



Arizona Section Newsletter

January 2004

Vol. 55, Issue 5, Published 10 times a year

US Army's M1 Abrams Main Battle Tank



Date: Thursday January 8, 2004
Time: 6:00 Pizza and Demonstration
7:00 pm Meeting
Location: APS Building, Room 2 South
(NE Corner of the Arizona Center)
Cost: The Meeting is Free
(Pizza and Sodas will be provided by EDS, see below)
RSVP: Please RSVP (see below) by Jan 6th
so we may plan appropriately

Ray Sutyak, our speaker for the evening, currently works at Honeywell Engines, Systems & Services in Phoenix. Over the past 30 years he has worked on the AGT1500 engine that powers the US Army's M1 Abrams main battle tank. His involvement with the project began at Avco Lycoming when the engine was still in development.

Through the years he has been with the program and fielding involved with His talk will ment history turbine en-



LV100-5

M1 and the evolution of the various M1 tank models. Photographs of the engine and tanks will be shown from the early days through the latest gulf war. A video featuring the latest model tank, the M1A2 SEP, will be shown.

through production and currently is in-aftermarket support. describe the develop- and description of the

and description of the engine that powers the

Preceding the meeting, join us at 6:00 pm for pizza and a demonstration. As a complement to the speakers program, EDS will provide a demonstration and discussion of some of the software used on the Abrams. The Arizona Section would like to thank EDS for providing the pizza and sodas.

Please RSVP To: Eric Smith at 602-938-1098 or smithe7@asme.org
We will be able to validate Arizona Center parking tickets at the meeting,





Chair's Message

Greetings to the members of the Arizona Section of ASME!

As we reach the halfway point in the 2003-2004 program year, I would like to take a moment to look at what we have accomplished in the Arizona Section. In an effort to reduce costs and to meet the changing demands of our members, we have changed venues for our

meetings. Our monthly meetings are now held at the APS building at the Arizona Center. An optional dinner precedes the meeting at one of the local restaurants. In addition, January is our one year anniversary for the electronic newsletter. The electronic newsletter is a cost effective way to deliver the newsletter to you. Based on the positive feedback I have received, both initiatives are a rousing success.

Now, for the future and ASME International. Last month I encouraged all of you to visit the ASME web site to review the "Continuity

and Change" plan going on at ASME. The Board of Governors have now voted preliminary approval of a new organizational concept for ASME. Between now and March 2004, when the Board of Governors are scheduled to adopt the final organizational plan, is your chance to provide feedback. To read more about the plan, and to give your feedback, visit the ASME web site at <http://www.asme.org/change/>

Eric Smith

Chair, Arizona Section ASME

ASME and SEM to Explore Future Cooperative Efforts

ASME President Reginald I. Vachon and Randall J. Allemang, president of the Society for Experimental Mechanics (SEM), said that the two professional organizations have formed a project team to explore ways of fostering closer cooperative efforts between the two Societies.

The project team, comprised of representatives of each organization as selected by their respective presidents, has been charged with the exploration of a cooperative agreement that would create opportunities of mutual interest to both organizations. Activities would include annual conferences, publications and

continuing professional development opportunities, among other activities and services.

"Working together in areas of mutual interest may enable


our members and customers through this cooperative venture."

The final evaluation and recommendations by the project team will be presented to each organization in the spring of 2004.

The Society for Experimental Mechanics, originally called The Society for Experimental Stress Analysis, was founded in 1943 as a nonprofit scientific and educational organization with the original goal to "further the knowledge of stress and strain analysis and related technologies."

The members of SEM include experimentalists, development engineers, design engineers, test engineers and technicians, and research and development scientists from industry and educational institutions.

SEM to continue building upon the strengths that we all value," said Allemang. ASME President Vachon agreed that a cooperation between the two organizations "should be able to provide new knowledge and community opportunities for all



Brain Teaser

Which is more dangerous, steam at 101 degrees C, or steam at 150 degrees C?

This month's Brain teaser is brought to you by Braingle.com

Answer

The 101 degree C steam. The most dangerous aspect of steam is the latent heat released when it condenses. This is much greater than the heat capacity of steam or liquid water. The 101 degree C steam is nearly saturated and will condense once it contacts your skin. The 150 degree C steam is supersaturated and most likely will not condense once it touches your skin.



Founded in 1962 as Electronic Data Systems Corporation, EDS is the provider of

choice for clients looking to extract maximum returns on their IT investments. As the world's largest outsourcing services company, EDS is built on a heritage of delivery excellence, industry knowledge, a world-class technical infrastructure and the expertise of its people.

EDS supports the world's leading companies and governments in 60 countries.

- Employees: approximately 138,000
- Clients: more than 35,000 business and government clients around the world
- 2002 revenues: \$21.5 billion
- 2002 total contract signings: \$24.4 billion

The Board of Governors Adopted the Preliminary Recommendations for The Reorganization of ASME.

The recommendations were presented on Sunday, Nov. 16, at the ASME Congress in Washington, D.C. On Monday, Nov. 17, the first of five General Assemblies was held to introduce the preliminary organization plan for the restructuring of the Society. Members were invited to attend and to provide comments on the proposed plan. Other assemblies will be held as



follows: Saturday, Jan. 10, 2004, University of Toledo, Nitschke Hall Auditorium, Toledo, Ohio; Saturday, Jan. 24, 2004, University of Connecticut, Andre Schenker Hall, Storrs, Conn.; Saturday, Feb. 7, 2004, Adams Mark Hotel, Houston, Texas; Saturday, Feb. 21, 2004, DoubleTree Hotel, Berkley Marina, Calif. Contact: John Corcoran at corcoranj@asme.org, or visit www.asme.org/change.

ASME Strategic Marketing Report

Plexus Consulting Group undertook a study to provide the data that will enable ASME International's Board of Governors to develop and implement a strategic marketing plan for the Society. Plexus administered both quantitative and qualitative surveys to a wide cross-section of both ASME International members and non-members from several mechanical engineering sub-disciplines that are experiencing, or are likely to experience, growth in the near future: bioengineering; defense; energy, and, transportation. Plexus also supplemented the surveys with demographic research, an environ-

mental scan, competitor intelligence and discussions with both the ASME International BOG Task Force and professional staff.

Key Findings

- The primary focus of ASME International is on members and prospective members
- The majority of ASME International's revenues come from employers, especially industry.
- ASME International tends to look at the market too narrowly, and without full consideration of key segments.
- ASME International is viewed as one of the top engineering societies in the world, but is also seen as slow moving,

stuffy, conservative and academic-oriented.

- A strong customer, market-based focus is essential for future success
- ASME International is known globally for its codes and standards
- Engineers aspire to management responsibility and high technical expertise
- There is strong interest in entrepreneurship, especially among young engineers
- Technologies identified that will be important in the future are of a multidisciplinary nature
- Engineers and their employers want resources that are convenient and ready to use.



Your Section Executive Committee and Operating Board for '03 -'04

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

2002-2003 Executive Committee

Chair - Eric Smith
602-938-1098(B, H)
602-390-3665 (Cell)
FAX 602-938-6430
smithe7@ASME.org

Vice-Chair - Joe Howard
602-231-5618 (B), 480-783-9185 (H)
joe.howard@honeywell.com

Treasurer - Markland (Mark) Jones
480-759-2958(H)
jonesm1@asme.org

Secretary -David Highfield
480-893-8860(B), 480-704-2339(H)
highfieldd@asme.org

Past Chair - Tom Marshall
480-592-7264(B), 480-497-1102(H)
marshallt@asme.org

Director 01-04 - Spike Meador
480-831-1416(B, H)
meadort@asme.org

Director 02-05 -Terri Taylor
602-822-3977(H), 623-566-0121(H)
taylorth@asme.org

Director 03-06 - Boris Bolf
623-393-5678(B), 623-478-1508(H)
bbolf@apsc.com

VP-Region XII
Travis (Spike) Meador
480-831-1416(B, H)
meadort@asme.org

2002-2003 Operating Board

MARKETING & PUBLIC RELATIONS
(Chair: David Highfield, Dir: Terri Taylor)

Newsletter Editor - David Highfield
480-893-8860(B), 480-704-2339(H)
highfieldd@asme.org

Webmaster - Dag Reppen
480-785-2972 (H)
dreppen@cox.net

Government Relations - Dick Johnson
602-957-8376(H)
rjohnacro@aol.com

INDUSTRY RELATIONS TEAM
(Chair: John Kendig, Dir: Spike Meador)

Industry Relations - John Kendig
602-822-3242(B), 623-872-8417 (H)
john.kendig@honeywell.com

Technical Activities - Doug Culy
480-390-1900 (B), 480-838-2233 (H)
culyd@asme.org

EDUCATION TEAM
(Chair: Elena Folgo, Dir: Boris Bolf)

K-12 Education - Milt Buffington
480-802-4057(B,H)
Buff86@aol.com

Prof. Development - Boris Bolf
623-393-5678(B), 623-478-1508(H)
bbolf@apsc.com

University Industry Advisory -
Elena Folgo
602-231-4674 (B), 480-736-8868 (H)
elena.folgo@honeywell.com

HISTORY & HERITAGE TEAM
(Chair: Webb Etheridge, Dir: Eric Smith)

History & Heritage - Webb Etheridge
928-3693532 (B), 480-596-8259
wetheridge@cybertrails.com

Honors & Awards -Dennis Kudrna
480-891-6733(B), 602-490-8550(H)
dennis.kudrna@arz.boeing.com

SOUTHERN ARIZONA SECTION

Chair - Karl Hemmilla
502- 733-5864(H)
Hemmilla@cox.net

GAS TURBINE TECH.CHAPTER

Chair-Markland (Mark) Jones
jonesm1@asme.org

Webmaster - Khosr Molla Hossein
602-231-5684 (B)
khosr.molla.hosseini@honeywell.com

ASME STUDENT SECTIONS

Arizona State University
Advisor - Pedro D. Peralta, Ph.D.
480-965-2849(B), 480-965-1384(F)
pperalta@asu.edu

Newsletters are Available on the Arizona Section ASME Web Page

www.asme.org/sections/AZ



Student Section Chair - Ron A. Newcomb
asme@asu.edu

Northern Arizona University
Advisor - Earl Peter N. Duque, Ph.D.
928-523-5842(B), 928-523-2300(F)
earl.duque@nau.edu

Student Section Chair - Carl Helquist
cah47@dana.ucc.nau.edu

University of Arizona
Advisor - Wayne Chen, Ph.D.
520-621-6114(B), 520-621-8191(F)
wchen@ame.arizona.edu

Student Section Chair - Aaron Noseck
Trilight@juno.com

The American Society of
Mechanical Engineers
Arizona Section
10801 N. 37th Drive
Phoenix, AZ 85029-4011



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.

Inside News!		Article
Page		
January Meeting	1	
Chair's Message	2	
ASME and SEM	2	
Brain Teaser	2	
EDS	3	
Reorganization of ASME	3	
Marketing Report	3	
Executive Committee and Board	4	
Arizona ASME Web Address	4	
Calendar of Events	4	

January, 2004

2003-2004 Calendar of Events

Jan 6	Board Meeting - APS Building
Jan 8	Abrams Tank -TBD
Feb 10	Board Meeting -APS Building
Feb 12	Honors & Awards Banquet -TBD
Feb 19	Engineering Careers Panel Discussion - ASU
Feb 21-22	RAC -Berkley, CA
Feb 23-28	Engineer's Week
Feb 28	SRP Santan Plant Tour
Mar 9	Board Meeting -APS Building
Mar 11	Palo Verde Steam Generator - TBD
Apr 6	Board Meeting -APS Building
Apr 7	Industry Breakfast - TBD
Apr 8	Sand Rail Design - TBD
May 11	Board Meeting -APS Building
May 13	Steak Fry -Pera Club

