

From the Chair

Dear Members and Friends of FWCS,

Thank you for your continuous support to our Section and attending our tours in such great numbers.

This month we are trying a different approach to accommodate various interests and different available times. Please let us know what do you think about it.

The end of the month (March 31st) is reserved for an exciting Tour of Clean Energy Research Center (CERC) at USF Tampa with a focus on the Solar and Hydrogen Labs. Don't miss the opportunity to learn about the latest renewable and environmentally clean energy systems.

In April, mark your calendars for a two day TRIZ Workshop designed for engineers, managers, team members and designers. This seminar will help you master the theory of inventive problem solving tools. The processes presented will open up the possibilities of generating innovative ideas at your workplace and increase the creative mindset.

Looking forward to seeing you all!

Elizabeth I. Vincourek
(727)939-9092
evincourek@yahoo.com

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2010 Engineer of the Year Awards

Please join FWCS of ASME congratulating

John M. Mulvihill, P.E.

*Director of Public Works & Utilities for City of
Oldsmar*

ASME District Leader for District F

On receiving the 2010 Engineer of the Year Award.



We'd also like to congratulate the following students:

Derek Lura
2010 Experienced Student Engineer of Year
&
Mario Simoes
2010 Student Engineer of Year

Sign up today for a Tour of the Clean Energy Research Center at USF, Tampa

This is a perfect opportunity to learn what solar energy means for the Sunshine State. With a plenty of sun all year around, Florida has a lot of potential to research how to utilize solar and biomass resources and the impact of the solar power on the environment.



The latest natural catastrophic disaster that hit Japan, and increasing disastrous climatic events in the past years have significantly increased the efforts of all nations to jointly discuss climate changes. Our rapidly diminishing traditional energy resources have stressed the importance of developing alternative, renewable energy, environmentally friendly and sustainable resources, practices and policies that will also bring cost effective solutions without hurting nature and humanity.

The world biggest challenges today are very much linked to the future of our planet, water resources, developing clean energy and developing harmonic way between giving and getting energy from nature as a reverse process.

Considered as being energy of the future, renewable energy and sustainability have been in the World's focus in past years. Renewable energy is developed from natural energy sources and processes that is naturally replenished (sun, wind power, hydropower, biomass, bio fuel, geothermal energy).

USF Clean Energy Research Center (CERC) with its multi-disciplinary research and technical development of new environmentally clean energy sources and systems such as hydrogen, solar, fuel cells, biomass utilizations is opening a new page in renewable energy solutions. Please join FWCS on this exciting learning experience, the Tour of CERC!

When: Thursday, March 31, 2011 11 am – 2 pm
Where: ENB 109 Eng Building II, 4202 E. Fowler Ave. Tampa
Schedule: 11:00 am – 11:45 am Presentation by Prof. Lee Stefanakos, Director CERC (ENB 109)
11:45 am – 12:15 pm Tour of Hydrogen Labs in Kopp Bldg.
12:15 pm – 12:45 pm Tour of Solar Labs in IDR Bldg
01:00 pm – 02:00 pm Q/A

Parking Info: For all parking information and directions, please visit our website www.asmefwcs.org

Please make sure to add the above date to yours Calendar!

2011 Leadership Training Conference LTC 11 Experience like no other!

The annual 2011 Leadership Training Conference (LTC 11) was held in Dallas, Texas.

During March 3rd through March 6th, 2011, LTC brought together over two hundred ASME Section and District leaders, peers and Early Career engineers, representing their units, sections and districts from all over the Globe.

It was a creative weekend fulfilled with the power of ASME leaders working together!

The spirit and energy to participate and absorb as much knowledge as possible during the conference, was constantly present among the participants.

During the training, attendees learned about tools and access to ASME resources, products and services that meet members and community needs, ways to improve business sense and creative solutions, developing communication skills, gathering a broader view of ASME, and unfolding ways to help improve local ASME Units.

Elizabeth Vincourek, Chair and Magdalena Krstanoski Vice-Chair of Programs and Newsletter Committee Chair of FWCS of ASME attended the LTC11 conference in Dallas.

Many thanks to the LTC11 Committee for organizing the event!



Railroad Museum Tour, Dallas, TX

All Aboard!

Anyone who's been amazed by the wonderful popular character Thomas the Tank Engine a fictional steam blue with red lining locomotive, which was with big excitement introduced to me by my sweet 17-month-old niece, knows how much with passion, innovation and excitement train technology and design had influenced the engineering profession and American railroad history.

The guided Tour of the Railroad Museum in Dallas was part of the last day of the LTC 11 Conference. The museum includes one of the most comprehensive passenger car collections in the United States, including heavyweight Pullman sleeping car and dining car, impressive red and silver color Santa Fe passenger locomotive, railway post office and many more on display including steam, diesel and electric locomotives, cabooses, signals and other historic pieces.

The museum features Glengyle, all-steel sleepers built by Pullman Company, named by ASME as a Historic Mechanical Landmark in 1987.

For further reading on related subjects, please follow the links to the Mechanical Engineering Magazine, by author Robert O. Woods, Ph.D, P.E. that I had the pleasure to meet during the LTC 11 conference in Dallas, TX.

http://memagazine.asme.org/articles/2006/February/TallyHo_Vacuum.cfm

http://memagazine.asme.org/articles/2003/December/Harnessing_Void_2.cfm

Robert O. Woods, Ph.D, P.E. is an ASME Fellow and retired Professional aerospace engineer. His lifelong avocation has been studying the influence technology has had on human history.

Student Liaison Program

Reported by Paul Stevenson

On February 18th, our Section Secretary Paul Stevenson attended Student Liaison training in Dallas, TX. Paul had applied for and been awarded the title of Student Liaison to the Student Sections located in the Tampa Bay area.

This program has been in place since 2009, but ASME recently renewed the effort to identify Liaison's in areas that had previously been missing from the program.

Paul attended the training with 11 other liaisons from all over the country, including Seattle, Houston, Denver, and St. Louis.

The training focused on the benefits ASME has to offer its student members, effective communication with Millennials, and developing a business plan unique to each liaison's location and demographics.

Florida was well represented at the training, with Paul joining two other Floridians: Tyler Vonderheide representing the Florida and Gator Sections, and Brittney This representing the West Florida Section.

Look for future updates from Paul on the progress of the Student Liaison Program!

Florida FIRST Tech Challenge Competition of Young, Smart and Inventive Generation

The FIRST (For Inspiration and Recognition of Science and Technology) Tech Challenge Florida regional competition was held on February 12, 2011 at the ICI Center, Embry Riddle Aeronautical University Daytona Beach, FL.

In addition to competing with their high school teams unique robot design, teams of students competed to earn a place at the World Championship and also competed for college scholarships.

Each of the FIRST Teams designed and built a robot that could pick up batons and place them in a container and to maneuver and pass various obstacles successfully.

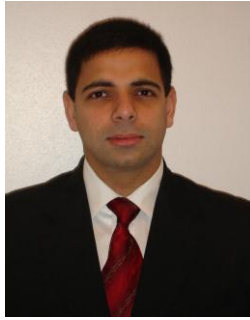
Every year FWCS ASME takes an active part in the FIRST Tech Challenge. This year six members of FWCS traveled to Daytona to serve as judges.

Under the lead of Pete Grotsky, the Judge Advocate for this competition, twelve judges reviewed Team's videos, their notebooks, interviewed with the Teams, and visited the pit area with the Teams and observed "GetOver it!" competition matches.

Pete announced the six team award winners during the Award Ceremony encouraging the young students to continue with Awards were given for the successful completion, as well as for design, innovation, and community outreach.

If you or your company have not been involved in FIRST, please consider supporting these in the future by mentoring, sponsoring or coaching.

ASME Member Named One of the New Faces of Engineering



Piyush Sabharwall, an engineer with the Idaho National Laboratory, is one of 14 New Faces of Engineering.

As a New Face of Engineering, Sabharwall is part of a program that highlights the contributions of America's newest engineers and showcases technological innovation and achievement in disciplines ranging from energy and infrastructure development to biomedicine and national security. The program coincides with National Engineer's week, which was held during the week of President's Day.

Nominated by ASME, Sabharwall develops high-temperature nuclear technologies for Idaho National Laboratory in Idaho Falls, ID. He is also a member of the American Nuclear Society. He earned a Ph.D. in nuclear engineering from the University of Idaho.

Plan to Attend Turbo Expo 2011!



Turbo Expo has a well-earned reputation for bringing together the best and brightest experts from around the world to share the latest in gas turbine technology, research and development, and application. To address the world's increasing energy demands, IGTI's leadership is broadening the scope of the ASME Turbo Expo technical program to include related technical topics in Steam Turbines, Wind Turbines, Fans & Blowers and Solar Brayton & Rankine Cycle.

Visit: <http://www.asmeconferences.org/te2011/> to download or view the Advance Program with complete conference details.

Nadine Aubry Named to the National Academy of Engineering

Nadine N. Aubry, Raymond J. Lane Distinguished Professor and head of the mechanical engineering department at Carnegie Mellon University in Pittsburgh has been named one of 68 new members and 9 foreign associates of the National Academy of Engineering.

Election to the National Academy of Engineering is among the highest professional distinctions accorded to an engineer. Academy membership honors those who have made outstanding contributions to "engineering research, practice, or education, including, where appropriate, significant contributions to the engineering literature," and to the "pioneering of new and developing fields of technology, making major advancements in traditional fields of engineering, or developing/implementing innovative approaches to engineering education."

Aubry, who now stands as one of only 2,290 U.S. members, was honored for her contributions to low-dimensional models of turbulence and microfluidic devices, and for her leadership in engineering education. She is currently a member of ASME's Mechanical Engineering Department Heads Executive Committee.



The International Gas Turbine Institute has a long and proud history of providing scholarships to students in the gas turbine field that show promise and has supplied more than one million dollars over the years.

These scholarships aim to bring students into the gas turbine field and make them aware of this exciting career field. The program will provide up to ten \$2000 (US) scholarships to students. To be considered, you must be a student of high academic standing enrolled at an accredited college or university (U.S. or International).

Student application deadline is **May 15, 2011**. Scholarship winners will be notified by **Sept. 15, 2011**. Scholarships will be dispersed in October to the winners.

Visit: <http://files.asme.org/IGTI/Honors/27260.pdf> for an application and complete instructions.



ENGINEERS WITHOUT BORDERS USA

ASME's strategic partner Engineers Without Borders-USA is currently seeking professional engineers to serve as mentors for the organization's more than 250 student chapters in the United States.

If you're interested in sharing your technical skills with the engineers of tomorrow — and making a real difference in the lives of people in developing countries throughout the world — visit www.ewb-mentors.org/EWBmentor to learn more about how to become an EWB-USA professional mentor.

Last January, ASME and EWB-USA entered into an enhanced strategic partnership to leverage each organization's strengths to benefit future joint initiatives and objectives. Now an EWB-USA Principal Partner, ASME began its collaboration with EWB-USA in 2003 when ASME served on the EWB-USA board of directors as the first society partner to provide dedicated resources to support EWB-USA's mission. Today, both organizations share similar strategic interests, including the development of the engineering workforce, making an impact on global needs and contributing to renewable energy initiatives.

As a result of this partnership, ASME members are now entitled to a 20 percent discount on membership dues when they join EWB-USA. ASME members can now join EWB-USA as a Professional Member for \$80 (\$20 off the regular cost), or as Supporting Member for \$60 (a \$15 savings). For additional information on enrolling in EWB-USA, visit www.asme.org/membership/Members_Can_SAVE_20_EWBUSA.cfm.

For more information on Engineers Without Borders-USA, visit www.ewb-usa.org. To find out more about ASME's partnership with EWB-USA, visit www.asme.org/Communities/Students/Undergrad/Engineers_Borders_2.cfm.

EWB-USA International Student Conference

March 24-27, 2011

<http://www.ewb-usa.org/conference/2011>

**Inspirational Engineering:
Empowering Global Communities through Transformative Leadership**

Join us in Louisville, KY, USA!

Sign up now for your discounted ASME/EWB-USA joint membership!

http://www.asme.org/Membership/Members_Can_SAVE_20_EWBUSA.cfm

2010 ASME Boiler Pressure Vessel Code Now Available

The 2010 edition of the ASME Boiler and Pressure Vessel Code, including updates and revisions to meet changes industry practices, is available for purchase.

The code establishes rules of safety relating to the design, construction, operation, testing, and maintenance of boilers, transport tanks, nuclear power plant components, and other pressure systems.

Previously issued in 2007, the new code incorporates many changes that reflect advancements in design, materials, construction methods, and applications. The 2010 edition contains changes and revision in eleven of its twelve sections, including new specification and rules addressing nondestructive evaluation, nuclear components, welding and brazing, and ferrous and nonferrous materials. For more information on the ASME BPVC and for orders and details, visit:

<http://campaign.asme.org/bpvc10/home.cfm?track=go.asme.org>

Don't miss the upcoming IGTI Webinars:

Engineering Ethics in Action Webinar -
March 16, 2011, 11:00 AM EDT

Introduction to Compressor Aero Design and
Performance Webinar - March 23, 2011,
11:00 AM EDT

For more information and to register, visit:
<http://igti.asme.org/>.

Register today for the Introduction to Compressor Aero
Design and Performance Webinar, March 23, 2011,
11:00 AM - 12:00 PM EST

Course Overview:

The focus of this presentation will be aerodynamic fundamentals of how compressors work, how they are designed, how their performance is evaluated, and how they operate in the field. This introductory webinar is targeted to engineers with an interest in gas turbine engines and their operation.

Each registered attendee will receive one Professional Development Hour (PDH) and an electronic certificate of completion.

Instructor Profile:

Patricia Cargill holds a BSME from Iowa State University. She has thirty years experience in fan & compressor aerodynamics, at Garrett and at GE Aviation. Cargill is currently the manager of the Fan & Compressor Aero Design group at GE Aviation in Evendale, Ohio.

**Lead Today!! Shape Tomorrow!!
Run for ASME Office!**

The 2011 Nominating Committee is seeking highly qualified leaders to become ASME Society Officers.

Selection for the open positions below will take place at the Annual Meeting in June 2011.

President

Board of Governors – 3 positions to fill

Vice Presidents – 1 position for each Unit

VP Centers – Education

VP Standards and Certification – Safety Codes and Standards

VP Standards and Certification – Conformity Assessment

VP Institutes – International Gas Turbine Institute

VP Knowledge and Community – Programs and Activities

VP Knowledge and Community – Technical Communities

VP Strategic Management – Government Relations

For more information contact RuthAnn Bigley at bigleyr@asme.org



Member Savvy

The Value of ASME Membership



Benefit Spotlight: Work Smarter with ASME

“I’m proud to be a mechanical engineer because we make mechanical things that do laborious work – so we do less laborious work. With the extra time – we go on and make more things that do more complex work – and so on!”
Paul L. Dreyer, PE ~ ASME Member since 1978

Dear Members,

Each time we conduct a member survey and ask why you joined the Society and what benefits you value most from your ASME Membership, two things always stand out; access to technical information and sharing ideas and experiences with a community of like-minded individuals. Today’s Member Savvy focuses on both of these benefits – first, an incredible source of online technical information and powerful analytical tools, a terrific way to connect with other members and help them make a difference in their professional lives (or in yours). Best of all, both of these benefits are FREE for ASME Members!

The Enhanced ASME e-Library

The e-Library, powered by Knovel, provides members with unlimited access to more than 75 engineering books and reference titles, many with built-in interactive calculators, graphs, tables and analytical tools.

Recently, Knovel upgraded the e-Library so browsing and searching for topics is easier and more powerful than ever before. Plus, you can customize your e-Library experience with MyKnovel. You can save your searches, favorite books, interactive tools, or clip outside content to create virtual project folder to always have-access to your most used information, at home or work.

Thousands of ASME members have already taken advantage the e-Library. If you haven’t tried it yet, there is no better time than now. Simply log-in to your Members Only page at <https://my.asme.org> and click on the link for the e-Library. Spend a few minutes browsing the titles and explore what interests you, or take one of the video tutorials on the site. Pretty soon you’ll be solving problems faster, working smarter, and enjoying the extra free time you’ve earned.

Announcing ASME’s NEW Mentoring Program

ASME is piloting a new Mentoring Program in partnership with WisdomShare™, a Web-based platform that matches the expertise and experience of seasoned leaders with the talent that is critical to the engineering field’s success, now and in the future. We invite you to become a mentor or a mentee by going to: <http://go.asme.org/mentoring>

The ASME Mentoring Program is designed to facilitate experiences that both mentor and mentee can learn and grow from. This is a unique opportunity for you to either gain career-guiding insight and advice from an engineering professional with more or different experience, or share your own valuable insights with another engineer. WisdomShare’s targeted matching does a great job pairing you with another ASME Member who can truly be a valuable partner in your career, and help you work smarter.

As always, *thank you* for your continued loyalty to ASME and for your support of the engineering profession. Feel free to contact me at membership@asme.org and let me know how we can enhance your experience. Please remember, a successful career takes talent, intelligence and ASME Membership!

Warmest regards,

Mike

Michael Kreisberg
Director, ASME Membership Development

FWCS-ASME

“The sky is open to those who have wings. ”

“Several eyes see more than only one”

– Latin Proverbs-

If you have a job posting, open career opportunity, want to sponsor an event organized by FWCS, or want to share an idea on a possible tour/event, give us your thoughts and e-mail the newsletter chair at: krstanoskim2@asme.org.

We welcome your feedback, ideas and suggestions for future issues.

FWCS-ASME Officers and Committee chairs

Chair: Elizabeth Vincourek e-mail: evincourek@yahoo.com	Vice Chair: Steve Elting e-mail: steve@eltingmechanical.com	Vice Chair Programs Magdalena Krstanoski e-mail: krstanoskim2@asme.org	Treasurer: Matthew Montgomery e-mail: matt.montgomery@mcst.com
Secretary: Paul Stevenson e-mail: stevensonp1@asme.org	Director: John Mulvihill e-mail: mulvihillj@asme.org	Director: Bob Andrew e-mail: andrewr@asme.org	Director: Billy Adkins e-mail: billy_adkins_57@yahoo.com
Immediate Past Chair / Director: Pete Grotsky e-mail: grotskyp2@asme.org	Webmaster: Dr.Autar Kaw e-mail: kaw@eng.usf.edu	TBEWB Chairs: Elizabeth Vincourek / Pete Grotsky e-mail: evincourek@yahoo.com / grotskyp2@asme.org	Newsletter Committee Chair: Magdalena Krstanoski e-mail: krstanoskim2@asme.org