

Monday, October 17 Meeting: Biotechnology/ ORNL



Courtesy Oak Ridge National Laboratory

Presented by
Dr. Mark E. Downing
Group Leader Bioenergy Resource and
Engineering Systems Group
ORNL

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THE INSIDE SCOOP

The Bioenergy Resource and Engineering Systems Team is an interdisciplinary team of Economists, Agricultural engineers and natural scientists. They address issues of Biomass feedstock resources and the logistic and environmental effects of supplying biomass to facilities that use biomass to produce: fuels, power/heat or bioproducts.



Courtesy Idaho National Laboratory

More recently, the team focus is: Biomass Resource Economics and Supplies, Supply Chain Logistics Modeling, Environmental Effects and Sustainability of Biomass supplies, International Resource and Environmental Analysis, NEPA Support to the Department of Energy Integrated Biorefinery projects, and support to the Sun Grant Initiative/DOE/USDA Regional Feedstock Partnerships.

NEW FACES OF ENGINEERING COLLEGE EDITION

APPLY BY FRIDAY, OCT 21



North Carolina A&T students celebrate a victory at an ASHRAE conference.



Colorado State University students design a robot at an ASME competition.

Submit your application to the New Faces of Engineering College Edition recognition award!

This national initiative recognizes the best and brightest 3rd, 4th, and 5th year engineering students, whose academic successes and experiences in the engineering field have positioned them to start making an impact. *Is that you?*

Winners will be:



Featured in their engineering society's journal, website and social media



Listed on the winners tab of the College Edition's Facebook page



Featured in their college & local newspapers



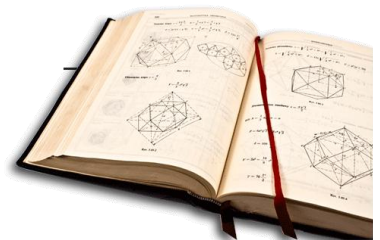
Eligible for a scholarship! *

VOTE NOW!!

Names and Bios of the **Nominees for Society Office** for terms beginning in June 2012 are [now available online](#).

Ballots are included in your 2011 September issue of the Mechanical Engineering Magazine and are due on or before October 21, 2011. Online Voting is not available.

You have the power to shape the future of ASME.



Discover "E" Educator Recognition Awards

Kicking off during Engineers Week 2012, the Discover "E" Educator Recognition Awards are aimed at recognizing and celebrating exceptional STEM educators and their practices, in formal classroom settings featuring hands-on engineering projects. The Discover "E" Educator Recognition Awards will identify and highlight up to three exceptional teachers who are helping their students excel in STEM subjects (with a particular focus on those who are bringing hands-on engineering projects into the classroom) despite budget cuts, restrictive teaching standards and a host of other issues.

[Do you know any great educators who are worthy of recognition? Nominate them today! Nomination forms available soon!](#)

Proud to be an ASME Member!

Are you proud to be an ASME Member? Please take a minute to click on this button to share what ASME Membership means to you and your professional career. We may even share your comments by posting your testimonial on the ASME.ORG membership pages!

ASME Social Meetup for Early Career Engineers

2011 ASME International Mechanical Engineering Congress & Exposition



Join the Committee on Early Career Development and the ECLIPSE Intern Program Committee for a special Networking Experience!

Meetup with other engineers with similar interests to network professionally and make new connections with ASME leadership and/or renew past friendships.

Bring plenty of business cards for networking!

R.V.S.P on Facebook at <http://on.fb.me/nTQfOJ>

This event is held in conjunction with the 2011 ASME International Mechanical Engineering Congress & Exposition: <http://bit.ly/nPGX8M>

Denver, Colorado
**Hyatt Regency Denver at
Colorado Convention Center**
650 15th Street

Sunday, November 13, 2011
8:00 PM–10:00 PM

Meetup Highlights

- Opportunity to get connected with fellow early career engineers before the conference begins
- ME Department Heads from various universities will be on hand distributing information on **graduate education and entry-level faculty openings**
- Meet current and past members of the ECLIPSE Interns in association with the VOLT Academy
- **Business Card Raffle for the iPad2**
(must be present to win)





[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. The Congress convenes engineers, scientists and technologists of all disciplines for the purposes of exploring solutions to global challenges and for the advancement of engineering excellence worldwide.

Keynote Event: "Energy and Water: Two Vital Commodities"
Monday, November 14
8:15am - 9:30am

In a world with limited resources and growing energy needs, both the energy sector and all other industries, whether they produce food supplies, manufactured goods or transportation services, compete for the public's need for access to clean water and other essential systems affecting the quality of life. This year's keynote panel of experts will continue the exploration of the energy-water nexus begun with ASME's Energy Grand Challenge roadmap and discuss how these vital commodities share an important interdependence.

Keynote Panel:

John G. Voeller, Black & Veatch; **Mike Hightower**; Sandia National Laboratories; **Michael Webber**, University of Texas at Austin, Center for International Energy and Environmental Policy



The Future City Competition is just one of several National Engineers Week initiatives [learn more >](#)

The 2011 ASME Honors Assembly – “A Celebration of Engineering”

All Congress attendees are cordially invited to attend the 2011 ASME Honors Assembly to be held Nov. 14 at the Colorado Convention Center in Denver. The Honors Assembly, held each year in conjunction with the ASME Congress, is a multimedia program that showcases the work and contributions of some of today’s leading engineers, educators, entrepreneurs and innovators. The ASME Honors and Awards program recognizes distinguished service to ASME, outstanding engineering accomplishments and lifetime achievements. Admission to the Honors Assembly is free to all Congress attendees. A reception will follow the program. The Honors Assembly will begin at 5:30 p.m. and is sponsored by the ASME Committee on Honors.

This year’s honorees include:



Dixy Lee Ray Medal
Admiral Thad William
Allen
RAND Corporation



ASME Medal
Clayton Daniel Mote Jr.,
Ph.D., Fellow
University of Maryland



Kate Gleason Award
Yvonne C. Brill
Aerospace Consultant

Melvin R. Green Codes and Standards Medal

Thomas P. Pastor, P.E., Fellow
HSB Global Standards

M. Eugene Merchant Medal of ASME/SME

Ranga Komanduri, Ph.D., Fellow
Oklahoma State University

Ralph Coats Roe Medal

Ioannis N. Miaoulis, Ph.D., Member
Museum of Science, Boston

Honorary Member

Adrian Bejan, Ph.D., Fellow
Duke University

Honorary Member

Joseph A. Falcon, P.E., Fellow
J.A. Falcon & Associates

Honorary Member

Nathan H. Hurt, P.E., Fellow
Retired

Honorary Member

Junuthula N. Reddy, Ph.D., P.E., Fellow
Texas A&M University

Honorary Member

Paul J. Torpey, Fellow
Retired





Member Savvy

The Value of ASME Membership



October 2011

Benefit Spotlight: “Share” and Take ASME Viral!

“I am proud to be an ASME member because it strengthens my ties to Mechanical Engineering, which is my passion and my career. ASME membership gives me a sense of being in a community where there are other people sharing the same interests and ideas. I always encourage my students to be actively involved because ASME keeps engineering students motivated to learn about the latest technologies and opportunities in the Mechanical Engineering field.”

Dr. Mohammad Hamdan ~ ASME Member since 2009

Assistant Professor - Mechanical Engineering Department, UAE University

Dear Members,

“Facebook, LinkedIn, Twitter, YouTube, StumbleUpon, Tumblr, Reddit, Blogger...”

A few years ago these brands didn't exist. Yet today these words are part of our daily vocabulary, and for many, these websites are integrated into our regular online activities. So what is so important about these sites that I am writing about them in this month's *Member Savvy*? It is the power they have to reach millions of people and the ability to share the stories we enjoy or articles we find interesting with friends, colleagues, family and even strangers. This worldwide phenomenon is often called “going viral,” and ASME has now embraced this movement by providing you with the opportunity to share the content you read on www.asme.org with millions of other engineers around the world.

As you may know, ASME's website (www.asme.org) has been completely re-engineered. The newly designed website focuses on engineers, the engineering profession and the changing world around us. The site is organized by topic and industry, with original stories and technical content sharing the same space with cutting edge news and articles that affect engineers globally. If you haven't already visited ASME.org, I strongly encourage you to do so as soon as possible.

And when you do visit the website, you'll notice a set of icons or buttons at the top of each article. These icons allow you to share content with people you know. You can email an article, post a story or video on your Facebook wall or LinkedIn page or tweet about the story with a link on your Twitter feed. There are many more sharing choices and options on the article pages. Just by clicking on one of these buttons you can take ASME “viral” and get content seen by thousands (or millions) of people around the world.

“Share” on ASME.org and help your professional Society “go viral” today!

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

Warmest regards,

Mike

Michael Kreisberg
Director, ASME Membership Development

Inspire Innovation Workshops: Connecting K-12 Educators and Engineers

For more than 15 years, ASME has hosted teacher workshops to bring hands-on engineering activities to K-12 classrooms and to bring teachers and engineers together. EWeek 2012– through its coalition of engineering associations, corporate, and government partners – offers a unique forum to celebrate and highlight these grassroots-level initiatives and to gather resources for local engineering groups to connect with educators. Developing a skilled workforce through strengthening K-12 STEM education and supporting educators is a goal shared by all E-week partners around the globe. [Inspire Innovation Workshops](#) and ASME are helping educators reach children.



Hey, Volunteers! Get Involved with E-Week 2012:

CELEBRATE VOLUNTEERISM

National Engineers Week February 19-25, 2012



1. The 100th anniversary of powered, piloted flight was celebrated in 2003. Check out the history of aviation and share the excitement of a [flight simulation of the original Wright Flyer](#).
2. Check the National Engineers Week Internet site - www.eweek.org -weekly to find out what's new and what activities have been added to the "[Featured Local Activity](#)."
3. Introduce a Girl to Engineering! Use the free EWEK "[Introduce a Girl to Engineering Day](#)" kit or place a public service announcement in your local movie theater.
4. Volunteer to help a local middle school participating in the National Engineers Week Future City Competition™. Or, you can help sponsor a prize or judge a local contest. You may even win a trip to Washington, D.C.! Visit www.futurecity.org
5. [Contact a teacher](#) or principal to speak at a local elementary, middle or high school and provide [hands-on experiments](#) relevant to engineering and careers.

6. Visit Internet sites of your [professional and technical organizations](#) to see what they are doing for Engineers Week. If they don't show anything, help create ideas and suggest they link to www.eweek.org!
7. Enter news of your local activities on the www.eweek.org [database](#) and enter your name as a local contact
8. From Jeremy Hubers: Get involved with a volunteer organization such as Habitat for Humanity and represent your engineering chapter with a volunteering spirit.
9. Visit the online [Sightseer's Guide](#) to family-friendly engineering-related travel attractions and [suggest an interesting landmark](#) or attraction in your community as an addition to the Guide. Suggested sites must be accessible to the general public."
10. Contact the Junior Engineering Technical Society (www.jets.org) to request guidance brochures for various engineering disciplines and explore high school programs.

For [90 additional ways](#) to get involved with E-Week 2012, visit eweek.org.

October Presenter Bio



Our speaker, Dr. Mark E. Downing is the Group Leader of the Bioenergy Resource and Engineering Systems Group for the Environmental Sciences Division at Oak Ridge National Laboratory. Mark is an ORNL Subject Matter Expert and works closely with engineers. As such, he is responsible for oversight of the integration of science and research in the areas of feedstock resource analysis, engineering and logistics modeling, GIS data management, environmental effects research, international environmental and resource analysis, and NEPA project support for the Integrated Biorefinery.

His formal education includes a Ph.D. in Agricultural Economics in 1992 from Texas A&M, an M.S. Ag Economics in 1987 from the University of Tennessee, and a B.S. in Agriculture, 1977, University of Vermont.

Early Career Engineer Bios (ASME Atlanta Chapter)



Armond Lemon:

“I am currently an international revenue and competitive analysis specialist at Delta Air Lines and I am also pursuing my MBA from the Goizueta Business School of Emory University. I received my bachelors of Science degree from Georgia Tech back in 2004. Working with ASME has helped to develop new leadership and time management skills in me. Working with and learning from the vast ASME member base has been a great experience for me and great motivation in achieving my professional engineering licensure. I hope to continue to work with fellow ASME members many years into the future so I may continue to expand my network, knowledge, and potential for helping others.”



George Heller:

“I graduated from Florida State University with a Bachelors in Mechanical Engineering in 2009. During school I was involved with several student groups, including ASME, SAE, and SWE, as well as being an active member of the professional section of ASME in Tallahassee. After graduating, I worked for the dielectrics laboratory with the Center for Advanced Power Systems working on material research for superconducting insulators. In the summer of 2010 I accepted a position with HydraulCircuit Technology in the Atlanta area.

ASME has helped tremendously in professional networking. ASME events in both the student and professional sections have exposed me to professionals I would not normally have contact with, as well as exposing me to a variety of technical fields. The presentations have always given me something to look into. The Early Career Engineer meetings have been a great asset in both networking with other young engineers and resume writing techniques.”

Early Career Engineer Bios (ASME Atlanta Chapter)



Atuanya "Tuan" Thomas:

"I graduated from Morehouse College with a Bachelors of Science in Physics in the spring of 2009. During college my interests spanned a vast array of topics including Mechanical Engineering and investment banking. Currently, I am pursuing a Masters Degree in Mechanical Engineering and a Graduate Certificate in Financial Engineering at the Missouri University of Science and Technology (formerly, The University of Missouri-Rolla), through their distance learning program. My M.S ME concentration is in the area of composite materials and structures. My graduate research is in field of computational methods to predict composite lamina failure. Beyond the former interests, I own and operate a high performance automotive customization shop in Lithonia, Georgia with my brother.

Since becoming a member of the organization, ASME has afforded me extraordinary opportunities. The opportunities range from being able to network with Atlanta's top engineers to the ability to build organizational leadership skills. Both of which are invaluable to my natural progression and overall growth."

ASME Atlanta Executive Committee 2011-2012

Officers	Name	E-Mail
Chair	John Hriczo	Jack@6SigmaInc.com
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Past Chair	Laura Baum	Baum.Laura.J@gmail.com
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Director	Connie Rimes	rimesc2@asme.org

Upcoming Meetings and Events

November 14, 2011- Energy Sustainability
December 3, 2011- PDH Seminar at Southern Polytechnic State University
December 12, 2011- FAA Air Traffic Control Update Project Presentation
January 13, 2012- "Growing Field of Robotics" Presentation
February 13, 2012- Ancient Egyptian Engineering (E-week special presentation)
March 12, 2012- Plant Vogel Design Presentation
April 9, 2012- Biofuels Presentation
May 14, 2012-Sunivia Solar Presentation
TBA- Sweetwater Brewery Tour and Networking Event

NOTES

The Atlanta Section May meeting included a presentation by the Kell Robotics Team which we help with support. You may now view this presentation on youtube:www.youtube.com/watch?v=vInYAZHcoY0