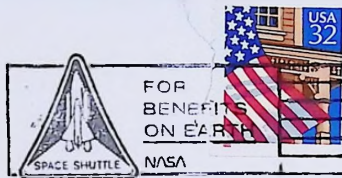


SPACE SHUTTLE
STS-75/COLUMBIA



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SPACE SHUTTLE (STS-75/COLUMBIA)

The seven member international STS-75 crew will conduct scientific investigations with both the Tethered Satellite System (TSS-1R) and United States Microgravity Payload-3 (USMP-3) primary payloads during the second Space Shuttle mission of the year. The objectives of the TSS program are to demonstrate the ability to deploy and control satellites on long tethers in space and to conduct space plasma experiments that include the generation of electrical power. The USMP-3 is a continuation of NASA's microgravity research program to provide advances in the fields of materials science and condensed matter physics.

THE STS-75 CREW – The Columbia crew includes two European Space Agency (ESA) astronauts and one from the Italian Space Agency (ASI), as well as four veterans of STS-46 that flew in 1992. Mission Commander Andrew M. Allen (Major, USMC) is on his third space trip, having served as pilot on both STS-62 and STS-46. Pilot Scott J. "Doc" Horowitz (Ph.D), a major in the Air Force, is on his first shuttle mission and was selected as one of the Outstanding Young Men in America in 1985. Payload Commander Franklin R. Chang-Díaz (Ph.D) has flown on STS-60, STS-46, STS-34, and STS-61C. The three mission specialists are Jeffrey A. Hoffman (Ph.D) has served in this capacity on STS-61, STS-46, STS-35 and STS-51D; Claude Nicollier (ESA), a captain in the Swiss Air Force, has flown on both STS-61 and STS-46; Maurizio Cheli, another ESA astronaut, is a lieutenant colonel in the Italian Air Force and STS-75 is his first space trip. Rookie Payload Specialist Umberto Guidoni (ASI) is the project scientist responsible for the Electrodynamic Tether Effects experiment on the TSS-1R.

THE STS-75 CREW INSIGNIA – The crew patch for STS-75 depicts Shuttle Columbia and the Tethered Satellite connected by a 21-km electronically conducting tether. The Orbiter/satellite system is passing through Earth's magnetic field, like an electronic generator, will produce thousands of volts of electricity. Columbia is carrying the USMP Pallet to conduct microgravity research and the tether can be seen crossing Earth's terminator signifying the dawn of a new era for space tether applications and in mankind's knowledge of Earth's ionosphere, material science, and thermodynamics. The emblem was designed for the STS-75 crewmembers by Mike Sanni.