



## ASME Honors & Awards Banquet

# The Canard Rotor/Wing Aircraft

## Flight Testing of the Dragonfly Technology Demonstrator

**Date:** Thursday February 9, 2006  
**Time:** 5:30 pm Happy Hour  
6:00 pm Dinner  
7:00 pm Awards  
7:30 pm Speaker  
**Location:** Sam's Café at the  
Biltmore Fashion Park  
2566 E. Camelback Road, Phoenix  
**Cost:** 35\$ Per Person  
**RSVP:** Please RSVP (see below) by Feb 7th

*Please RSVP To: Mark Jones  
Phone: 480-759-2958  
Email: [jonesm1@asme.org](mailto:jonesm1@asme.org)  
**Before noon Tuesday February 7th***

Leave a message with the number in your party, a phone number at which you can be reached and **choice of entree**.

**chile rubbed sirloin w/ chile mashed potatoes, chipotle barbecue salmon with southwest rice, or southwest chicken piccata with southwest rice.**

Dinner includes pueblo house salad, entree with grilled veggies, chocolate truffle pie w/ brandy cream sauce, and non-alcoholic beverage service.



Our speaker is Mike Germak. Mike is currently serving as the Assembly Integration and Test Lead for Boeings Canard Rotor Wing Program, dubbed Dragonfly. His presentation titled "The Canard Rotor/Wing Aircraft - Flight Testing of the Dragonfly Technology Demonstrator" is a follow up to a talk given to the ASME in September 2004, which chronicled the aircrafts initial flight testing efforts. This presentation, however, will bring us up to date on the progress of those efforts and the challenges faced by the test team.

X-50A Dragonfly - This new high-speed unmanned air vehicle developed by Boeing and DARPA is the Canard Rotor/Wing advanced technology demonstrator. The aircrafts 12-foot-diameter rotor/wing spins during vertical takeoffs and landings, but stops in flight - becoming a fixed wing aircraft for high-speed cruise. The vehicle is propelled by a conventional turbo-fan engine using the unique Boeing reaction-drive rotor system. This revolutionary rotorcraft system requires no gearbox, transmission, or tail rotor. To date, two prototypes have been built.



## Chair's Message

Greetings to the Arizona Section ASME. This month we are hosting our Honors and Awards Banquet. We will be honoring our long standing members and their contributions. The strength of any professional society rests on the dedication and activity of its members. Their participa-

tion has enhanced the Society and contributed to its prestige.

If you, or someone you know are interested in becoming one of our board members, helping with a committee, or other activities for next year, give me or one of the other board members (listed on the back of this newsletter) a call. We'd be happy to talk to you about the various opportunities. I look forward to talking to you at the next

ASME function about your interests and how we can mutually satisfy your needs for professional growth and personal satisfaction, and our needs to provide valuable programs, promote our profession, and educate the community about what we do as engineers. Give us a call! .

*Joe Howard*

Chair, Arizona Section ASME

## Engineers Week February 19-25 2006


Engineers Week, a formal coalition of more than 70 engineering, education, and cultural societies, and more than 50 corporations and government agencies, is dedicated to raising public awareness of engineers' positive contributions to our quality of life. Engineers Week promotes recognition among parents, teachers and students of the importance of a technical education and a high level of math, science, and technology literacy, and motivates youths to pursue engineering careers in order to provide a diverse, vigorous and informed engineering workforce. Each year Engineers Week reaches thousands of schools, businesses, and community groups across the United States . Engineers Week programs and materials are accessible to those outside the U.S. as well.

See [www.eweek.org](http://www.eweek.org) or call (703) 684-2852 for more information

### Top Ten Reasons to Celebrate National Engineers Week:

- 10. Because if we don't those darn scientists will take credit for all of our efforts.
- 9. To remind those jerks in school just who's having fun now.

### Brain Teaser



It doesn't hurt to take a hard look at yourself from time to time. This little test should help you get started.

During a visit to a mental asylum, a visitor asked the Director what the criteria is that defines if a patient should be institutionalized.

"Well," said the Director, "we fill up a bathtub. Then we offer a teaspoon, a teacup, and a bucket to the patient and ask the patient to empty the bathtub."

Okay, here's your test:

1. Would you use the spoon?
2. Would you use the teacup?
3. Would you use the bucket?

"Oh, I understand," said the visitor. "A normal person would choose the bucket, as it is larger than the spoon." What was the director's response?

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

ANSWER

"No," answered the Director. "A normal person would pull the plug."  
So, how did YOU do?

8. Even garbage collectors want to be called engineers.

7. To stop people from snickering when we discuss "flocculating" devices.

6. "ENGINEER" - you can't spell it without "G.E.E.!"

5. It's either that or "Broccoli Awareness Week."

4. What else have you got to do in the third week in February?

3. Spring will come early if enough engineers emerge from the shadows.

2. Pocket protectors! Pocket protectors! Pocket protectors!

1. Because 1,800,000 engineers can't be wrong.

## Online mentors needed for ASME students

ASME members who specialize in the areas of design, fluids (any industry), manufacturing and aerospace are urged to sign up as mentors for ASME student members.

Students have requested mentors who have those specializations, although members with any engineering specializations are welcome. There have also been requests for women engineers and engineers working outside the United States.

ASME's online mentoring program is a rewarding experience for the mentor, as well as for the students. To learn more about the program, or to sign up as a mentor, go to <https://secure.asme.org/signin/ementoring.cfm>.

## Sandia Selected as Lead Lab for Yucca Mountain Project

U.S. Department of Energy's (DOE) Office of Civilian Radioactive Waste Management (OCRWM) has announced the selection of Sandia National Laboratories as the lead lab to integrate repository science for the Yucca Mountain Project. That work is currently the responsibility of OCRWM's contractor Bechtel SAIC.

In making the announcement, OCRWM's Acting Director Paul Golan said "We believe that establishing Sandia as our lead laboratory is an important step in our new path forward. The independent, expert review that the scientists at Sandia will perform will help ensure that the

## ASME Connections On ASME.ORG

At ASME Connections, meet the faces behind some of the successes so far, converse with other members at ASME's growing Communities of Practice web forum, and learn about the new programs that are being developed by the Society at the New Initiatives link.

You may also access a number of news outlets such as ASME News Online, Inter-Comm, the quarterly news publication, and the ASME Press Room.

ASME Connections will be updated regularly. For additional information, contact Mel Torre, director, Communications at

[torrem@asme.org](mailto:torrem@asme.org) or 212-591-8157.

technical and scientific basis for the Yucca Mountain repository is without question." To read more about DOE's decision, go to <http://www.doe.gov/news/3005.htm>

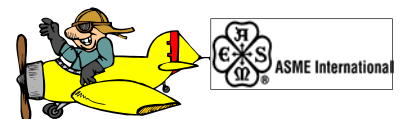
Senator Pete Domenici observed that "Today's announcement by the Department of Energy means that Sandia National Laboratories will be a major contributor to research and work done on nuclear waste issues, which is the key to the future of nuclear power development in our country. Sandia features some of the best scientists in the country and will be able to provide the Yucca Mountain Project with strong, centralized leadership. This is good news for Sandia and for Yucca Mountain." For additional comments from Domenici, go to <http://energy.senate.gov/public/index.cfm?>

## Arizona Section ASME to offer Course on Geometric Dimensioning and Tolerancing

The Arizona Section will be offering a Geometric Dimensioning and Tolerancing course April 24 in the APS Building at the Arizona Center. The cost will be \$375 for non-members and \$350 for members. The instructor will be Tom Axon.

Tom is President of Grand Canyon Training & Consulting. He has worked in the aerospace industry for the last 24 years with Honeywell International Inc., (formerly Allied-Signal) as a Principal Engineer. Tom has been involved in various aspects of engineering for Honeywell. Part of his job for the past 10 years has been the focal point for training in the areas of GD&T, as well as mechanical blueprint reading for the company throughout the country. For the past 12 years, Tom has also been part of the adjunct faculty in the community college system teaching both mechanical blueprint reading and Geometric Dimensioning and Tolerancing (GD&T). He is Senior GDTP Level S-0153 certified, in accordance with ASME Y14.5.2-2000. He has taught a prep course to become certified and has helped approximately 30 people to this point. Schooled in Michigan, working for Ford Motor Co. for 12 years as an engine design engineer has really helped him in understanding both subjects from a practical standpoint.

Look for more information in next months newsletter.





# Your Section Executive Committee and Operating Board for '05 -'06

**2005-2006 Executive Committee**

**Chair** - Joe Howard  
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**Vice-Chair** - Bela Csonka  
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**Treasurer** - Markland (Mark) Jones  
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**Director 04-07** - Dick Johnson  
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**Director 05-08** - Eric Smith  
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If we can help you, please feel free to contact us. We look forward to serving the AZ Section members.

**2005-2006 Operating Board**

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**INDUSTRY RELATIONS TEAM**  
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Newsletters are Available on the Arizona Section ASME Web Page



[www.asme.org/sections/AZ](http://www.asme.org/sections/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.

## 2005-2006 Calendar of Events

- Feb 7 Board Meeting -APS Building
- Feb 9 **Honors & Awards Banquet** -Sam's
- Mar 7 Board Meeting -APS Building
- Mar 9 **TBD** - TBD
- Apr 4 Board Meeting -APS Building
- Apr 13 **TBD** - TBD
- May 2 Board Meeting -APS Building
- May 11 **Steak Fry** -Pera Club
- Jun 8 **Planning Meeting** -APS Building

**Inside News!**



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