



American Institute of Aeronautics & Astronautics  
**St. Louis Section**

*Dinner Meeting*  
**Tuesday, 13 October 2009**  
**Engineers' Club**  
**4359 Lindell Blvd.**

*Experiences of Living and Working on the International Space Station*

*Sandra H. Magnus, PhD*

**NASA Astronaut, Flight Engineer 2 and Science Officer**



**St. Louis Professional Societies, AICHE, ASME, AIAA, SAE, SWE, SFTE, WWW, IEEE, INCOSE will host a cooperative dinner meeting featuring Dr. Sandra Magnus. Dr. Magnus was a recent as a mission specialist aboard Space Shuttle missions, STS 112, to the International Space Station. She will share her space flight experiences during the Space Station rendezvous. Dr. Magnus is from the St. Louis area, Belleville, IL. She is also a former McDonnell Douglas engineer.**

STS-126 launched on November 14, 2008 and arrived at the station two days later to start Dr. Magnus' participation in Expedition 18 as the Flight Engineer 2 and Science Officer. The shuttle delivered all of the additional components necessary to expand the International Space Station to support a six person crew. During the course of Expedition 18 Dr. Magnus and Capt. Mike Fincke worked to install this new equipment - a water regeneration system, two new crew quarters, an advanced resistive exercise device and a second toilet. In addition, several new payload racks were installed and activated. Overall the mission completed the upgrade required to begin six person crew operations in May 2009, supported two Orlan based spacewalks and completed twice the amount of science originally planned for the increment. Dr. Magnus returned home on STS-119, which, delivered and installed the final solar array to the station. STS-119 landed on March 28, 2009, bringing Dr. Magnus safely back to Earth after a stay of 4.5 months and 50,304,000 miles.

**Schedule**

**Social 5:00 – 6:00**  
**Dinner 6:00 – 7:30**  
**Presentation 7:30**

**Menu**

**Chicken Florentine , Salad, Potato, Vegetable, and Rolls and Dessert. Coffee, Tea and Soft Drinks.**

**A cash bar is available.**

**Ticket Price**

**\$15 Students/EA Members**  
**\$20 AIAA Members**  
**\$25 Non-Members**  
**\$5 Presentation Only**

***Reservation Deadline Thursday, 8 October***

**Ticket Sales and Reservation Contacts**

Rob Sutton, 314-777-0803, [robert.w.sutton3@boeing.com](mailto:robert.w.sutton3@boeing.com)  
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