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## October, 2009 Newsletter

### Message from the Chair

The 2009-2010 year for ASME has started off with great success! In September, nineteen Nebraska section members and UNL students attended the September meeting at the Midwest Roadside Safety Facility in Lincoln. We were shown the latest guardrails and barriers being tested, and saw a number of high-speed videos of past crash tests. It was impressive to see how a well designed barrier will restrain a 3/4 ton pickup traveling 60 mph. There was even an opportunity to attempt (too tight for most of us) to sit in an Indy car that will be a future crash test subject. Many thanks to Jay Fluehr for setting this up.

September also wrapped up the annual PE refresher course for the Mechanical PE exam. ASME would like to thank David Stransky for organizing this event, HDR for hosting, and especially thank our instructors:

Thermodynamics - David Rohan  
Fluid Mechanics - Brian Erbstoesser  
Heat Transfer - Jim Boucher  
HVAC - Ron Feuerbach  
Machine Design - Wieslaw Szydlowski

October 21<sup>st</sup> brings our next event, which is a joint event with SME at TMCO in Lincoln. Dinner will be served at the event. Thus far, we have 24 RSVP's from ASME and guests. If you are interested, there is still time to RSVP for the event, see the details below.

Many of you have been asking about our PD course for November...well, it is under development, and tentatively, it is planned for the week prior to Thanksgiving. We will get the details out as soon as we can.

Thank you all again for your continued support and participation in ASME!

Mike Carlson  
ASME, Nebraska Section Chair.

### 2009-2010 ASME Nebraska Section planned program is as follows:

September: PE Refresher, UNL Roadside Safety Facility Tour  
October: TMCO, Lincoln, NE  
November: PD Course  
December: Christmas Program at Mahoney State Park  
January: To be determined, industrial tour.  
February: E-Week  
March: PD Course  
April: Industrial Tour  
May: NSPE Golf Outing

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**October ASME Meeting:**

Tour and Presentation at Total Manufacturing Company

**Where:** 701 S 6th St., Lincoln, NE 68508

**When:** Wednesday, October 21, 2009

**Agenda: Meal: 5:30/6:00 PM (Provided by TMCO Inc.)**

**Tour: 6:00 - 7:30/8:00 PM**

Tour will include these departments:  
Powder coating, Metal, Fabrication, Tube Fabrication,  
Welding, Stamping, Machining, Assembly, Inspection,  
Metal and Art, and National Mfg.

**Cost:**

Members/Students \$5.00

Non-Members \$10.00

**Reservations:**

Phone: (402) 476-0013

E-mail: [hkloeppe@tmcoinc.com](mailto:hkloeppe@tmcoinc.com)

**There will be a National Mfg. Walking Sprinkler raffled off at this tour.**

**TMCO will also have special discount on sprinklers for people coming through on the tour should anyone be interested in purchasing one.**



**A Total Manufacturing Company**

Established 1974 in Lincoln, Nebraska, where it still operates today, Total Manufacturing Company specializes in one-stop, concept-to-completion metal manufacturing services. TMCO can finish a product from any stage be it design, fabrication, paint, assembly—or if you wish, the whole ball of wax.

**“When you hire the best people, give them the best machines, it’s almost impossible to fail.”  
- TMCO**

Whether a small quantity or a huge manufacturing run, TMCO treats all of its customers with the same reverence.

“We hope that we exceed our clients' expectations every time,” says owner and founder, Roland Temme. In addition Temme says, “It’s a partnership deal because we’re looking to build long-term customer relationships.”

That partnership could have a major impact on your design. Just ask Tim Thomssen about a little project that came across his desk several years back. The concept was one farmer's idea for a useful machine. That machine was a forced air unit used to dry wet cows—essentially a cow dryer (this is Nebraska, folks). Lo and behold through their combined teamwork a design was born and production began on a truly unique item. Not only did TMCO make it possible, they streamlined manufacturing to the fewest steps saving their customer substantial money and time. That product proved so successful, to this day some 10,000 units have been manufactured and shipped from TMCO.

That story isn’t unusual in a shop that cultivates the greatest potential from their staff. When you hire the best people, give them the best machines, it’s almost impossible to fail. The proof is in the pudding. Since its inception

TMCO has quadrupled in size and will most likely double in the next five years. Couple that with its low turnover and high employee loyalty and it’s no wonder TMCO is flourishing today.

Take the tour and learn for yourself why in the age of outsourcing and impersonal service, TMCO holds on tight to the values that have made it a powerhouse in the metal fabrication business.

### Energy a Key Strategy for ASME

In 2008, the ASME Board of Governors identified energy as one of the areas where the Society is poised to leverage the expertise of its members - as well as its products and services – to play a leadership role in matters impacting the globe. Energy Grand Challenge as one of the Society’s three strategic priorities, along with globalization and engineering workforce development.

As a result, the ASME Energy Grand Challenge Roadmap was established as one of the first steps that the Society will take to identify, organize, and build upon existing energy capabilities, products and services to better serve those who rely on and expect the highest quality energy information and expertise.

The Challenge initiative identified nine areas of opportunity for ASME in energy. Among the areas are:

- Strengthen alliances with other societies and international organizations
- Increase ASME’s profile in renewable and emerging technologies.
- Provide a rational, informed voice for political engagement.
- Build on existing ASME capabilities and expertise in the nuclear area.

Read more about the Energy Grand Challenge and ASME’s Strategic Roadmap. Visit:  
[http://strategy.asme.org//Energy\\_Grand\\_Challenge.cfm](http://strategy.asme.org//Energy_Grand_Challenge.cfm)

### PLAN TO ATTEND THE 2009 ASME CONGRESS



The ASME International Mechanical Engineering Congress and Exposition, including 20 discussion tracks on topics ranging from energy to nanotechnology, will be held Nov. 13-19, at the Walt Disney World Swan and Dolphin in Lake Buena Vista, Fla.

The Congress, the Society's largest annual conference, will bring together engineers, scientists and other professionals from around the world to discuss new research and applications that are shaping the future of engineering. The conference will feature nearly 350 technical sessions covering advancements in aerospace technology, manufacturing, micro devices, transportation, and biotechnology to name a few. Get unique insights into engineering's cutting-edge research and development and how it will determine the evolution of technology worldwide. Discover trend setting innovations and tools being showcased by industry leading companies, and build your professional network, expand your knowledge, and advance your career through various forums, workshops, industry tours, and a Career Expo.

For event information, visit  
<http://www.asmeconferences.org/Congress09/>.

### Are YOU the New Face of Mechanical Engineering?

ASME wants you to tell us your story! The New Faces of Engineering program strives to promote the accomplishments of early career engineers by highlighting their engineering contributions and the resulting impact on society.

**How Do You Get Recognized?** You've got to be 30 years of age or younger as of Dec. 31, 2009; have a degree in engineering from an ABET accredited U.S. college or university, or from an equivalent international educational institution; and be a current member of ASME.

Nominate yourself, or a worthy colleague, today:  
<http://www.eweek.org/site/engineers/newfaces2010/nomination.shtml>

This year we are again asking nominees to include, if available, video showing them on the job (on or off site). This will not impact the selection chances. Last year we received informal action and on-the-job photos from several New Faces; these snaps were a popular addition to our online feature and we encourage you to include these again, if available. See <http://www.eweek.org/site/Engineers/newfaces2009/index.shtml> for more information.



### **Global Engineering Management Conference (GEMC) Provides Hands-on Experiential Learning Opportunities for Engineering Managers**

The challenges facing mid-career engineers today require a balanced portfolio of technical and soft skills. In response to this need for specialized training, the ASME Management Division has developed the Global Engineering Management Conference (GEMC) in conjunction with an Advisory Board of industry leaders. With a focus on knowledge transfer from best-in-class organizations and an emphasis on hands-on experiential learning, the GEMC will provide unique insights into what engineering managers need to compete in an increasingly demanding global market place. Attendees will benefit from technical panels discussing critical subjects including, but not limited to:

- Global Manufacturing & Management Challenges
- Crisis Management & Business Recovery
- Design & Development of Sustainable Energy
- Managing & Developing Engineers in Large Corporations

The GEMC includes a host of activities, such as an exclusive tour of the Texas Instruments LEED Manufacturing Facility and a behind the scenes engineering tour of the new Dallas Cowboys stadium. Furthermore, attendees will be able to earn continuing education unit (CEU) accreditation through tutorials led by Dr. Jerry Westbrook, past president and executive director of the American Society for Engineering Management (ASEM).

The GEMC will be held on April 11-14, 2010 at the Fairmont in the heart of downtown Dallas, Texas. Visit our website for further information and to check out the new GEMC Interview Series which includes an insightful interview with Dr. Westbrook at <http://www.asmeconferences.org/gemc10/>

### **22<sup>nd</sup> Annual Bioprocess Technology Seminars and Exhibition Focus on New Insights and Real World Applications**

The 22nd Annual Bioprocess Technology Seminars and Exhibition, to be held June 14-16, 2010 in Montreal, will feature seven seminars and a special new workshop – all exploring the theme of “New Insights and Real World Applications.” The event is intended to provide attendees with the chance to learn practical strategies and techniques from more than 30 leading industry experts who will discuss the latest topics related to the design and operations of today’s bioprocessing facilities.

The event will comprise seven two-day seminars, *Design and Operation of Clean Utilities for the Bioprocessing Industry, Process Modeling and Simulation in the BioPharmaceutical Industry, Bioprocess Equipment Design and Facility Layout, Bioprocess Fermentation & Cell Culture Scaleup and Design, Bioprocess Technology Implementation, Bioreactor and Fermenter Design, and Bioprocess Purification Process Development.* Attendees are eligible for PDHs upon completion of the seminar.

This year, the 22nd Annual Bioprocess Technology Seminars and Exhibition will include a new feature, the *Applications of ASME BPE (Bioprocessing Equipment) Standard Workshop.* Led by ASME BPE experts, this session will acquaint attendees with current trends happening in the biopharm industry and show them how the ASME BPE standard is used to address these trends. The workshop, which will be held on June 16, also will include hands-on training to demonstrate the applications of the BPE standard in the development, design and operation of bioprocessing facilities.

For more information, contact Jennifer Delda, program manager, by e-mail at [DeldaJ@asme.org](mailto:DeldaJ@asme.org), or visit [www.asmeconferences.org/bioprocess09](http://www.asmeconferences.org/bioprocess09)

### **E-MENTORS PROVIDE CAREER GUIDANCE**

If you are interested in finding an E-Mentor, visit ASME’s E-Mentoring Program on ASME.ORG — <https://secure.asme.org/signin/ementoring.cfm> — and take a look at the various mentor biographies in the E-Mentor database, or search for an E-Mentor by industry or location. E-Mentors in the program represent a wide range of companies and organizations, including Abbott Labs, Boeing, Caterpillar, Cessna Aircraft, Duke Power, Entergy Nuclear, IBM, Lockheed Martin, UPS, Procter and Gamble, the Smithsonian Institute and more. Candidates need to submit an application form and specifying up to three mentors who best fit their career interests. ASME will confirm your membership status and the matching process will begin. Mentors and mentees will be notified by e-mail when their match has been made. ASME has more than 800 mentors who are waiting to help guide students and early career engineers via the Society’s E-Mentoring initiative.



### **Don't Miss Your Opportunity**

Looking for a new adventure at ASME? Need a volunteer to help your group get on track? If you answered "yes" to either of these questions, the Volunteer Opportunity Bulletin Board (VOBB) could help. The VOBB is the one-stop online resource for those interested in finding open volunteer positions and groups needing enthusiastic volunteers for their ASME local, District and/or international level committees. As a tool designed to help ASME leaders promote and fill volunteer positions throughout the society, the VOBB opens the door to new opportunities.

To learn more about the VOBB, posting an online position or filling a posted position, go to <http://volunteer.asme.org/vobb/> or contact Ty Booker at [booket@asme.org](mailto:booket@asme.org).

### **PPC Online – Make the Jump from Engineering Graduate to Business Professional!**

Gain Knowledge that will help you succeed as a professional in the engineering workplace with this comprehensive online series of 49 self-learning modules.

--The modules are designed to provide you with the everyday business and management skills necessary for smooth career entry and advancement.

--Professional written and verbal business communication skills to improve your performance with co-workers and potential employers.

--Information about difference industries and career paths so you can make the choices that are right for you.

Enhance your career today! Visit <http://professionalpractice.asme.org>

## ***You have the power to shape the future of ASME!!***

During the 2010 ASME Annual Meeting next June, the Nominating Committee will evaluate candidates, deliberate and nominate individuals from our Society for the following offices:

- President
- Board of Governors - 3 to be elected
- Vice President

- Leadership and Diversity – Centers Sector
- Nuclear Codes & Standards – Codes and Standards Sector
- Pressure Technology Codes & Standards – Codes and Standards Sector
- International Petroleum Technology Institutes – Institutes Sector
- Global Communities – Knowledge and Community Sector

Terms of office for the positions voted above will begin in June 2011. Please evaluate individuals in your unit of ASME as possible nominees for the officer positions in your Sector. You may also consider potential nominees for the offices of President and the three Board of Governor positions.

Additionally, Voting and Alternate Members for the 2011 Nominating Committee will be elected during the business meeting of the ASME Annual Meeting.

The Nominating Committee is now smaller, 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).



Dear Members,

The world is changing at blinding speed. Major discoveries are made every day. New inventions and innovations dramatically benefit billions of people around the globe each year. So, who is on the forefront of all this change? OK, that was a loaded question and you knew I was going to say mechanical engineers, didn't you? Well, believe it! Mechanical engineers are making the world better, safer, cleaner and healthier!

Mechanical engineering encompasses so many disciplines and touches every aspect of our lives. This is truly an exciting time to be a mechanical engineer, and your fellow ME's are working on some pretty amazing things right now:

- Dr. Danny Olivas, a mechanical engineer (and ASME Member) served as a mission specialist on Space Shuttle Discovery mission STS-128. Dr. Olivas made three spacewalks and helped improve the International Space Station as part of the mission.
- Nano Researchers in California are reporting development of a "NanoPen" that could provide a quick, convenient way of laying down patterns of nanoparticles — from wires to circuits — for making futuristic electronic devices, medical diagnostic tests, and other nanotech applications.
- A group of students from Rice University recently won the ASME I-Show (Innovation Showcase) competition for a medical device that can aid physicians and other health care professionals in evaluating muscle injuries in the hand.

I take great pride in my ASME Membership and so should you! I challenge you to get out from behind your desks and spread the word about the amazing work you do every day. Mechanical Engineering is F-U-N. And creative. And important. And exciting. Share your pride with your neighbors and friends. Share your pride with your children and their friends. Show your excitement when you tell them what you do for a living. Mechanical Engineering is anything but boring. Today, I am sharing my **ASME Member Pride** with you, and I hope you do the same with people you know!

Along that line, this month I'd like you to share something about yourself. Please send an e-mail to [membership@asm.org](mailto:membership@asm.org) and let me know why you are proud to be a mechanical engineer (or an ASME Member). I'll share some of the responses in a future Member Savvy.

Warmest regards,

*Mike*

Michael Kreisberg, director, ASME Membership Development