



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. Add something about Pioneer Venus? 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 (Spacecraft)  
Astronautics  
Beagle Aircraft  
Celestial Mechanics  
Evening Star Mission  
New Frontiers Program  
Full-sky Astrometric Mapping Explorer (Spacecraft)  
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  
Near Earth Asteroid Rendezvous  
New Full-Sky Astrometric Mapping Explorer  
Outer space--Exploration  
Pascal Mars Climate Network Mission  
Pioneer 6 Space Probe  
Pioneer 7 Space Probe  
Pioneer 8 Space Probe  
Pioneer 9 Space Probe  
Pioneer 10 Space Probe  
Pioneer 11 Space Probe  
Pioneer F (Spacecraft)  
Pioneer G (Spacecraft)  
Pioneer Project  
Pioneer Venus Spacecraft  
Planets--Exploration  
Polar Night Mission  
STEREO (Observatory)  
Space Probes  
Space Trajectories  
Trajectory Analysis  
Trajectory Planning  
Venus Surface and Atmosphere Geochemical Explorer (Spacecraft)  
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

./Lozier\_Scrapbooks\_Personal:  
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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101PVOHalleySign.JPG  
102PVOorbit.JPG  
103PVORentryteam.JPG  
104PVOSSG5.JPG  
105PVORentryburnup.JPG  
106PVOPsteam.JPG  
107PVORentrysign.JPG  
109LPonTLIS.jpg  
10PNslings.jpg  
110LPcrew.JPG  
110LPcrewS.jpg  
11PNEfitDWLBWS.jpg  
12PNEfitDWLcolorS.jpg  
13PN6sepspringS.jpg  
14PNfitS.jpg  
15BobHofstetterS.jpg  
16RalphHoltzclawS.jpg  
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19JohnTomaselloS.jpg  
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SP-4314AtmosphereofFreedom.jpg  
SP-446Pioneer.jpg  
SP-448PioneerTheFirsttoJupiterSaturnandBeyond.jpg  
SP-479Galileo.jpg  
SP-518PioneeringVenus.jpg  
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SpaceTechnology.jpg  
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WorldSpacecraft.jpg

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