



# countdown

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## Endeavour on track for February 14 launch

◆ **Shuttle Update:** In Orbiter Processing Facility bay 2, installation of replacement overhead window No. 8 and a new reinforced carbon-carbon panel, RCC No. 10 right, was completed on Endeavour.

Technicians are installing the main engines this week. The crew module hatch functional test is nearing completion. Thermal protection system work continues on the main landing gear doors, wings, elevons and orbital maneuvering system pods. Payload pre-mate testing is under way.

Liquid oxygen tank No. 1 is installed and is undergoing leak checks.

◆ **ISS Update:** Using the space station's robotic arm, Expedition 16 Commander Peggy Whitson and Flight Engineer Dan Tani successfully relocated the Harmony module from its temporary location on the Unity node to its permanent position on the forward end of the Destiny laboratory at 5:45 a.m. Wednesday. The operation was completed about two hours ahead of schedule.

Harmony's move began at about 4:21 a.m., with Whitson working in Destiny and Tani operating the Canadarm2.

The next stage is two spacewalks by Whitson and Tani on Nov. 20 and 24 to complete the hook up of pressurized mating adapter-2 and Harmony to the station.

Wednesday's operation was the first time a major component of the station had been relocated without a shuttle present.

Harmony is now in position to allow visiting space shuttles to dock. The module will provide attachment points for the

European Space Agency's Columbus laboratory, scheduled to arrive next month, and Japan's Kibo experiment module, to be added to the station early in 2008.

■ **Powered by NASA** — NASA's space technology is helping to heal soldiers and civilians, proving that the nation's modest investment in NASA is keeping all of us on the healing edge. You can read more about it on the Web at <http://insidenasa.nasa.gov/portal/site/insidenasa>. Look in the Deputy's Corner on the right and click on "Happy Veteran's Day."

■ **Kudos** — The SGS Energy Management Office would like to thank everyone who participated in the October Energy Awareness Month contest to "Guess the KSC Electric Bill." The winner of the LED flashlight is **Michael Canicatti** for guessing closest to the October electric bill for the KSC Industrial and LC-39 areas. The actual October FPL bill for KSC was \$1,780,856.96. Congratulations to Michael for his guess of \$1,780,528, a difference of only \$328.96!

■ **Open Rehabworks Forum** — Have you been suffering from an injury that you have questions about? Do you have children in sports or coach a team? Want to know what is the right protocol for strength training? Maybe you have been training for a 5K and developed some overuse injuries. Need to know the proper treatments? Do you spend long hours at your workstation? Does that lead to headaches, pain in the arms and wrist? If these questions sound familiar, then we

## Module move on ISS allows for December shuttle docking

can help. You pick the topic for the Rehabworks Educational Lecture Series being held **from 10 to 11 a.m. today** in the OSB II, room 3214. This event is for you! Come, ask and learn! For more information, please call Erik Nason at 867-7497 or e-mail [Erik.T.Nason@nasa.gov](mailto:Erik.T.Nason@nasa.gov).

■ **Concerts at KSC** — The Kennedy Space Center Visitor Complex is hosting a series of concerts as part of NASA's 50th anniversary celebration. The series began Nov. 10 with Kansas, one of the leading rock bands of the '70s and '80s.

With the iconic Rocket Garden as the backdrop, the live, festival-style outdoor concert will continue every Saturday at 4 p.m. for three more weeks, Nov. 17 and 24 and Dec. 1. The headliner for Saturday is Josh Gracin. On Nov. 24, it's Lou Gramm, the lead vocalist and co-writer of the multi-platinum band Foreigner. Wrapping up the series on Dec. 1 is RPM: Rock & Pop Masters.

Special \$15 (adult and child) tickets are available for any badged NASA, Cape Canaveral Air Force Station, Patrick Air Force Base, NASA alumni and temporary badged employees. Tickets may be purchased at the KSC NASA Exchange stores, PAFB Information Ticket & Tours (ITT) store and the CCAFS Travel Store.

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