

October Meeting

Topic: Emission Control at TVA's John Sevier Fossil Plant

Who: Ken Lewis, TVA engineer

When: Thursday the 19th, 11:30-12:30

Where: Giuseppe's

RSVP: Jason Doran, jdoran@eastman.com by Monday, October 16th

Young Engineer of the Year Announced

Brian Eiselstein is this year's recipient of the Holston ASME Young Mechanical Engineer of the Year award. He has been a member of ASME for the past 10 years and has served in 7 office positions in the Holston Section. Brian is employed by Eastman Chemical Company as a Senior Technical Service Representative. As a graduate of the Tennessee Technological University, Brian is a Tennessee Licensed Professional Engineer. Congratulations to Brian for his distinguished service to the mechanical engineering profession and his dedicated service to the community.



September Meeting Recap

The September Meeting was a huge success from both Northeast State and Holston Section of ASME's perspective. Dr. Henry Petroski presented "The Ups and Downs of Bridges" to a packed auditorium at Northeast State Community College on 8 September. Dr. Petroski is currently a Civil Engineering Professor at Duke University and author of dozens of books and publications. Dr. Petroski has recently been appointed by President Bush to the U.S. Nuclear Waste Technical Review Board.

Dr. Petroski's presentation began with a history of tube bridges and suspension bridges designed by British engineer Robert Stephenson and American engineer John Roebling (Brooklyn Bridge Designer) and compared the two designs and evolution from that point forward. John Roebling took a suspension bridge design and went forward using a previous successful basis, pushing the envelope and stretching the design elements while Robert Stephenson took the opposite approach. Robert chose to start from scratch and developed a Tube Bridge design in the 1840's after a collapse of a suspension bridge, assuming suspension bridges were limited in weight and span.

The tube bridge was successfully completed in 1850, but proved costly while suspension bridges continued to be designed and built in the United States with each design being based on previous successes until the envelope was shattered as in the case of the Tacoma Narrows bridge collapse. Bridge Designers at that point backed up and designed heavier and wider bridges constantly increasing spans.

The latest craze in bridges is the Cable Stay Bridge designs seen in Charleston and Savannah South Carolina. Dr. Petroski admitted the designs will continue to push the envelope for cost and beauty until a failure occurs.

The Holston Section of ASME was pleased to help the Northeast State CC and Northeast State Cultural Arts Committee make Dr. Henry Petroski's visit to East Tennessee a smashing success.

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ASME To Hold Conference on Water Quality in Las Vegas



ASME's Environmental Engineering Division will sponsor the 1st Water Quality, Drought, Human Health and Engineering Conference, Oct. 18-20, 2006, in Las Vegas, Nev.

The forum will address advances in water quality technology and provide solutions-based discussion and information exchange regarding activities and plans for improving the quantity and quality of water, the impact on human health and engineering and current policies from state and federal agencies.

For additional information or to register, visit <http://www.asmeconferences.org/water06/>

Applicants Needed: ECLIPSE

Applications for the Early Career Leadership Internship Program Serving Engineering are due by Dec. 1 for internships beginning at the 2007 Summer Annual Meeting. Women, non-traditional engineers and engineers in the workforce between three and 10 years are encouraged to apply.

For additional information and an application, go to http://www.asme.org/Governance/Volunteer/Early_Career_Leadership.cfm. ASME staff contact: Mary James Legatski, legatskim@asme.org

Plan to attend "Strategic Diversity: Envisioning the Future of Engineering" at the upcoming 2006 Congress in Chicago!

This workshop, sponsored by the Center for Leadership & Diversity, will engage participants of different backgrounds, experiences, ages, gender and ethnicity, in an exercise of forward outlook into a successful future state of the Engineering Profession. The desired outcome of the workshop is the collective wisdom (Voice-of-the-Customer) of a diversely representative group of ASME members that provide a common vision and a common language to enhance the strategic direction of ASME. All Congress attendees are welcome to participate. There is no cost to attend. For additional information, contact Mary James Legatski at legatskim@asme.org.

ASME-ITI AIDS IN FIGHT AGAINST TERRORISM



The ASME Innovative Technologies Institute, LLC (ASME-ITI), has announced the commencement of a \$5 million contract with the U.S. Department of Homeland Security (DHS) for continued work using its risk analysis methodology known as RAMCAP (Risk Analysis and Management for Critical Asset Protection).

Created and developed by ASME-ITI and adopted by DHS, RAMCAP is a framework for analyzing and managing the risks associated with terrorist attacks against critical infrastructures. The purpose of RAMCAP is to provide essential information to government decision makers about consequences and vulnerabilities in the private sector, which owns 85 percent of the nation's critical infrastructure. RAMCAP is unique in that it facilitates the comparison of risks within a sector and across multiple sectors by employing a common terminology and standardized measurement metrics. The process is then tailored to specific aspects of various sectors of the critical infrastructure in documents called Sector-Specific Guidance documents (SSGs) that enable companies to identify and report on the vulnerabilities and potential consequences of terrorism by providing guidance on how to complete both preliminary and in-depth assessments. For more information about the ASME-ITI visit <http://www.asme-iti.org/about/us.cfm>

Call for Nominations:

Committee On Ethical Standards

ASME is currently accepting nominations to fill a vacant position on the Committee on Ethical Standards and Review, for a four-year term, beginning in 2007. The requirements include a minimum of ten years dedicated service to ASME including five years experience in activities beyond the local section, a commitment to upholding ethics in engineering practice, and licensure as a professional engineer. Forward nominations to David Soukup, Managing Director, Centers, at soukupd@asme.org

2007 Johnson & Johnson Consumer Companies, Inc. Medal



The Johnson & Johnson Award, first presented in 2005, recognizes outstanding contribution to the promotion of diversity and inclusiveness within the engineering community. This award is open to ASME members and individuals who are members of a recognized/engineering or professional society.

The deadline for all nominations is Feb. 1, 2007. For additional information and forms, visit http://www.asme.org/Governance/Honors/SocietyAwards/Johnson_Johnson_Consumer.cfm, or contact ASME staff contact: Mary James Legatski, legatskim@asme.org

Diversity Action Grants Now Available!

Encourage your local ASME student section to apply for a Diversity Action Grant by the Nov. 1 deadline! This program enables 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 and/or,
- Assist minority - and/or women-owned businesses solve engineering design problems.

For more information, visit: http://www.asme.org/Communities/Diversity/Diversity_Action_Grant.cfm or contact Mary James Legatski at legatskim@asme.org

Early Career Forum & Career Fair

A two-day career enhancement and networking program for early-career engineers
Nov. 5–6, 2006 Chicago Hilton, Chicago, Ill.

Join other early career engineers at the Early Career Forum & Career Fair, held in conjunction with the 2006 ASME International Mechanical Engineering Congress & Exposition. The Forum will give you first hand advice and information on issues relevant to your career. Senior-level engineering students will also benefit from this important event, featuring top industry pros presenting key trends, opportunities, and expectations in the field.

Featuring:

- Joseph A. Ahearn, Senior Vice President, **CH2M HILL** (*Engineering Services*)
- Todd Allen, Manager, **Johnson & Johnson** (*Pharmaceuticals*)
- Jeff Dinski, BSME, Formerly a Writer/Producer with **NBC, ESPN, MSNBC** (*MBA Graduate Student at Harvard Business School*)
- Larry Dickinson, Ph.D., Founding Principal, **3F, LLC** (*Textiles and Composites*)
- Laura Wojcik, Ph.D., P.E., Senior Director, **Packer Engineering** (*Biomedical*)
- Julie Maupin, Engineer, **Gas Technology Institute**

And meet representatives from

- Toyota
- UOP (a Honeywell Company)
- National Council of Examiners for Engineering and Surveying (NCEES)
- Grogan Advisory Services
- and others...

Participate in the one-day program (advance fee: \$25 or onsite fee: \$30), or get even more valuable insights when you include a second day of special ASME conference sessions (advance fee: \$150/\$200 or onsite fee: \$175/\$225 – member/nonmember rates). For more information, click:

http://www.asme.org/Communities/EarlyCareer/Forum/Upcoming_Events.cfm

REGISTER by Nov. 1, 2006 and Win \$200!

When you register by Nov. 1, 2006 you will be entered into a drawing to win a \$200 American Express gift card. The gift card will be announced and awarded at the Early Career Forum on Sunday, November 5, 2006. The winner must be present to win.

Register now:
www.asmeconferences.org/congress06/confregistration.cfm

HOW I BECAME A MECHANICAL ENGINEER



Darrell W. Pepper, Ph.D, professor and director of the Department of Mechanical Engineering at the University of Nevada, Las Vegas remembers his first introduction to ASME in 1964 when he was a high school senior: "We had taken our senior trip to New York and the World's Fair in May. I recall going to Tad's Steakhouse in Times Square (when steaks were \$1.99) and sitting next to a mechanical engineer attending an ASME meeting in New York. My friends and I became entranced as we listened to him tell us about the breath and depth of mechanical engineering and the myriad activities of its professional society.

Upon graduation from high school, all of us enrolled as mechanical engineering students in the fall in our selected universities. We still feel that it was the best decision and career choice we ever made. Over the years, I have been involved in numerous activities ranging from chasing tornadoes (for the U.S. Dept. of Energy and Nuclear Regulatory Commission), dealing with hazardous releases into the atmosphere, to developing CFD algorithms for the national aerospace plane program and scramjet propulsion. Other diverse efforts have included working on nuclear waste problems for the Yucca Mountain Repository, groundwater transport of plutonium and tritium from the Nevada Test Site, solar powered airplanes and thin solar panels, giant Frisbees (world's largest), and wind energy modeling for the western United States. In 2004 I spent a year as an ASME Congressional Fellow in the office of U.S. Senator Dianne Feinstein (D-Calif.), and became involved with water and contaminant issues while serving as her science and engineering advisor. Having been a member of ASME for many years, I have watched the organization evolve into a major internationally recognized and respected society. When ASME speaks, people listen — this is especially true on the "Hill," the U.S. House and Senate.

Recently ASME has begun to make serious inroads into such fields as nanotechnology, renewable energy, and transportation, to name just a few. ASME has enabled me to explore these new areas and become acquainted with world experts — the workshops and technical conferences sponsored by ASME have been, and continue to be, outstanding. Read Dr. Pepper's complete story on ASME Connections <http://www.asme.org/About/Connections/>

"Tips for Tenure and Promotion: A Symposium for New and Prospective Faculty" – Free Event!

Session 1: Expectations of New Faculty for Promotion and Tenure
Session 2: Panel on Scholarship, Teaching and Service
Session 3: Hints for Successful Proposal and Funding Opportunities

When: Tuesday, Nov. 7, 2006

Where: ASME Congress (IMECE), Chicago, IL

Audience: New and prospective faculty, including graduate students thinking about a career in academia.

Cost: Free to anyone registered for the ASME Congress. However, you must register separately for this event to secure your seat.

http://www.asme.org/Education/College/Faculty/Tips_Tenure_Promotion.cfm

Organized by
Joseph J. Rencis, University of Arkansas
Mohammad N. Noori, Cal Poly San Luis Obispo

Call For Applications – ASME/ABET

Have an interest in undergraduate education? If so, we need your help! We are currently seeking for new ASME/ABET Program Evaluators.

Role of a Program Evaluator

Contribute to the continuous improvement of mechanical engineering, mechanical engineering technology, or related degree programs by evaluating them against a set of criteria. These criteria outline the requirements for faculty, facilities, curriculum, and other key program areas. In doing so, Program Evaluators help to assure the quality and vitality of Mechanical Engineering and Mechanical Engineering Technology degree programs. It's a lot of work, but it's also very professionally and personally rewarding.

Minimum Qualifications:

- Demonstrates interest in improving education.
- Demonstrates desired competencies outlined in ABET's Competency Model.
- At least one degree in mechanical engineering, mechanical engineering technology, or a closely related discipline. Graduate degree preferred.
- 10+ years of work experience. Management experience a plus.
- ASME member or willingness to become a member prior to applying to serve as an evaluator.

How to Apply

Applications are due by **Oct. 15**. To obtain an application and for more information, please visit http://www.asme.org/Education/College/ABET/Become_Evaluator.cfm Minorities, women, and engineers working in industry are especially encouraged to apply.

For more information, contact Amy Bentow, manager, Education at bentowa@asme.org or 212-591-7880.

ASME E-Library Expands to 75 Titles – Free to members!

In early Sept. 2006, ASME members gain access to 75 interactive, user-friendly references available on the newly expanded ASME e-Library powered by Knovel. To take advantage, members simply access ASME.org and log onto the members-only page. Members pay no charges for access.

Selecting from a large, diverse collection that includes *Mark's Standard Handbook for Mechanical Engineers*, *Handbook of Materials Selection*, *Mechanical Engineer's Reference Book*, *Structural and Stress Analysis*, *Pipeline Rules of Thumb*, *Mechanics of Materials*, and the *Manufacturing Engineer's Reference Book*, members enjoy additional benefits unavailable from printed references. Using embedded analysis software, they quickly locate data, analyze it, and export the results. For a complete listing of available titles, visit the e-library pages in Members only.

For the initial session on the expanded ASME e-Library, each individual can log onto the member-only page and register. For future sessions, the individual can simply log onto the members-only page and click on an icon, which opens the collection for use.

ASME Low Interest Student Loans

The ASME Winter/Spring 2006 Student Loan Application is now available online. The application postmark deadline is **Oct. 15, 2006**. Don't miss out on this opportunity, the loan rate is only 4.3%. Applicants must:

- Be ASME Student Members in good standing
- Be enrolled in full-time academic studies in the **U.S., Canada or Mexico** and making satisfactory progress in his or her degree program in Mechanical Engineering, Mechanical Engineering Technology or closely related program
- Have a minimum GPA of:
2.20 on a 0 to 4.00 scale for undergraduate students; 3.20 on a 0 to 4.00 scale graduate student; Have a demonstrated financial need.

For details and an application form, visit: http://www.asme.org/Education/FinancialAid/Loans/Student_Loan_Funds.cfm.

More Local News Below...

Chair Message: Update on Community Egg Drop Competition

Plans are underway for the Holston Section ASME / Kingsport Community Egg Drop Competition. The event will be held at the Fort Henry Mall on Saturday, February 24, 2007. Eight subcommittees have been identified and most subcommittee chairs established. The subcommittees and chairs are as follows:

- Sponsor donations / solicitations: Chair - Mary Bailey
- Financial: Chair - David Copenhaver
- Publicity: Chair - To Be Determined
- Event set-up / security / first aid: Chair - Chad Austin / Jason Goodman
- Participant and volunteer take-away: Chair Jason Doran
- Volunteers: Chair - To Be Determined
- Speaker for event: Chair - Larry Bailey
- Registration: Chair - Ron Dailey

This group is actively working on getting sponsors for the event. One key position that is needed right away is a publicity chair. Getting a website put together as soon as possible is going to be very important to promote the event successfully. This is a great opportunity to get involved with your local ASME section! If you are interested in chairing the publicity subcommittee or getting involved in any of the subcommittees, please let Mary Bailey know. Email: marybailey@eastman.com or phone: 967-5164

2007 Proxy Ballet Election News

TO: Section Chairs, 2007 Nominating Committee Members

FROM: Terry E. Shoup, Ph.D., P.E., President

Dear Colleagues:

All members of ASME will receive their proxy and ballot in early September, with their issue of Mechanical Engineering Magazine. The biographical sketches of the 2007 nominees for Society-wide elective are available on the ASME web site at http://www.asme.org/Governance/Nominating/Nominees_Biographies.cfm or can be obtained in printed form by contacting ASME Information Central at 1-800-843-2763 or 1-973-882-1170. The Nominating Committee would like to see an increase in the number of proxies/ballots returned.

Society policy requires that the Nominating Committee bring one nominee to the voters for each of the positions of President, At-Large Members of the Board of Governors and each Vice President. A large vote indicates support for the nominee and their ability to provide the leadership demanded by the constituency. A low vote, on the other hand, denies that officer the enthusiastic support he/she needs and deserves, and indicates an indifference of the membership.

The deadline for proxies/ballots to be returned is October 20, 2006.

The Sections are our primary link to the members. Please urge your members to return their proxies/ballots. A notice in your newsletter, on your meeting announcements or a discussion at your meetings would be greatly appreciated.

Thank you for your continued support.

eChemExpo coming in October

The next **eChemExpo Solutions Marketplace** will be held **Thursday, October 26, 2006** at Meadowview Convention Center. This **one-day** exposition and **Technology Innovations Conference** will feature some seventy solution providers demonstrating hundreds of products and services to save you time, increase profitability, and streamline plant operations. Visit www.eChemExpo.com for more details and complimentary **ASME** member registration.

Win Lunch on ASME: Correctly answer the following ASME trivia question and you'll be entered to win a free lunch at the next meeting... "**Where and what year was the first Section of ASME formed?**" Email your answers to Dick Burow, rburow@chartertn.net and if you're correct you'll be entered into a drawing for a free lunch on October 19th. (Hint: Use Holston Section website for help)

Return Address
Street Number and Name
City, State 98765-4321

ADDRESS SERVICE REQUESTED

ATTENTION MEMBERS OF THE HOLSTON SECTION - A CALL TO ACTION

Request ASME Funding For Local Sections

The Holston Section Executive Team would like to ask your help in bolstering ASME's financial support of the local sections. We need to you contact ASME if you would like to see an increased level of funding for your local section.

Thanks to your support, the Holston Section has thrived in past years and continues to work hard to ensure our future success. For example, last year we established a \$10,000 endowed fund to provide scholarships to students enrolled in an accredited pre-engineering curriculum at Northeast State Technical Community College. We routinely sponsor local training courses, provide grants to local K-12 schools and support local Engineer's Week activities.

The Holston Section Executive Team also realizes that the local sections must continue to grow to meet the new challenges of the day while providing services that are valued by our members and have a positive impact on our community. With this in mind the Holston Section Executive Team is concerned about the recent decrease in ASME's financial support of the local sections. As a result, the Holston Section Executive Team has sent a request to ASME asking the organization to allow members to direct part of their ASME dues and/or voluntary contributions back to their own local section or to a local section of their choice. If you agree with this approach, please take time to call or write ASME to let them know you are in support of this proposal. You can contact our District Leader, Richard Bunce, buncer@asme.org, or Burt Dicht, dichtb@asme.org. Please consider copying our section chairperson, Mary Bailey marybailey@asme.org on your correspondence to ASME on this subject.

Thank you for your continued support of our local ASME section!

Sincerely,
The Holston Section Executive Team

POSTAGE

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