



Guide to the
David W. Lozier Papers
ARC10.16

NASA Ames History Archives
NASA Ames Research Center

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Descriptive Summary

Title: David W. Lozier Papers

Collection Number: ARC10.16

Creator: Lozier, David W.

Dates:

Inclusive: 1962-2008

Bulk: 1996-2007

Extent: Volume: 1,032 digital items; 846.4 Megabytes

Repository: NASA Ames History Archives, Moffett Field, California 94035

Abstract:

This collection contains personal papers of David W. Lozier, a retired NASA Ames Research Center computer programmer, engineer, and flight director. This includes personal scrapbooks, recollections, materials related to Pioneer Project missions, Lunar Prospector mission papers, project documents for multiple probe and telescope missions, images related to NASA culture, and work and reference files including mission design and analysis documentation and data, concept studies, proposals, technical papers, and some notes, meeting minutes, correspondence, plans, timelines, schedules, reference documents, press kits, and photographs. Many file directories include trajectory plots, analyses, and related data.

Administrative Information

Access: Collection is open for research. Portions may be subject to restrictions.

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

Languages and Scripts: All records are in English.

Preferred Citation

Expanded:

NASA Ames History Archives, NASA Ames Research Center. Moffett Field, California. ARC10.16, David W. Lozier Papers, [Container number] : [Folder number]. [Identification of item]. [Date, if available].

Abbreviated:

NASA ARC. ARC10.16, [Container number] : [Folder number]. [Identification of item]. [Date, if available].

Acquisition Information: Donated by David W. Lozier on July 7, 2010 (Accession 2010-016).

Biographical History

Born in Olympia Washington in 1943, David Lozier was recruited by NASA Ames in 1965 as he was graduating from Washington State University with a degree in mathematics. He was hired as a civil servant in 1966 to work on the Pioneer Project. Pioneer 6 had launched, but the project needed a computer programmer to debug and finish trajectory codes, which was Lozier's first role at NASA. His career at Ames spanned 38 years, ending with his retirement in 2005. Proud of his work, he collected articles, excerpts, photographs, and ephemera relating to each of his projects and others that interested him, with an eye toward detailing his legacy.

Lozier worked on Pioneer Project missions 6, 7, 8, 9, E, 10, 11, 12, and 13 sending four spacecraft around the Sun, two to Jupiter and Saturn, a Venus orbiter that lasted 14 years, and four probes into the atmosphere of Venus (collectively known as Pioneer Venus). The Pioneer Projects focused mostly on interplanetary space probe exploration. Pioneers 6, 7, 8, 9 and E (1965-1968) were created to make the first comprehensive measurements of the solar wind, solar magnetic field and cosmic rays. Pioneers 10 (1973) and 11 (1979) were the first to leave the solar system. Lozier eventually became Flight Director for the Pioneer Program and received many honors and awards for his work on that project and others.

He also worked in mission design for the Lunar Prospector, which was selected by NASA in 1995 as the first of NASA's Discovery Missions, with the primary goal of mapping the surface of the Moon.

Lozier's involvement with trajectories sparked his interest in various NASA studies that he didn't work directly on, including Mars missions, Galileo, Cassini, and other projects that required trajectory analysis. By the end of his career, his specialties included mission analysis and planning, systems engineering, and mission flight design. His technical publications relating to these specialties included several papers published by AIAA regarding Lunar Prospector mission design, Pioneer Venus, and various papers presented at conferences.

Lozier described himself as follows: "I enjoy travel, reading, hiking and fishing. I like explaining celestial mechanics, trajectories, orbits, and launch rockets to students and people that ask me questions about NASA. I consider myself a rocket man, and a celestial mechanic."

A full list of his roles follows:

1998 to 2005	Ames Research Center, Mission Design Engineer, Advanced Missions Branch
1995 to 1998	Ames Research Center, Trajectory Team Leader, Lunar Prospector Mission
1989 to 1997	Ames Research Center, Flight Director, Pioneer Project
1984 to 1989	Ames Research Center, Assistant Flight Director, Pioneer Project
1983 to 1984	Lewis Research Center, Mission Design Engineer, Shuttle Centaur Project

- 1982 to 1983 Ames Research Center, Flight Operations Planning Engineer, Galileo Probe Mission
- 1980 to 1982 Ames Research Center, Mission Design Engineer, Space Operations Office
- 1979 to 1980 Ames Research Center, Geobased Information Systems Project Manager, Remote Sensing and IR Imaging Technology Utilization branch
- 1976 to 1979 Ames Research Center, Mission Analysis and Midcourse Maneuver Operations Planning Engineer, Pioneer Venus Orbiter and Multiprobe Project
- 1966 to 1976 Ames Research Center, Payload Integration and Launch Operations Engineer, Pioneer 6-9 and Pioneer 10/11 Projects

Sources Consulted

- NASA Ames History Archives, NASA Ames Research Center. Moffett Field, California. ARC10.16, David W. Lozier Papers, 1 : 1. Biography: David W. Lozier AKA Rocket Man (DWL_CV_bio.pdf). 2002.
- NASA Ames History Archives, NASA Ames Research Center. Moffett Field, California. ARC10.16, David W. Lozier Papers, 1 : 1. David W. Lozier Business Card (DWL_color4_retired_Redacted.pdf). 2005.

Scope and Content

This collection comprises nearly forty years of David Lozier's career at NASA Ames, primarily concerning spacecraft trajectory calculation work on various missions within the solar system, starting with the Pioneer 6-9 missions. The collection contains scans and born digital files including photographs; scrapbooks; technical papers; recollections; clippings; correspondence; advisement on an external Pioneer website; mission management documentation and trajectory and other technical data for various missions, including the Pioneers, Lunar Prospector, Mars 2001 Odyssey, Kepler, and others. The born digital content was created in the 1990s through 2008, while the bulk of the scans are digital copies of items from the 1960s through the 1980s.

System of Arrangement

Arranged in two series: I. Scrapbooks and Personal Papers, 1962-2010. II. NASA Work, 1996-2007. The creator's original order was retained for the bulk of the collection.

Processing Information

Digital files were imaged from a DVD-R disk during processing. Unstable file formats were reformatted to stable, widely-adopted formats such as PDF. Nonconforming characters and spaces were removed from filenames.

Series Descriptions

Series I: Scrapbooks and Personal Papers, 1962-2008

This series documents Lozier's personal recollections and research, with particular focus on his time working with the Pioneer Project from 1966 until 1997, first as an engineer and eventually as flight director.

Contained within are digital scrapbooks in which Lozier, after retiring from NASA in 2005, combined historical images with his own descriptive text to illustrate his personal experiences in the space program and work done on Pioneer 6 through Pioneer Venus, as well as Lunar Prospector. Several documents demonstrate Lozier's admiration for the Pioneer Project Manager, Charles Hall, who led the project from 1962 until 1980. Lozier advised on Mark Wolverton's 2004 book about Pioneer interplanetary probes, *The Depths of Space*, and this series contains some of their correspondence in which Lozier gives historical context and clarification to Wolverton, as well as a draft of Wolverton's article about Pioneer Saturn, "Pathfinding the Rings." Lozier also advised on Hamish Lindsay's webpage about the Pioneer missions, part of a website that honors the Deep Space Network work performed at the Honeysuckle Creek Tracking Station in Canberra, Australia. Also included: Lozier's curriculum vitae, retirement business cards, excerpted project data, and short autobiographies; photographs including personal snapshots of himself, colleagues, flight hardware, and ephemera from the 1960s through the 2000s, as well as images of favorite books a Pioneer Project bibliography he compiled, trajectory designs, and events; and Lozier's collected clippings and newsletters relating to the Pioneer Project over many decades, from both NASA and external publications including *Star Date*, *Air and Space*, *Mercury*, the *Journal of the British Interplanetary Society* and others, for his personal research and reference.

Series II: NASA Work, 1996-2007

This series contains working files mainly relating to several flown and proposed solar system exploration missions that Lozier worked on during the last decade of his tenure at Ames. These cover a range of endeavors, such as: lunar rover, impactor, penetrator and sample return (Victoria, Lunar Prospector, Polar Night); Mars rover, airplane, and communications networks (e.g., Mars Exploration Rover, Express, Global Surveyor, Aeroplane); Venus probes (Evening Star, Venus Surface and Atmosphere Geochemical Explorer); and space telescopes using spectroscopy to address questions in astrobiology (Kepler and Astrobiology Explorer).

Files included are mission design and analysis documentation and data, concept studies, proposals, technical papers, and some notes, meeting minutes, correspondence, plans, timelines, schedules, reference documents, press kits, and photographs. Many file directories include trajectory plots, analyses, and related data generated by Lozier and colleague Khaled F. "Ken" Galal.

Indexing Terms

The following terms may be used to index this collection.

Corporate Name

Ames Research Center

Personal Name

Lozier, David W.

Subjects

2001 Mars Odyssey
Astrobiology Explorer
Astronautics
Beagle aircraft
Celestial mechanics
Evening Star mission
Full-sky Astrometric Mapping Explorer
Genesis mission
Jupiter Icy Moons Orbiter Low-Thrust Propulsion System
Kepler mission
Lunar exploration
Lunar Prospector
Mars exploration
Mars Exploration Rover Mission (U.S.)
Mars Express
Mars Global Surveyor
Moon--Exploration use Lunar exploration NASAT
Near Earth Asteroid Rendezvous
New Frontiers Program
New Full-Sky Astrometric Mapping Explorer
Outer space--Exploration
Pascal Mars Climate Network mission
Pioneer 10 space probe
Pioneer 11 space probe
Pioneer 6 space probe
Pioneer 7 space probe
Pioneer 8 space probe
Pioneer 9 space probe
Pioneer project
Pioneer Venus spacecraft
Planets--Exploration
Polar Night Mission
Space probes
Space trajectories
STEREO (observatory)
Trajectory analysis
Trajectory planning
Venus Surface and Atmosphere Geochemical Explorer
Victoria mission

Separated Material

The following items were removed from the collection.

Published data, general manuals, general computer program appliances, UNIX executable files, corrupted files, duplicates, and drafts.

Selected publications unrelated to Lozier's work:

Copies of Ames Astrogram newsletters (1959-1999)

"Fortran and the Space Program." Lahey Computer Systems, Inc.
<http://www.lahey.com/#contents>

Clark, Arthur C. "Extra-Terrestrial Relays: Can Rocket Stations Give World-wide Radio Coverage?" *Wireless World*. (October 1945): 305-308

Clarke, Victor C., Jr. "Design of Lunar and Interplanetary Ascent Trajectories." Jet Propulsion Lab, Pasadena, CA. (JPL Technical Report No. 32-30 Revision No. 1), 1962.

Doody, David and Diane Fisher. "Basics of Spaceflight: A Paper Version of the <http://www.jpl.nasa.gov/basics> Interactive Online Tutorial." Jet Propulsion Laboratory, Pasadena, CA. (JPL D-20120), May 2001.

Turyshev, Slava G. "The Pioneer Anomaly: Effect, New Data and New Investigation." Jet Propulsion Laboratory, Pasadena, CA. (TPS 20080417), April 13, 2008. American Physical Society Meeting, St. Louis, Missouri.

Related Collections

AFS1380.39A: Ames Astrogram, 1958-2020

AFS8000.5-LP: Lunar Prospector Project Records, 1995-1998

AFS8100.15A: Pioneer Project Records, 1952-1996

Acronyms

ABE	Astrobiology Explorer
ARC	Ames Research Center
ASTP	Advanced Space Technology Program
DSN	Deep Space Network
FAME	Full-Sky Astrometric Mapping Explorer
GSFC	Goddard Space Flight Center
ICD	Interface Control Document
JIMO	Jupiter Icy Moons Orbiter Low-Thrust Propulsion System
LDD	Long Day's Drive
LOI	Lunar Orbit Insertion
LP	Lunar Prospector
MCC	Midcourse Correction
MGS	Mars Global Surveyor
PN	Pioneer Project
OD	Orbit Determination
SAGE	Venus Surface and Atmosphere Geochemical Explorer

STEREO Solar TERrestrial RELations Observatory
TCM Trim Correction Maneuvers
TDRSS Tracking and Data Relay Satellite System
TLI Translunar Insertion

Container List

Lozier_Scrapbooks_Personal
NASA_Work

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Astrogram
Books_Golden_Age_of_Space.pdf
DWL_CV_bio.pdf
DWL_History.pdf
DWL_color4_retired_Redacted.pdf
David_Scrapbook.pdf
Golden_Age_of_Space_Exploration.pdf
LP_FasterCheaperGoodEnough.pdf
NASA_JPGs
Pioneer
This_I_Believe_Musings_of_a_Space_Cadet.pdf

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Astrogram_031102.pdf
Astrogram_0402.pdf
Astrogram_1972_PN10.pdf
Astrogram_1999_09_13.pdf

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100PVOCometteam.JPG
101PVOHalleySign.JPG
102PVOorbit.JPG
103PVOentryteam.JPG
104PVOSSG5.JPG
105PVOentryburnup.JPG
106PVOPsteam.JPG
107PVOentrysign.JPG
109LPonTLIS.jpg
10PNslingS.jpg
110LPcrew.JPG
110LPcrewS.jpg
11PNEfitDWLBWS.jpg
12PNEfitDWLcolorS.jpg
13PN6sepspringS.jpg
14PNfitS.jpg
15BobHofstetterS.jpg
16RalphHoltzclawS.jpg
17PN6FW4onpadS.jpg
18PN6fairingS.jpg
19JohnTomaselloS.jpg
1allPNS.jpg
20TetrS.jpg
21PN6launchS.jpg
22PN6launchS.jpg
23PN7launchS.jpg
24PN8launchS.jpg
25PN9launchS.jpg

26PNElaunchS.jpg
27DWLMDCfrontS.jpg
28DavidMDCS.jpg
29DWLMDCbackS.jpg
2PN6S.jpg
30PN69trajS.jpg
31PNOPS60smanS.jpg
32PNOPS60sS.jpg
33PN69solarwindS.jpg
34PN69ApolloS.jpg
35DWLlateteletypeS.jpg
36TischlerS.jpg
378740.jpg
37DaveatCRTS.jpg
38DavecomputersS.jpg
39RagelatterterminalS.jpg
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40RagelatDSNconsoleS.jpg
41PNFab50S.jpg
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53PN10onPadS.jpg
54PN10padstructureS.jpg
55CHEV.BMP
55PN10launchS.jpg
56PN11launch.JPG
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61DSS14.JPG
62DSN70m.JPG
63DSNant2.JPG
64DSNreps.JPG
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66JPLMOS2.JPG
67JPLdarkroom1.JPG
68JPLdarkroom2.JPG
69JPLdarkroom3.JPG
6PNcargoS.jpg
71PVMpsc.JPG
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80PVaward.JPG
82PVMpatmentry.JPG
83PNOPS90scontrol.JPG
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88UCSDmtg.JPG
89PSGVan.JPG
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98OUVSHalley.JPG
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Apollo
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Buzz.jpg
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DWL4.jpg
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DWLcard.jpg
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DaveDSN.jpg
DaveNASA.jpg
DavePassport.jpg
DavePassport2.jpg
Daveleft.jpg
DavidHAC.jpg
DavidLMC.jpg
DavidNASA.jpg
DavidTRW.jpg
EarlyPNpics
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Goldenage.jpg
Goneregardless.jpg
Hangers.JPG
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JPLTRs.JPG
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LPCrew2.jpg
LPPin.JPG
LPcrew.jpg
LPtraj.jpg
MDC.JPG
NASAHQPN6-9.JPG
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PG5.jpg
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PN-10F.jpg
PN-10Fb.jpg
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PN-10H.jpg
PN-9Launchcrew1969.jpg
PN-EDelta73.jpg
PN10DSNbriefing.jpg
PN10lastcontact.jpg
PN11PN10LPpatch.jpg
PN11Saturn.JPG
PN11ringpass.jpg
PN6-9DSN.JPG
PN6-9Delta.JPG
PN6-9OBrien.JPG
PN6-9SC.JPG
PN6.JPG
PN69orbits.JPG
PN69team.jpg
PN6FW4fairing.JPG
PN6fitcheck.JPG
PN7launch.JPG
PN8PNEpatch.jpg
PN9launchteam.jpg
PN9patch.jpg
PNOPS60sBW.JPG
PNOPS60scolor.JPG

PNproject1.jpg
PNproject2.JPG
PVOnavPN10patch.jpg
Pad17.JPG
Pioneer20024.jpg
Pioneer-10-and-Pioneer-11.jpg
Pioneer10escapes.jpg
PioneerOdyssey.jpg
TETR4x6.jpg
Tenise.jpg
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TomGroves.jpg
Turtle.jpg
TurtleA.JPG
TurtleB.JPG
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3BConquestoftheMoon.jpg
3CConquestoftheMoon.jpg
4ATheExplorationofMars.jpg
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4CTheExplorationofMars.jpg
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B2.JPG
B3.JPG
B4.JPG
GravityAssists.jpg
LunarInjectionAccuracy.jpg
LunarandInterplanetaryTargeting.jpg
NearEncounterGeometry.jpg
ScienceandFiction
SolarPolar.jpg
Space
SpaceTrajectoriesProgramfortheIBM7090Computer.jpg
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AscenttoOrbit.jpg
BlueprintforSpace.jpg
ChallengeoftheStars.jpg
CloseupNewWorlds.jpg
Futures50YearsinSpace.jpg
ImaginingSpace.jpg
InfiniteWorlds.jpg
InterplanetaryFlight.jpg
IntheStreamofStars.jpg
OurWorldsinSpace.jpg
OutoftheCradle.jpg
PioneeringtheSpaceFrontier.jpg
SFScienceFiction.jpg
SpaceArt.jpg
TheArtofChesleyBonestell.jpg
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TotheEdgeoftheUniverse.jpg
TravelersinSpaceandTime.jpg
VisionoftheFutureBenBovaMcCall.jpg
VisionsofSpace.jpg
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MarsasViewedbyMariner9.jpg
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OnMars1958-1978.jpg
OutoftheCradle.jpg
Pioneer6-9Project.jpg
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SP-350ApolloExpeditiontotheMoon.jpg
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SP-479Galileo.jpg
SP-518PioneeringVenus.jpg
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VoyagestoSaturn.jpg
VoyagestoJupiter.jpg
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WindTunnelsofNASA.jpg
WorldSpacecraft.jpg

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Apollo2movies.jpg
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CocoaBeachSign2.jpg
CocoaBeachmap.JPG
Deltaleft.jpg
FatBoys.JPG
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MT.jpg
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BobHogan.jpg
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