



KSC holds daylong tribute to worker safety and health

▲ **Spaceport Super Safety and Health Day 2004:** Only 2 days to go until the Spaceport Super Safety and Health Day, Thursday! The kickoff at 8 a.m. in the Training Auditorium features two keynote speakers, one for safety and one for health. The presentations are by Dr. Pamela Peeke, who translates cutting-edge science into eye-opening, enlightening and easy to understand “news you can use”; and Commander Stephen E. Iwanowicz, who highlights the U.S. Navy Submarine Safety Program.

The afternoon program is packed with many choices, so make sure you check out the [Web site](#) for the schedule of events. Afternoon activities will feature speakers in the Training Auditorium, vendors and exhibitors, astronaut visits and opening ceremonies for second and third shifts.

The vendor doors will not open until noon. Transportation runs continuously between the three vendor sites: VAB, O&C and Hangar T.

▲ **Shuttle Update:** On *Discovery*, the Remote Manipulator System (RMS), or Space Shuttle robotic arm, was installed in the payload bay on Oct. 15. The arm was powered up for testing Oct. 20. During testing, the end effector, or grappling end, saw an unexpected temperature increase. Managers have decided to remove the end effector and replace it. The RMS will not have to be removed to

perform this work.

Atlantis will be powered up the week of Nov. 15, following an extensive power-down period during which Return to Flight modifications are being performed. These include the wiring for the Orbiter Boom Sensor System and installation of the wing leading edge sensors.

All four right-hand and left-hand radiators on *Atlantis* have been installed for flight. Closeout of the chin panel, the semi-circle-shaped section of Reinforced Carbon-Carbon under the nose cap, is ongoing.

Space Shuttle *Endeavour* is in its Orbiter Major Modification period, which began in December. Electrical modifications continue in the crew module. Three-String Global Positioning System wire routing in the avionics bay and flight deck continues. Technicians are beginning elevon actuator inspections. Removal of the left outboard elevon actuator is complete. Once the actuator was removed, leak and flow checks were performed.

■ **Environmental & Energy Awareness Planning Team Meets Nov. 4** — The Environmental & Energy Awareness Week (EEAW) team is ready to plan the 2005 activities for next year’s EEAW in celebration of Earth Day. If you would like to participate in the planning activities, join the team at 10 a.m. Nov. 4 in the O&C Building/Room 1055. If you cannot make the

Robotic arm part on *Discovery* being replaced after testing

meeting and would like to participate, call John Ryan at 867-8413 or Barbara Naylor at 867-8452.

■ **NASA Science** — Years after exposure to space radiation, many astronauts’ vision becomes clouded by cataracts. Understanding why may shed light on cataracts suffered by elderly people. Gazing out of their space capsules, Apollo astronauts witnessed sights that humans had never before seen. They saw the breathtaking view of the Earth’s bright blue disc against the inky black of space. They saw the far side of the Moon. They also saw strange flashes of light *inside their eyeballs!* Find out more about this phenomenon at http://science.nasa.gov/headlines/y2004/22oct_cataracts.htm?list550276

■ **Cassini Anniversary** — Oct. 15 marked the seven-year anniversary of the launch of the Cassini spacecraft and Huygens Probe in 1997. The most recent spacecraft telemetry was acquired from the Goldstone tracking station on Oct. 19. The Cassini spacecraft is in an excellent state of health and is operating normally. Information on the present position and speed of the Cassini spacecraft may be found on the “Present Position” [Web page](#).

■ **Did You Know?** Thomas Jefferson was the inventor of the swivel chair. And Calvin Coolidge is the only President to have been born on the Fourth of July (1872).