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**FINDING AID TO  
THE MARY L. CLEAVE PAPERS, 1981-1986**  
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## Descriptive Summary

<b>Creator Information</b>	Cleave, Mary L., 1947-
<b>Title</b>	Mary L. Cleave papers
<b>Collection Identifier</b>	MSP 176
<b>Date Span</b>	1981- 1986
<b>Abstract</b>	This collections contains 3 binders containing crew reports on Shuttle missions, STS-1,3,4,5,6,7,8,9,41-B,41-C,41-D,41-G,51-A,51-C,51-D,51-F,51-J, and 61-A. Detailed in these crew reports are the tasks preformed on each mission.
<b>Extent</b>	0.5 cubic feet. 1 Mss box.
<b>Finding Aid Author</b>	Max Campbell, 2014
<b>Languages</b>	English
<b>Repository</b>	Virginia Kelly Karnes Archives and Special Collections Research Center, Purdue University Libraries

## Administrative Information

<b>Location Information:</b>	ASC-R
<b>Access Restrictions:</b>	Collection is open for research.
<b>Acquisition Information:</b>	Donated by Mary L. Cleave on September 18, 2013
<b>Accession Number:</b>	20130918
<b>Preferred Citation:</b>	MSP 176, Mary L. Cleave papers, Karnes Archives and Special Collections, Purdue University Libraries
<b>Copyright Notice:</b>	Purdue University per deed of gift.

## **Subjects and Genres**

### **Persons**

Mary L. Cleave

### **Organizations**

NASA

### **Topics**

Space Shuttle Program (U.S.)

Crew Reports

### **Form and Genre Types**

Papers

Binders

Technical Reports

### **Occupations**

Astronaut

## Biography of Mary L. Cleave

Mary L. Cleave was born on February 5, 1957 in Southampton, New York. She graduated from Great Neck North High School in 1965. In 1969 Cleave earned her B.S. degree in Biological Sciences at Colorado State University. She received her Master's degree in Microbial Ecology from Utah State University in 1975. Cleave earned her Ph. D in Civil Engineering from Utah State in 1979.

From September of 1971 until June of 1980, Cleave worked as a graduate research assistant, research phycologist, and research engineer for the Ecology Center and Utah Water Research Laboratory at Utah State University.

In May of 1980, Cleave was selected to be an Astronaut by NASA. Cleave served as CAPCOM for five Space Shuttle flights previous to her own space flights. During STS-7, she and Sally K. Ride participated in the first female-to-female contact from mission control to an astronaut. She was a mission specialist on her first space flight, STS-61B *Atlantis*, which launched on November 26, 1985 and landed on December 6, 1985. This mission conducted many experiments and launched 3 communications satellites. STS-61B is the heaviest payload launched by NASA during the entire Shuttle program.

Cleave's second and last mission was aboard STS-30, *Atlantis*, as a mission specialist. This mission launched on May 4<sup>th</sup> and landed on May 8<sup>th</sup> 1989. The Magellan spacecraft was the primary objective for this flight and it was successfully deployed, launched, and sent to study the planet Venus.

In May of 1991, Cleave left the Johnson Space Center to join NASA's Goddard Spaceflight Center in Maryland. She then served as Deputy Associate Administrator (Advanced Planning), Office of Earth Science, NASA Headquarters, Washington, D.C. Cleave retired from NASA in 2007.

### Source:

"Astronaut Bio: Mary Cleave" NASA Lyndon B. Johnson Space Center, February 2007. Web. <<http://www.jsc.nasa.gov/Bios/htmlbios/cleave-ml.html>>

"Oral History Project Participants – complete list." NASA Lyndon B. Johnson Space Center, March 5, 2002. Web. <[http://www.jsc.nasa.gov/history/oral\\_histories/CleaveML/cleaveml.htm](http://www.jsc.nasa.gov/history/oral_histories/CleaveML/cleaveml.htm)>

"NASA JOHNSON SPACE CENTER ORAL HISTORY PROJECT BIOGRAPHICAL DATA SHEET." NASA Lyndon B. Johnson Space Center, January 9, 2002. Web. <[http://www.jsc.nasa.gov/history/oral\\_histories/CleaveML/CleaveML\\_Bio.pdf](http://www.jsc.nasa.gov/history/oral_histories/CleaveML/CleaveML_Bio.pdf)>

## Collection Description

### Scope

The Mary L. Cleave papers (1981-1986; .5 cubic feet) documents the activities of the crews on 18 different Space Shuttle missions. These binders contain detailed crew reports from the shuttle missions during this time period. The reports are of STS-1,3,4,5,6,7,9,8,41-B,41-C,41-D,41-G,51-A,51-C,61-A,51-F,51-D,51-J (Note that these shuttle missions are listed chronologically). Materials in the series are arranged chronologically. The documentation covers lift off to landing. Types of materials include: binders. The Mary L. Cleave papers are organized into 1 series.

**Descriptive Rules** [Anglo-American Cataloguing Rules, 2<sup>nd</sup> Edition / Describing Archives: A Content Standard]

### Processing Information

The binders are stored chronologically in the manuscript box and the paper clips have been removed.

## DETAILED DESCRIPTION OF THE COLLECTION

### [Series 1. Crew Reports, 1981-1986]

(.5 cubic feet.)

1 Box 3 Binders

#### Binder

- 1 Binder 1, 1981-1982
  - STS-1 Crew Report Columbia John W. Young and Robert L. Crippen. 12 April 1981.
  - STS-3 Crew Report Columbia Jack R. Lousma and C. Gordon Fullerton. 22 March 1982
  - STS-4 Crew Report Columbia Thomas K. Mattingly II and Henry W. Hartsfield. 27 June 1982.
  - STS-5 Crew Report Columbia Vance D. Brand, Robert F. Overmyer, Joseph P. Allen, and William B. Lenoir. 11 November 1982.
2. Binder 2, 1983-1984
  - STS-6 Crew Report Challenger Paul J. Weitz, Karol J. Bobko, Donald H. Peterson, and F. Story Musgrave. 4 April 1983.
  - STS-7 Crew Report Challenger Robert L. Crippen, Frederick H. Hauck, John M. Fabian, Sally K. Ride, and Norman E. Thagard. 31 August 1983.
  - STS-9 Crew Report Columbia John W. Young, Brewster H. Shaw, Jr., Robert A. Parker, and Owen K. Garriott. 28 November 1983.
  - STS-8 Crew Report Challenger Richard H. Truly, Daniel C. Brandenstein, Dale A. Gardner, Guion S. Bluford, and William E. Thornton. 11 July 1984.
  - STS-41-B Crew Report Challenger Vance D. Brand, Robert L. Gibson, Ronald E. McNair, Robert L. Stewart, and Bruce McCandless II. 3 February 1984.
  - STS-41-C Crew Report Challenger Robert L. Crippen, Francis R. Scobee, Terry J. Hart, George D. Nelson, James D. A. van Hoften. 6 April 1984.
  - STS-41-D Crew Report Discovery Henry W. Hartsfield, Michael L. Coats, Mike Mullane, Steven A. Hawley, and Judith A. Resnik. 30 August 1984.
  - STS-41-G Crew Report Challenger Robert L. Crippen, Jon A. McBride, Kathryn D. Sullivan, Sally K. Ride, and David C. Leestma. 5 October 1984.
  - STS-51-A Crew Report Discovery Frederick H. Hauck, David M. Walker, Joseph P. Allen, Anna Lee Fisher, and Dale A. Gardner. 8 November 1985
  - STS-51-C Crew Report Discovery Thomas K. Mattingly, Loren J. Shriver, James F. Buchli, Ellison S. Onizuka, and Gary E. Payton.

- 24 January 1985
3. Binder 3, 1985-1986
- STS-51-D Crew Report *Discovery* Karol J. Bobko, Donald E. Williams, M. Rhea Seddon, S. David Griggs, Jeffrey A. Hoffman, Charles D. Walker, Edwin J. Garn. 12 April 1985
- STS-51-F Crew Report *Challenger* C. Gordon Fullerton, Roy D. Bridges, Jr., Karl G. Henize, F. Story Musgrave, Anthony W. England, Loren W. Action, John-David F. Bartoe. 29 July 1985.
- STS-51-J Crew Report *Atlantis* Karol J. Bobko, Ronald J. Grabe, David C. Hilmers, Robert L. Stewart, and William A. Pailles. 3 October 1985.
- STS-61-A Crew Report *Challenger* Henry W. Hartsfield, Steven R. Nagel, Bonnie J. Dunbar, James F. Buchli, Guion S. Buford, Ernst Messerschmid, and Wubbo Ockels. 30 October 1985.