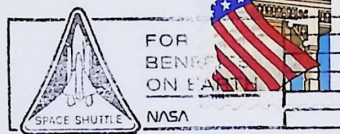
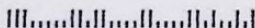


SPACE SHUTTLE
STS-87/COLUMBIA



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SPACE SHUTTLE (STS-87/COLUMBIA)

Mission STS-87 aboard Columbia will feature the fourth flight of the U.S. Microgravity Payload (USMP-04) and the deployable Spartan-201 satellite. The USMP program is a series of missions developed by NASA to provide scientists with an opportunity to conduct research aboard the Shuttle in the unique microgravity environment for long periods of time. Highlights of the mission will include the deployment and retrieval of Spartan-201, a satellite that will take measurements of the solar wind.

THE STS-87 CREW – Mission Commander **Kevin R. Kregel** will lead the crew of one other veteran space flyer and four rookies on mission STS-87. Kregel, who became an astronaut in 1992, is a veteran of two space flights and has logged more than 618 hours in space. **Steven W. Lindsey**, an astronaut since May 1996, will serve as pilot on his first space trip. He has logged more than 2,700 hours of flying time in 49 different types of aircraft. Mission Specialist **Winston E. Scott**, an astronaut since 1992, flew on STS-72 during which he conducted two spacewalks. First-time space flyer **Kalpana Chawla** reported for training as a mission specialist astronaut in 1995 and has a doctorate in aerospace engineering. Mission Specialist **Takao Doi** joined the National Space Development Agency (NASDA) of Japan in 1985 and has been working in the Japanese manned space program since then. During STS-87, Doi will become the first Japanese astronaut to conduct a spacewalk from a Space Shuttle. Payload Specialist **Leonid Kadenyuk** of the Ukraine will be flying his first Shuttle mission on STS-87. Kadenyuk has flown 54 different types of aircraft and has logged more than 2,400 hours flying time.

THE STS-87 CREW INSIGNIA – The STS-87 crew patch is shaped like a space helmet symbolizing the extravehicular activity on the mission in support of testing of tools for the assembly of the International Space Station. Planet Earth is shown reflected on the backside of the helmet. The Space Shuttle Columbia forms the interface between the Earth and the heavens. The three red lines emerging from Columbia represent the astronaut symbol as well as the robot arm which will be used to deploy and retrieve the Spartan satellite. The letters "ug" represent the USMP-04 payloads. Gold flames outlining the helmet visor represent the corona of the sun, which will be studied by Spartan. The flag of Ukraine is next to the name of the payload specialist who is the first person from that country to fly on the Space Shuttle.