



Mars Global Surveyor Surveyor (MGS)



Date: Thursday November 11, 2004
Time: 7:00 pm Meeting
Location: APS Building, Room 2 South
(NE Corner of the Arizona Center)
Cost: The Meeting is Free
(Cookies and Sodas will be provided by the section)
RSVP: Please RSVP (see below) by Nov 9th
so we may plan appropriately

Preceding the Meeting there will be a group meeting at **5:30 pm** for **Dinner** at Mi Amigos in the Arizona Center. You will be responsible for the cost of your own dinner. We will be able to validate Arizona Center parking tickets at the meeting.

Please RSVP To: Mark Jones

Phone: 480-759-2958

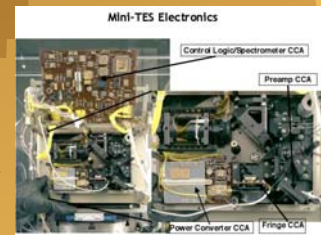
Email: jonesm1@asme.org

Before noon Tuesday November 9th

Leave a message with the number in your party, a phone number at which you can be reached and if you are also planning to meet for dinner preceding the meeting.

Dr. Phil Christensen is a professor at Arizona State University where he works as a planetary geologist. He teaches courses on the solar system, the geology of Mars, and the use of satellite images and data to study planetary surfaces (also known as remote sensing). His main research interests center on understanding the early history, evolution and current conditions on the martian surface.

His work over the past decade has focused on building an instrument, called the Thermal Emission Spectrometer, or TES, which flew on the Mars Global Surveyor (MGS) spacecraft. TES will map the martian surface from orbit to determine the composition of the minerals present there. A major objective of the TES experiment will be the search for minerals and rocks that provide evidence for ancient water-rich environments on Mars, which may hold clues to the possible existence of past life on Mars.



Dr. Christensen has also worked on The Thermal Emission Imaging System (THEMIS), which is an instrument on board the Mars 2001 Odyssey spacecraft. It combines a 5-band visual imaging system with a 10-band infrared imaging system.

Dr. Christensen also developed the Mini-TES instrument for the Mars Rovers, which will capture temperature and emissivity images, which can be used to determine what materials are made of. This will enable the rover science team to find promising sites at a distance, and gather large amounts of detail about the geological environment on Mars.



Chair's Message

Greetings Arizona Section of ASME!

I hope you are enjoying the fall as much as I am. As the weather cool off, it is time to get out and get active. Come join us at an ASME meeting.

November is traditionally time for

the winter meeting of ASME international – aka IMECE or the International Mechanical Engineering Congress and Exhibition. This year IMECE will be held in Anaheim – a rare treat for IMECE to be on the west coast. At the meeting, the Board of Governors of ASME will be giving us an update on the status of Continuity and Change – the reorganization efforts of ASME. I plan to attend – so I will update you next month on what I learn.

This month our technical meeting topic is one I find personally inter-

esting, the mission to Mars. Ever since I was a kid I have been fascinated by space travel and I am looking forward to hearing the latest developments on Mars from the experts at ASU.

I hope you are, also. See you there!

Terri Taylor


Chair, Arizona Section ASME

ASME/NSBE Joint Membership Deal Offers Discounts to New Prospects

ASME and the National Society of Black Engineers (NSBE) have signed a one-year joint membership agreement, which offers a 50 percent discount to members of each society to join and participate in the other society's programs.

With more than 15,000 pre-college, college and professional members in its ranks, the NSBE is the largest student-managed organization in the United States. The NSBE is dedicated to the academic and professional success of African-American engineering students and practicing engineers.

NSBE also strives to promote public awareness of engineering and the opportunities for blacks and other underrepresented groups to participate as a representative body on issues and developments that affect the careers of minority engineers.



Brain Teaser

What is once in a minute, twice in a moment, but never in a second?

This month's Brain teaser is brought to you by 256.com/gray/teasers/

Answer

The letter 'n' appears once in the word Minute, twice in the word Moment, but never in the word second.

"We see this joint membership agreement as an opportunity to reach out to all engineers, reinforce our commitment to diversity and more effectively serve the engineering community," said Virgil Carter, ASME's executive director. "We hope to use this as a model for partnerships with other organizations that can benefit from ASME's community and technical knowledge."

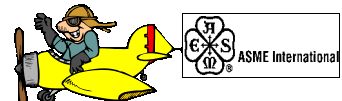
The joint membership agreement allows ASME members to receive a 50 percent discount off the NSBE member/student member rate. Members of NSBE will receive a 50 percent discount off the ASME

membership dues, while its student members can join ASME for \$15. Joint membership will also provide an opportunity to broaden and improve membership benefits and strengthen academic and professional development pursuits.

"We welcome the opportunity to partner with ASME to provide our members with technical information and additional networking opportunities with other engineers in their field of interest," said Michele Lezama, NSBE executive director.

ASME members who are interested in taking advantage of the joint membership package with NSBE can get more details and join online at www.nsbe.org.

The URL for the new online ASME membership application is members.asme.org/catalog/joinasme.cfm. The code to trigger the discount is JTNSBE.



ASME to Lead Standards Consortium in China

ASME and three other leading standards organizations have joined together to form the Consortium for Standards and Conformity Assessment for the purpose of establishing an office in Beijing, China.

The efforts of the consortium will be helped by a three-year, \$399,500 award from the U.S. Department of Commerce's International Trade Administration. The consortium will begin startup activities for its Beijing office before the end of 2004.

The primary aim of the consortium is to advocate the use of US and Canadian technical standards in China as well as promote the development of Chinese standards programs that are compatible with programs in North America. While emerging as an industrial power and a key player in the global economy, China has recently begun to develop internationally recognized technical standards that are key to allowing free trade among nations. The consortium will enable U.S.-based international standards developers to establish a continuous presence in Beijing to build relationships and help the Chinese conform to World Trade Organization (WTO) rules on standards and trade.

The Commerce Department award will help the consortium get established even more quickly than had been anticipated. "This award will help us to immediately establish a firmer standards presence in China," stated June Ling, ASME's associate executive director for Codes and Standards.

Another Successful Western Region ROB/MTS

The Western Region, which consists of Arizona, Colorado, New Mexico, Utah, the Western part of Texas, Wyoming, and the Mexican State of Chihuahua recently held its yearly MTS (management training seminar) and ROB (Regional Operating Board) meetings October 1st and 2nd in Ogden, Utah. At these meetings, representatives from senior and student sections from throughout the western region participated in officer training sessions as well as participating in briefings on strategic planning, the status of Continuity and Change. The Arizona Section was represented by ROB members Terri Taylor, Eric Smith and Immediate past regional Vice President Spike Meador. Also in attendance was Mark Jones, Treasurer of the Arizona Section and Past Chair of the Gas Turbine Technical Chapter, as well as Will Steenken, incoming Chair of the Gas Turbine Technical Chapter.

"Over the past several years, we have developed relationships with key Chinese officials, and having an on-the-ground presence in Beijing will help cement those relationships and further efforts to open Chinese markets to US goods and services," Ling added.

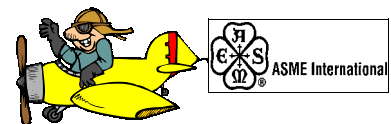
In addition to ASME as the lead organization, the members of the Consortium for Standards and Conformity Assessment are ASTM International, the American Petroleum Institute, and CSA America. All four members of the consortium are world leaders in standards development.

ASU and U of A were also well represented by chairs David Breeze and Tiffany Miller respectively and an additional student board member from each school.

The presentation at the welcome dinner was on the "Wright Flyer" project and was particularly good. The training sessions were very informative and the materials presented will be posted in the near future on the web at the Western Region website (<http://regions.asme.org/regionxii/>) or on the western field office website which can be accessed from the region website. In addition U of A was awarded the RSC (Regional Student Conference) for this year .

Mike Michaud from national gave a briefing on the status of Continuity and Change. He indicated that it is highly likely that the regional structure, as we know it today, will change substantially, or possibly even be eliminated. However, the local section structure will likely stay largely the same. At the very least, it would not change appreciably for the next year.

ASME publishes more than 600 codes and standards covering pressure vessels, escalators and elevators, pipelines, plumbing devices, and many other products and systems





Your Section Executive Committee and Operating Board for '04 -'05

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If we can help you, please feel free to contact us. We look forward to serving the AZ Section members.

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Newsletters are Available on the Arizona Section ASME Web Page



<http://sections.asme.org/AZ/>

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ASME International

The following has been quoted from the Constitution of the American Society of Mechanical Engineers. Revised to October, 1991.

C5.1.2 The provisions of the Constitution, By-Laws and Policies and Procedures established by the Board of Governors of the Society shall govern the procedure of all components of the Society but no action or obligation of such components shall be considered an action or obligation of the society as a whole. This provision shall be imprinted on any publication issued by such components.

2004-2005 Calendar of Events

- Nov 9 Board Meeting -APS Building
- Nov 11 **Mars** - APS Building
- Dec 7 Board Meeting -APS Building
- Dec 9 **Holiday Party** - TBD
- Jan 11 Board Meeting - APS Building
- Jan 13 **Extreme Sports** -TBD
- Feb 8 Board Meeting -APS Building
- Feb 10 **Honors & Awards Banquet** -TBD
- Feb 12 **Career Panel** -ASU
- Feb 20-26 **Engineer's Week**
- Mar 8 Board Meeting -APS Building
- Mar 10 **TBD** - TBD
- Mar 16 **Industry Breakfast** - TBD
- Apr 12 Board Meeting -APS Building
- Apr 14 **TBD** - TBD
- May 10 Board Meeting -APS Building
- May 12 **Steak Fry** -Pera Club

Inside News!



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