

## Judges Needed for the 2009 TSA Regional Conference

**Event:** 2009 Technological Student Association (TSA) Regional Conference for the Upper East Tennessee Region

**Description:** We expect to host about 150 students from grades 6 - 12 across 18 events. We need judges from local industry to support these students' entries into the events. The event range from CO<sub>2</sub> Dragsters to engineering Design and Manufacturing Prototypes.

**Date:** Thursday, January 29 2009

**Time:** 8:30 AM – 1:30 PM

**Location:** Boone High School - Gray, TN

For more information contact:  
Cheryl Harvey

## December Program

**Topic:** Tour Nu-Energie (bio-diesel plant)

Nu-Energie, will promote the use of alternative fuels through the production of biodiesel and the education of local and state businesses on the benefits of alternative energy. We will supply high quality biodiesel resulting in a cleaner environment with less waste and improved efficiency. We will provide long-term economic growth in rural East TN while maintaining a solid rate of return for our investors. Through research and development, we will strive to find new alternative fuel sources for the production of biodiesel in order to remain at the forefront of the biodiesel industry.

For more information you can visit:  
<http://www.nu-energie.com/>

**Date:** Thursday, December 4<sup>th</sup>

**Time:** 3:00 – 5:00 P.M.

**Location:** 914 Phipps Bend Rd, Surgoinsville, TN  
37873

**RSVP:** Brie Witherspoon by Monday, November 24<sup>th</sup>

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## Engineers Needed

### *A World in Motion: The Design Experience*

To survive and thrive in the society of tomorrow, our children need educational preparation that builds upon the technology of today. The needs of our society mandate that we educate student to be scientifically and mathematically literate and to be able to solve problems, communicate, ask and answer questions, assimilate information, and work cooperatively toward common goals.

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Tomorrow's Leaders ...  
Are **YOU** ready for the Challenge?

Do you feel strongly about the direction of ASME? Are you passionate about new ideas and initiatives? Are you ready to step up and lead? Become an ASME Leader TODAY!

**Consider running in June 2009 for the following offices:**

President – one year term

Board of Governor – 3 year term

Vice President (Centers Sector) – 3 year term

Vice President of Professional Development,  
Practice & Ethics

Vice President of Public Awareness

Codes and Standards Sector

Vice President of Standardization and Testing

Knowledge and Community Sector

Vice President of Affinity Communities

Vice President of Financial Operations

Visit the Nominating Committee Website at [http://www.asme.org/Governance/Nominating/Nominating\\_Committee.cfm](http://www.asme.org/Governance/Nominating/Nominating_Committee.cfm) or email RuthAnn Bigley at [bigleyr@asme.org](mailto:bigleyr@asme.org) for details.

**VOLUNTEERS NEEDED! ENGINEER YOUR LIFE**

Help Inspire the Next Generation of Young Women to Become Engineering Leaders!

ASME (as part of its Engineers Week collaboration) actively supports Engineer Your Life (EYL), the national campaign to encourage college-bound girls to consider engineering enrollment.

A key element of EYL outreach is collaboration with the college counseling community through the National Association for College Admission Counseling (NACAC). We are asking for volunteers – engineering and engineering students – for high school fairs throughout the U.S. this fall.

Cities, dates and locations of fall fairs can be found at [http://www.eweek.org/site/pdfs/college\\_fair.pdf](http://www.eweek.org/site/pdfs/college_fair.pdf) For more information or to sign up, contact Marina Stenos at 212 591 8614 or [stenosm@asme.org](mailto:stenosm@asme.org). For more information about Engineer Your Life, visit [www.EngineerYourLife.org](http://www.EngineerYourLife.org)



The ASME Foundation Grants Program funds programs that support students and early career engineers and activities that help shape their careers. Planned gifts to the Foundation are the groundwork on which funding for scholarships and grants is based, helping in many ways to inform the future of engineering.

A capital campaign, "World Class by Design," was launched in 1996 to endow the Grants Program. The focus of the Foundation Grants Program is three-pronged: technical literacy, specifically early (K-12) math and science literacy and tuition and scholarships at the college level; career planning and skills development to nurture early career engineers; and technologically sound public policy stewardship.

For calendar year 2008, the Foundation Grants Program awarded support to six programs. Five of those specifically benefit students and early career engineers. Those projects are: Increasing ASME Impact at the Graduate Level, World-Class Engineering Student/Engineer Design, Students Engineering a Sustainable Planet, *Heroes of Engineering* Comic Education Series and ASME Faculty Development Workshops – Understanding Student Diversity; Increasing Learning.

The ASME Grants Program is trying to streamline the application and reporting processes moving forward. Currently, there is \$264,300 available in funding for approved ASME programming in calendar year 2009. Proposals selected for funding will be announced following the meeting of the Foundation Board of Directors at Congress in November in Boston, MA.

**ASME Salary Survey**

Participate in ASME's Salary Survey get a **FREE** salary report based on your experience level and geographic area. Visit <https://asme.enetrix.com> and see how you compare!

**ASME Member Exclusive!** Purchase comprehensive, custom reports at a discount price.



## Great Opportunities, Great Work, Great People Engineers without Borders – USA



Engineers Without Borders - USA (EWB-USA) is a non-profit humanitarian organization established to partner with developing communities worldwide in order to improve their quality of life. This partnership involves the implementation of sustainable engineering projects, while involving and training internationally responsible engineers and engineering students.

ASME and EWB-USA have been collaborating for several years on a variety of projects. You can get involved too! EWB-USA offers several opportunities to become involved in building a better world one community at a time, whether you are an engineering student (undergraduate or graduate; a student in some other field of study; a professional engineer or university faculty member; or, not an engineer at all!

There are several EWB\_USA workshops taking place this fall around the country. More details on these workshops are available at <http://www.ewb-usa.org/Fallworkshops.php>. To find out how your Student Section can get involved

### 2008-09 Diversity Action Grants now Available

Sponsored by ASME's Center for Leadership and Diversity, the Diversity Action Grants program provides awards ranging from \$500 to \$1500 to ASME Student Sections to sponsor events which:

- Promote the inclusion of women and under-represented minorities in ASME Student Sections and in mechanical engineering;
- Inspire K-12 students to excel in science, technology, engineering and mathematics (STEM) education;
- Engage international participation in ASME Student Sections;
- Assist minority- and/or women-owned businesses solve engineering design problems

Projects that emphasize collaborative partnerships with other engineering societies on campus, as well as international in scope are strongly encouraged to apply. To be considered for the 2008-09 academic year, all applications should be submitted by November 10. For more information on the DAG program and an online application, contact Marina Stenos at [stenosm@asme.org](mailto:stenosm@asme.org), or visit [http://www.asme.org/Communities/Diversity/Diversity\\_Action\\_Grant.cfm](http://www.asme.org/Communities/Diversity/Diversity_Action_Grant.cfm)

### Call for Mentors! 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, or to register to become a mentor, 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)

### Volunteer with ASME Using the Volunteer Opportunities Bulletin Board

Have you thought about volunteering at ASME, but don't know where to start? Try the Volunteer Opportunities Bulletin Board (VOBB). Whether you are an experienced ASME volunteer or new member looking to make a difference, the VOBB is the place for you to start. As a tool designed to help volunteer leaders promote local Section and Society-wide positions, it opens the door to new opportunities. The opportunities for involvement include pre-college and educational activities, standards development, government relations, honors and awards selection, the development of new programs and more.

To learn more about the VOBB and the volunteer positions available, go to <http://volunteer.asme.org/vobb/>.



## Big Announcement

The ASME Foundation promised something big at Congress this month. Did we deliver? Were you front and center at the Keynote Address? If not, stay tuned for a recap in the December Section Newsletter!

### ASME Salary Survey

The ASME E-Library is a members-only benefit that allows you to access online collections of engineering reference books to help you answer questions and find practical solutions to daily on-the-job problems.

As an added bonus, the ASME E-Library is powered by Knovel, whose interactive and user-friendly technology gives you the ability to manipulate and search for content across the entire collection quickly and easily.

To learn more, go to <http://www.asme.org/Membership/Benefits/Profession>

### Programs and Activities Training Committee

Seasoned members: Looking for a way to pass on your expertise to new members? New members: Looking for a way to increase your participation in ASME at your own pace?

The Knowledge and Community (K&C) Sector recently formed a Training Committee to work on the following:

1. Review and update existing skills and knowledge material. Volunteers use this material, called the body of knowledge (BOK), at each K&C leadership level.
2. Develop and implement an annual training plan for leaders in the K&C Sector. The training plan will include face-to-face conferences, webinars, online self-study material, and information that can be downloaded for local use.
3. Work closely with other ASME members to provide world-class leadership training and orientation for volunteer leaders, which will contribute to the quality of leadership at all levels.
4. Develop the knowledge and skills needed to lead ASME units in forming collaborative efforts, sharing best practices, providing forums for outreach, focusing programs on critical issues (students, early career engineers, industry, new technologies, etc.), encouraging more active volunteer participation, and developing new business opportunities.

Choose topics that most interest you. Contribute your special talents (speaking, teaching, editing, etc.) to enable learning at training events in your local, district or society events. We'd love to have you.

## **Engineers Needed**

*A World in Motion: The Design Experience*

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*A World in Motion: The Design Experience* project has been developed to give students the opportunity to use science, mathematics and technology to explore the process of design. During the 8-12 week experience, the students will engage in a problem-solving context for which they must create a design to address a particular need. In this case, the challenge is posed in a letter from a fictitious toy company which is interested in receiving new designs for moving toys. The toy company sends a letter to the class requesting written proposals, sketches, and working models of designs that meet a specific set of requirements. Over the course of the curriculum, a variety of activities will prepare the students to develop a proposal and a prototype for a toy of their own design. The students must work in teams, and as a team complete the requirements stated in the letter. The program culminates in student presentations of their working models and a discussion of the design teams' efforts to address the challenge.

Throughout the design process, community volunteers can help by sharing knowledge and experience to the process of design, production and engineering. The following includes a partial list of the kinds of roles and task that volunteers might engage in as support to the program:

- Explain what designers and engineers do
- Share examples of design logs and journals
- Share examples of various gears
- Discuss how to conduct market research
- Demonstrate how to create design sketches
- Share your resume
- Act as an advisor to a design team, and
- Review final presentations.

Volunteers' participation can be a brief presentation to the students, or it may be as involved as a continuing support role in the design experience. The extent of the volunteers' participation will depend on the volunteers.

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