



# countdown

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## Atlantis nears OPF-VAB rollover date



◆ **Shuttle Update:** **Atlantis'** rollover from OPF1 to the VAB is targeted for Oct. 6.

Work in progress includes potable water service and midbody and aft closeouts.

On **Endeavour**, work in progress includes water spray boiler checkout and servicing, rudder speed brake Inconel barrier modification, standard mixed cargo harness reconfiguration and forward reaction control system interface verification.

The shuttle crew has been named to take on the final shuttle mission, STS-133, targeted to launch in September 2010. The commander is Steven Lindsey, who will be making his fifth shuttle flight. The pilot is Eric Boe. Mission specialists are Alvin Drew, Michael Barratt, Tim Kopra and Nicole Stott.

◆ **ELV Update:** The STSS Demo mission team was hoping for a break in the weather Wednesday but storms near the CCAFS launch pad forced a scrub. Teams will try again at 8 a.m. today.

■ **KEA-48: Tin Whiskers** — The KEA will host "An Empirical Model for Estimating the Probability of Electrical Short Circuits from Tin Whiskers – Part II" Sept. 29 at the KSC Training Auditorium 1–2 p.m. Dr. Karim Courey from the JSC Orbiter Project Office and Clara Wright from the KSC Materials Failure Analysis Laboratory will discuss the research performed at KSC on the subject.

They also will discuss the results of

the focused ion beam and transmission electron microscopy examination of a polycrystalline tin whisker. This presentation summarizes the research published in IEEE Transactions on Electronics Packaging Manufacturing in January 2009 and presented at the third International Symposium on Tin Whiskers in Lyngby, Denmark, in June 2009.

NASA and KSC contractor personnel are invited to attend. Questions and comments should be sent to [KSC-Engineering-Academy@mail.nasa.gov](mailto:KSC-Engineering-Academy@mail.nasa.gov). To view future listings, or video/PDF versions of past KEA events, please visit: <http://kea.ksc.nasa.gov/>.

■ **ISS Update — Expedition 21** begins with the Soyuz 18 undocking in October 2009. Two new crew members will arrive on Soyuz 20 for the handover before the previous crew departs: Russian Cosmonaut Maxim Suraev and NASA astronaut Jeffrey N. Williams, who will both launch in September 2009 on Soyuz 20 and return in March 2010 on Soyuz 20. They will join ESA astronaut Frank De Winne, the first European station commander; CSA astronaut Robert Thirsk; Russian cosmonaut Roman Romanenko; and NASA astronaut Nicole Stott, who are already on the station.

■ **NASA News** — NASA will hold a media briefing at 2 p.m. EDT today to discuss new science data from the moon collected during national and international space missions. The briefing will be aired live on NASA TV.

Briefing participants are *Jim Green*,

## Weather caused Wednesday's scrubbed STSS Demo launch

director of the Planetary Science Division, Science Mission Directorate at NASA HQ; *Carle Pieters*, principal investigator of the Moon Mineralogy Mapper at Brown University; *Rob Green*, project instrument scientist with the Moon Mineralogy Mapper at JPL in Pasadena, Calif.; *Roger Clark*, team member of the Cassini spacecraft's visual and infrared mapping spectrometer and co-investigator of the Moon Mineralogy Mapper at the U.S. Geological Survey in Denver; and *Jessica Sunshine*, deputy principal investigator for NASA's Deep Impact extended mission and co-investigator for Moon Mineralogy Mapper in the Department of Astronomy at the University of Maryland.

■ **Reminder** — The salute to Brevard residents' free weekend is September 25–27 at the KSC Visitor Complex. Brevard residents and up to five guests can enjoy free admission. Residents will need to show proof of residency in the form of a driver's license or utility bill to gain complimentary admission. Although not mandatory, guests are encouraged to bring one food item or canned good per guest to benefit the Central Brevard Sharing Center, North Brevard Charities and South Brevard Sharing Center.

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