



Washington DC Section Newsletter October 2014



Editor: Bethany Springer
240-422-4815
bspringer@asme.org

https://community.asme.org/washington_dc_section/default.aspx

Executive Secretary: Andrea Gironda
703-489-9503
agironda@verizon.net

Chairman

Kaykham Sysounthorn
571-357-3011
sysounthornk1@asme.org

Vice-Chairman

Paul Bizot
301-648-5945
bizotp2@asme.org

Treasurer

Jon Ward
571-215-8981
jonward@asme.org

Recording Secretary

Roger Schaffer
202-781-1336
Roger.schaffer@navy.mil

Communications Secretary

Bethany Springer
240-422-4815
bspringer@asme.org

Local Section News

Have any ideas for events or volunteer opportunities that you would like to do? Feel free to offer up your suggestions at anytime! The ASME Board is always looking for additional events throughout the year. Please submit any ideas to Bethany Springer at bspringer@asme.org.

INSIDE THIS ISSUE

- 1 Local Section News
- 2 Upcoming ASME Conference
- 3 Chairman's Corner
- 6 2014-2015 Event Calendar
- 8 ASME 2014 International Mechanical Engineering Congress & Exposition
- 9 ASME Energy Forum

Local Section News

ASME OCTOBER EVENTS

BRIAN PELLETIER – ADVANCED UNDERSEA SYSTEMS PROGRAM – NAVAL SEA SYSTEMS COMMAND (NAVSEA)

Date: Thursday, October 23, 2014 – Time: 6:30 p.m.
Place: Alfio's La Trattoria
4515 Willard Avenue, Chevy Chase, MD 20815

Cost: \$10 (Members) or \$30 (Non-Members)
Registration: To register for this dinner discussion event, call the Washington DC Section Executive Secretary, Andrea Gironda, at (703) 489-9503 or e-mail her at agironda@verizon.net by October 20th.

Brian Pelletier is currently assigned as the Principal Assistant Program Manager for Systems Acquisition within the Advanced Undersea Systems Program Office (PMS394). PMS394 is part of Team Submarine at NAVSEA, Washington Navy Yard, DC.

Mr. Pelletier's current assignment includes responsibility as the lead for all Program Management aspects of several classified programs, as well as the Certification of DSV ALVIN to perform manned operations. During his almost 25 year career with NAVSEA he has also been assigned as the Principal Assistant Program Manager for the Dry Deck Shelter (DDS) extension & next generation DDS programs, Assistant Program Manager for the procurement of the Advanced SEAL Delivery System (ASDS) submersible, Lead Project Engineer for the life cycle support of DDS program assets, and as an engineer in the Submarine Safety (SUBSAFE) and Deep Submergence Certification office within Team Submarine.

Woods Hole Oceanographic Institute (WHOI) operates the U.S. Navy-owned Deep Submergence Vehicle (DSV) Alvin for the national oceanographic community. The nation's deepest diving research sub, Alvin is a mainstay for ocean exploration within the existing fleet of underwater vehicles. Commissioned in 1964, Alvin has enabled dozens of new discoveries and innumerable insights into Earth's planetary system. Alvin has more than 4,600 dives to its name, including locating a lost hydrogen bomb in the Mediterranean Sea in 1966, exploring the first known hydrothermal vent sites in the 1970s, and surveying the wreck of RMS Titanic in 1986. Alvin remains state-of-the-art as a result of numerous overhauls and upgrades, including its most recent, which was completed in 2013. Mr. Pelletier will discuss the scope of the recently completed overhaul and the challenges overcome to re-Certify the vehicle and resume manned operations.

Directions: The Willoughby Condo Building with its Alfio's La Trattoria Restaurant is located on 4515 Willard Avenue. The restaurant offers free valet parking and is only 1 block away from the Friendship Heights Metro Station.

Local Section News

ASME OCTOBER EVENTS, CONTINUED

CAREER PANEL EVENT – UNIVERSITY OF MARYLAND

Date: Wednesday, October 29, 2014 – Time: 5:00 p.m.

Place: University of Maryland, College Park, MD 20742

Registration: This event is for UMD students only, and will be held free of charge. No formal registration is required; however, students should notify Zachary Hutcheson (zdhutch@gmail.com) of their planned attendance to ensure enough food will be provided.

Many of us remember what it was like as an undergraduate student, wondering where our mechanical engineering degrees would take us after graduation. With so many industries and opportunities, ASME DC is supporting this Career Panel Event to help address some of these questions and provide a casual forum in which different generations of mechanical engineers may interact.

Forging relationships between students and professionals is mutually beneficial. Not only will students be able to receive wisdom and career advice from industry professionals, but professionals will have an opportunity to see where engineering education is headed and perhaps rekindle a spark of interest in one's industry. All parties will also be exposed to a variety of applications of mechanical engineering, and there will be plenty of time at this event for networking and answering questions.

If you are interested in serving as a career panelist for this event, please contact bspringer@asme.org at your earliest convenience. Previous career panelists are encouraged to participate again! We are looking for enthusiastic proponents of mechanical engineering who can share their career experiences in Applied Mechanics, Energy Systems, Manufacturing, Aerospace Engineering, Automotive, Defense, etc. to show students the potential future ahead. The ASME Student Section is especially interested in panelists from industry. Extensive preparation for this event is not necessary; however, you will be provided with some guidance.

RECEPTION AT THE EMBASSY OF ITALY

Date: Tuesday, October 21, 2014 – Time: 6:30 p.m. to 9:00 p.m.

Place: Embassy of Italy, 3000 Whitehaven Street NW, Washington, D.C. 20008

Cost: \$25 per person: ASME – Tau Beta Pi – DCSPE – Cost Engineers - SAVE

Registration: To register for this embassy event, call the Washington DC Section Executive Secretary, Andrea Girona, at (703) 489-9503 or e-mail her at agirona@verizon.net by October 17th.

At this event, we will learn about technology in Italy from Maria Fabrizia Buongiorno, Director of Technology Research and Head of Space Observations Infrastructures. She has programs in earthquake and disaster management and protection of elements of the cultural heritage.

The evening will include a buffet reception with a chance to talk with the Embassy staff, fellow engineers, and guests. We will be joined at this event by the D.C. Society of Professional Engineers, the Washington Alumni Chapter of Tau Beta Pi, the Association for the Advancement of Cost Engineering – National Capital Section, and the Society of American Value Engineers (SAVE).

The cost of the event (\$25 per person) will be going towards a buffet with wine, beer, soft drinks, and coffee.

Directions: The Embassy of Italy is located just off Massachusetts Avenue east of the Naval Observatory. If you drive, please allow sufficient time to find street parking. The closest Metro stop is Dupont Circle on the Red Line (about a 20 minute walk).

Upcoming ASME Conference



This year's ASME International Mechanical Engineering Congress and Exposition in Montreal, Canada will include a new addition to its program of special events – the Invited Industry Presentations. The three new sessions, which will take place Nov. 18-20, will feature executives from three Montreal-area industry powerhouses: Rolls-Royce, Pratt & Whitney, and Bombardier.

The 2014 Congress will be held from Nov. 14-20 at the Palais des Congres convention center in downtown Montreal.

This new speaker program was spearheaded by George Kardomateas, PhD, the technical chair for the 2014 Congress who sees the initiative as a way to encourage more engineers from industry to attend and participate in the conference.

For more information, please see: <http://www.asme.org/about-asme/news/asme-news/three-leaders-industry-speak-2014-congress>

CHAIRMAN'S CORNER



Seeking a New Meeting Location for the ASME WDC Section's Executive Board



by
Kaykham "Kai" Sysounthorn
Chairman (Washington D.C. ASME Section)

Dear ASME Washington D.C. members:

As a non-profit organization and regional section of ASME, we strive to best utilize funding to benefit our members, most prominently in the form of section events. To this end, we often seek free or low-cost alternatives to operate the section in regards to holding Executive Board meetings and travel.

We recently lost access to our regular location to hold our in-person Executive Board meetings. These meetings are held, on the first Tuesday of each month, alternating in-person and teleconference formats. From September to July, we have six (6) in-person and five (5) teleconference meetings. In summary, the Executive Board members meet face to face to plan and coordinate our numerous section events six times a year.

Therefore, we would like to request assistance from DC Section members. If you are willing to host these meetings which are held at 6:30 pm, or know of an alternative location in or near Washington D.C. with close proximity to a metro station (e.g. DC, Arlington, Falls Church, and Tyson's Corner), please respond to this newsletter. Our meetings are typically 90 minutes and require a speaker-phone system because we host a dial-in number for those Board members that cannot attend in-person.

Thank you in advance for your consideration and any leads you can provide.

Program Lineup For This Year

The Executive Committee met in July 2014 to formulate this year's program and continues to finalize and organize events to serve the Washington, DC Section:

<u>Date</u>	<u>Event</u>
October 21 st	Reception at the Embassy of Italy
October 23 rd	Submarine Safety Event
October 29 th	Career Panel: University of Maryland, College Park
November/December	Library of Congress Tour
TBD	Joint Event Tour with the Baltimore Section
January	Smithsonian Air & Space Museum Tour
February 28 th	Discover Engineering Day
February	DCCEAS Proclamation Luncheon
February	DCCEAS Awards Banquet
March	ASME Washington Fellows Dinner
April	ASME DC Awards Dinner
May	Young Engineers Event
June	Family Event

Social Media: Washington, DC Section

Make the ASME Washington, DC Section part of your social media life! Feel free to connect with us through Facebook and Twitter for updates on events and to post suggestions.

Like us at:

<http://www.facebook.com/ASMEDC>

Follow us at:

https://twitter.com/ASME_DC

Newsletter Available Online!

The Washington, DC Section Newsletter is available online at:
https://community.asme.org/washington_dc_section/default.aspx

For comments or questions, please contact our Newsletter Editor, Bethany Springer at bspringer@asme.org.



Engineering Corner



Underwater Robot for Port Security

By Larry Hardesty
September 26, 2014

Originally designed to look for cracks in nuclear reactors' water tanks, the robot could also inspect ships for the false hulls and propeller shafts that smugglers frequently use to hide contraband. Because of its small size and unique propulsion mechanism – which leaves no visible wake – the robots could, in theory, be concealed in clumps of algae or other camouflage.

View Full Article at: newsoffice.mit.edu/2014/underwater-robot-for-port-security-0926

Pneumatic System Gets First Use Firing Live Fish from River

By Tim Newcomb
September 24, 2014

Wild and hatchery-spawned fish are commingled in this fall's Chinook salmon run on the Washougal River in southwestern Washington state. The state Dept. of Fish and Wildlife wants them separated and has turned to an engineered solution for help.

The system was engineered to handle live fish without harm, based on lots of experiments with dead ones. Its design is adapted from a system used in fruit packing, which requires a tender touch.

View Full Article at:

enr.construction.com/infrastructure/water_dams/2014/0929-pneumatic-system-gets-first-use-firing-live-fish-from-river.asp

ME Shop Skills for Girls Program Inadvertently Teaches Leadership Skills

By Alaina G. Levine
September 10, 2014

Designing a lamp may seem like a simple enterprise, but for Cornell University's ASME student section, it served as a way to enlighten high school girls about the exhilaration of being an engineer and empower them to see that they can be successful in the profession.

View Full Article at: www.asme.org/career-education/early-career-engineers/me-today/shop-skills-girls-program-inadvertently-teaches

PROFESSIONAL MASTER OF ENGINEERING GRADUATE PROGRAM

DESIGNED FOR WORKING ENGINEERS



PROGRAM HIGHLIGHTS

- Take courses on campus or at regional education centers in Maryland
- some programs are 100% online
- no thesis/research requirement
- 10 courses to complete a Master's degree
- 4 courses for a highly focused Graduate Certificate
- no GRE scores required for admission
- faculty available via e-mail, chat sessions, teleconferences
- online library and full technical support available to all students

Learn More:

www.advancedengineering.umd.edu/asme

855-309-8379 or 301-405-7200

GRADUATE PROGRAMS

Aerospace
Bioengineering*
Chemical & Biomolecular
Civil & Environmental
Cybersecurity
Energetic Concepts*
Environmental
Fire Protection*
Materials Science
Mechanical
Nuclear*
Project Management*
Reliability*
Robotics
Software
Sustainable Energy*
Systems

* Available Online



A. JAMES CLARK
SCHOOL OF ENGINEERING



ASME 2014 Internal Combustion Engine Division Fall Technical Conference

October 19-22, 2014 • Columbus, IN



Papers of high technical quality related to the development, advancement, and improved understanding of the internal combustion engine are sought for the ASME Internal Combustion Engine Division's 2014 Fall Technical Conference to be held October 19-22, 2014 in Columbus, Indiana and hosted by Cummins, Inc. In addition to two-days of technical presentation of accepted papers, the conference highlights networking activities among members of industry, government, and academia, keynote speakers, student presentations, industrial tours, a banquet, and an overall collegial atmosphere to advance the state of the art of the internal combustion engine.

Register now: https://w3.smartreg.com/webreg/ASME_ICEF_14/

ASME Energy Forum is a multimedia series that explores the technical aspects and workings of a broad range of energy sources and related technologies. From fossil fuels to fuel cells, and from solar to hydro power, you'll get leading expert perspectives on how these technologies really work, the technical issues and market challenges, and the economic implications for businesses.

ASME ENERGY FORUM

Register now: <https://www.asme.org/events/asmenergy-forum>

FREE WEBINAR:

[LNG: Delivering on the Promise of the Shale Gas Boom](#)

Register anytime to get immediate access.

Companies are working to build plants in the U.S. that can turn natural gas into a liquid to export.

[Learn More](#)



FREE WEBINAR:

[Small Modular Reactors: Nuclear's Big Opportunity in a Little Package](#)

A new concept in nuclear power could make it easier to build and finance new reactors.

[Learn More](#)





Learn. Grow. Connect.

The [Engineering for Change Webinar Series](#) provides the opportunity to learn from and interact with creative thinkers and leaders who are developing new technologies and initiatives that contribute to solving humanitarian engineering problems. This live, interactive, monthly series promotes emerging ideas and connects a community of passionate engineers who want to improve quality of life around the world. Attending is easy and free: register at least one hour before each webinar and you'll receive a participant link prior to the event. Can't attend? View previously recorded webinars online and on E4C's YouTube channel. Visit www.engineeringforchange-webinars.org to learn more and register for the next live event.



ASME Mentoring Program

Get valuable career advice from a mechanical engineering professional!

The **ASME Mentoring Program** is designed to provide rewarding experiences that both mentor and mentee can learn and grow from. This is a unique opportunity for you to get career-guiding advice from an engineering professional with broader experience or more advanced skills. Benefit and learn from their real-life expertise, while sharing your own valuable insight and perspective!

Participating in the program is easy with our Web-based platform, made available through a partnership with WisdomShare™. Our targeted matching system will pair you with someone who can provide anything from general advice and a fresh point-of-view, to help identifying the right training or niche in mechanical engineering, or even assistance with finding a non-traditional career path.

The valuable insight you can gain by participating in the **ASME Mentoring Program** can have a positive impact on your career for years to come!

If you are ready for a most rewarding experience, please go to: <http://go.asme.org/mentoring> to become an **ASME Mentor or Mentee**.



The annual ASME International Mechanical Engineering Congress and Exposition is a premier global conference that focuses on today's technical challenges, research updates and breakthrough innovations that are shaping the future of engineering.

“Engineering for Global Development” Chosen as Theme for the ASME 2014 Congress

Engineers have long contributed to human progress by solving complex challenges on a global scale. Many of these challenges are found in developing and emerging markets, particularly as they relate to critical infrastructures, such as access to energy, clean water, effective sanitation and healthcare. Rapid population growth and the global pursuit of sustainability are creating new demands for engineers who can design products, services and infrastructure to improve the quality of life for the billions living in poverty. Engineering for Global Development (EGD), a program area within ASME, enhances the multidisciplinary research and collaboration needed to establish the delivery mechanisms for emerging and appropriate technologies. IMECE 2014 will present a platform that focuses on the critical research being conducted in global development and the positive impact it is making around the world.

Registration is now available: <http://www.asmeconferences.org/Congress2014/ConfRegistration.cfm>



**EMERGING ENERGY TECHNOLOGIES:
SEE WHAT'S HAPPENING NOW.**



ASME ENERGY FORUM

HYDROKINETICS / SOLAR / WASTE TO ENERGY / WIND / FUEL CELLS / HYDRAULIC FRACTURING

ASME Energy Forum is a new, year-long multi-media series that explores the technical aspects of a broad range of energy sources and related technologies. From solar power and hydrokinetics to fuel cell vehicles and wind farms, you'll get leading expert perspectives on how these energy sources and technologies work, the technical issues and challenges, and the economic implications for businesses.



go.asme.org/energyforum

