

# Washington DC Section Newsletter October 2009



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## **THERMOELECTRICS FOR VEHICLES JOHN FAIRBANKS**

**Thursday, October 8, 2009 at 6:30 p.m.**

Place: Pier 7 Restaurant in the Channel Inn Hotel  
650 Water Street SW, Washington, D.C.

Cost: \$30.00 per person

Registration: To register for this event, call the ASME Washington Section Executive Secretary, Andrea Gironda at (703) 489-9503 or e-mail her at [agironda@verizon.net](mailto:agironda@verizon.net) by October 2.

We will be joined at this meeting by the D.C. Society of Professional Engineers, the Tau Beta Pi Washington Alumni Chapter, and the Association for the Advancement of Cost Engineering – National Capital Section.

John Fairbanks is the Technology Development Manager for Thermoelectrics at the U.S. Department of Energy. The thermoelectric effect, producing electricity from heat, has become an area of intense research interest. Government and industry engineers have been exploring new materials, which make the thermoelectric generation of electricity more efficient. In 2014, it is planned that there will be vehicles with thermoelectric systems for generation. Vehicles with thermoelectric air conditioning are planned for a year later.

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## **GD&T SEMINAR IN SALT LAKE CITY**

A seminar on the newly revised *ASME Y14.5* standard for geometric dimensioning and tolerancing (GD&T) will take place on Oct. 8, 2009, at the Sheraton Salt Lake City in Salt Lake City, Utah. The seminar aims to provide users of *ASME Y14.5* with an overview of the principles of GD&T, as well as review the changes that ASME has incorporated into the current 2009 version of the popular standard. GD&T is a universal design language that has been rigorously studied and applied by manufacturers around the world. It is widely considered by mechanical engineers to be an essential tool for communicating design intent. By providing uniformity in drawing specifications and interpretation, GD&T reduces guesswork throughout the manufacturing process — improving quality, lowering costs, and shortening deliveries. *ASME Y14.5-2009* has been fine-tuned with ease of use and readability in mind. For registration information and other details on the seminar, visit the website

<http://www.asmeconferences.org/y145/>

## **GTUS COMES TO HOUSTON**

The ASME International Gas Turbine Institute (IGTI) has announced the Gas Turbine Users Symposium 2009 for technical professionals interested in the latest practical information on gas turbine operations, maintenance, and design. The symposium will be held Sept. 14-17, at the George R. Brown Convention Center in Houston, Texas. The Gas Turbine Users Symposium (GTUS) will encompass four technical tracks covering turbine design, operations and maintenance, technology advancements, and gas turbine environmental issues.

The program will include panel discussions, tutorials, and case studies. In addition, selected applications-oriented technical papers from the program of the 2009 ASME Turbo Expo will be presented. For registration information and detailed descriptions of the technical tracks, log onto

[www.asmeconferences.org/gtus09](http://www.asmeconferences.org/gtus09).

## 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/>.

### 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)

### 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).



# Member Savvy

## The Value of ASME Membership



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@asme.org](mailto:membership@asme.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

## **THERMOELECTRICS FOR VEHICLES (Continued)**

### **JOHN FAIRBANKS**

Thursday, October 8, 2009 at 6:30 p.m.

John Fairbanks has been in vehicle energy research at the Department of Energy since 1977. Besides his thermoelectric programs, he has led research on more efficient diesel engines. His research has also included engines capable of using alternate fuels. Before joining DOE, He had worked at the Naval Sea Systems Command, where his programs included the ceramic gas turbine and the FT-9 Marine Gas Turbine, which is a marinized version of the engines on the 747 aircraft.

He was on active duty with the U.S. Navy in the Korean War as an engineering officer on the U.S.S. Montrose. Early in his career, he had worked in space power systems with NASA and Philco Ford. He taught engineering at Texas A&M from 1965 to 1966. He received his B.S. in marine engineering from Maine Maritime Academy in 1952, his B.S.M.E. from Stanford in 1961, and his M.S.M.E. from the University of Santa Clara in 1965.

He was chairman of the ASME Washington Section from 1981 to 1982. He was invited to give the keynote address on diesel engines at the ASME Energy Sources Technology Conference in 1994. He made a presentation on his diesel engine research to the Washington Section of ASME in 2003.

Our dinner at the Pier 7 Restaurant will have a choice between beef or fish entrees. When you make your reservation, please select between Beef Bourguignon (burgundy wine sauce) or Broiled Filet of Corvina (whiting fish), shrimp & scallop. Both choices come with Broccoli Polonaise, Waldorf Salad, Rolls and Butter, and Apple Pie for dessert. Beverages are Coffee, Tea, Decaf, or Milk.

**DIRECTIONS:** The Channel Inn Hotel with its Pier 7 Restaurant is located on the Maine Avenue waterfront near 7th Street SW. If you are driving, take Maine Avenue and turn toward the waterfront to get onto Water Street, which runs parallel to Maine Avenue. The entrance to the parking garage is on the side of the Channel Inn Hotel. Your parking receipt will be stamped at the dinner to give you 3 hours of free parking in the garage. If you take Metro, it's a 3-block walk from the Waterfront Station on the Green Line.

**DIRECTIONS:** The Embassy House is a small white building on the Embassy grounds with its entrance on Foxhall Rd. between Reservoir Rd. and Whitehaven Pkwy. PLEASE NOTE that our reception is NOT in the large main Embassy building of the Federal Republic of Germany which is located around the corner. BE SURE TO GO TO THE RIGHT BUILDING. Street parking is generally available on Foxhall Rd. or Whitehaven Pkwy.; there is no parking on the Embassy grounds.

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## **DISTRICT A LEADERSHIP MEETING**

**NOVEMBER 6-7, 2009**

**Baltimore, MD**

**Saturday, November 7, 2009**

**The Engineer's Club**

**11 West Mount Vernon Place**

**Baltimore, MD 21201**

<http://www.esb.org/>

### Important Dates:

Hotel Reservation Deadline, October 16, 2009

Meeting Registration Deadline, November 1, 2009

Hotel Information Phone:(410) 727-7101

Peabody Court Baltimore

612 Cathedral St.

Baltimore, MD 21201

Rooms have been reserved for Friday, November 6 at group rate of \$145.00 per night plus tax, which also includes overnight parking. There are also rooms reserved for Saturday night at the same rate.

Attendees should reserve their own hotel rooms by calling the Peabody directly at the phone number listed above. When making a room reservation, ask for the American Society of Mechanical Engineers group.

Reservations must be made by Fri. October 16<sup>th</sup> in order to receive the group rate. After this date, the group rate will not be available.

Breakfast will be served on Saturday morning, at the Engineer's Club and a social will be held Friday evening.

### Registration Information

The conference registration fee is \$40 per person. This will cover the Friday evening social as well as breakfast, lunch, and breaks at Saturday's meeting.

To register for the meeting, there are two options:

Complete the [registration form](#) online. Mail a check for the registration fee to Scott Walthour, see address below. Print out the [form](#) from the web site and mail both the completed form and check for the registration fee to Scott Walthour.

**Please remember to indicate which section you represent and the office or position you hold.**

Make check payable to Scott Walthour and mail to: Scott Walthour

1993 Alfalfa Court

Marriottsville, MD 21104

Tel: 571.212.9428

### Meeting Location:

The Saturday meeting will take place at the Engineer's Club of Baltimore, an historical mansion, which is located directly across from the Peabody Hotel.

Please note, we regret to inform that there will be NO teleconferencing capabilities at this year's fall meeting.

Support for Attendees:

ASME will reimburse those who are attending who do not have other funds to support their attendance. Reimbursement includes travel costs (standard rate per mile plus tolls & parking) and a per diem (up to \$150.00) to help with hotel, meal and registration costs. Volunteer Travel Expense Forms will be distributed at the meeting.

We strongly encourage each section to send at least one representative, but better yet, having two or three representatives from each section will create a dynamic and balanced group. Consider carpooling with others from your section or sections on your way to the event. Hotel rooms can easily accommodate 2 people. Consider sharing a room to minimize expenses.

Note: This is a critical time for the Sections of ASME. We look forward to your help in planning for a positive future. That future will enable us to network with our peers and interact with the next generation of mechanical engineering students at our local colleges and universities. We look forward to seeing you at the meeting. Drive safely.

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

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**VOTE NOW!!**

*The Future of ASME is in your hands!!!*

Names and Bios of Nominees for Society Office for terms beginning in June 2010 are available online at

<http://www.asme.org/Governance/Nominating/>.

Ballots are included in the September 2009 issue of Mechanical Engineering magazine and are due on or before Oct.23, 2009

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

**Learn more, Go further.**  
**It's That Simple!**

Graduate Engineering Programs for Working Professionals  
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Propel your career forward with the new Master's in **Sustainable Energy Engineering**

Developed by faculty from the Departments of Mechanical, Chemical & Biomolecular, Nuclear, Reliability, and Systems Engineering, this unique multi-disciplinary curriculum represents their commitment to preparing engineers for the challenges of this rapidly growing field. Courses are taught by the university's foremost experts in energy engineering as well as international experts from the public and private sectors.

**CORE COURSES:**

- Renewable Energy Applications
- Energy Conversion I: Stationary Power
- Energy Conversion II: Mobile Power
- Environmental Risk Analysis
- Advanced Fuel Cells and Batteries
- Photovoltaics: Solar Energy

**ELECTIVE TRACKS:**

- Nuclear Engineering
- Energy Systems
- Reliability Engineering

**ONLINE DEGREES:**

- Energetic Concepts
- Fire Protection Engineering
- Nuclear Engineering
- Project Management
- Reliability Engineering
- Sustainable Energy Engineering

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**DONATE TO ASME WASHINGTON DC SECTION STUDENT SCHOLARSHIP FUND**

Please make checks payable to: ASME DC Scholarship Fund

Mail checks to: Boris Ciorneiu

ASME DC Section Treasurer  
20069 Great Falls Forrest Dr.  
Great Falls, VA 22066

*Please detach and include with your donation*

Name/Organization \_\_\_\_\_

If organization, Responsible Officer \_\_\_\_\_

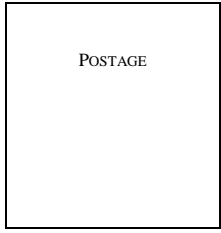
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Thank you for your generous contribution of:

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