



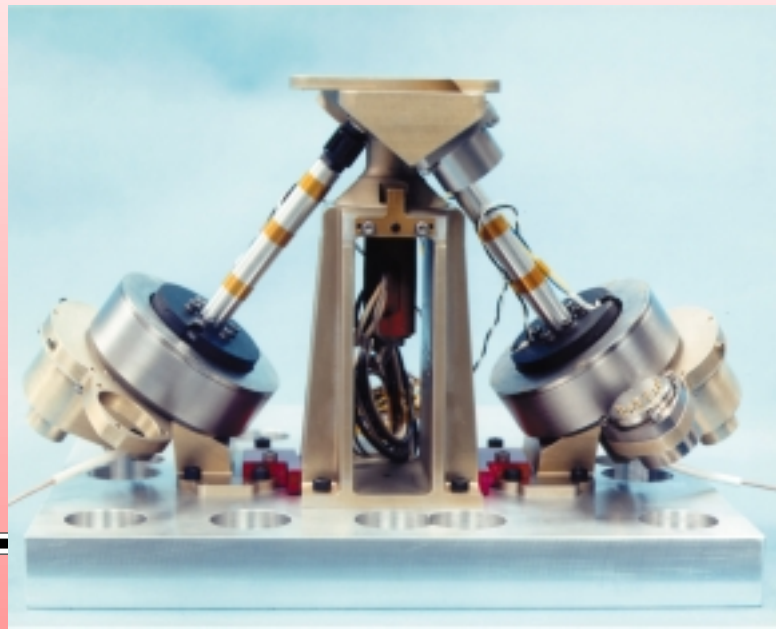
Spacecraft Vibration Isolation, Steering and Suppression

Date: Thursday September 12, 2002
Time: 6:00 pm Dinner
 7:00 pm Meeting
Cost: \$20 Members & Non-Members
 \$10 Students
Location: Grace Inn
 10831 S. 51st St.
 Phoenix, AZ 85044

Please RSVP To: Elena Micich
 Phone: 602-231-4674

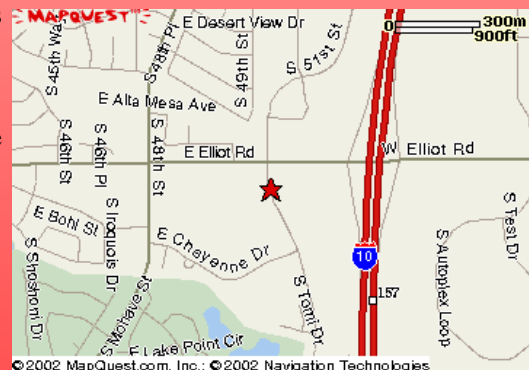
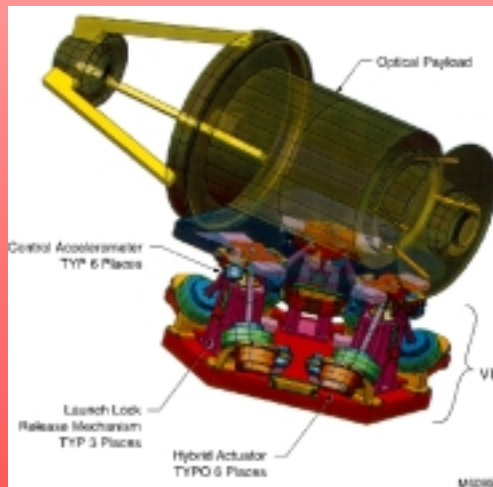
Email: elena.micich@honeywell.com
 Before noon Friday September 6th

Leave a message with the number in your party, phone number at which you can be reached, and your selection of Chicken Prosciutto or Wild Mushroom Ravioli.



Mr Tim Hintz Program Manager at Honeywell Space Systems - Glendale will speak on the VISS spacecraft vibration isolation system. The Vibration Isolation, Steering and Suppression System (VISS) has shown unsurpassed levels of passive vibration isolation performance on orbit.

In January 2001 the VISS was successfully commanded to release from its launch locks on the Space Technology Research Vehicle II (STRV-2) a cooperative effort between the BMDO and the United Kingdom Ministry of Defense. Developed by an AFRL-Honeywell-Trisys-JPL team the VISS not only provides unequaled vibration isolation performance, but also actively suppresses on board cryo-cooler disturbances and steers its optical payload. A time plot of payload vibration before and after VISS lock release substantiates its on-orbit performance (approximate factor of 80 reduction in payload acceleration at 50 Hz).





Chairman's Message

I am a long time active member of the Arizona section and have served ASME in many capacities – locally, regionally and nationally over the years. I know many of you personally and look forward to seeing you at ASME events this year. I also look forward to meeting those whom I don't know – I hope you will join us at some of our events this year.

As we begin another busy year of ASME activity with many new members and board participants, I want to take this opportunity to talk about our goals for this year and ideas we have for another year of providing our membership with the most value possible.

The prime objectives identified this year in order of priority are;

1. Continue last year's " e x t r e m e engineering" theme.
2. Build on the success of last year in showing value to local industry and more of our members
3. Expand our use of internet media
4. Increase our education support
5. Continue to improve board operations begun in 2000
6. Increase support to university student sections

With these objectives in mind, we've made a conscious effort to provide exciting new

programs, communicate the benefits of ASME through several media and continue to grow our board.

This year we are going to make an exciting change to the way the Arizona section operates. By January, I plan to phase out mailings of paper newsletters to the section. The mailings will be replaced with monthly e-mail notification of when the newsletter is uploaded to our website and is available to download. The biggest advantage of this is the saving of postage – our single largest expense at the Arizona section. These funds will then be available to help

improve the quality of our local programs. We will also benefit by having more timely information available to the members, color newsletters, and we will no longer be limited by the physical size of the paper. Please be sure to keep ASME International informed of your current e-mail address so you don't miss any newsletters!

We also plan on supporting more K-12 education this year with support for FIRST, Engineer's Week ZOOM training, and other classroom support.

I'm looking forward to working with the rest of the executive committee; **Joe Howard, Liz Field, and Elena Michich** along with the other longtime contributors such as **Boris Bolf, Terri Taylor, Tom Marshall, Spike Meador, John Kendig, Dick Johnson, Webb Etheridge, Doug Culy, Milt Buffington, Dick Collins and Den Kundra**. It's through the efforts of these folks and others that we enjoy the benefits of one of the most active ASME sections.

I'm looking forward to a great year and I hope everyone can join us. I'll see you at our next event or board meeting.


Eric Smith

Chairman,
Arizona Section ASME

"we've made a conscious effort to provide exciting new programs, communicate the benefits of ASME through several media and continue to grow our board."

Brain Teaser

The Earth's upper atmosphere interacts with high energy particles from the sun (called the solar wind) to produce a steady stream of positive ions, which, in turn, rain down onto the Earth's surface. Yet, the Earth's total average surface charge does not change. Why?



Lightning!!

The increase in the Earth's positive surface charge is cancelled out by the flow of negative electrons from the clouds to the ground during electrical storms. A lightning bolt can deliver a current of 10 million amperes to the Earth's surface. Electrical storms are connected to solar activity. The sun's activity peaks every 11 years. (We are experiencing a peak in solar activity right now.) When solar wind activity is greater, more positive ions are produced by the solar wind. Thus, more electrical storms are induced on Earth to cancel the increased positive ion flow.

Answer

2002 Management Training Seminar (MTS) Sept. 20 & 21 Albuquerque, New Mexico

ASME Region XII and the New Mexico Section invites you and your spouses to attend the 2002 Management Training Seminar (MTS)/ Regional Student Leadership Seminar (RSLs) / Student Section Advisors Program (SSAP)/ Regional Operation Board meeting in Albuquerque, New Mexico on September 20 & 21. The conference will be held at the Radisson Inn, Albuquerque Airport located at 1901 University Boulevard in Albuquerque, NM.

If you haven't received your packet with the registration form and information go to the Western Regional Office web page at

<http://www.asme.org/regions/wro/>

Arrive early and take advantage of the free transportation provided by the New Mexico Section on Friday afternoon and Saturday to nearby attractions, including Old Town for shopping and entertainment, the Aquarium and Botanic gardens, nearby golf courses, and the National Atomic Museum. The New Mexico Section will also provide transportation to the Tram for an evening dinner at the top of the Sandia Mountains on Saturday night, if you desire.

Design Competition Includes Students and Senior Members

The design competition will start on Friday from about 3:00 and going to 6:00. Two competitions are available: the paper bridge contest, and the mousetrap projectile launcher. Come by the registration/sign-up table to collect your competition kit and get in the game! Remember: all members can participate!

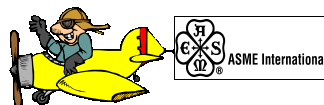
Gas Turbine Technical Chapter Receives Charter

The new gas turbine technical chapter that was organized last fiscal year received their charter on Saturday, June 15, 2002. Twenty-two members attended the luncheon held at Monti's La Casa Vieja in Tempe for the presentation. Mr. Travis "Spike" Meador and Dr. David Wisler presented the new charter to Chairman Mr. Mark Jones. Mr. Meador is V. P. of Region XII and Dr. Wisler is on the Board at IGTI in Atlanta.

After the presentation, Dr. Wisler, who is employed by G. E. Aero En-

gine Group in Cincinnati, Ohio gave a talk titled "Eight Decades of Progress-The History of Gas Turbine Aero Development at General Electric Co.". This was well received by all and generated a lot of questions and discussion since many in attendance were familiar with the various engines and aircraft mentioned in the talk.

The Gas Turbine Technical Chapter expects to host one or more meetings and tours during the current fiscal year starting July 1, 2002. To get on their mailing list contact Webb Etheridge at wetheridge@cybertrails.com or Mark Jones at mjbgjjaj@cox.net.



Instructions on Obtaining Your ASME.org Alias E-mail Address!

The ASME e-mail alias is a quick and easy method to route e-mail to any e-mail provider you choose. This new e-mail alias will ensure you are always in touch with your friends, business contacts or who ever you choose, even if you change jobs or internet service provider.

1. Go to: <http://www.asme.org>
2. Click on the "Members Only" Tab on the upper right of the screen.
3. Enter your last name and membership number and click on "Login".
4. On the right hand column, under "ASME Member Features" click on "Register or update your ASME e-mail alias".
5. Just follow the prompts to create your new ASME.org e-mail address alias!

This is just the first in a series of openers to assist the membership in a smooth transition to an electronic newsletter, (coming soon to the Arizona Section)!

Return Your Proxies

All members of ASME will receive their proxy in early September, with that issue of *Mechanical Engineering Magazine*. The Nominating Committee would like to see an increase in the number of proxies returned. A large vote indicates support for the nominee and their ability to provide the leadership demanded by the constituency.



Your Section Executive Committee and Operating Board for '01 -'02

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
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Honors & Awards -Dennis Kudrna
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pperalta@asu.edu

Student Section Chair - Ron A. Newcomb
newcombr@hotmail.com

Northern Arizona University
Advisor - John T. Tester, Ph.D.
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John.Tester@nau.edu

Student Section Chair - Matthew C. Johns
mateojuans@hotmail.com

2002-2003 Calendar of Events

- Sep 10 Board Meeting -APS Building
- Sep 12 **Spacecraft Vibration Isolation, Steering and Suppression** – Grace Inn - 10831 S. 51st St., Phoenix
- Sep 20-21 **MTS - Albuquerque, NM**
- Oct 8 Board Meeting -APS Building
- Oct 10 **Honeywell Engines - TBD**
- Oct 19 **Honeywell Engines Tour**
- Nov 2 **Internet Intro**
- Nov 8 PD Seminar (Tentative)
- Nov 12 Board Meeting -APS Building
- Nov 14 **Avalanche Engineering - TBD**
- Dec 10 Board Meeting -APS Building
- Dec 12 **Holiday Party**
- Jan 7 Board Meeting -APS Building
- Jan 9 **Medical Imaging –TBD**
- Feb 11 Board Meeting -APS Building
- Feb 13 **Engineering Careers Panel Discussion – ASU**
- Feb 16-22 Engineer's Week
- Mar 11 Board Meeting -APS Building
- Mar 13 **Honors & Awards Banquet –TBD**
- Apr 8 Board Meeting -APS Building
- Apr 9 **Industry Breakfast - Wyndham Gardens Hotel**
- Apr 10 **Windsurfing – TBD**
- May 6 Board Meeting -APS Building
- May 8 **Steak Fry -Pera Club**

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



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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!



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September, 2002