the photographs used in the book. No research files are found in this series.

Edwin Hartman's papers provide comprehensive information about the first twenty-five years of Ames, such how the center was founded, when various structures were built, how various research disciplines evolved, and many of the center's earliest managers, scientists, engineers, and researchers, as well as their areas of expertise and the contributions they made to the field of aeronautics and aerospace.

This material is arranged to reflect the structure of Hartman's book. Within the subseries, photographs follow typescripts of the book chapters.

Series II: Edith W. Watson, Boxes 3-10.

The second series contains research files that former assistant to the center director Edith Watson (known as "Edie" by her colleagues) compiled in 1977 to provide source material for updating Hartman's book *Adventures in Research*. The update to the Hartman book was not completed until several years later when Elizabeth Muenger was commissioned to write it. These files are especially useful in understanding the activities and research that was taking place at Ames during the 1960s and 1970s. Content of note are histories of some of the center's branches, which were written by individuals in the branches at Watson's request.

This series is organized alphabetically by subject, following Watson's own arrangement scheme.

Series III: Elizabeth A. Muenger, Boxes 10-12.

The third series comprises the research files that historian Elizabeth Muenger accumulated to support her 1985 monograph entitled *Searching the Horizon: A History of Ames Research Center, 1940-1976* (NASA SP-4304). Muenger's files provide insight into the center's technological achievements, particularly in areas such as life sciences and thermal protection systems. Muenger also collected several writings by William F. Ballhaus, Jr., who was the center director at that time.

This series is arranged by subject files and then book drafts. The subject files are arranged alphabetically, and the drafts are arranged chronologically.

Series IV: Glenn E. Bugos, Boxes 14-15.

The fourth series contains drafts and peer review commentary for the 2000 book by former Ames center historian Glenn Bugos entitled *Atmosphere of Freedom: Sixty Years at the NASA Ames Research Center* (NASA SP-4314). No research files are found in this series. The value of this series resides primarily in the feedback from Ames personnel and other NASA historians who reviewed the work while in progress.

Materials are arranged by drafts and reviews, followed by information related to some of the imagery used.

Series V: Kristen Edwards, Boxes 15-17.

The fifth series contains the research files that supported historian Kristen Edwards's 1999 article entitled *The US-Soviet/Russian Cosmos Biosatellite Program*, which was published in the fall issue of *Quest: The History of Spaceflight Quarterly*. These files mainly pertain to the Cosmos Biosatellite program, which was a series of joint US/Russian space biosciences investigations conducted aboard Russia's uncrewed, Earth-orbiting, Bion satellites. Also included are files pertaining to other space life sciences topics and the study of life sciences at Ames.

This series is arranged alphabetically by subject, followed by a draft copy of the paper.

Series VI: Karen Dunn-Haley, Boxes 17-18.

The sixth series includes research files for papers Dunn-Haley published in 1999 that examined issues of manpower, the environment, safety, and external affairs at Ames. The material in this series provides insight into safety, work, labor, and environmental issues as addressed at Ames in the late 1990s.

This series is arranged alphabetically by subject, followed by draft copies of the papers in alphabetical order.

Series VII: James N. Anderson.

The seventh series includes research files, oral interviews, historical articles, and biographical sketches of selected Ames personnel. The material was produced by Ames center historian James Anderson while serving as a research assistant in 2008-2009 to support the seventieth anniversary edition of the book *Atmosphere of Freedom* (NASA SP-2010-4314). Biographical articles and recorded interviews of the following individuals are present: James O. Arnold (Stardust, planetary probes, TPS), Anthony Colaprete (astrophysical, planetary, and atmospheric science; Mars, Earth's moon, LCROSS), Patricia S. Cowings (space biomedicine), David J. Des Marais (astrobiology, extremophiles), Meyya Meyyappan (nanotechnology), and

Charles K. Sobeck (Galileo Probe, Kepler). A paper about the Stardust mission is included with supporting research files and oral interviews with James O. Arnold, Dave E. Jordan, Daniel J. Rasky, Scott A. Sandford, and Huy K. Tran.

This series is arranged into two portions: biographical interviews, organized by narrator, and Stardust. These files are all further arranged into three parts: paper drafts and notes, recordings, and research files. This entire series is in digital format (PDF, RTF, MP3).

Indexing Terms

The following terms may be used to index this collection.

Corporate Name

Ames Research Center

Geographic Name

Moffett Field (Calif.)

Personal Name

Anderson, James N.

Bugos, Glenn E.

Dunn-Haley, Karen

Edwards, Kristen

Hartman, Edwin Phelps

Muenger, Elizabeth A.

Watson, Edith W.

Related Collections

AFS1070.8A: Archives Reference Collection

Container List

Box	Folder	Series ID	Title
1	1	I.I	History of Ames Research Center, Outline (1 of 2)
1	2	I.I	History of Ames Research Center, Outline (2 of 2)
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1	8	I.3.A	Cover to Page 60
1	9	I.3.A	Page 61 to Page 120
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1	11	I.3.A	Page 183 to Page 260
1	12	I.3.B	173-1 to 187-2
2	1	I.3.B	187-3 to 204-5
2	2	I.3.B	216-1 to 242-2
2	3	I.3.B	247-1 to 268-1
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2	8	I.4.A	Cover to Page 87
2	9	I.4.A	Page 88 to Page 165
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2	12	I.4.B	496-1 to 546-1
3	1	I.4.B	546-2 to 596-3
3	2	I.4.B	603-1 to 612-2
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3	7	II	Advanced Avionics Program FS
3	8	II	Aeronautics Division, 1976-. Aeronautics Division, 1966 - 8/29/76 FA Aeronautics and Flight Systems (Directorate), 1971 - 1977. Aeronautics and Flight Mechanics (Directorate) 1966-1971
3	9	II	Aeronautics Corporate Memory Seminars (1978)
3	10	II	Air Force Space Digest Articles (Giant Harvest from Space - Today and Tomorrow) by James J. Haggerty
3	11	II	Air Force Systems Command Liaison Office
3	12	II	Airborne Missions Application Division, SEP
3	13	II	Aircraft: List of Ames Aircraft, 1961 - 1979 (Code F)
3	14	II	Aircraft Operations Division, 1/2/74- (Code FO)
3	15	II	Allen, H. Julian (Director, 10/65 - 2/69)
3	16	II	Annual Report to Center by Director
3	17	II	Army Aeronautical Research Laboratory (AARL)
4	1	II	

4	2	II	ASEE - NASA Fellowship Program
4	3	II	Aeronautics (Directorate), Code S
4	4	II	Augmentor Wing Jet STOL (Buffalo C-8), FV
4	5	II	Avionics Systems Branch FSV
4	6	II	Award - H. Julian Allen
4	7	II	Awards
4	8	II	Benefits from Space Research (1 of 2)
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4	11	II	Biomedical Research Division, 3/16/72- LR (2 of 3)
4	12	II	Biomedical Research Division, 3/16/72- LR (3 of 3)
4	13	II	Biosatellite
5	1	II	Biosatellite Project. Historical Summary Report. December 1969
5	2	II	Boyd, John W.
5	3	II	Buck, Jeff (Ames Laboratory Scrapbook)
5	4	II	Buck, Jeff (Maps and Aerial Photographs of Ames)
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6	15	II	Harnett, Daniel J. Statement before the Committee on Aeronautical Space Sciences, United States Senate
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11	7	III.1	Jones, R. T.
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14	7	IV.3	Peer Reviewed by Roger A. Launius
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15	12	V.1	Bion 11
15	13	V.1	Chambers, Larry
15	14	V.1	Cohen, Bernard
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16	1	V.1	Cosmos 936
16	2	V.1	Cosmos 1129
16	3	V.1	Cosmos 1514
16	4	V.1	Cosmos 2044
16	5	V.1	Cosmos 2229
16	6	V.1	Edgerton, Reggie
16	7	V.1	Helwig, Denise
16	8	V.1	Holton, Emily
16	9	V.1	Institute for Biomedical Problems, Moscow
16	10	V.1	Interviews with Russians by Richard Mains
16	11	V.1	Joint Working Group Meeting Protocols
16	12	V.1	Journal Articles on Bion
16	13	V.1	Mains, Richard
16	14	V.1	NASA Headquarters News Releases
16	15	V.1	NASA Life Sciences Information
16	16	V.1	Overviews of Bion (Collected by Mains)
17	1	V.1	Philpott, Delbert
17	2	V.1	Photographs
17	3	V.1	San Jose Mercury News Articles
17	4	V.1	Skidmore, Mike
17	5	V.1	Souza, Kenneth L.
17	6	V.1	Tverskaya, Galina
17	7	V.1	U.S./Russian Space Cooperative Agreements
17	8	V.2	Preliminary Draft, March 1999. The U.S.-Soviet/Russian Cosmos Biosatellite Program
17	9	VI.1	Environment
17	10	VI.1	External Affairs
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17	12	VI.1	Labor Issues

18	1	VI.1	National Federation of Federal Employees (NFFE)
18	2	VI.1	Safety Issues
18	3	VI.1	Selected Bibliography on NASA Ames History
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18	5	VI.2	Manpower Sources at Ames
18	6	VI.2	Safety Issues at NASA Ames (April 1999)
18	7	VI.2	Work Issues at Ames. Labor History. Equal Opportunity and Academic Cooperative Agreements (April 1999)

Digital File Inventory (Series VII)

BiographicalInterviews
Stardust

./BiographicalInterviews:

Arnold
Colaprete
Cowings
DesMarais
Meyyappan
Sobeck
WalterVincenti

./BiographicalInterviews/Arnold:

Thumbs.db
biographical-sketches+notes
recordings
research-files

./BiographicalInterviews/Arnold/biographical-sketches+notes:

Arnold-Bio-short.pdf
Arnold2.rtf
ArnoldDRMs.rtf
ArnoldDraft.rtf
ArnoldLastSec3.rtf

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001_Arnold26Jan.mp3
002_Arnold2-1.mp3
003_Arnold3.mp3

./BiographicalInterviews/Arnold/research-files:

2001-NASA-MarsSurfaceReferenceMission.pdf

20071001drake.pdf
2008042808.pdf
Arnold-BibliographyOfPublications.rtf
FollowtheTPSv10_com-9DB.pdf
ProbeList.rtf
SP-6107-ADD.pdf
SeiffPAET.pdf
mars_ref_mission_sp6107.pdf

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recordings
research-files

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ColapreteNotes.rtf

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AIAA-1998-14-655.pdf
CO2snow.pdf
Colaprete-MWCW.pdf
JGR108.pdf
LCROSS.pdf
RoboticLunarExplor.pdf
chaser.pdf
eor.pdf
tolbertM-cv.pdf
toon-bio-2004.pdf
toon-vita-2004.pdf

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biographical-sketches+notes
recordings
research-files

./BiographicalInterviews/Cowings/biographical-sketches+notes:
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CowingsNotes.rtf

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AFTEpatent.pdf
AFTEwashout.pdf
AFTbackground&design.pdf
AFTpromethazine.pdf
AFTspaceadaptsyn.pdf
ArmyApplication.pdf
C2V.pdf
C2Varmyeffect.pdf
C2Vsickness.pdf
ConstructMethodology.pdf
HeartImpedanceSoftware.pdf
SHFCowings2003_slides.pdf
SPADthesis.pdf
afte-AutogenicFeedbackTrainingSystem.pdf

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biographical-sketches+notes
recordings
research-files

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DesMarais.rtf

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2003roadmap.pdf
2008roadmap.pdf
BiogeoClockAug06.jpg
Des_Marais_Science_2000.pdf
GN-SatelliteImage.tif

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research-files

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Questions.rtf

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./BiographicalInterviews/Sobeck:
biographical-sketches+notes
recordings

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./BiographicalInterviews/WalterVincenti:
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./Stardust:
Recordings
paper-drafts-notes
research-files

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014_Sandford.mp3
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