



DENISE CARROLL
7 Blackstone Dr. 54
NASHUA, NH 03063

SPACE SHUTTLE (STS-48/DISCOVERY)

STS-48 CREW INSIGNIA — Designed by the astronaut crewmembers, the STS-48 patch represents the Space Shuttle Orbiter Discovery in orbit about the Earth after deploying the Upper Atmospheric Research Satellite (UARS). 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 triangular shape of the emblem represents the relationship among the three atmospheric processes that determine upper atmospheric structure and behavior: chemistry, dynamics and energy. In the words of the crewmembers, "This continuous process brings life to our planet and makes our planet unique in the solar system." STS-48 astronauts are John O. Creighton, commander; Kenneth S. Reightler, pilot; and mission specialists James F. Buchli, Mark N. Brown and Charles D. Gemar.