



The Macrogram

Hartford Chapter of the ASM International
Build on our Strengths - Leverage our Diversity - Network to Succeed

MONTHLY MEETING – TOPIC

February 12, 2007 (Monday) - Trustee Night

**Topic: Laboratory Experiment Capabilities Aboard
The International Space Station**

Speaker: Dr. Daniel P. Dennies, FASM
Associate Technical Fellow
Boeing Company
2006-2009 Trustee ASM International

Directions: La Notte Restaurant, 17 Thompson Road, East Windsor, CT 06088, Ph: 860-727-7774 I-91 Exit 44, turn right at end of exit, Thompson Road is the second left.

Agenda:

Cocktails: 5:30-6:30 PM
Dinner: 6:30-7:30 PM
Program: 7:30-8:30 PM

Program Charges:

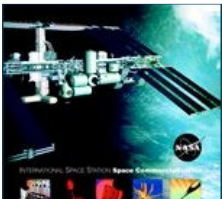
Regular Members - \$28.00
Retirees - \$15.00
Full Time Students - \$15.00

Technical Chairperson: John Rugh

Reservations: Call Shirley at Dynamic Metals (860) 583-3336 by noon Thursday, February 8th.

Thanks!

Abstract:



Assembly of the International Space Station (ISS) sprang to life in 2000 with multiple launches of the United States Space Shuttle fleet and Russian launch vehicles. This activity included the arrival of

the first crew, Expedition One, on 2 November 2000. One goal of ISS is a permanently orbiting laboratory in space with capabilities that cannot be duplicated on Earth. Experiments will be conducted in many areas including life sciences, space sciences, Earth sciences, space product development, engineering research and technology, and microgravity science. These experiments will be conducted in, or outside of, one of the ISS laboratories. These laboratories include the U.S. Laboratory Destiny, the European Space Agency (ESA) Columbus Laboratory, the Japanese Experiment Module, the Centrifuge Accommodation Module, and two Russian Research Modules.

Bio:

Dr. Daniel P. Dennies is an Associate Technical Fellow for the Boeing Company and has 27 years experience as a metallurgist and performing failure investigations. He authored the book "How to Organize and Run a Failure Investigation," released in September 2005. The majority of his career has been in the aerospace industry working on projects such as the Space Shuttle



Main Engine, the National Launch System, the National Aerospace Plane, expendable launch systems like Delta and Titan and, most recently, the International Space Station.

He has accumulated a large amount of experience with a wide variety of materials, processes and test mechanisms through his association with the design and manufacturing aspects of these programs. Dr. Dennies broadened his manufacturing experience and industrial knowledge by working in the forging industry and the raw material industry.

He has been a member of ASMI for 29 years and is a 2002 ASM Fellow. He is also the recipient of the 2004 Allan Ray Putman Award from ASMI. Dan received the 2005 Orange County Engineering Council Prestigious Engineering Achievement Award. He is also a 1999 honoree of the coveted NASA Silver Snoopy Award.

He was a founding Materials Mentor for the Eisenman Materials Camp in 2000 and has attended a Materials Camp as a Materials Mentor each year since. He is the coordinator of the Teachers Materials Camp in LA. Dan is active on the local level as member of the LA Chapter executive board. He is also active on the national level as a Trustee for both the ASMI Education Foundation and the Society itself. Dan is also on various national committees.



The Danforth Tavern Mug, given to speakers at Hartford Chapter meetings, has a custom ASM Hartford Chapter logo and was cast by Woodbury Pewterers.