

A photograph of an astronaut in a white space suit floating in space. The astronaut is pointing upwards with their right hand. In the background, a large American flag is visible, waving. The entire scene is set against a dark, starry background. The image is framed by a decorative border with red and blue stripes and white stars.

HISTORY OF THE UNITED STATES MANNED SPACE PROGRAM

Dr. Rick M. Avramis

*Man must rise above the Earth -
to the top of the atmosphere and beyond -
for only thus will he fully understand the
world in which he lives.*



*Socrates
500 B.C.*

National Advisory Committee for Aeronautics (NACA)

NATIONAL AERONAUTICS & SPACE ADMINISTRATION



October, 1958

VISION

*NASA is an investment in America's future.
As explorers, pioneers and innovators, we boldly
expand frontiers in air and space to inspire and serve
America and to benefit the quality of life on Earth.*





President John F. Kennedy
Speech on "Urgent National Needs" May 25, 1961
Subsequent Address at Rice University, September 12, 1962



"If this capsule history of our progress teaches us anything, it is that man, in his quest for knowledge and progress, is determined and cannot be deterred. The exploration of space will go ahead, whether we join in it or not, and it is one of the great adventures of all time, and no nation which expects to be the leader of other nations can expect to stay behind in the race for space.

We choose to go to the moon. We choose to go to the moon in this decade and do the other things, not because they are easy, but because they are hard, because that goal will serve to organize and measure the best of our energies and skills, because that challenge is one that we are willing to accept, one we are unwilling to postpone, and one which we intend to win, and the others, too.

Space is there, and we're going to climb it, and the moon and the planets are there, and new hopes for knowledge and peace are there. And, therefore, as we set sail we ask God's blessing on the most hazardous and dangerous and greatest adventure on which man has ever embarked."

THE FLIGHTS OF PROJECT MERCURY





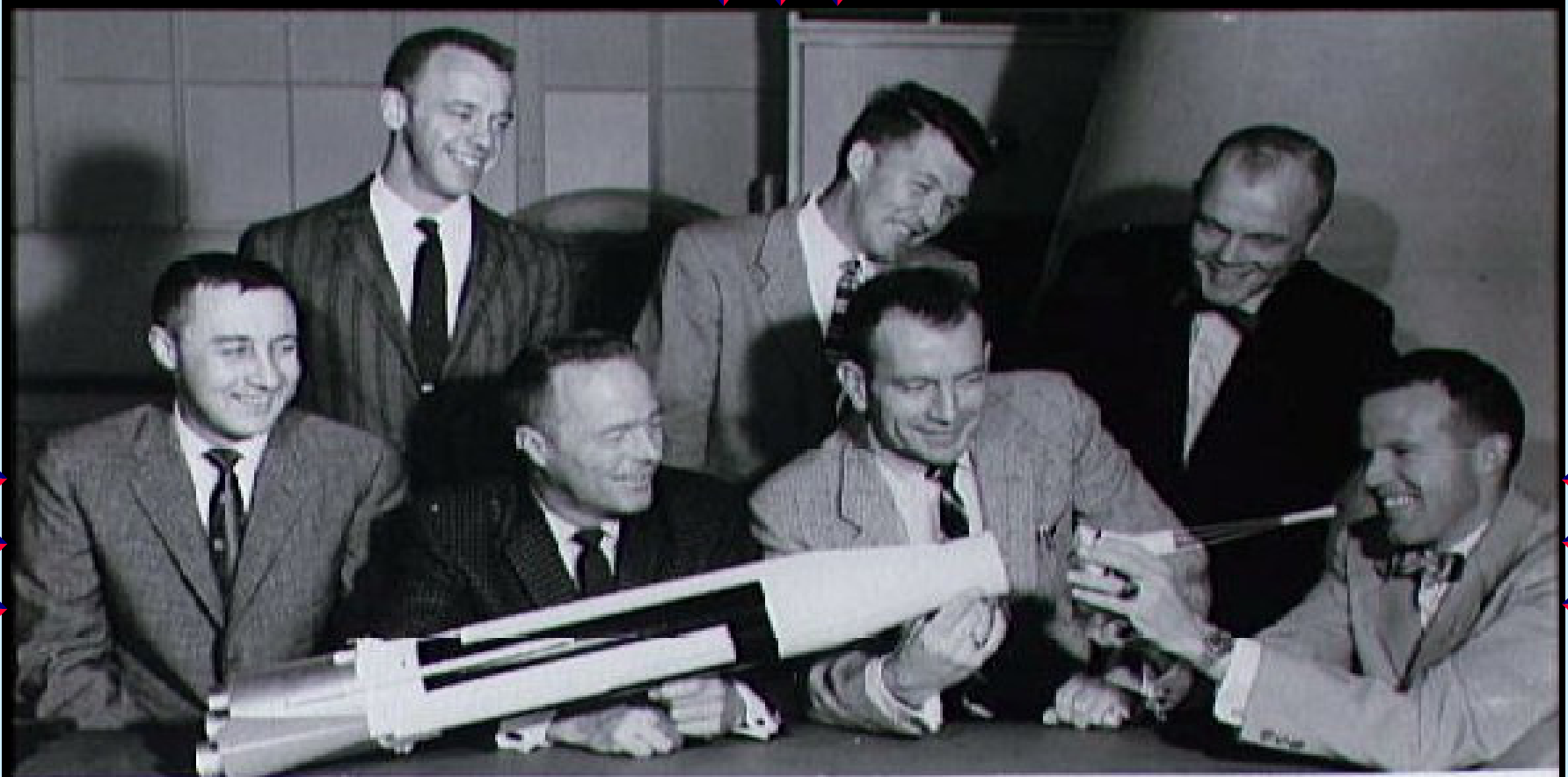
PROJECT MERCURY

Project Mercury began on October 7, 1958, one year and three days after the launch of Sputnik 1 by the Soviet Union heralded the beginning of the Space Age.

20 unmanned missions starting in August, 1959

Mercury 2 - "Ham" chimpanzee - January 31, 1961

THE ORIGINAL 7 "STAR VOYAGERS"



Alan B. Shepard — Walter D. Schirer — John H. Glenn Jr.
Vigil L. Swason — M. Scott Carpenter — Donald V. Slayton — Lyndon B. Johnson



MERCURY 3

FREEDOM 7

Crew:

Alan B. Shepard, Jr.

Flight:

May 5, 1961

Mission Objective:

To determine man's capabilities in a space environment and in those environments to which he will be subject upon going into and returning from space.

Mission Highlights:

1st American in space (15 min)



Freedom 7 is now located at the Garber Facility, National Air and Space Museum, Washington D.C.



MERCURY 4

LIBERTY BELL 7



Crew:

Virgil I. "Gus" Grissom

Flight:

July 21, 1961

Mission Objective:

Corroborate man-in-space concept.

Mission Highlights:

Spacecraft sank shortly after splashdown.

Liberty Bell 7 was finally recovered in July, 1999 nearly 3 miles deep in the Atlantic Ocean



MERCURY 6

FRIENDSHIP 7



Crew:

John H. Glenn, Jr.

Flight:

February 20, 1962

Mission Objective:

Place a man into earth orbit, observe his reactions to the space environment, and safely return him to earth to a point where he could be readily found.

Mission Highlights:

1st American in orbit.

Friendship 7 is now located at the National Air and Space Museum, Washington D.C.



MERCURY 7

AURORA 7



Crew:
M. Scott Carpenter

Flight:
May 24, 1962

Mission Objective:
Corroborate man-in orbit.

Mission Highlights:
All objectives met; spacecraft overshot target area by 250 miles.

Aurora 7 is now located at the Museum of Science and Industry, Chicago, Illinois



MERCURY 8

SIGMA 7



Crew:

Walter M. Schirra, Jr.

Flight:

October 3, 1962

Mission Objective:

Man and machine in orbit for 9 hours.

Mission Highlights:

1st live TV broadcast from space.

Sigma 7 is now located at the US Space & Rocket Center, Astronaut Hall of Fame, Titusville, Florida



MERCURY 9

FAITH 7



Crew:

L. Gordon Cooper

Flight:

May 15 - 16, 1963

Mission Objective:

Manned 1-day mission in orbit.

Mission Highlights:

1st satellite released; 1st American to sleep in space.

Faith 7 is now located at the Johnson Space Center, NASA, Houston, Texas

THE FLIGHTS OF PROJECT GEMINI





PROJECT GEMINI

The primary purpose of the Gemini missions was to:

- ☞ learn how to "fly" a space vehicle.
- ☞ maneuver in orbit.
- ☞ rendezvous and dock with another vehicle.
- ☞ demonstrate that astronauts could endure conditions of weightlessness for the length of time necessary for a lunar mission.

There were ten Gemini missions spanning a period of 20 months.

It was during this period that Mission Control was transferred to the Johnson Space Center in Houston.

THE ORIGINAL 7 ASTRONAUTS

THE "NEW NINE"



Thomas D. White John Young Charles Conroy Fred Gregory James Lovell
James A. McDivitt Robert R. Rife Frank Borman Henry C. Sifford
Richard S. Covey Alan Shepard Scott Carpenter Walter Schirra J. Edgar Slayton Michael Smith Deke Slayton

ASTRONAUT SELECTION GROUP 3

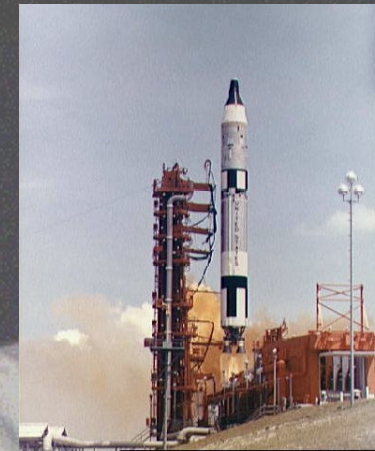


GEMINI 1

Crew:
Unmanned

Launch:
April 8, 1964

Mission Highlights:
Successful orbital test of the Titan-II launch vehicle.

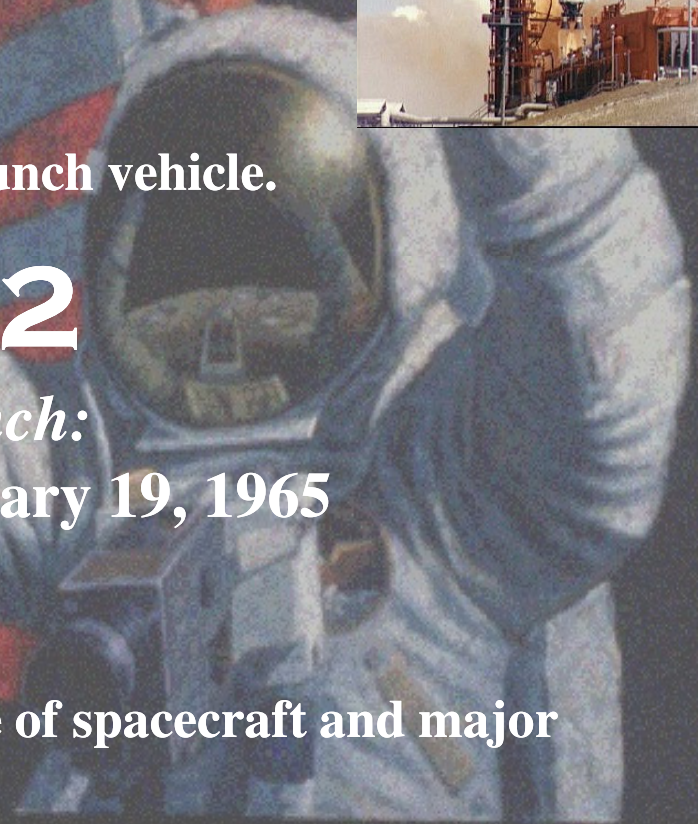


GEMINI 2

Crew:
Unmanned

Launch:
January 19, 1965

Mission Highlights:
Demonstrated satisfactory performance of spacecraft and major subsystems.





GEMINI 3



Crew:

Virgil I. Grissom
John W. Young

Flight:

March 23, 1965

Mission Objective:

Demonstrate manned orbital flight and evaluate two-man design.

Mission Highlights:

The only Gemini mission to have a nickname: *Unsinkable Molly Brown*

Gemini 3 is now located at the Grissom Memorial, Spring Mill State Park, Mitchell, Indiana



GEMINI IV



Crew:

James A. McDivitt
Edward H. White II

Flight:

June 3 - 7, 1965

Mission Objective:

Demonstrate Extra Vehicular Activity (EVA) operation.

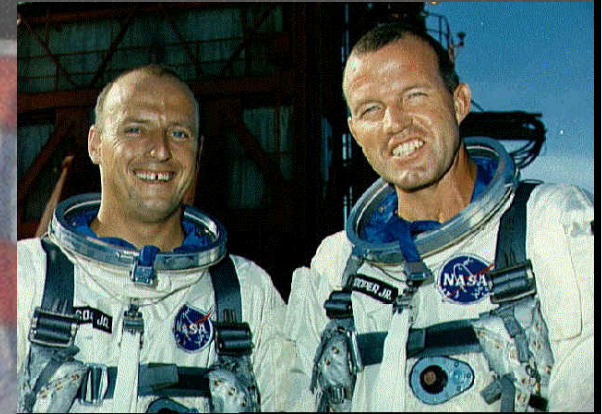
Mission Highlights:

1st American spacewalk (22 min); 1st flight controlled by Houston;
1st flight designated by NASA in roman numerals.

Gemini IV is now located at the National Air and Space Museum, Washington D.C.



GEMINI V



Crew:

L. Gordon Cooper
Charles "Pete" Conrad, Jr.

Flight:

August 21 - 29, 1965

Mission Objective:

Demonstrate and evaluate rendezvous Guidance and Navigation system, and 8-day capability of spacecraft and crew.

Mission Highlights:

Considered the point where America took the lead in the Space Race;
Duration made possible through use of new fuel cells; Introduced TANG

Gemini V is now located at the Johnson Space Center, NASA, Houston, Texas



GEMINI VI



Crew:

Walter M. Schirra, Jr.
Thomas P. Stafford

Flight:

December 15 - 16, 1965

Mission Objective:

Primary objective was to rendezvous with Gemini VII.

Mission Highlights:

Successful rendezvous; 1st pictures of another human-occupied craft in space.

Gemini VI is now located at the St. Louis Science Center, St. Louis, Missouri



GEMINI VII



Crew:

Frank Borman
James A. Lovell

Flight:

December 4 - 18, 1965

Mission Objective:

Conduct 14-day mission and evaluate effects on crew.

Mission Highlights:

Successful rendezvous with Gemini VI; New endurance record;
Conducted most experiments (20) including studies of nutrition.

Gemini VII is now located at the National Air and Space Museum, Washington D.C.



GEMINI VIII



Crew:

Neil A. Armstrong
David R. Scott

Flight:

March 16 - 17, 1966

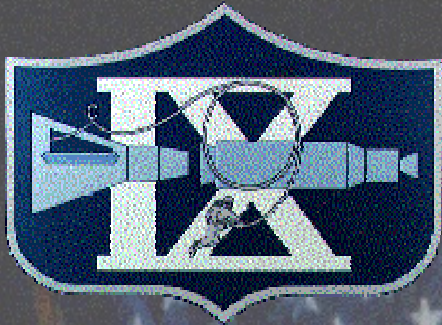
Mission Objective:

Rendezvous and dock with Gemini Agena target vehicle launched on March 16, 1966 and conduct EVA operations.

Mission Highlights:

1st successful docking with another vehicle in space; Stuck thruster forced undocking after 30 minutes, use of RCS, and mission abort.

Gemini VIII is now located at the Armstrong Museum, Wapakoneta, Ohio



GEMINI IX



Crew:

Thomas P. Stafford
Eugene A. Cernan

Flight:

June 3 - 6, 1966

Mission Objective:

Perform rendezvous and docking with Augmented Target Docking Adapter (ATDA) and conduct EVA.

Mission Highlights:

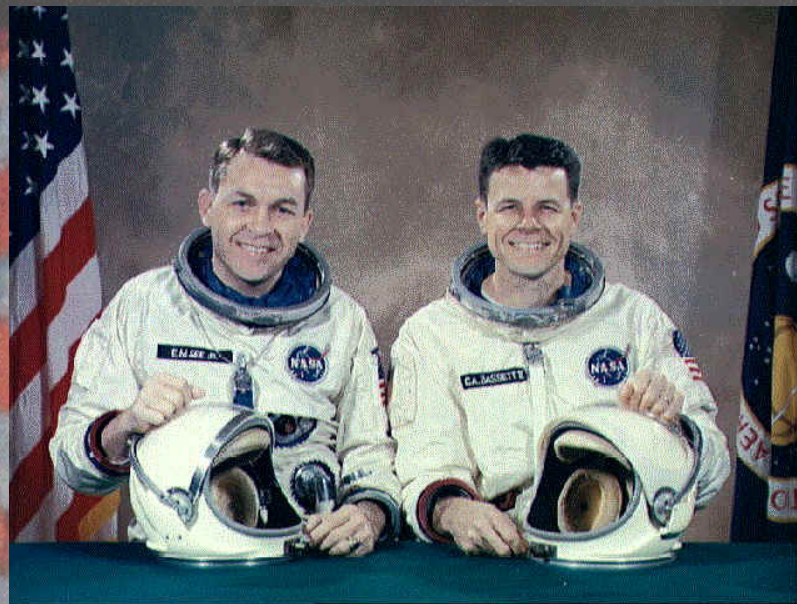
1st backup crew to fly in space; Rendezvous successful including simulation of a Lunar Module rendezvous; Docking unsuccessful.

Gemini IX is now located at the Kennedy Space Center, NASA, Cape Canaveral, Florida

GEMINI IX

Original Crew:
Elliott M. See
Charles Bassett

**Killed in an airplane accident on February 28, 1966 at the
McDonnell Aircraft Corporation, St. Louis, MO.**





GEMINI X



Crew:

John W. Young
Michael Collins

Flight:

July 18 - 21, 1966

Mission Objective:

Rendezvous and dock with Gemini Agena target vehicle.

Mission Highlights:

Attained highest orbit reached by man; Accomplished 1st “double rendezvous” with Gemini VIII Agena; Collins spacewalk to the Agena made him 1st astronaut to meet another spacecraft in orbit.

Gemini X is now located at the Norsk Teknisk Museum, Oslo, Norway



GEMINI XI



Crew:

Charles "Pete" Conrad, Jr.
Richard F. Gordon, Jr.

Flight:

September 12 - 15, 1966

Mission Objective:

Rendezvous and dock with Gemini Agena target vehicle.

Mission Highlights:

1st revolution docking to simulate LEM and Apollo Command Module in lunar orbit; Attained highest orbit in human spaceflight (850 miles); 1st fully automatic, computer-controlled landing.

Gemini XI is now located at the California Museum of Science and Industry



GEMINI XII



Crew:

James A. Lovell, Jr.
Edwin E. "Buzz" Aldrin

Flight:

November 11 - 15, 1966

Mission Objective:

Rendezvous and docking and to evaluate EVA.

Mission Highlights:

Demonstrated that it was possible for man to work effectively outside the protected environment of a spacecraft in zero gravity.

Gemini XII is now located at the Goddard Space Flight Center, NASA, Greenbelt, Maryland

THE FLIGHTS OF PROJECT APOLLO





PROJECT APOLLO

The primary purpose of Project Apollo was to land a man on the moon.

The spacecraft was made up of:

- 👉 Command Module
- 👉 Service Module
- 👉 Lunar Module
- 👉 Saturn booster

There were 9 Apollo moon missions: 3 orbited the moon, 6 landed.

Still considered as humankind's greatest technological achievement.



AS - 201

Saturn 1-B

February 26, 1966

AS - 202

Saturn 1-B

August 25, 1966

AS - 203

Saturn 1-B

July 5, 1966

APOLLO 4

Saturn V

November 9, 1967

APOLLO 5

Lunar Module

January 22, 1968

APOLLO 6

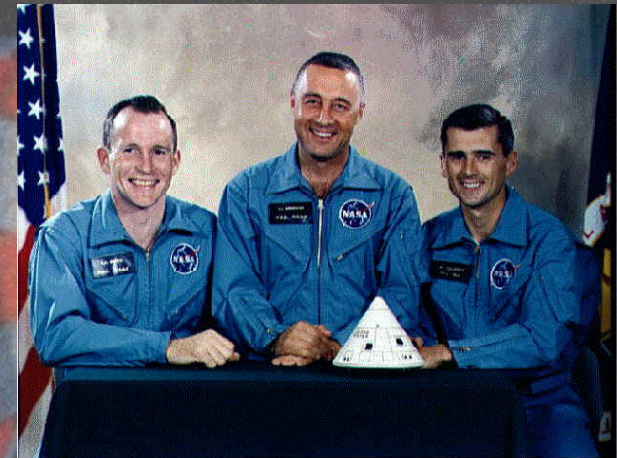
Saturn V,CSM,LM April 4, 1968

The missions of AS-201 and AS-202 with Apollo spacecraft aboard had been unofficially known as Apollo 1 and Apollo 2 missions. In the spring of 1967, NASA's Associate Administrator for Manned Space Flight, Dr. George E. Mueller, announced that the first manned mission would be known as Apollo 1, and that the first Saturn V launch, scheduled for November 1967, would be known as Apollo 4. The eventual launch of AS-204 became known as the Apollo 5 mission. No missions or flights were ever designated Apollo 2 and 3.



APOLLO 1

AS - 204



Crew:

Virgil I. Grissom, CDR
Edward H. White, CMP
Roger B. Chaffee, LMP

Mission Objective:

First Apollo manned mission.

Flight:

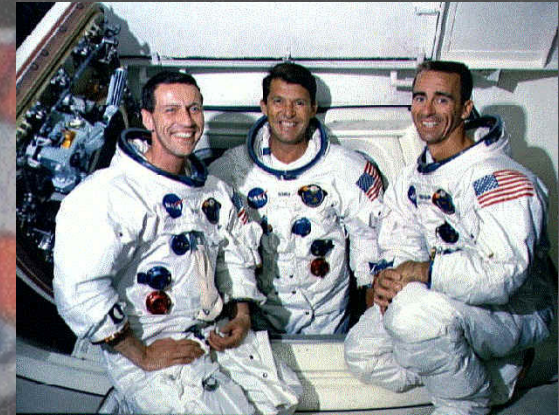
February 21, 1967

Tragedy struck the crew during a preflight test on January 27, 1967 when a fire swept through the Command Module.

Apollo 1 is now located at the NASA Langley Research Center, Hampton, Virginia



APOLLO 7



Crew:

Walter M. Schirra, Jr., CDR
Donn F. Eisele, CMP
R. Walter Cunningham, LMP

Flight:

October 11 - 21, 1968

Mission Objective:

Demonstrate CSM/crew performance, crew/space vehicle/mission support facilities performance during a manned CSM mission.

Mission Highlights:

1st 3-man American crew; 1st live TV downlink.

Apollo 7 is now located at the National Museum of Science & Technology, Ottawa, Canada



APOLLO 8



Crew:

Frank Borman, CDR
James A. Lovell, Jr., CMP
William A. Anders, LMP

Flight:

December 21 - 27, 1968

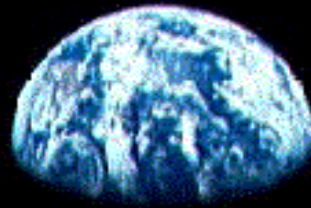
Mission Objective:

Demonstrate TransLunar Injection (TLI), CSM performance in cislunar and lunar orbit environment, and communications at lunar distances.

Mission Highlights:

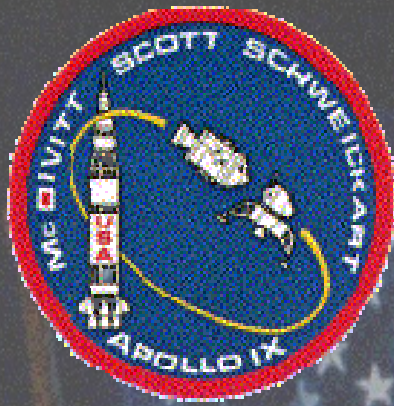
1st flight of Saturn V booster; 1st manned lunar orbital mission.

Apollo 8 is now located at the Chicago Museum of Science & Technology, Chicago, Illinois

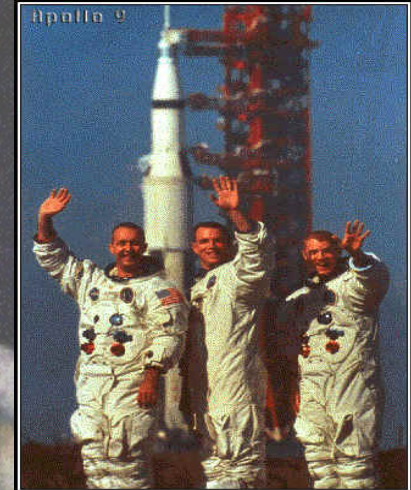


In the beginning, God created the heavens and the earth. The earth was without form and void, and darkness was upon the face of the deep; and the spirit of God was moving over the face of the waters, and God said, "Let there be light." And God saw that the light was good, and God separated the light from the darkness. God called the light day, and the darkness He called night. And there was one evening, and there was one morning, one day.

Genesis



APOLLO 9



Crew:

James A. McDivitt, CDR
David R. Scott, CMP
Russell L. Schweickart, LMP

Flight:

March 3 - 13, 1969

Payload:

Gumdrop & Spider

Mission Objective:

Demonstrate crew/space vehicle/mission support facilities during manned Saturn V/CSM/LM mission.

Mission Highlights:

1st manned flight of all lunar hardware in Earth orbit; 1st manned flight of Lunar Module.

Apollo 9 is now located at the Michigan Space Center, Jackson Community College, Jackson Michigan



APOLLO 10



Crew:

Thomas P. Stafford, CDR

John W. Young, CMP

Eugene A. Cernan, LMP

Mission Objective:

Demonstrate performance of LM and CSM in lunar gravitation field.

Mission Highlights:

Dress rehearsal for Moon landing; 1st manned CSM/LM operations in cislunar and lunar environment; Only Apollo mission to launch from 39B.

Flight:

May 18 - 26, 1969

Payload:

Charlie Brown & Snoopy

Apollo 10 is now located at the Science Museum, London, England



APOLLO 11



Crew:

Neil A. Armstrong, CDR
Michael Collins, CMP
Edwin E. Aldrin, Jr., LMP

Mission Objective:

Perform manned lunar landing and return mission safely.

Mission Highlights:

1st manned lunar landing mission and lunar surface EVA,
July 20, 1969, Sea of Tranquility

Flight:

July 16 - 24, 1969

Payload:

Columbia & Eagle

Apollo 11 is now located at the National Air and Space Museum, Washington D.C.

“Houston, Tranquility Base here, The Eagle has landed.”



**“That’s one small step for man...
one giant leap for mankind.”**

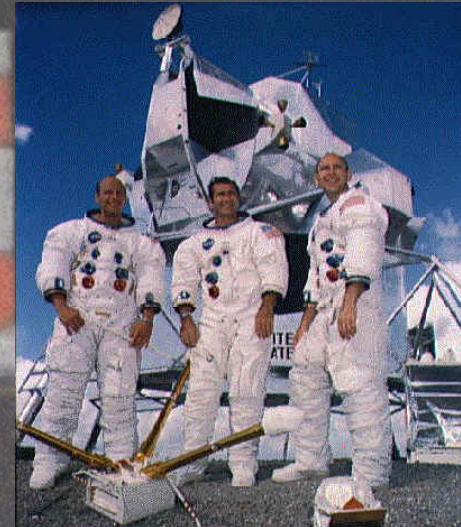


**"Here Men From Planet Earth First Set Foot Upon The Moon.
July 1969 A.D. We Came In Peace For All Mankind."**





APOLLO 12



Crew:

Charles “Pete” Conrad, CDR
Richard F. Gordon, Jr., CMP
Alan L. Bean, LMP

Mission Objective:

To perform detailed scientific lunar exploration - Ocean of Storms.

Mission Highlights:

The Lunar Module was brought to the surface of the moon automatically by radar and computer; Apollo 12 struck by lightning during liftoff.

Flight:

November 14 - 24, 1969

Payload:

Yankee Clipper & Intrepid

Apollo 12 is now located at the Virginia Air & Space Center, Hampton, Virginia



APOLLO 13



Crew:

James A. Lovell, Jr., CDR
John L. Swigert, Jr., CMP
Fred W. Haise, Jr., LMP

Flight:

April 11 - 17, 1970

Payload:

Odyssey & Aquarius

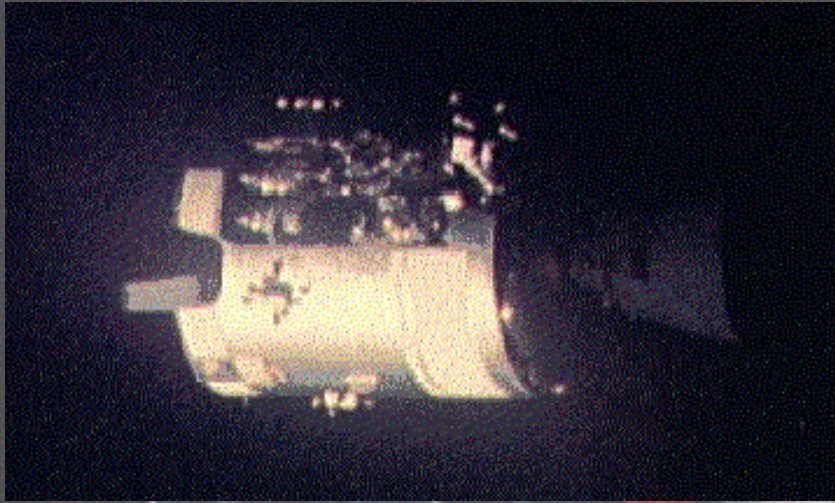
Mission Objective:

To perform detailed scientific lunar exploration - Fra Mauro.

Mission Highlights:

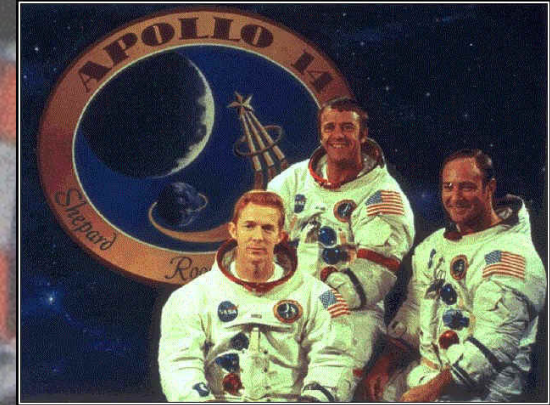
Mission was aborted after rupture of service module oxygen tank. Classed as "successful failure" because of experience in rescuing crew.

Apollo 13 is now located at the Kansas Cosmosphere and Space Center, Hutchinson, Kansas





APOLLO 14



Crew:

Alan B. Shepard, Jr., CDR

Stuart A. Roosa, CMP

Edgar D. Mitchell, LMP

Mission Objective:

To perform detailed scientific lunar exploration - Fra Mauro.

Mission Highlights:

Return to space for America's 1st astronaut; 1st use of handcart to transport rocks; Last crew to be required quarantine.

Flight:

Jan 31 - Feb 9, 1971

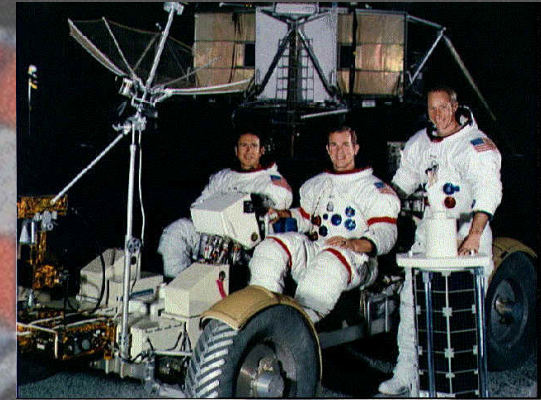
Payload:

Kitty Hawk & Antares

Apollo 14 is now located at The Boeing Company, Downey, California



APOLLO 15



Crew:

David R. Scott, CDR
Alfred M. Worden, CMP
James B. Irwin, LMP

Flight:

July 26 - Aug 7, 1971

Payload:

Endeavor & Falcon

Mission Objective:

To perform detailed scientific lunar exploration - Hadley-Apennine.

Mission Highlights:

1st use of Lunar Rover; Found “Genesis Rock” depicting origin of moon;
1st spacewalk outside of earth orbit (Worden).

Apollo 15 is now located at the Air Force Museum, Wright-Patterson Air Force Base, Dayton, Ohio



APOLLO 16



Crew:

John W. Young, CDR

Thomas K. Mattingly II, CMP

Charles M. Duke, Jr., LMP

Mission Objective:

To perform detailed scientific lunar exploration - Descartes Highlands.

Mission Highlights:

1st study of lunar surface highlands area; 1st use of ultraviolet camera/spectrograph on Moon; Returned the largest moon rock - 23 pounds.

Flight:

April 16 - 27, 1972

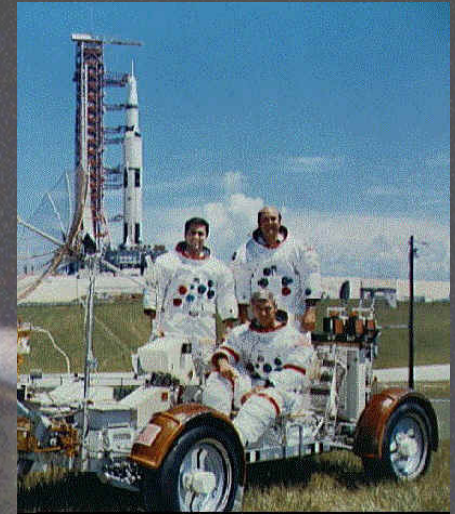
Payload:

Casper & Orion

Apollo 16 is now located at the U.S. Space & Rocket Center, Huntsville, Alabama.



APOLLO 17



Crew:

Eugene A. Cernan, CDR
Ronald B. Evans, CMP
Harrison H. Schmitt, LMP

Flight:

December 7 - 19, 1972

Payload:

America & Challenger

Mission Objective:

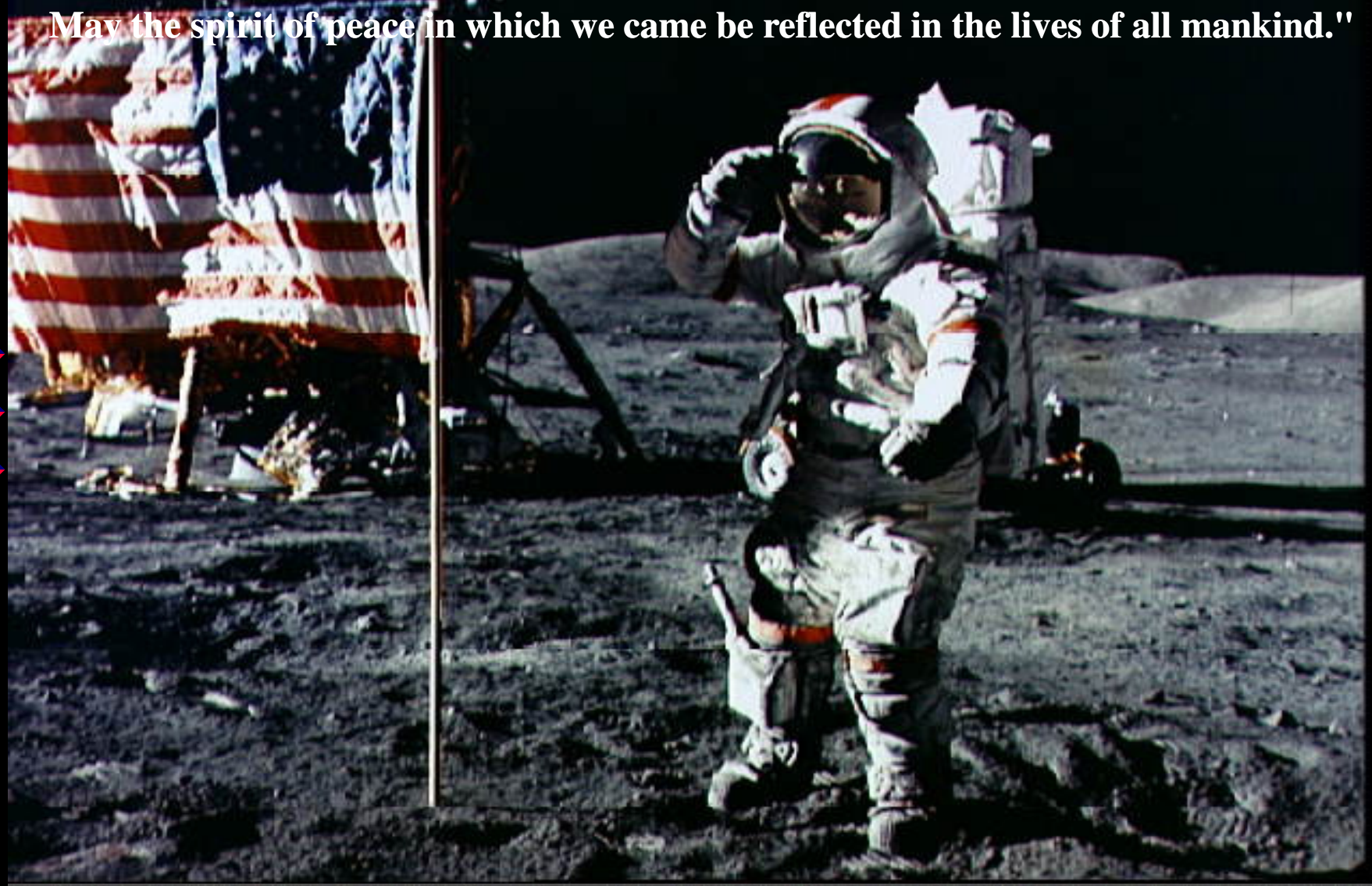
To perform detailed scientific lunar exploration - Taurus-Littrow Valley.

Mission Highlights:

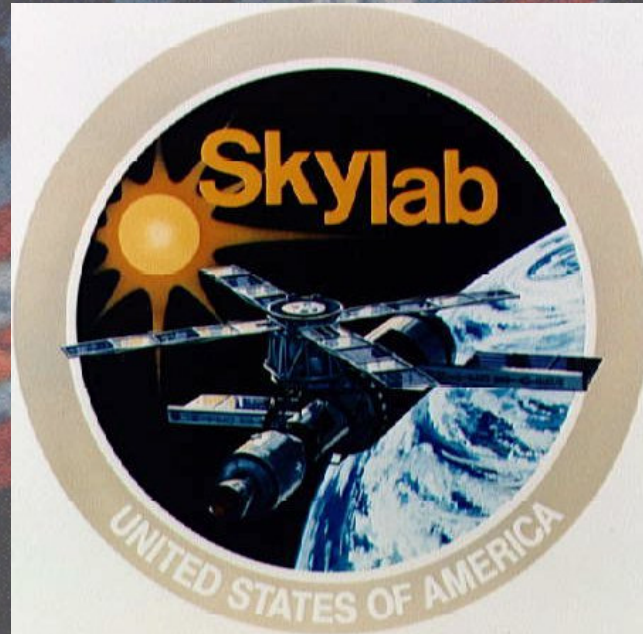
Last lunar landing mission; 1st scientist to visit the Moon.

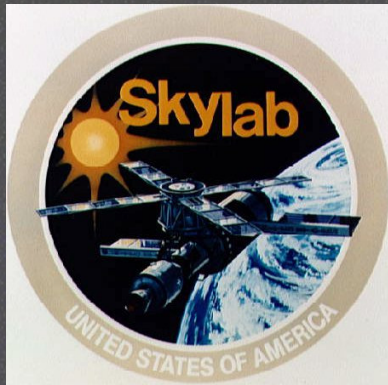
Apollo 17 is now located at the Johnson Space Center, NASA, Houston, Texas

**"Here Man completed his first exploration of the Moon, December 1972 A.D.
May the spirit of peace in which we came be reflected in the lives of all mankind."**



THE FLIGHTS OF PROJECT SKYLAB





PROJECT SKYLAB

The primary purpose of Project Skylab as America's first experimental space station was to prove that humans could live and work in space for extended periods, and to expand our knowledge of solar astronomy well beyond Earth-based observations.

The Skylab Station was launched into orbit by a Saturn V booster on May 14, 1973. This marked the last launch of the Saturn V having never failed.

Launch of the unoccupied Skylab Station was designated Skylab 1. The occupied missions were officially designated Skylabs 2, 3, and 4, but are generally referred to as Skylabs I, II, and III.



SKYLAB I



Crew:

Charles "Pete" Conrad, Jr.

Paul J. Weitz

Joseph P. Kerwin

Mission Objective:

To prove that humans could live and work in space for extended periods.

Mission Highlights:

1st manned space station mission; Doubled the previous American space endurance record set by the Gemini 7 astronauts.

Flight:

May 25 - June 22, 1973

The Skylab I Command Module is now located at the Naval Aviation Museum, Pensacola Florida



SKYLAB II



Crew:

Alan L. Bean

Jack R. Lousma

Owen K. Garriott

Mission Objective:

Corroborate space station concept.

Mission Highlights:

Doubled the previous endurance record in space set by the astronauts of Skylab I; Conducted many new experiments.

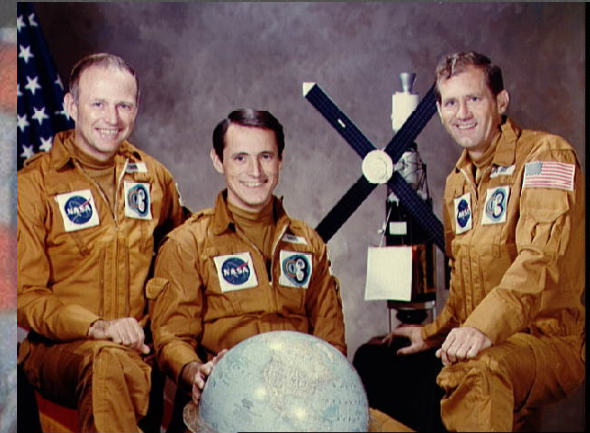
Flight:

July 28 - September 25, 1973

The Skylab II Command Module is now located at the Lewis Research Center, NASA, Cleveland Ohio



SKYLAB III



Crew:

Gerald P. Carr

William R. Pogue

Edward C. Gibson

Mission Objective:

Continue space station exploration.

Mission Highlights:

Conducted thousands of experiments; 4 space walks, including one on Christmas Day to observe the comet Kohoutek.

Flight:

Nov 16, 1973 - Feb 8, 1974



The Skylab III Command Module is now located at the National Air and Space Museum, Washington D.C.

Skylab's orbit slowly deteriorated and it finally burned up in the atmosphere on July 11, 1979, more than five years after the last crew left for home.



THE FLIGHT OF APOLLO-SOYUZ TEST PROJECT





APOLLO-SOYUZ TEST PROJECT



Astronaut Crew:
Thomas P. Stafford
Vance D. Brand
Donald K. "Deke" Slayton

Apollo 18 Flight:
July 15 - 24, 1975

Cosmonaut Crew:
Alexei Leonov
Valeri Kubasov

Soyuz 19 Flight:
July 15 - 21, 1975

Docking in Space:

July 17, 1975



APOLLO-SOYUZ TEST PROJECT



Mission Objective:

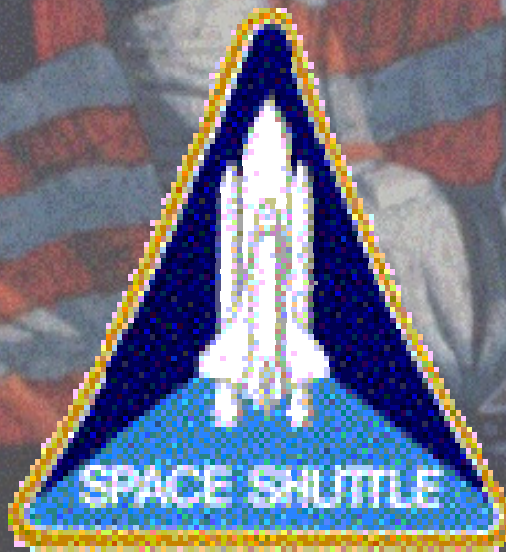
To test the compatibility of rendezvous and docking systems for American and Soviet spacecraft, to open the way for international space rescue as well as future joint manned flights.

Mission Highlights:

1st international manned space flight; 1st docking of spacecraft built by different nations; Deke Slayton's 1st flight; Last flight of Apollo.

The Apollo 18 Command Module is now located at the Kennedy Space Center, NASA, Cape Canaveral, Florida

THE FLIGHTS OF THE SPACE SHUTTLE





SPACE TRANSPORTATION SYSTEM (STS)

The primary purpose of the Space Transportation System was to improve our access to space with a reusable space vehicle.

The decision to build the shuttle was made in January, 1972 and the contract to build the shuttle was awarded in July, 1972.



Orbiter - Boeing (formerly Rockwell)

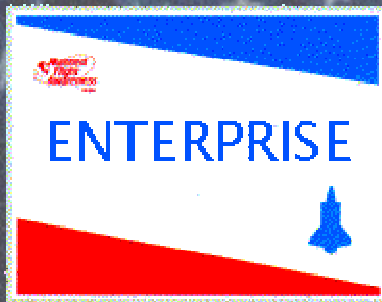
SRBs - Morton Thiokol Chemical Corporation

External Tank - Lockheed Martin

Main Engines - Boeing Rocketdyne

Operations - United Space Alliance

SPACE SHUTTLE FLEET





ENTERPRISE OV-101



- ✚ Built as a test vehicle and was not equipped for space flight.
- ✚ Originally to be named “Constitution” honoring the Bicentennial.
- ✚ Rolled out on September 17, 1976 and supported the ground and flight tests of the Approach and Landing Test (ALT) Program conducted from February - November, 1977 at the Dryden Flight Research Facility.
- ✚ Flown by 2 astronaut crews:
Fred Haise & Gordon Fullerton Joe Engle & Dick Truly
- ✚ Now the property of the Smithsonian Institution, Washington, D.C.



COLUMBIA

OV-102



Named after the Boston, MA based sloop captained by Robert Gray on the first American circumnavigation of the globe.



Also considered to be the feminine personification of the United States.



Rolled out on March 8, 1979.



1st Flight: STS-1, April, 1981; Columbia has flown 26 flights.



STS - 1

COLUMBIA



Crew:

John W. Young, CDR
Robert L. Crippen, Pilot

Flight:

April 12 - 14, 1981

Landing: Edwards AFB, CA

Mission Objective:

Demonstrate safe launch into orbit and safe return of the orbiter and crew.

Mission Highlights:

1st flight of Space Transportation System; All mission objectives met;
Space Shuttle's worthiness as a space vehicle was verified.



CHALLENGER

OV-099



Named after an American Naval research vessel that sailed the Atlantic and Pacific oceans during the 1870's.



Originally was a high-fidelity Structural Test Article (STA-099).



Rolled out on June 30, 1982.



1st Flight: STS-6, April, 1983; Challenger flew 10 flights.



STS 51-L

CHALLENGER



Crew:

Francis R. Scobee, CDR

Michael J. Smith, Pilot

Gregory B. Jarvis, PS1

Sharon Christa McAuliffe, PS2 (TISP)

Judith A. Resnick, MS1

Ellison S. Onizuka, MS2

Ronald E. McNair, MS3

Mission Objective:

Deployment of payloads, several experiments, TISP; 1st Shuttle launch from Pad 39-B.

Flight: January 28, 1986

Tragedy claimed the crew and vehicle 73 seconds after liftoff when an O-ring failure in the right SRB caused an explosion.



DISCOVERY OV-103



Named after one of two ships that were used by the British explorer James Cook in the 1770s during voyages in the South Pacific that led to the discovery of the Hawaiian Islands.



Rolled out on October 16, 1983.



1st Flight: STS 41-D, August, 1984; Discovery has flown 26 flights.



ATLANTIS OV-104



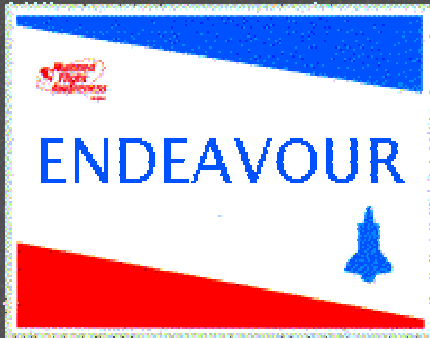
Named after the first U.S. vessel to be used for oceanographic research from the Woods Hole Oceanographic Institute in Massachusetts from 1930 to 1966.



Rolled out on March 6, 1985.



1st Flight: STS 51-J, October, 1985; Atlantis has flown 20 flights.



ENDEAVOUR OV-105



Named after the first ship commanded by James Cook, the 18th century British explorer, navigator and astronomer.



A national competition involving students in elementary and secondary schools produced the name of the new orbiter, announced by President George Bush in 1989.



Rolled out on April 25, 1991.



1st Flight: STS 49, May, 1992; Endeavour has flown 13 flights.

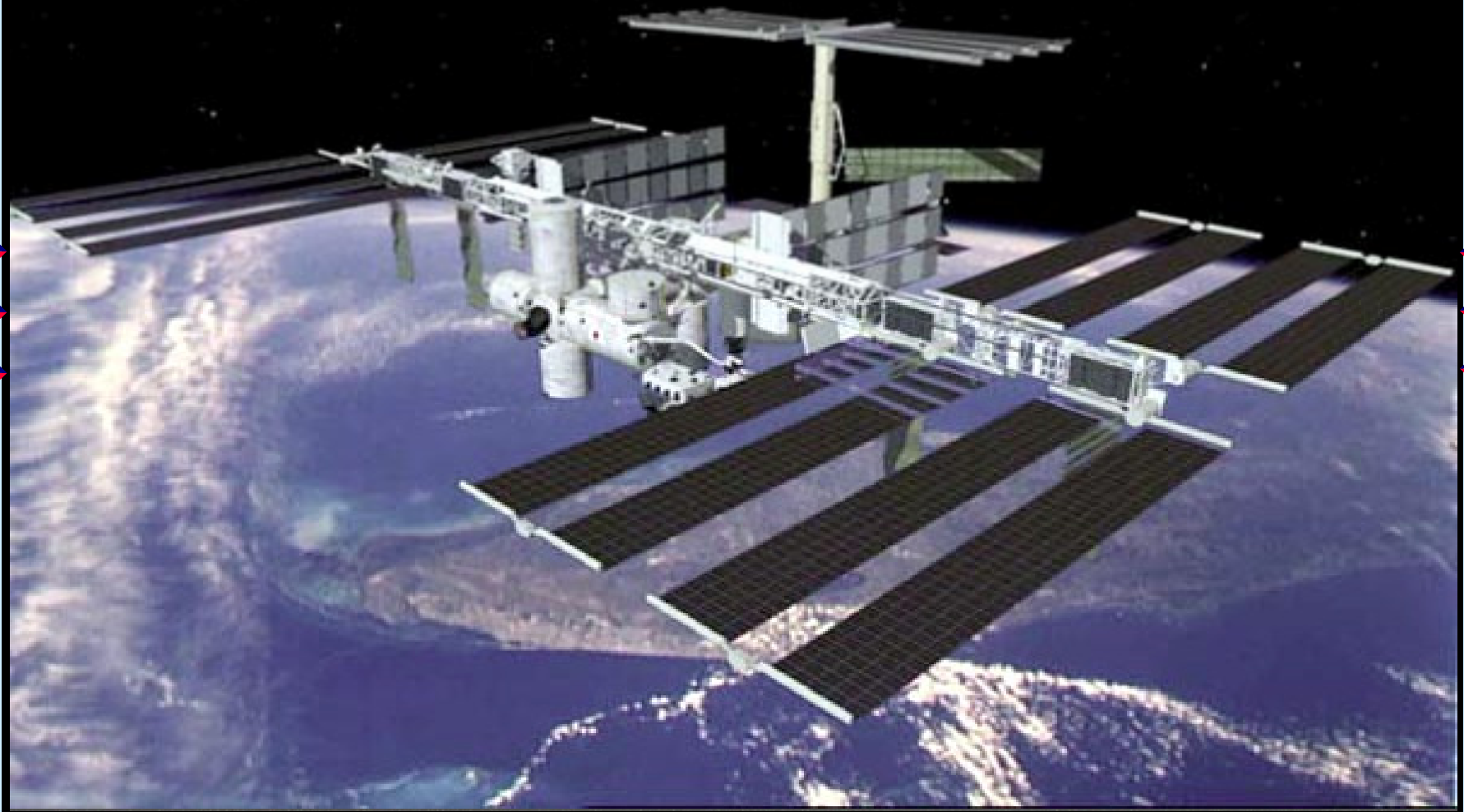


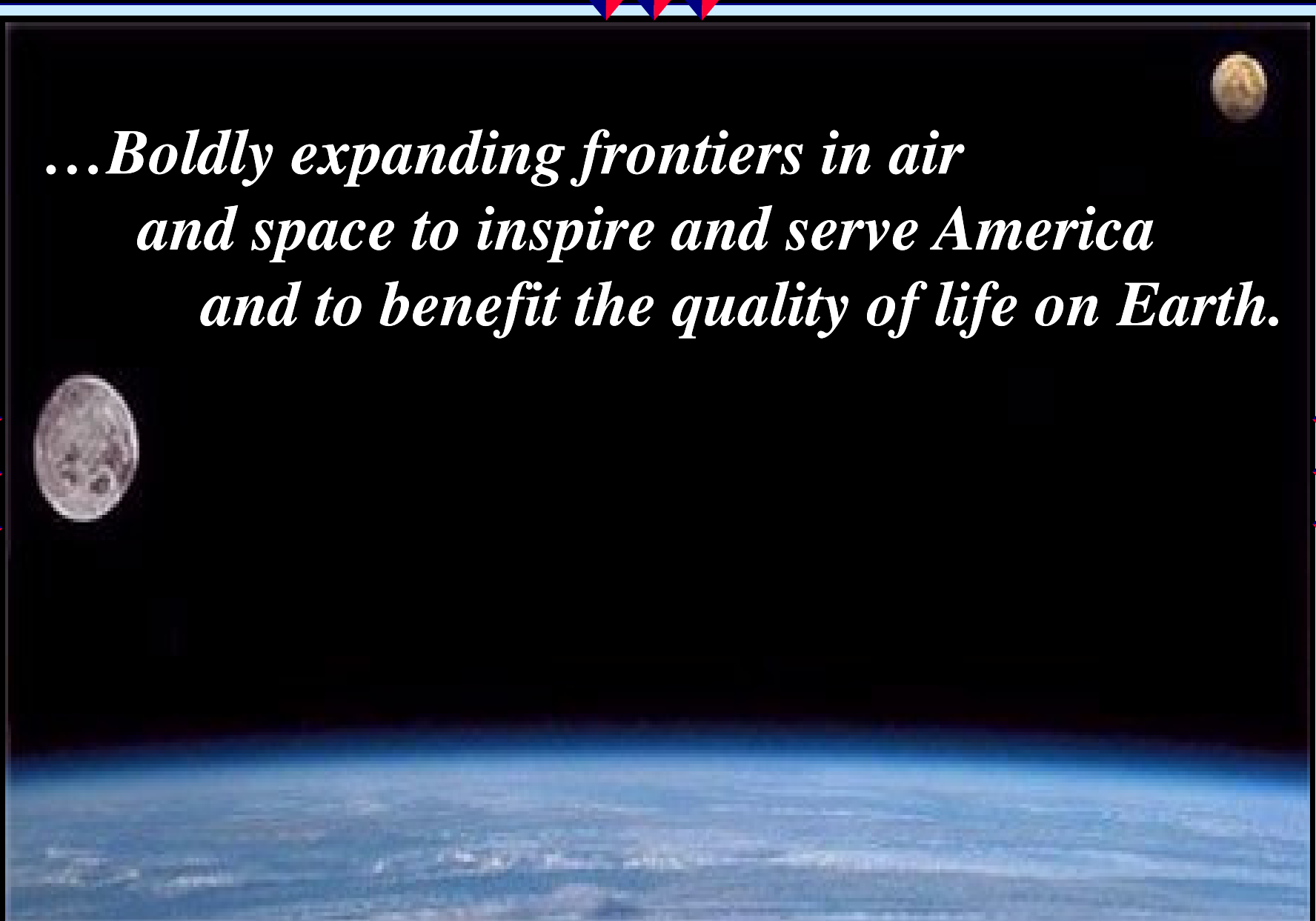
Astronaut Dick Covey
STS 51-I, Discovery, Pilot
STS 26, Discovery, Pilot
STS 38, Atlantis, CDR
STS 61, Endeavour, CDR



Astronaut Brewster Shaw
STS 9, Columbia, Pilot
STS 61-B, Atlantis, CDR
STS 28, Columbia, CDR

TO BE CONTINUED...





*...Boldly expanding frontiers in air
and space to inspire and serve America
and to benefit the quality of life on Earth.*