



Discovery rolls to pad for launch of mission STS-114

▲ **Shuttle Update:** The rollout of Space Shuttle Discovery Wednesday achieved a major milestone in KSC's efforts for Return to Flight. First motion began at 2:04 p.m. as the Shuttle, Mobile Launcher Platform and Crawler-Transporter headed for Launch Pad 39B. The launch window is May 15 to June 3 for mission STS-114 to the International Space Station.



▲ **ISS Update:** Last week, Expedition 10 crew members Leroy Chiao, commander, and Salizhan Sharipo, flight engineer, conducted science experiments, prepared for the arrival of their replacements and readied the Station for the first post-Columbia Shuttle mission. The crew began packing gear that will be returned on the Shuttle, and they checked out cameras that the upcoming Station crew will use to photograph the Shuttle's heat shield.

Two of the Space Station's Control Moment Gyroscopes (CMGs) continue to perform well, controlling

the Station's orientation. A brief, unusual vibration was detected on one of them, CMG 3, just after the end of the spacewalk March 28. Engineers are continuing to evaluate the indication. Two additional gyroscopes are not operating. One of them is planned to be repowered during a spacewalk on the upcoming Shuttle mission and another will be replaced at that time. Two gyroscopes are sufficient for control of the current Station, but additional gyroscopes will be needed as assembly of the Space Station resumes and the size of the complex increases.

■ **Environmental and Energy Awareness Week (EEAW) Space Life Sciences Laboratory (SLSL) Tour** — Explore the new Space Life Sciences *Phytotron Laboratory* at **10:30 a.m. April 20.** The SLS Lab has been in operation for about 18 months and is responsible for maintaining a large portion of the life science research at KSC. A significant part of the SLS lab is the phytotron area (phytotron means "plant instrument") that supports ground and flight research pertaining to the study of plants. Plants are being considered as a key component of a bioregenerative life-support system to provide fresh food supplements to the crew on long-duration missions, as well as provide oxygen, CO₂ removal and water purification. Come see the many

ISS Expedition 10 crew prepares for Discovery arrival

aspects of plant research that are actively being performed, including environmental responses, crop evaluations, alternative lighting (LEDs) and microbial interactions. Guests entering the facility will have to sign in, don an SLS lab visitor badge and return the badge when they leave. The tour will meet at the EEAW Welcome Table in front of the O&C Building at 10:30 a.m. Permission from your supervisor is needed, and space is limited. To participate, contact Shannah Trout at 867-8443.

■ **Education Opportunity** —



The University of Miami will begin accepting applications for the Master of Science in Management of Technology (MSMOT) degree program starting in late spring and the Master of Science in Industrial Engineering (MSIE) program starting in July. Both programs will be taught in Cape Canaveral. Courses are held Friday evenings and Saturdays to accommodate working professionals. For more information and to receive an application/brochure, please call Augusto Roca, program administrator, at 1-305-284-4100 or send e-mail to augusto@miami.edu.

■ **Did You Know?** On this day in history in 1948, the World Health Organization was established by the United Nations.