

## Upcoming Events

### Thursday, March 20, 7 PM, UT Campus Room 2.132

Dr. Philip Schmidt from the UT Mechanical Engineering Dept will discuss factors influencing the rapid rise of hybrid cars in the marketplace, the engineering strategy underlying various hybrid vehicle designs, how these strategies have been embodied in today's hybrid cars, and new developments in hybrid vehicle design in the near and long terms. Visit <http://sections.asme.org/centex/>

### Thursday, April 17, 7 PM

**Location To Be Announced** – Case Study of Vibrational Analysis Presentation by Dr. Robert Badgley  
Visit the Central Texas ASME website for a bio of Dr. Badgley and overview of his presentation.

**May** – Industry Presentation at M3 Design, Round Rock

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## Local Section News

### ASME Central Texas Section Calendar

Check the following link

<http://sections.asme.org/centex/bboard.html>

Click on the “Year Planning Calendar” link to access the calendar.

### Meeting Re-cap: Ethics presentation by Dr. Steve Nichols.

Dr. Nichols gave an excellent presentation on intellectual property as it relates to patents, trademarks, copyright, and trade secrets. We had a great turnout with 21 people. There was a lot of great discussion at this forum. A big thanks to Dr. Nichols!

### Engineering’s Grand Challenges

What will be the great challenges for engineers in the 21<sup>st</sup> century? Read all about it at <http://www.engineeringchallenges.org>.

### Contact Us!

We really need volunteers to help with the the Central Texas Section activities. If you’d like to help, please contact us:

Chair/Treasurer: Mark Stefanov, P.E.

([stefanovm@asme.org](mailto:stefanovm@asme.org))

Vice Chair: Theresa Jones ([ionest2@asme.org](mailto:ionest2@asme.org))

Newsletter Editor: Anthony Gatica, P.E.

([anthony.gatica@gmail.com](mailto:anthony.gatica@gmail.com))

Membership Developemnt: Gary Sutorius

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**Webmaster: Steve Embleton**

([embleton@gmail.com](mailto:embleton@gmail.com))

## ASME – ASME Auxiliary *FIRST* Clark Scholarship



THE ASME  
FOUNDATION



Are you a *FIRST* Robotics volunteer? Did you know that the ASME Foundation and the ASME Auxiliary sponsor a scholarship specifically for HS seniors who are on a *FIRST* Robotics team? If yes, this information is for you!

### About the Award

The purpose of the *FIRST* Clark Scholarship is to recognize and reward students whose *FIRST* experience has inspired the pursuit of an engineering career. In 2008, The ASME Foundation and the ASME Auxiliary will award ten (10) \$5,000 scholarships to high school seniors active on *FIRST* teams, who are nominated by ASME members, ASME Auxiliary members, or student members who are also active with *FIRST*. These awards will be for the freshman year of study (non-renewable) in an accredited mechanical engineering or mechanical engineering technology program. The recipients will be announced at the *FIRST* National Championship.

### Nomination and Student Eligibility

Members of ASME, including ASME Auxiliary members and student members, may nominate no more than one student each. Students must be:

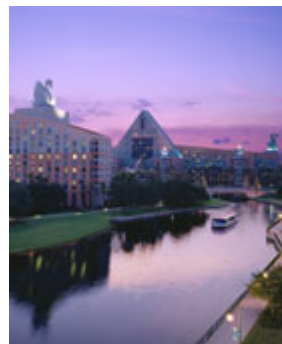
- Graduating high school seniors active on *FIRST* teams
- Planning to enroll full-time in an ABET-accredited or substantially equivalent mechanical engineering or mechanical engineering technology program, no later than the fall after their senior year in high school.

### APPLICATION DEADLINE: MARCH 15, 2008

For more information, on this or other ASME financial aid opportunities, visit our web site at:

[http://www.asme.org/Education/College/FinancialAid/Auxiliary\\_FIRST\\_Clarke.cfm](http://www.asme.org/Education/College/FinancialAid/Auxiliary_FIRST_Clarke.cfm)

## PREPARE FOR TOMORROW'S ENGINEERING CHALLENGES - TODAY!



The 2008 ASME Annual Meeting will be held June 7-11, at the Walt Disney World Swan & Dolphin Resort, Lake Buena Vista, Fla. The theme of this year's event is "Innovative Partnering: Interdisciplinary Challenges to Designing the Future." The 5-day event will feature three plenary sessions, moderated by Michael Rogers, futurist-in-residence at the New York Times Company, with panelists of senior executives from such companies as Boeing, IBM and Westinghouse Electric. There will also be a broad range of workshops led by top executives, academics, futurists and venture capitalists as well as professional development and training opportunities including a Career Expo. Also, enjoy a golf outing and a charity 5K walk/run.

To learn more and register, go to [www.asmeconferences.org/annualmeeting08](http://www.asmeconferences.org/annualmeeting08).

### Thinking about your career? Visit ASME's Career Center!

Are you thinking about making some major career changes? Perhaps you are looking for a new job, finding out what you are worth, raising your profile at work or networking with other engineers to expand your career opportunities? ASME can help you energize your career this year with a variety of member benefits.

Find a job, build your resume or get advice at ASME's Online Career Center, the only job board dedicated exclusively to Mechanical Engineers. Find out what you're worth by taking the ASME Salary Survey, and get a basic report on how your salary compares to other engineers in your region, field or experience level.

Visit the ASME Career Center at <http://www.asme.org/Jobs/> for more information.

## TURBO EXPO 2008 – BERLIN



Plan now to participate in ASME Turbo Expo 2008, to be held June 9-13, at the Estrel Berlin Hotel & Convention Center in Berlin, Germany. ASME TURBO EXPO brings together the best and the brightest in the worldwide gas turbine community to present the newest developments and discuss global issues affecting the industry. The conference will feature an expanded 5-day Technical Congress with sessions, tutorials and panel discussions, and a 3-day exposition showcasing the products and services of engine manufacturers, software developers, research laboratories, and other firms in the worldwide power industry. Presented by the ASME International Gas Turbine Institute, Turbo Expo will include a keynote session with industry leaders and several facility tours of companies located in the Berlin area. Online registration for Turbo Expo 2008 is now open. For more details, visit the Web site at <http://asmeconferences.org/TE08/index.cfm>, or call 800-843-2763.

### Inspiring Engineering Diversity

Engineer Your Life (EYL) and the National Association for College Admissions Counseling (NACAC) are teaming up with ASME at dozens of college fairs for high school students throughout the United States. The EYL campaign has developed, tested and is now providing messages and materials to promote engineering to college-bound high school girls. Volunteers are encouraged to become part of the campaign by participating in the fairs. EYL fair exhibits are designed to break down commonly held perceptions about engineering and encourage girls to consider it as a college and career option. Interested in helping out? Contact Marina Stenos at [stenosm@asme.org](mailto:stenosm@asme.org) for more information.



Undergraduate/Graduate student teams wanted! Innovative, creative, entrepreneurial students enrolled during the Spring 2008 semester are needed for participation in the 2008 I•Show, (held in conjunction with the ASME International Mechanical Engineering Congress & Exposition).

Striving to produce the next “big thing,” participating student teams work to develop technologies and innovations with raw enthusiasm and commitment. Once those innovations are fostered, the student teams are eager for the next step: product assessment and commercialization.

### We’ve Got Your Back

I•Show provides the full experience of technology product commercialization, bridging the gap between engineering school practicum to business school theories. In partnership with the National Collegiate Inventors and Innovators Alliance (NCIIA), successful teams will attend *Invention to Venture* workshops and learn about technology commercialization and business plan development.

Additionally, teams will be matched with local entrepreneurs and experts based on their areas of expertise to help refine their product, develop a business model and elevator pitch.

### Your Reward – Access to Over \$20K in Seed Funds

Ultimately, successful teams will compete at I•Show 2008 in Boston, Mass., presenting their technological innovation to a judging panel of successful innovators, industry experts, venture capitalists, and intellectual property specialists. Focusing on product innovation and commercialization, teams with the most creative yet feasible ideas will be rewarded with industry recognition and seed funds.

The deadline for the Team Application Process is April 15, 2008. Visit [www.asme.org/events/ishow](http://www.asme.org/events/ishow) for complete details.

## **\*\*Call for Nominations! Highly Qualified ASME Leaders Wanted\*\***

There is still time to nominate a highly qualified ASME leader for positions as 2008 ASME Society Officers. Each term for office will begin in June 2009.

During the Annual Meeting in June 2008, the Nominating Committee will evaluate candidates, deliberate and nominate individuals from our Society for the offices of president, (3) positions on the ASME Board of Governors and vice presidents for Education (Centers Sector), Safety Codes & Standards and Conformity Assessment (Codes & Standards Sector), International Gas Turbine Institutes (Institute Sector), Program & Activities and Technical Communities (Knowledge & Communities Sector) and Government Relations (Strategic Management Sector).

Terms of office for the positions above will begin in June 2009. Please evaluate individuals in your unit of ASME as possible nominees for the officer positions in your Sector. You may also wish to consider potential nominees for the offices of President and the three Board of Governor positions.

In addition, during the business meeting of the Annual Meeting in June 2008, the Voting and Alternate Members for the 2009 Nominating Committee will be elected.

The Nominating Committee is now smaller than previously, and it is crucial that each segment of the Society be represented in the selection process by a highly qualified Nominating Committee Member. Please identify members to represent your sector.

For further information please contact RuthAnn Bigley at 212.591.7650 or [bigleyr@asme.org](mailto:bigleyr@asme.org). Letters of Intent are due on or before March 15, 2008. [http://www.asme.org/Governance/Nominating/Nominating\\_Committee.cfm](http://www.asme.org/Governance/Nominating/Nominating_Committee.cfm)

### **2008 EWB-USA Conference Features Sustainable Engineering and Global Health**

Register now for the 2008 Engineers Without Borders - USA Annual International Conference, March 27-30, 2008, at the University of Washington, Seattle Campus. This year's theme is: "Sustainable Engineering and Global Health"

The EWB-USA 2008 International Conference includes the following highlights:

**Thursday, March 27** - Welcome Reception hosted by University of Washington's College of Engineering

**Friday, March 28** - Keynote Speaker on Global Health: William Gates, Sr., Co-Chair, Bill & Melinda Gates Foundation

**Saturday, March 29** - Engineering and Sustainable Practices: International Banquet

**Sunday, March 30** - Bernard Amadei, EWB-USA Founder, Plenary Speaker

Panel Discussions, Specialized Workshops, Project Presentations, Displays, Networking, and MORE! For more information and registration, please go to: [www.ewb-usa.org/ConferenceInfo.php](http://www.ewb-usa.org/ConferenceInfo.php)

### **Join us for the 2<sup>nd</sup> Annual European Bioprocess Technology Seminars and Exhibition in Stockholm!**

Plan to attend the 2<sup>nd</sup> Annual European Bioprocess Technology Seminars and Exhibition from June 23-25, 2008 in Stockholm, Sweden! Featuring 6 cutting edge seminars, this conference will provide in-depth coverage of timely industry topics such as bioreactor design, purification process development, aseptic fill and finish, equipment design, disposables technology and systems maintenance and operations.

Each seminar is lead by a panel of industry experts who will discuss the latest advances, case studies and best practices. The expert panel will include representatives from Amgen, Biogen, GE Healthcare Life Sciences, CRB, ABEC, LifeTek Solutions, Baxter, Fluor Corp, Merck and many more.

The conference will also include a keynote, tabletop exhibits, plant tours and opportunities for networking!

Sponsorships are also available. For more information on the European Bioprocess Technology Seminars, visit [www.asmeconferences.org/bioprocessEurope08](http://www.asmeconferences.org/bioprocessEurope08) or contact Jennifer Delda, program manager at 212-591-7108 or [deldaj@asme.org](mailto:deldaj@asme.org)

## ASME ACCEPTING APPLICATIONS FOR 2008-09 FEDERAL GOVERNMENT FELLOWSHIPS

ASME is currently accepting applications for the following Federal Government Fellowship positions:

### Congressional Fellowships

ASME is accepting applications from qualified candidates interested in serving as a 2008-09 Congressional Fellow. The Federal Fellows program enables selected ASME members to spend one year in Washington, D.C. working with the staff of a congressional committee, U.S. senator or U.S. Representative. Federal Government Fellowships provide a valuable public service to the nation while providing engineers with a unique opportunity to participate directly in the policy making process. Congressional Fellows may serve from September 2008 through August 2009 - or January 2009 through December 2009 - at their option. The deadline to submit an application for the Congressional Fellowship is April 1, 2008.

### Department of Commerce Fellowship

ASME is also accepting applications from qualified candidates interested in serving a year at the U.S. Department of Commerce in the Manufacturing and Services (MAS) Office of Standards Liaison (OSL). The Fellow will work with U.S. stakeholders involved in the standardization process, including individual companies, industry associations, standards developing organizations, and the American National Standards Institute on trade-related standards issues affecting U.S. competitiveness, innovation and growth. OSL works on issues involving all sectors and in all overseas markets, although there is a greater focus on emerging and technology-related sectors and critical markets such as Europe and China. Applicants for this position must have strong technical, interpersonal, organizational, and oral and written communication skills, as well as substantive knowledge or experience in an industry sector and the standardization process. The start date for the DOC fellowship is flexible.

A stipend of \$55,000 will be awarded to each Fellow for the year. All Fellowship applicants must be a U.S. citizen and an ASME member at the time of application. The following credentials are encouraged: At least five years of professional experience, an advanced engineering degree, professional engineer registration, and some public policy experience. An online application is available at <https://secure.asme.org/fedgovfellows/appform.cfm>

For additional information about the Federal Fellows program, visit [http://www.asme.org/NewsPublicPolicy/GovRelations/Programs/Federal\\_Government.cfm](http://www.asme.org/NewsPublicPolicy/GovRelations/Programs/Federal_Government.cfm) or contact Kathryn Holmes, director, ASME Government Relations, at [holmesk@asme.org](mailto:holmesk@asme.org) or 202/785-7390.

### **The ASME Volunteer Opportunities Bulletin Board**

(VOBB) is a tool designed to help volunteer leaders promote local Section and Society-wide volunteer positions. It is also used to help link volunteers with opportunities for involvement in all areas of the society. Opportunities for involvement include standards development, pre-college outreach and educational activities, government relations, and the development of new products, programs and more.

### **Early Career Grant Funding Available**

Submit an application **today** to receive additional funding for your district-held Early Career Technical Conference and/or Early Career Forum for your units or sectors. Complete details for both grants can be found at <http://www.asme.org/Communities/EarlyCareer/>.

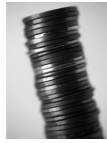
The deadline for applications is **April 15, 2008**. Contact: Cheryl Hasan [hasanc@asme.org](mailto:hasanc@asme.org) for more information.

### **Become A Mentor Today! EMentoring Opportunities for Early Career Engineers.**

Mentors are a great way to gain knowledge and learn from the experiences of experts in your field. ASME offers an e-mentoring service right at your fingers!

To learn more and sign up for mentors, log onto [http://www.asme.org/jobs/mentoring/Ementoring\\_Early\\_Career.cfm](http://www.asme.org/jobs/mentoring/Ementoring_Early_Career.cfm) or contact Noel Netel at [neteln@asme.org](mailto:neteln@asme.org).

## **ASME Financial Aid Available! Apply for Scholarships by March 15!**



Paying for college is more expensive than ever. ASME realizes this fact and is committed to helping potential mechanical engineers reach their educational goals.

Students who plan to attend school for the 2008-09 academic year, and wish to receive some of the \$100,000 available in academic scholarships to student members worldwide must do so by March 15, 2008.

ASME offers 16 undergraduate and graduate scholarships and low interest loans to help students reach their goals. Student members can obtain information about all of the financial aid packages available by visiting

<http://www.asme.org/Education/College/FinancialAid/>

Scholarship applications for the 2008-09 academic year will be accepted online only by visiting

[http://www.asme.org/Education/College/FinancialAid/Online\\_Scholarship.cfm](http://www.asme.org/Education/College/FinancialAid/Online_Scholarship.cfm).

### **Editorial**

#### **Engineering's Grand Challenges**

For years I've believed that humanity's great challenges will be access to clean water to drink and having reliable, clean, and safe energy sources. After reading some of the engineering grand challenges (<http://www.engineeringchallenges.org>) it appears that others have also been thinking about this. Their energy challenges are solar power, nuclear fusion, and CO<sub>2</sub> storage. They also list clean water as a challenge. There are some others dealing with preventing nuclear terror and health benefits. No matter what you see as humanity's challenges we can probably agree that engineering and science need to be at the forefront of any solutions, not political policy. I'm always concerned when a politician touts some energy or transportation bill as being "good for the people" without much scientific study to back it up. For example, how are bio-fuels better for our energy needs when they are not as energy dense (kJ/kg) as other fuels, require huge amounts of energy to refine them (possibly from the very fuels they are supposed to replace), and displace crops that produce food for the people? I believe they tend to focus on one or two "benefits" without examining the bigger picture and the ramifications of those decisions. It's a good thing that people are thinking about how to solve these complex problems, but the tradeoffs and costs need to be considered further.

*Tony Gatica - Editor*

## News from the Chair

This month is a recap on February 2008's Ethics PDH meeting. We had another awesome turnout. Thank you ASME Central Texas members!

An important outcome of this meeting is in the message that it does not require a Professor to teach a class such as this. If prepared properly there are several easy ways for the yearly ethics PDH to be acquired. By the way, there was so much interest and material to be covered this year that it was an hour and a half presentation.

One of the suggested ways benefits the presenter. Preparation for such a class counts as PDHs FOR THE PRESENTER in addition to the time during the presentation and is proved by the presentation. Although it sounds daunting, the process should be rather easy for any qualified P.E. If one has taught before, it is simple to apply your skills to an ethics presentation. If one has not actively taught before, here is a chance to expand your horizons.

I would like to ask for a volunteer to lead the effort for the planned ethics PDH meeting in February 2009. There should be plenty of time for some one to advance their career by planning and presenting an hour course if started now. I will not go into any details here, but we have the resources for a Central Texas ASME member to partake of this opportunity for 2009. Give me a call at 512-554-8531 or e-mail me at [stefanovm@sme.org](mailto:stefanovm@sme.org). We can discuss this opportunity.

*Mark Stefanov - Chair*

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