



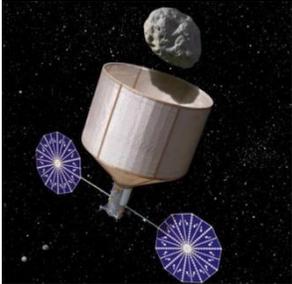
**AIAA/AFA
Joint Section Meeting**

Thursday, April 16, 2015

Lauri N. Hansen

**Director of Engineering,
NASA Johnson Space Center (JSC)**

**“Paving the Path for Human Space Exploration
aka: The Mission to Occupy Outer Space!”**



Location: Bethpage Public Library
47 Powell Avenue
Bethpage, NY 11714

Time: 6:00 PM Social Time
6:30 PM Pizza
7:00 PM Presentation

Cost for Pizza: \$5, Members and Guests
Free, for Students

**RESERVATIONS REQUESTED
RSVP BY April 15, 2015
to: David Paris at
davidsparis@optonline.net
or (516) 458-8593**

Lauri Hansen will discuss the challenges of human space exploration. The future of human exploration begins with earth reliant missions. These will utilize the ISS to learn how to safely execute deep space missions. In addition to research, this phase allows NASA to build international and commercial partnerships. The next step is the proving ground, which consists of cis-lunar missions, an ideal environment for testing capabilities required for long duration missions. The Orion multi-purpose crew vehicle and the Space Launch System rocket are instrumental in navigating the proving ground. These vehicles will enable missions like the Asteroid Redirect Mission, a robotic mission to redirect a near earth asteroid into a lunar orbit for a future crewed mission to explore. In order to be successful in the proving ground and become earth independent, NASA will be investing in advancing key technologies to assist human exploration. Human space exploration requires advancing spacesuits, robotics, propulsion, life support systems, and exercise devices. In order to make human exploration in deep space a reality we need to focus on earth reliant experiences, build technologies and capabilities in the proving ground, and develop planetary independence in deep space. The mission to occupy outer space begins now!

Lauri started at the JSC as a co-op student, and has held leadership positions there over the last 29 years. She has been: Deputy Manager of the ISS Vehicle Office during early ISS development; Manager, Engineering Project Management; Deputy Director of Engineering, and JSC Chief of Staff. In the Constellation Program, she was Director, Constellation Safety, Reliability & Quality Assurance, Project Manager, Altair Lunar Lander, and Director, Constellation Systems Engineering & Integration. She co- led the Crew Survival Working Group and was the Deputy Director of Safety & Mission Assurance.

As Director of Engineering, Lauri manages an organization of approximately 3000 civil servants and contractors and is responsible for the technical engineering of the ISS program, the Orion Program, supporting the Commercial Crew Program, and developing technology and engineering domains necessary for human spaceflight to Mars. She is the recipient of numerous NASA awards.

Directions: The library is west of Route 135 in Bethpage. Take Route 135 to Exit 8, then West on Powell Ave. for about 0.25 miles. The library is on the south side of the street. Park across Powell Ave., opposite the library.