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[http://history.nasa.gov/shuttle\\_patches.html](http://history.nasa.gov/shuttle_patches.html)

## FINDING AID TO THE MARK BROWN UNITED STATES SPACE SHUTTLE PATCHES COLLECTION, 1989-2009

**Purdue University Libraries  
Virginia Kelly Karnes Archives and Special Collections  
Research Center  
504 West State Street  
West Lafayette, Indiana 47907-2058  
(765) 494-2839**

<http://www.lib.purdue.edu/spcol>

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Processed by: Mary A. Seago, December 20, 2012

## Descriptive Summary

<b>Creator Information</b>	Haley, Curtis
<b>Title</b>	Mark Brown United States Space Shuttle Patches collection
<b>Collection Identifier</b>	MSA 274
<b>Date Span</b>	1989-2009
<b>Abstract</b>	Two Space Shuttle patches with certificates of authenticity, signed by Purdue alum and Mission Specialist, Colonel Mark N. Brown. The patches include: Thirtieth Flight of the Space Shuttle, <i>Columbia</i> , August 8-13, 1989 and Forty-third Flight of the Space Shuttle, <i>Discovery</i> , September 12-18, 1991. Also included is a copy of a letter from the donor, Curtis Haley to Ms. Flanary.
<b>Extent</b>	0.1 cubic feet (1 folder, 2 items)
<b>Finding Aid Author</b>	Mary A. Segó
<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
<b>Access Restrictions:</b>	Collection is open for research.
<b>Acquisition Information:</b>	Received by the School of Aeronautics and Astronautics from Curtis Haley, November 16, 2009.
<b>Custodial History:</b>	Transferred to the Karnes Archives and Special Collections, Purdue University Libraries by Aeronautics Development Director, Rita Baines on October 8, 2012.
<b>Accession Number:</b>	20121008.2
<b>Preferred Citation:</b>	MSA 274, Mark Brown United States Space Shuttle Patches collection, Karnes Archives and Special Collections, Purdue University Libraries

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## **Subjects and Genres**

### **Persons**

Brown, Mark

### **Organizations**

National Aeronautics and Space Administration

### **Topics**

National Aeronautics and Space Administration--Space Shuttle insignia  
Flights Archives at Purdue University

### **Form and Genre Types**

Correspondence

Insignia

Patches

### **Occupations**

Astronaut

## History of Thirtieth Flight of the Space Shuttle, *Columbia* (STS-28) and Forty-Third Flight of the Space Shuttle, *Discovery* (STS-48) Insignias

Launching from the Kennedy Space Center, Florida, *Columbia* completed 80 orbits, traveling 2.1 million nautical miles before landing at Edwards Air Force Base, California. The flight took place August 8-13, 1989. It was the fourth shuttle mission dedicated to the United States Department of Defense purposes and the 8<sup>th</sup> flight of the Space Shuttle *Columbia*.

The insignia was designed by the crew, who said it portrays the pride the American people have in their manned spaceflight program. It depicts America (the eagle) guiding the space program (the space shuttle) safely home from an orbital mission. The view looks south on Baja California and the west coast of the United States as the space travelers reenter the atmosphere. The American flag is represented by the hypersonic contrails created by the eagle and shuttle. The crew called the simple boldness of the design symbolic of American's unfaltering commitment to leadership in the exploration and development of space.

The crew for STS-28 were: Commander, Brewster H. Shaw; Pilot, Richard N. Richards; Mission Specialists, David C. Leetsma, James C. Adamson and Mark N. Brown.

Launching from the Kennedy Space Center, Florida, *Discovery* completed 81 orbits, traveling 1.9 million nautical miles before landing on Runway 22 at Edwards Air Force Base, California. The primary payload was the Upper Atmosphere Research Satellite.

Designed by the astronaut crewmembers, the STS-48 insignia represents the space shuttle *Discovery* in orbit about the Earth after deploying the Upper Atmospheric Research Satellite (UARS) depicted in block letter style. The stars are those in the northern hemisphere as seen in the fall and winter when UARS will begin its study of Earth's atmosphere. The color bands on Earth's horizon, extending up to the UARS spacecraft, depict the study of Earth's atmosphere. The triangular shape represents the relationship among the three atmospheric processes that determine upper atmospheric structure and behavior: chemistry, dynamics, and energy. In the words of the crew members, "This continuous process brings life to our planet and makes our planet unique in the solar system."

The crew for this flight were: Commander, Navy Captain, John Creighton; pilot, Navy Commander, Ken Reightler. Mission Specialists were Marine Corps Colonel Jim Buchli, Army Lieutenant Colonel Sam Gemar and Air Force Colonel Mark Brown.

### Source(s):

Information gathered from the letters of authenticity and National Aeronautics and Space Administration Press Kits for STS-28 and STS-48.

## Collection Description

### Scope

The Mark Brown United States Space Shuttle Patches collection (1989-2009; 0.1 cubic feet) consists of two Space Shuttle patches with certificates of authenticity, signed by Purdue alum and Mission Specialist, Colonel Mark N. Brown. The patches include: Thirtieth Flight of the Space Shuttle (STS-28), *Columbia*, August 8-13, 1989 and Forty-third Flight of the Space Shuttle (STS-48), *Discovery*, September 12-18, 1991. Also included is a copy of a letter from the donor, Curtis Haley to Ms. Flanary.

### Descriptive Rules

Describing Archives: A Content Standard

### Processing Information

All materials have been housed in polyester sleeves, acid-free folders, and acid-free boxes.

## DETAILED DESCRIPTION OF THE COLLECTION

**1 Box** *Space Shuttle Insignia (Patches), Letters of Authenticity and Donor Letter, 1989-2009*

### Folder

1. Patch, STS-28, Thirtieth Flight of the Space Shuttle, Columbia, August 8-13, 1989; includes National Aeronautics and Space Administration Certificate of Authenticity, signed by Mission Specialist, STS-28, Colonel Mark N. Brown
2. Patch, STS-48, Forty-third Flight of the Space Shuttle, Discovery, September 12-18, 1991; includes National Aeronautics and Space Administration Certificate of Authenticity, signed by Mission Specialist, STS-48, Colonel Mark N. Brown
3. Donation letter from Curtis Haley to Mrs. Flanary, November 16, 2009 [photocopy of original]