Brief History of Manned Spaceflight

SC Rotary
5/01/11

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Dr. Robert Goddard Inventor of 1st Liquid Fuel Rocket

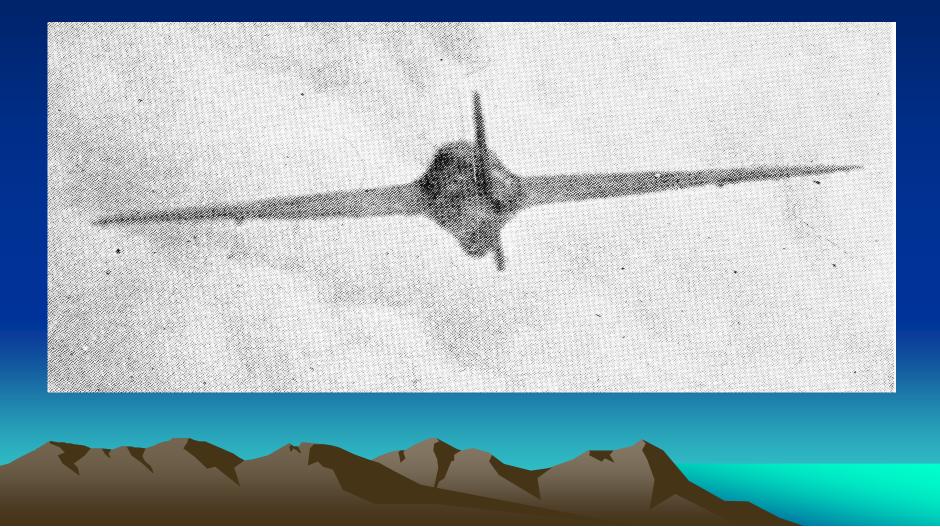


•German V-II Rocket

- 1st Operational Liquid Fuel Rocket
- Developed by Wernher von Braun
- Model at Space Center Houston



German Me-163, WW-II 1st Operational Rocket Airplane

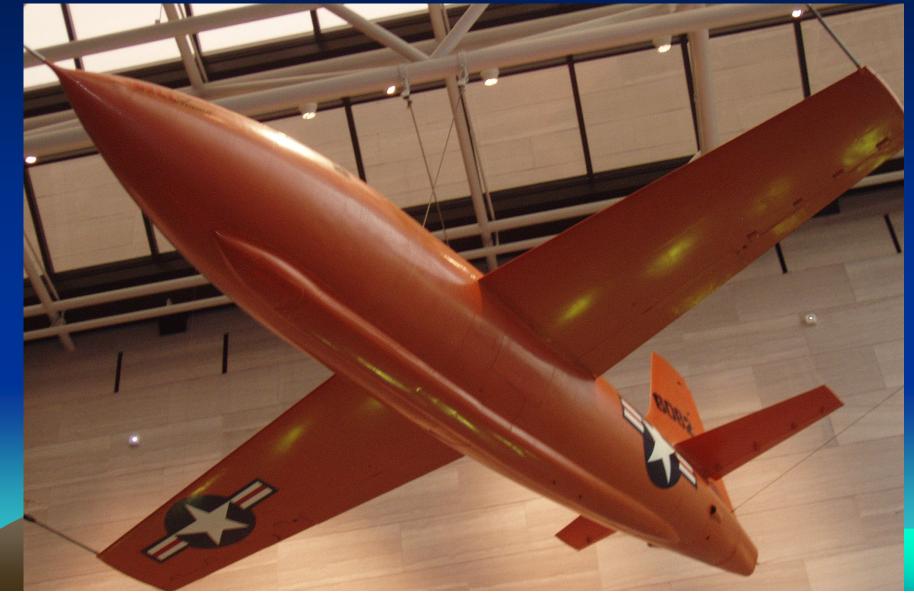


German Messerschmitt Me 262

1st Operational Jet Airplane



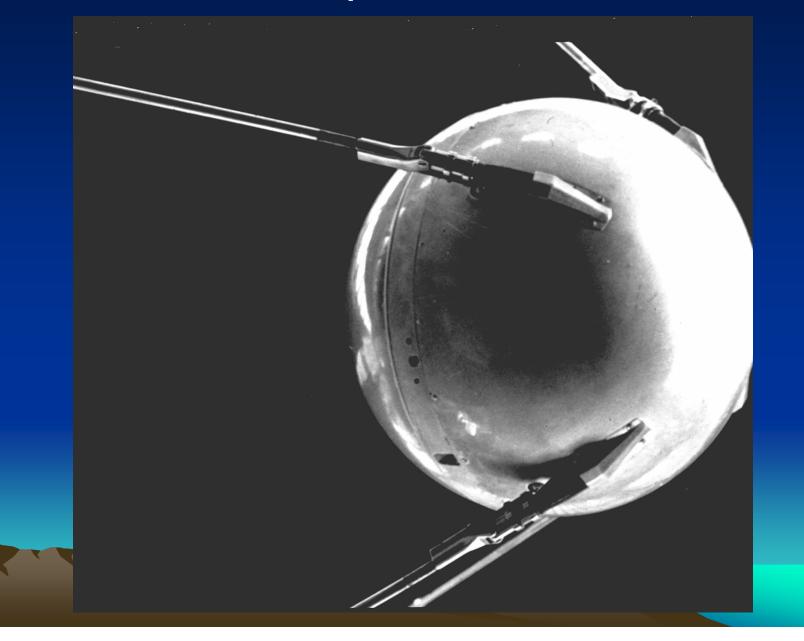
Bell X-1, 1st US Supersonic Rocket Aircraft Smithsonian Air and Space Museum Joint NACA, Air Force Project



Northrop TalonT-38 Astronaut Supersonic Trainer



Russian Sputnik Satellite



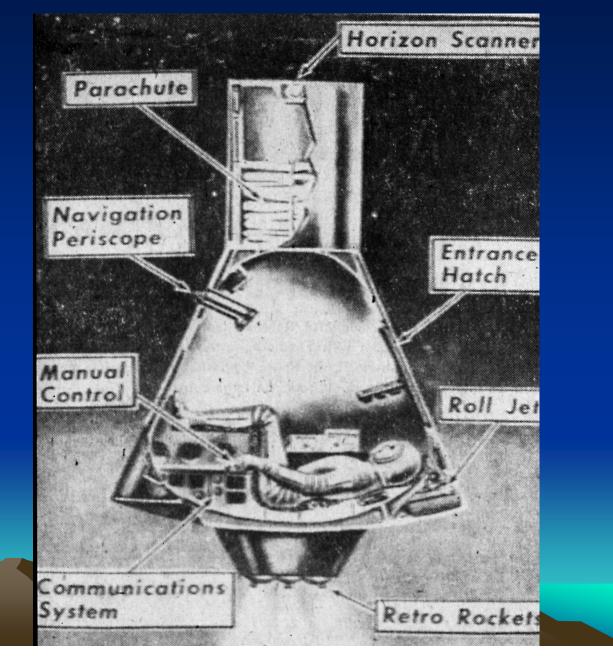
Explorer-1 Satellite/Jupiter C Booster Launch By Wernher von Braun



Mercury Spacecraft Planning Session Charlie Donlan, Robert Gilruth, Max Faget, Bob Piland



Sketch Of Mercury Spacecraft



Original 7 Astronauts Scott Carpenter, Gordon Cooper, John Glenn, Gus Grissom, Wally Shirra, Alan Shepard, Deke Slayton

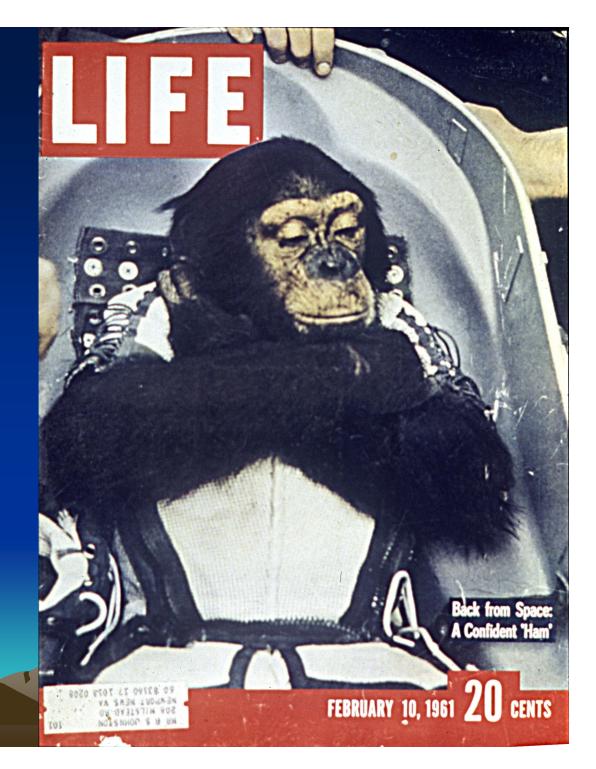


Astronauts in their Space Suite Built by B. F. Goodrich



• "Ham"

- The 1st. American Astronaut
- "Astrochimp"



Alan Shepard

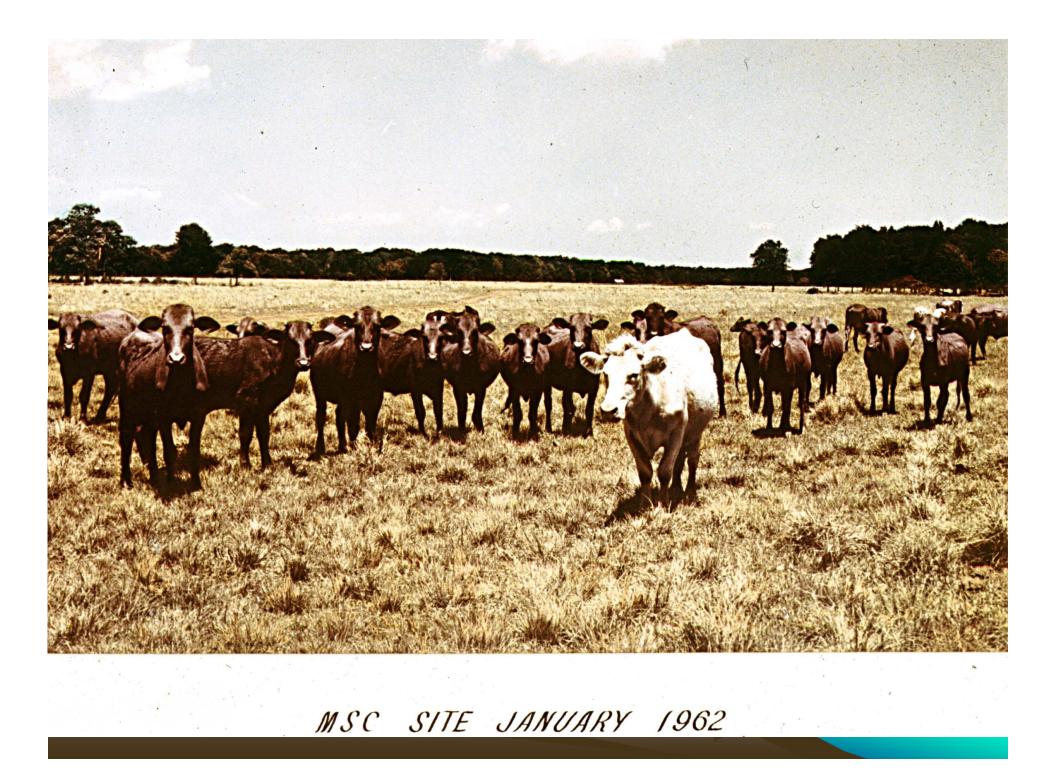
- Mercury Spacecraft
- Freedom 7
- 1st US Manned Suborbital Flight

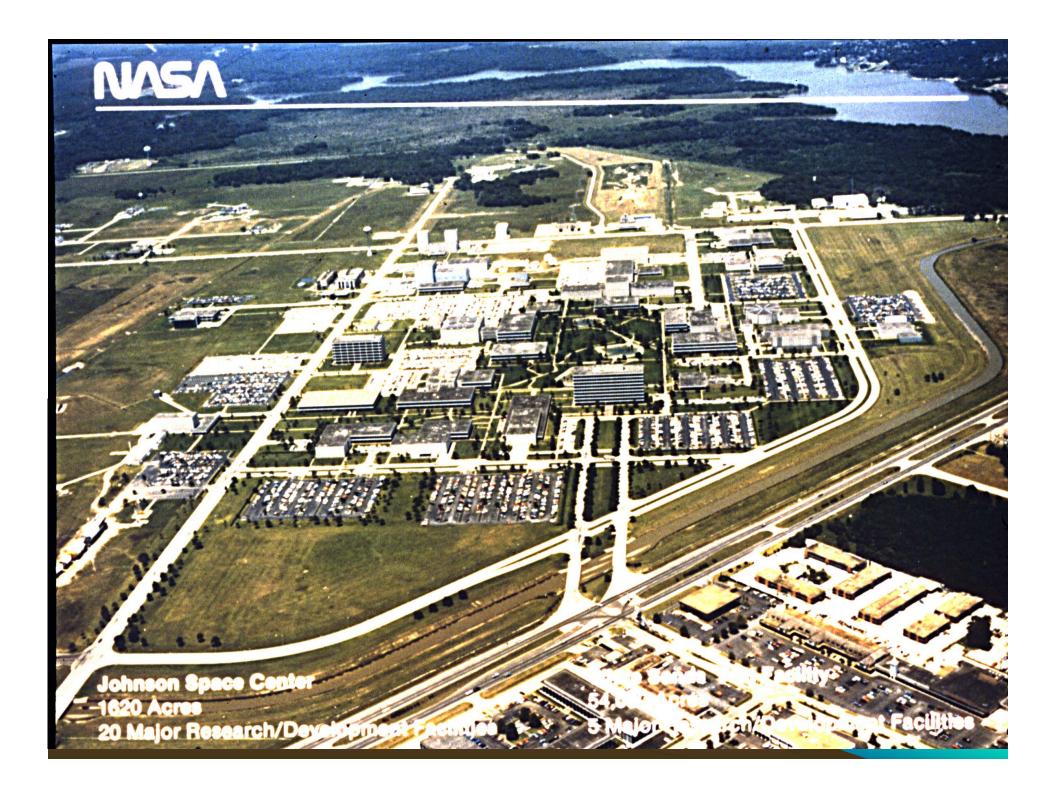


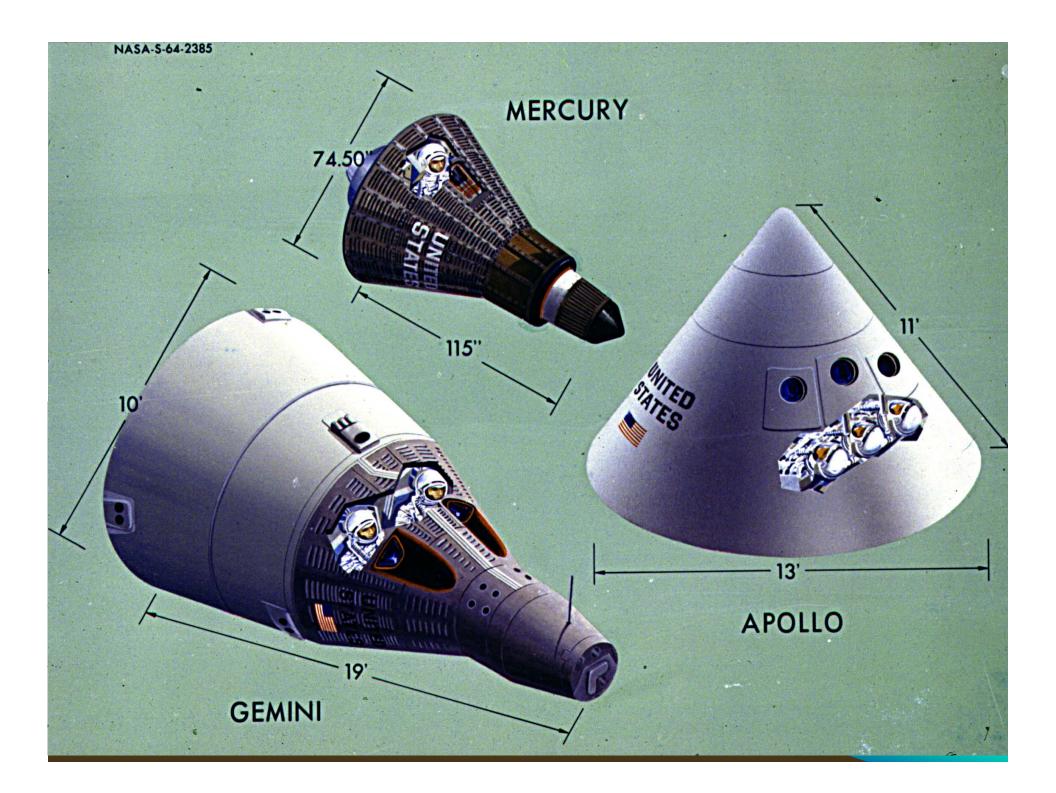
Alan Shepard

- Mercury-Redstone
 Booster Launch
- Freedom 7
- Cape Canaveral, Florida









John Glenn, 1st US Orbital Flight Dr. Douglas, & Space Suit Technician, Joe Smith

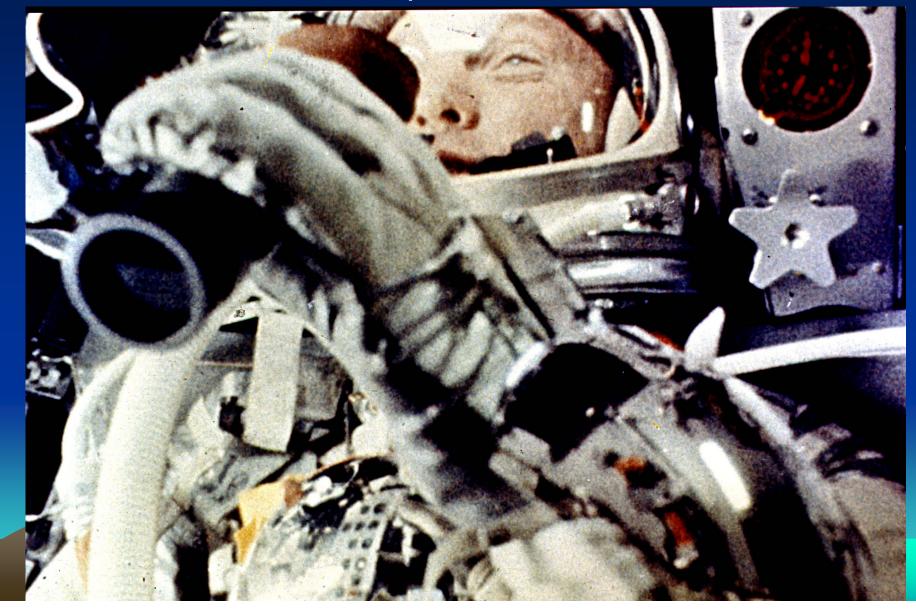


John Glenn

- 1st US Orbital Flight
- "Friendship-7" Launch
- Air Force Atlas Booster
- Cape Canaveral, Florida
- February 20, 1962



John Glenn in Orbit Experiment



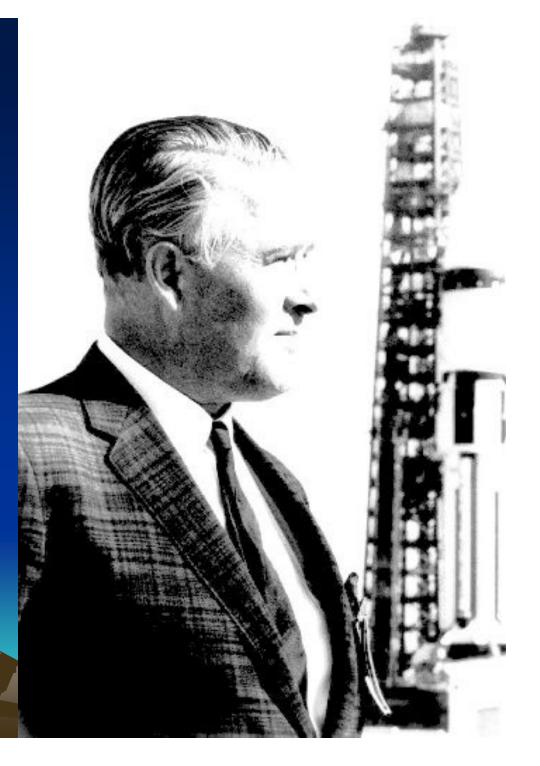
- Jim McDivitt & Ed White
- Gemini IV-Titan Booster Launch
- Cape Canaveral, Florida
- 1st Launch Controlled from Houston Space Center



Astronaut Ed White 1st American Space Walk With Jets



- Dr. Wernher von Braun
- Director of Marshal Space Flight Center
- Developed the Redstone Rockets used on Mercury Suborbital Flights
- Developed the Saturn Rockets for Apollo



Apollo 8 Astronauts

 Jim Lovell, Bill Anders, & Cmdr. Frank Borman

• 1st Manned Lunar Orbit

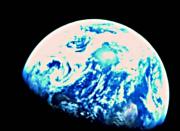


 Apollo 8-Saturn V Booster Launch

- 1st Manned Spacecraft to Orbit the Moon on Xmas Eve 1958
- Cape Kennedy Launch



Earth Rise @ the Moon

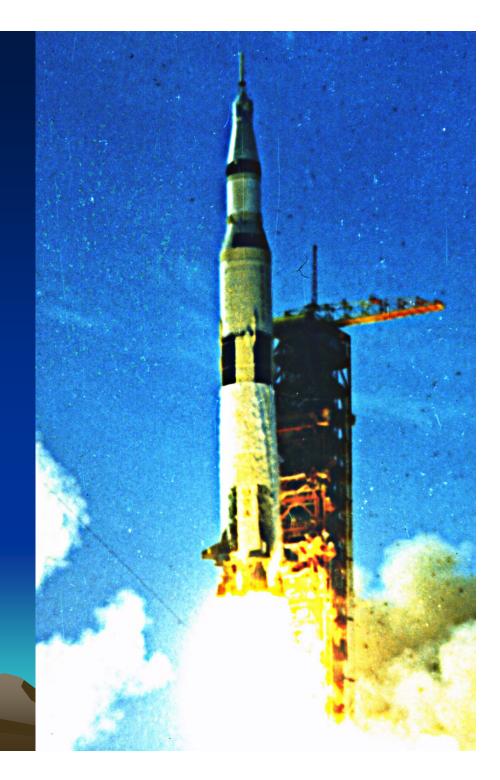


Apollo 11 Astronauts Commander Neil Armstrong, Mike Collins, "Buzz" Aldrin

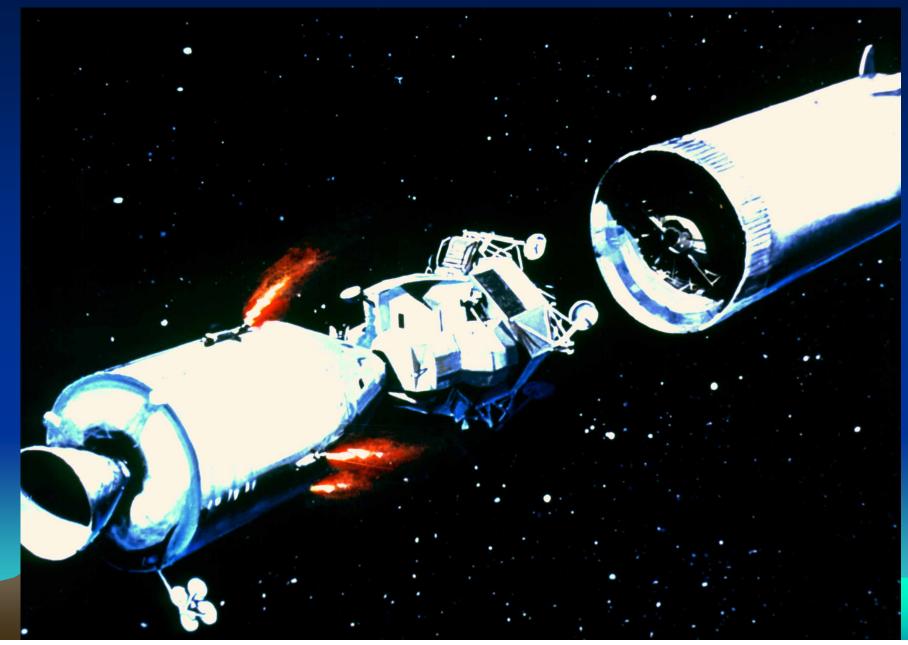


 Apollo 11/Saturn V Booster Launch

- Cape Kennedy, Florida
- 1st Manned Lunar Landing



Spacecraft Staging in Earth Orbit



Mission Control Center Celebration Dr. C. Kraft, (lighting Dr. Faget's cigar), Dr. George Low, Dr. Robert Gilruth



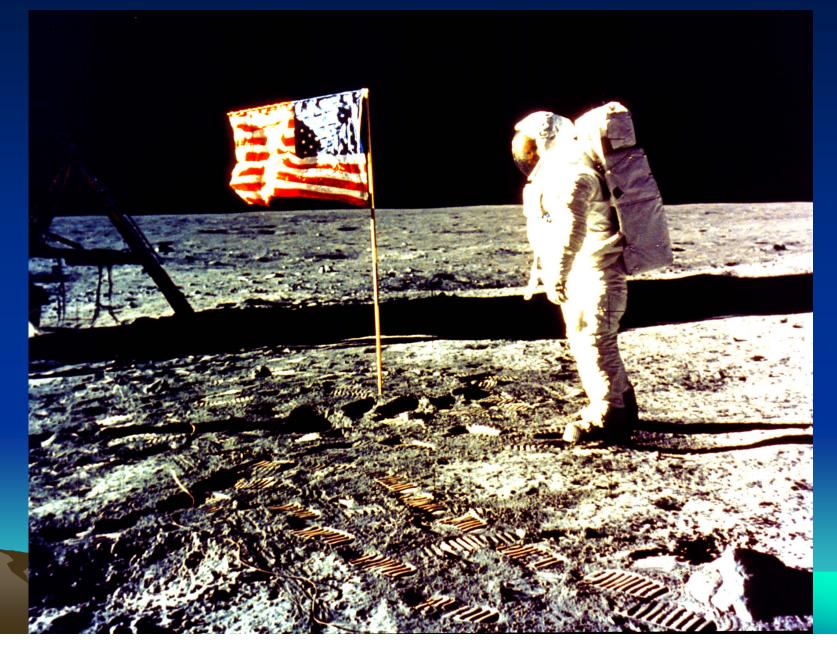
Dick Johnston, Dr. Gilruth, Dr. Faget, Dr. George Mueller, NASA Administrator Thomas Paine



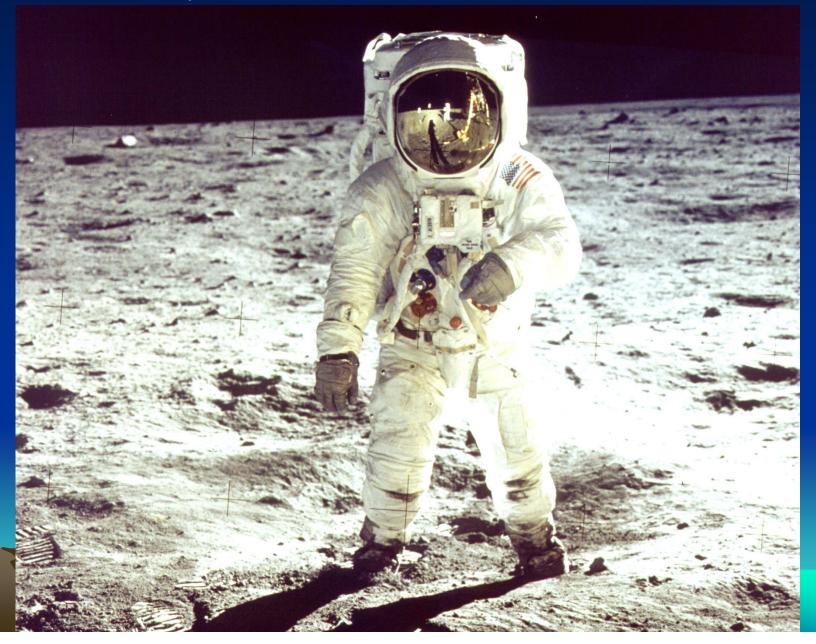
Buzz Aldrin Descent to Moon (Photographer Neil Armstrong)



"Buzz" Aldrin Planting the US Flag on the Moon



Photograph of Buzz Aldrin (Neil Armstrong reflection in Visor)

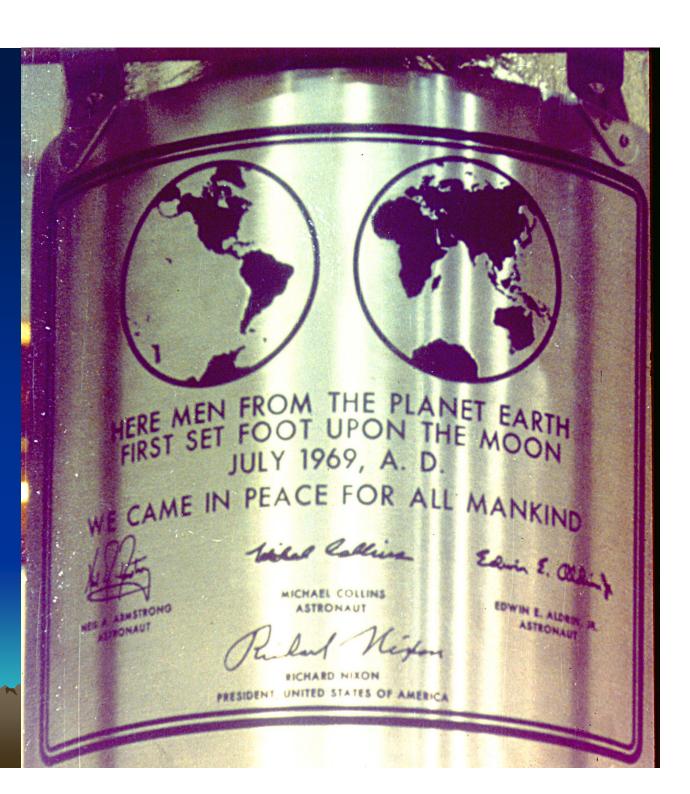


 Plaque on the Leg of the Lunar Descent Engine, left on the Moon

"HERE MAN FROM MOTHER EARTH FIRST SET FOOT UPON THE MOON July 1969, A.D. We came in peace for all Mankind"

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 Signed: Astronauts Neil Armstrong, Michael Collins, "Buzz" Aldrin, & President Richard Nixon



LEM Ascent Engine Approaching the CSM

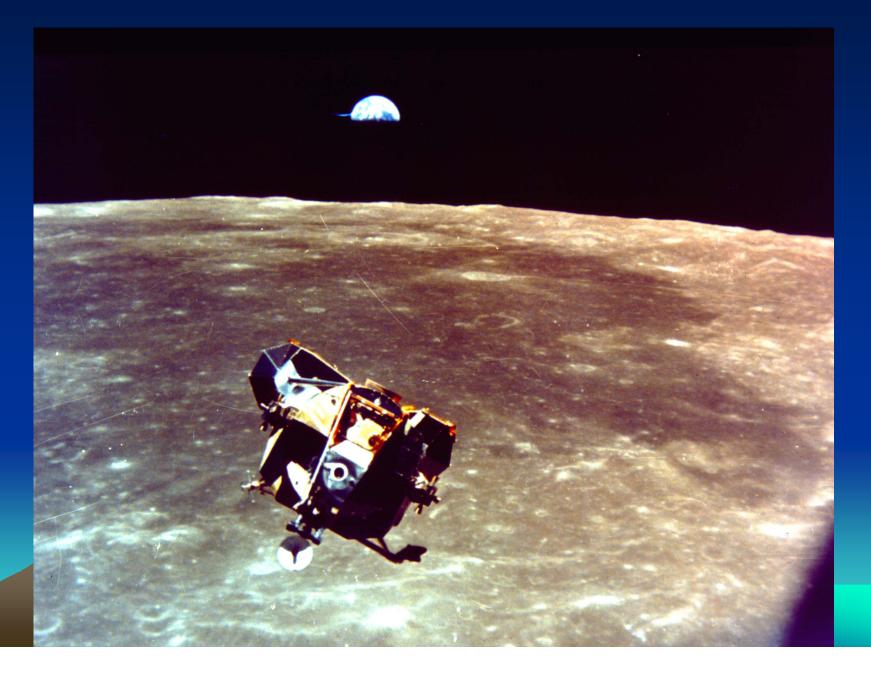
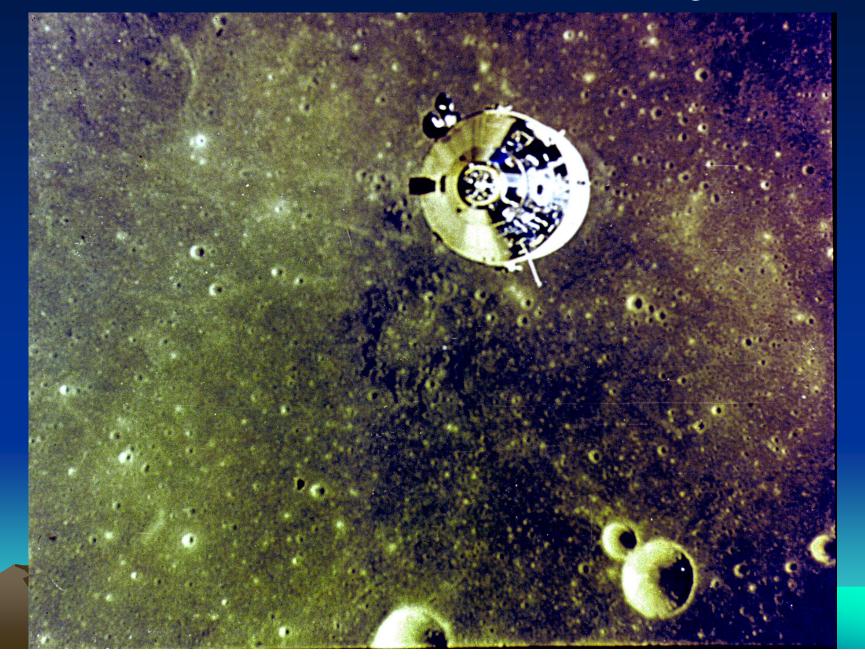
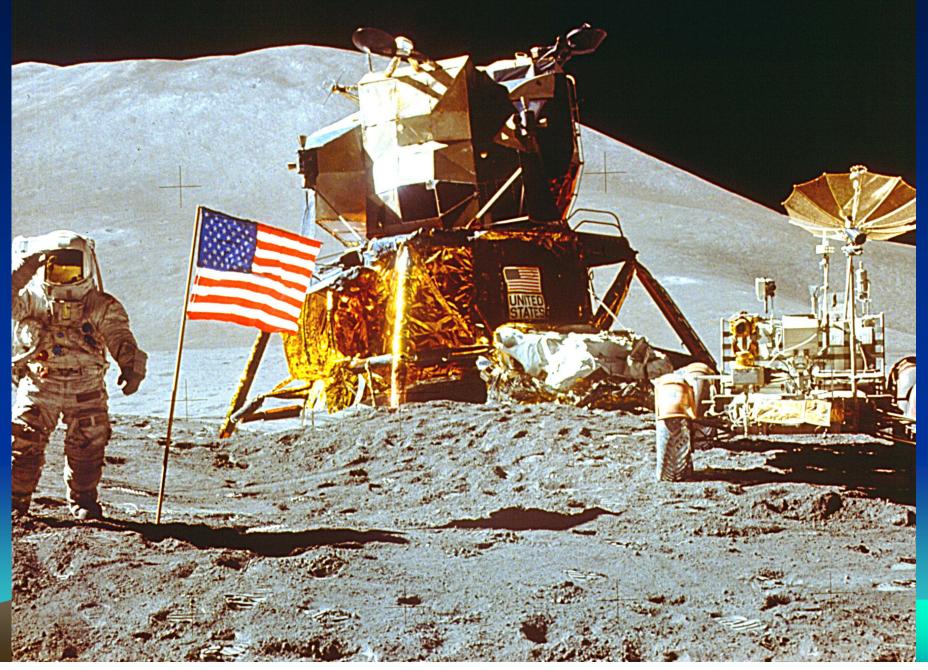


Photo of CSM from LEM Ascent Engine



Cmdr. Erin, Apollo 15, Flag & Lunar Rover



Lunar Rover Transverses the Moon



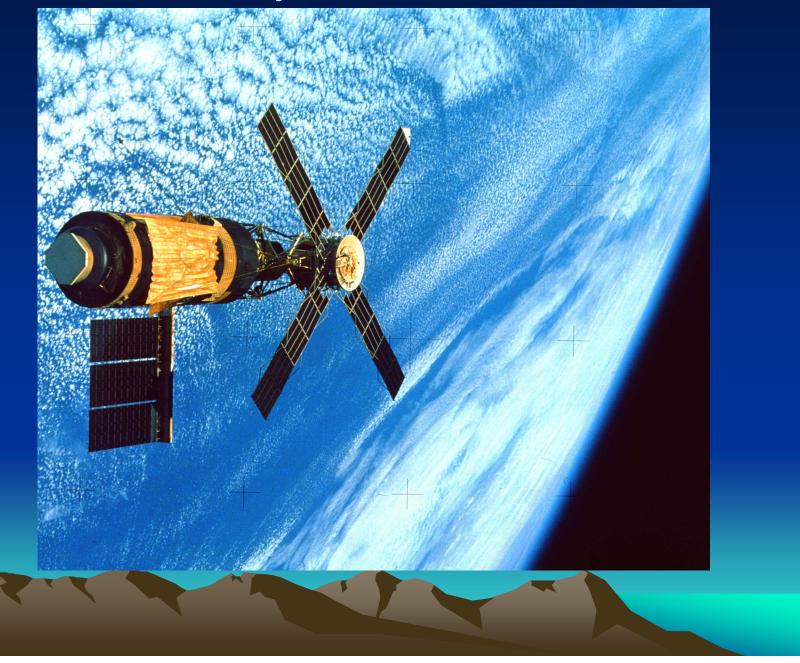
Commander Gene Cernan, Apollo 17 Last Foot Print on the Moon



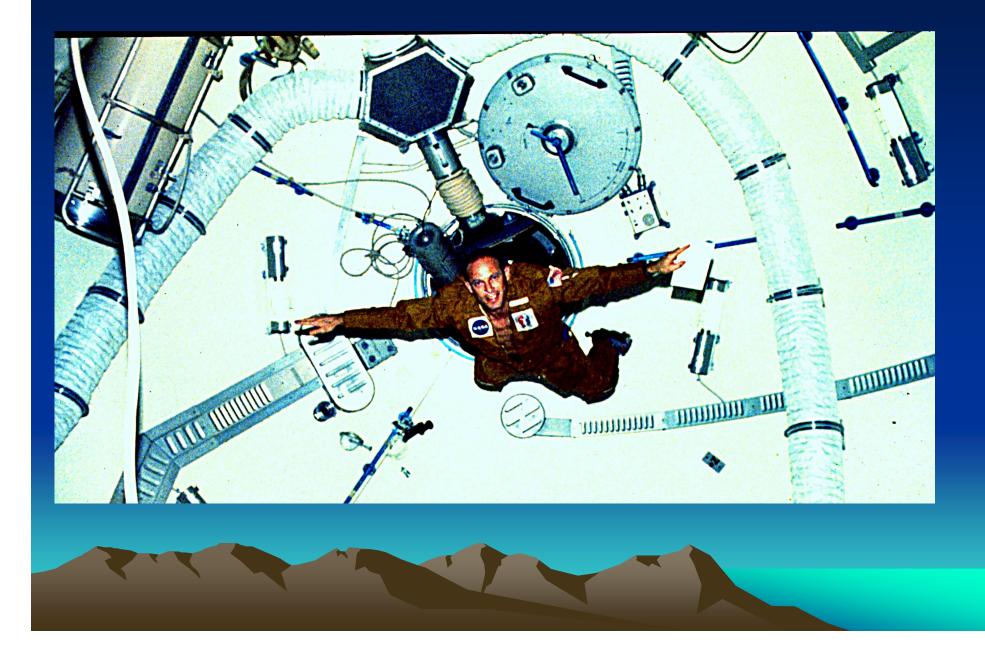
Earth & Moon Photo in Earth Orbit



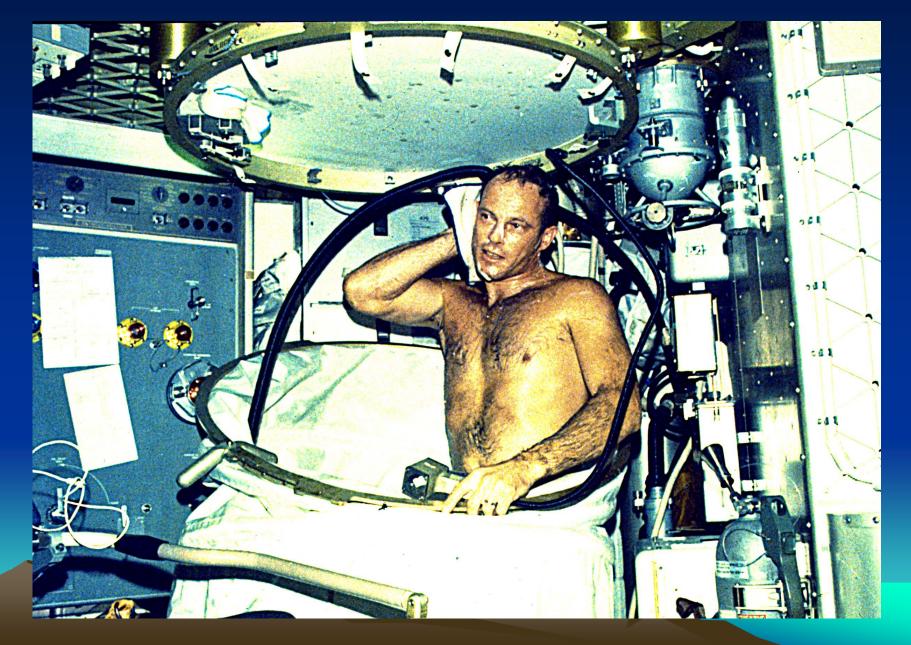
Skylab with Parasol



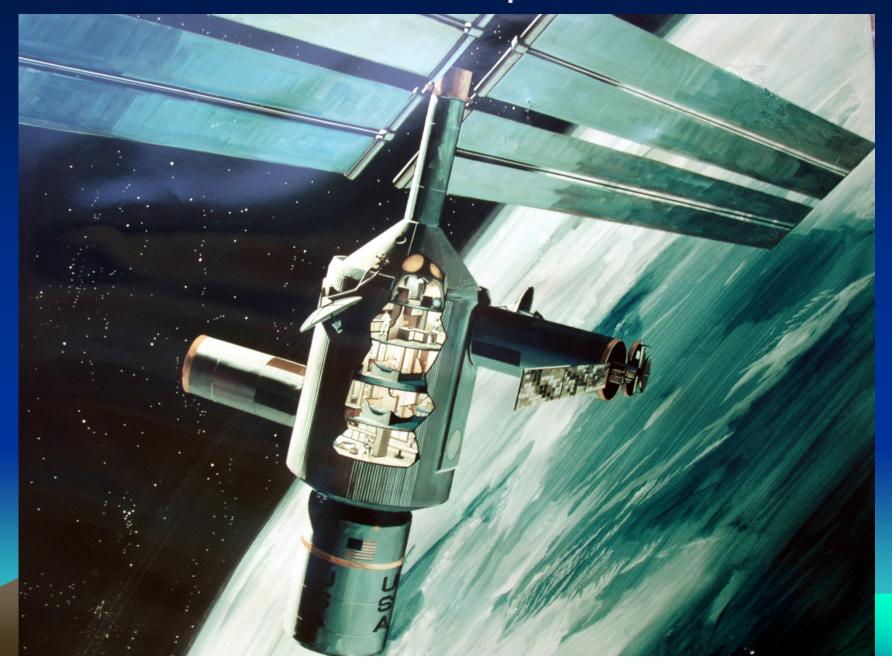
Astronaut in Skylab



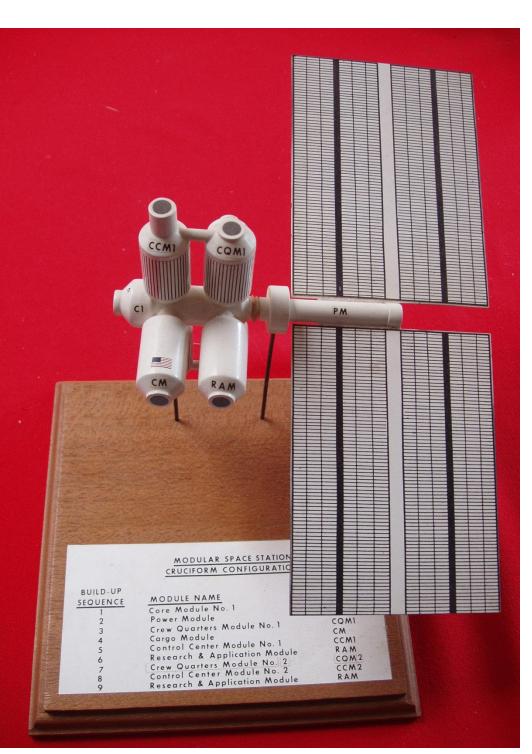
Astronaut bathing



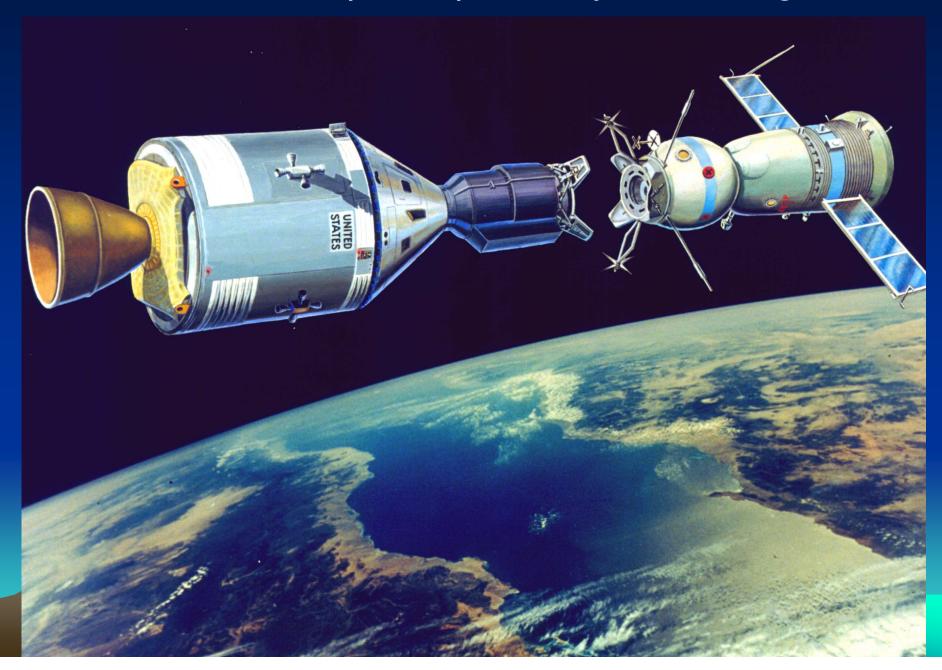
Saturn Boosted Space Station



- 1st. Concept for putting Space Station up with the Shuttle
- Designed in Early 1970s
- Canceled Lack of funds



Artist Concept of Apollo-Soyuz Docking



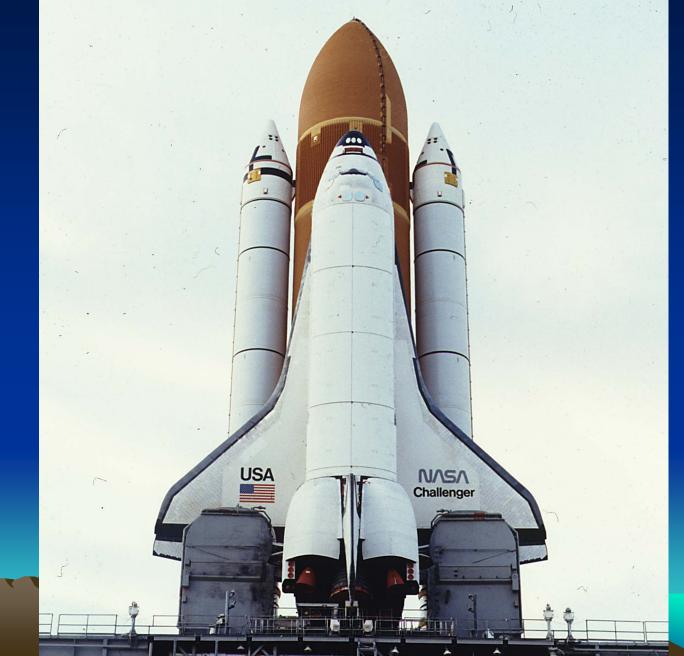
Space Shuttle Being Transport by Boeing 747 Over Johnson Space Center



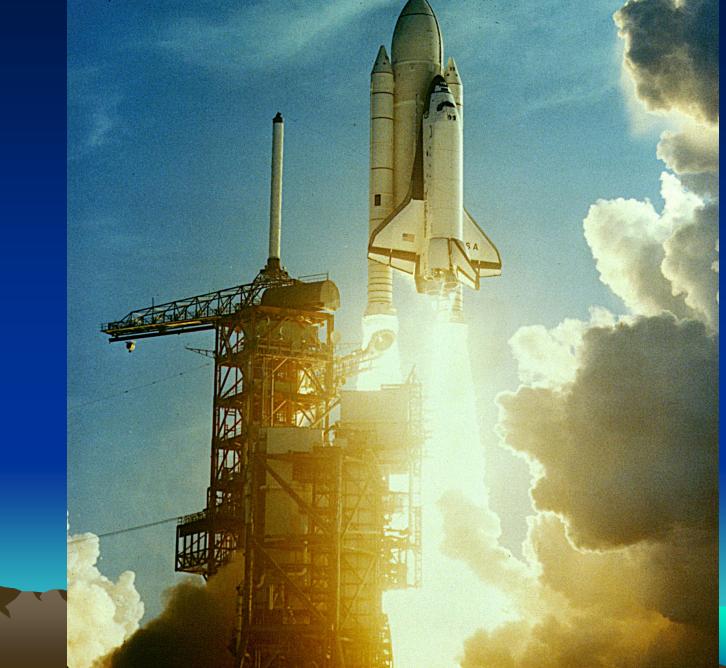
Space Shuttle @ Apollo Vertical Assembly Bldg. Cape Kennedy, Florida



Space Shuttle, On Launch Pad







Space Shuttle Launch



Satellite Business System SBS-3 Launch of Satellite Rocket from Shuttle Bay



Intelsat VI Repair, 3 Man EVA



Astronaut on Manipulator Arm, built by Canadians



McCandless: Manned Maneuvering Unit (MMU)



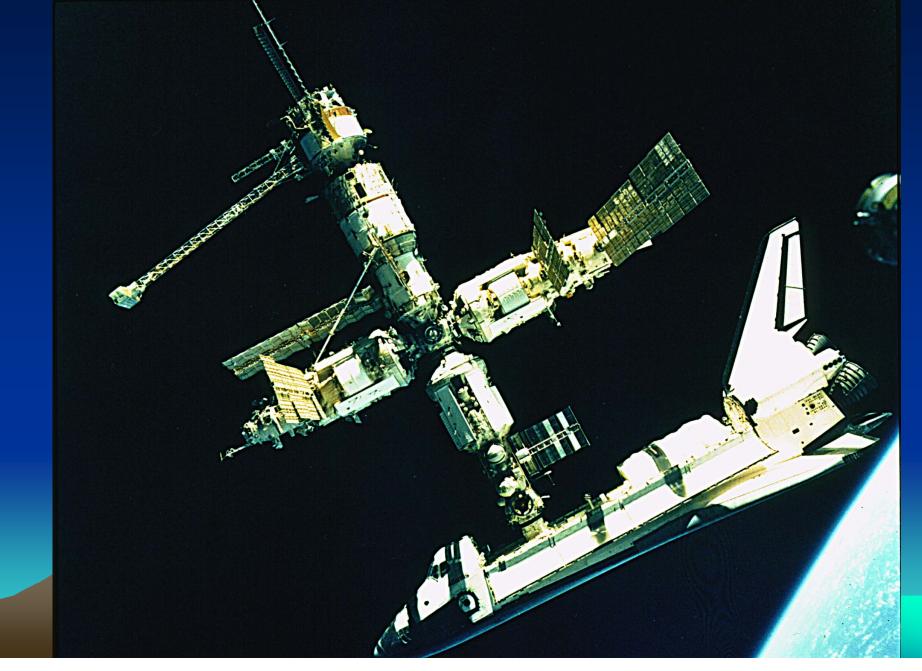
Hubble Telescope Lens Repair from Shuttle Bay





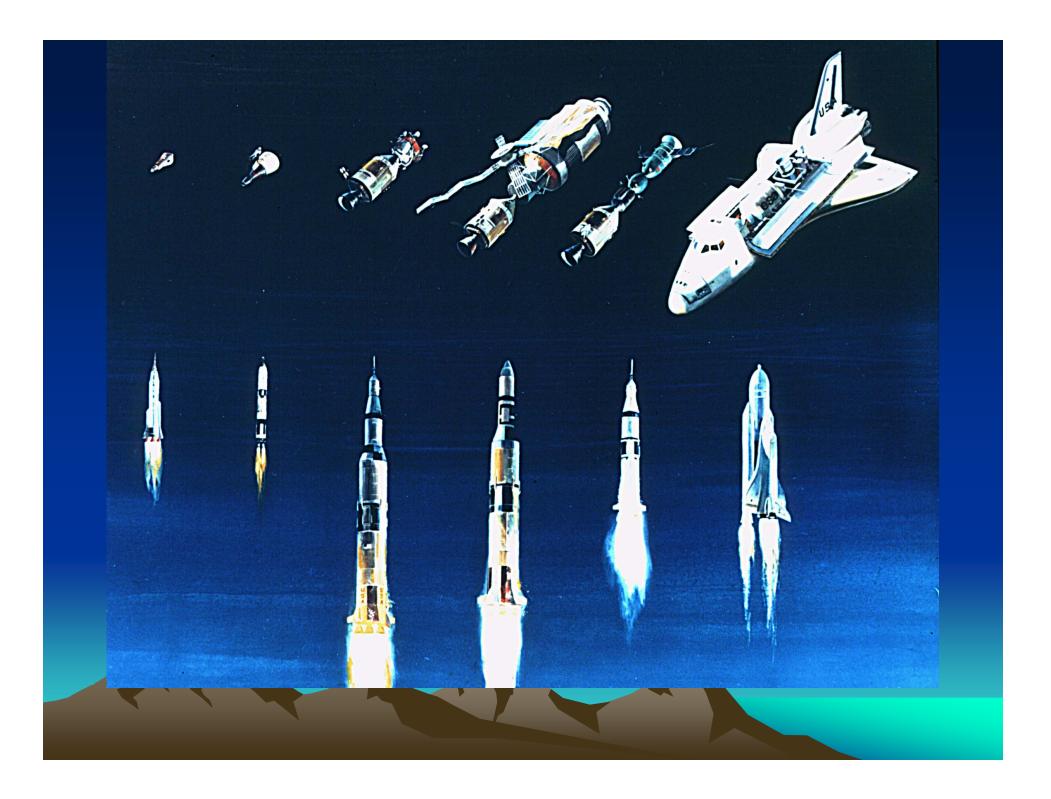
Hubble Space Telescope • WFPC2

Shuttle Docking with Russian MIR Space Station



MIR & Shuttle Astronauts Meet





Shuttle Docked with International Space Station



Shuttle Landing with Drogue Parachute



Old Mission Control Center Historical Museum



New Mission Control Center



