



**THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS®**

**Central Oklahoma Section Newsletter**  
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The Section is located at: Oklahoma Engineering Center, 201 Northeast 27<sup>th</sup> Street, Oklahoma City, OK 73105

The Central Oklahoma Section Newsletter is nominally published nine times per year to convey monthly meeting dates, meeting topics, section activities, and/or other ASME information to its membership.

**Program:** **Tour of the Samuel Roberts Noble Foundation in Ardmore, OK**    **Date:** Thursday, May 28, 2009  
**Hosts:** **Mr. J. Adam Calaway**, Director of Public Relations, and **Mr. Donnie Offield**, Utility Services Manager

The Samuel Roberts Noble Foundation is an independent, nonprofit institute conducting plant science research, forage improvement and agricultural programs to enhance agricultural productivity. Founded in 1945 by visionary oilman and philanthropist Lloyd Noble, the Noble Foundation’s early efforts focused on educating and encouraging area farmers and ranchers to practice land stewardship and resource conservation.

Today, the Noble Foundation has 365 employees representing more than 25 countries. The Foundation is recognized as a foremost comprehensive agriculture and plant science research institution capable of coordinating the movement of discoveries from the laboratory to the field to benefit livestock, agricultural producers, and consumers.

Our ASME Section has been invited to tour the Noble Foundation facilities. During our tour, participants will visit the Noble Foundation’s greenhouse – one of the largest research greenhouses in North America. Visitors will also tour through most of the Noble Foundation’s new campus, which was constructed through the last seven years as part of a \$100 million initiative to expand the organization’s campus and capabilities. Additionally, our group will have an opportunity to visit Utility Services Center – the Noble Foundation’s redundant power station – and stroll through more than 1,200 linear feet of underground tunnels!

Please join us on May 28 for this terrific tour to cap off a great 2008-2009 ASME-COS program year!

**Time:** 6:00 - 6:30 PM: Meet & Register at Noble Foundation PAVILION (see map page 2)  
 6:30 – 7:00PM: Catered Meal & Short Presentations                      7:00 – 8:30PM: Tour  
**Cost:** \$10 for Sr. Members, \$5 for Student Members. Please place your reservation with Albert Janco (Ph: 405-848-1991 (leave message); e-mail: JANCOA@asme.org) by Tuesday, May 26 at NOON.

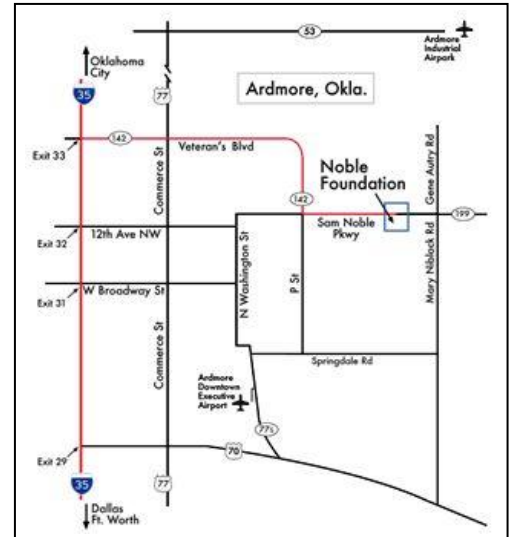
<p><b>2008-2009 COS Executive Committee</b></p> <p><b>Officers</b></p> <p><b>Curtis Vickery, Ph.D., P.E.</b> ..... Chair                  Cameron Compression Systems                  Bus: 405-619-5013 ; Fax: 405-619-5081                  e-mail: vickeryc1@asme.org</p> <p><b>OPEN</b> ..... Vice-Chair  <b>VOLUNTEER NEEDED!!!</b></p> <p><b>John McCachern, P.E.</b> ..... Treasurer                  Alcatel-Lucent Technologies                  Bus: 405-302-1651; jmccachern@alcatel-lucent.com</p> <p><b>Tom Betzen, P.E.</b> ..... Secretary                  Michelin North America                  Bus: 580-221-2280 ; Fax: 580-221-8586                  e-mail: betzent2@asme.org</p> <p><b>Albert Janco, P.E.</b> ..... Program Chair                  Consulting Engineer                      Membership Chair                  Bus: 405-848-1991 ; Fax: 405-843-6244                  e-mail: JANCOA@ASME.ORG</p> <p><b>Elizabeth Schwartz</b> ..... Webmaster                  Ford Audio-Video Systems                  Bus: 585-945-2057 ; schwartz3@asme.org</p> <p><b>Ed Reynolds</b> ..... Honors &amp; Awards                  Ph: 405-721-6753 ; edwin_c_reynolds@yahoo.com</p>			<p><b>Directors</b></p> <p><b>Mike Frey</b> ..... Professional Development                  Bus: 405-736-3368 ; freym1@asme.org</p> <p><b>Frank Parker, P.E.</b> .....Scholarship                  Bus: 405-739-1813 ; frank.j.parker@gmail.com</p> <p><b>Doug Brown, P.E.</b>..... ASME Vice-President                  Ph: 580-536-0363 ; brown919@asme.org</p> <p><b>Vladimir Yun</b> ..... College/industry Relations                  Bus: 580-251-4014 ; vd_yun@yahoo.com</p> <p><b>Nathan Weber</b> ..... Past Chair                  Bus: 405-419-6305 ; webern2@asme.org</p> <p><b>Frank Chambers, Ph.D., P.E.</b>..... Director                  Bus: 405-744-5901 ; chambersf@asme.org</p> <p><b>Wendell Cavin, P.E.</b> .....Director                  Bus: 405-291-5586 ; wendell.cavin@att.com</p> <p><b>Jamal Siddiqui</b> ..... Director                  Bus: 405-739-5456 ; siddiquij2@asme.org</p> <p><b>Ed Root</b> ..... Director                  Phone: 405-946-3254 ; emroot@cox.net</p> <p><b>Tommy Lear, P.E.</b> ..... Director                  Bus: 405-739-1827 ; thomas.a.lear@boeing.com</p> <p><b>Bill Green, P.E.</b> .....Director                  Phone: 405-728-5849 ; wgreen@cox.net</p>			<p><b>John Heaton</b> ..... Director                  Bus: 580-251-4166 ; heatonj2@asme.org</p> <p><b>Ex-Officio Directors</b></p> <p><b>Byron Newberry, Ph.D.</b>..... OC                  Bus: 405-425-5428 ; byron.newberry@oc.edu</p> <p><b>Sub Gollahalli, Ph.D., P.E.</b> .....OU                  Bus: 405-325-1728 ; gollahal@ou.edu</p> <p><b>Larry Hoberock, PhD, PE</b> ..... OSU-MAE                  Bus: 405-744-5900 ; lhobero@okstate.edu</p> <p><b>Jim Bose, PhD, PE</b> ..... OSU-MET                  Bus: 405-744-9458 ; jbose@okstate.edu</p> <p><b>Past Chair</b></p> <p><b>Stan Wells</b> ..... Consulting Engineer                  Ph: 405-330-4769 ; wellss2@asme.org</p> <p><b>Faculty Advisors</b></p> <p><b>Wayne Whaley, Ph.D., P.E.</b> ..... OC                  Bus: 405-425-5424 ; wayne.whaley@oc.edu</p> <p><b>David Miller, Ph.D.</b> .....OU                  Bus: 405-325-1094 ; dpmiller@ou.edu</p> <p><b>Hongbin Lu, Ph.D.</b> .....OSU-MAE                  Bus: 405-744-5900 ; hongbin@okstate.edu</p> <p><b>Rick Beier, Ph.D.</b> ..... OSU-MET                  Bus: 405-744-9371 ; beierr@okstate.edu</p>		
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## ADDITIONAL MAY MEETING INFORMATION



Mr. Adam Calaway (pictured at left) and Mr. Donnie Offield (picture not available) will serve as our hosts. They will offer short introductory presentations during our meal time.

At right is a map giving directions to the Noble Foundation, 2510 Sam Noble Parkway (this map is also available at <http://www.noble.org/Admin/Contact/Ardmore.htm>). From OKC, use Exit 33 (OK S.H. 142). Follow Highway 142 east, bending south, to Sam Noble Parkway. Turn east and until you arrive at the Noble Foundation. **The PAVILION is clearly marked from the street.**



## 2009 ASME-COS HONORS & AWARDS RECIPIENTS

Highlighting our April Section meeting was our annual Honors and Awards. ASME Senior and Student awards went to the following recipients:

- ASME 25 Year Members: **James D. Baldwin**, Ph.D., P.E. and **Edward A. Durell**, P.E.
- ASME Life Members: **Lawrence J. Cammuso**, P.E. and **Jack T. Coffman**
- Tom J. Love Award: was awarded to University of Oklahoma student **Caleb Harris**
- James H. Boggs Award: was awarded to Oklahoma State University-MAE student **Eric Provo**
- Outstanding Student Award: was awarded to Oklahoma State University-MET student **Joshua Grantham**
- \$500 ASME-COS Scholarships: were awarded to **Briana Branesky** (OU-AME), **Landon Cardwell** (OSU-MET), **Lara Killingsworth** (OC Mech. Engr.), and **Andrew Gray** (OSU-MET).

**Congratulations to all our 2008-2009 Honors and Awards recipients!**

Please check out for this **Mechanical Engineering Webinar Series** event sponsored by COMSOL and AltaSim Technologies:

### "Multi-physics Simulation of Acoustics"

May 21, 2009 ; 2:00-3:00 p.m. ET

Click here to register today: <http://www.memagazine.org/webinar.html>

The breakthrough of multi-physics simulation tools brings amazing opportunities to engineers and scientists in the area of acoustics and vibrations. This webinar gives you an overview of new acoustics modeling capabilities and how you can benefit from using multi-physics simulation applied to devices that generate, measure, and use acoustic waves.

**Examples to be covered:** • Acoustic-structure interactions, • Aero-acoustics, • Elasto-acoustics & non-destructive testing (NDT), • Noise and vibration of mechanical components, • Piezo-acoustic devices and MEMS acoustics sensors, • Sonar response simulation.

**Who Should Attend:** Professionals in the following fields: • General R&D, • Electronics, • Aerospace, • Chemical, • Process Industries, • Manufacturing, • Utilities, • Automotive, • Defense.

**Moderator:** John G. Falcioni, Editor-in-Chief and Publisher, *Mechanical Engineering Magazine*

**Speakers:** John Dunec, Branch Manager, COMSOL, Inc., Palo Alto, CA  
 Kyle Koppenhoefer, Principal, AltaSim Technologies, LLC Columbus, OH



## OSU Aerospace Engineering Students Take Honors at AIAA Design Competition

The article below is from the April 23, 2009 edition of the *Daily Oklahoman*. Congratulations to all OSU students and faculty involved in these projects. These students did great work!

4B THURSDAY, APRIL 23, 2009

BUSINESS: STATE

STUDENTS PLACED FIRST, SECOND IN INTERNATIONAL COMPETITION

# OSU teams take off in engineering contest

### FROM STAFF REPORTS

**STILLWATER** — Two teams of Oklahoma State University aerospace and mechanical engineering students placed first and second in an international airplane design competition last weekend.

The students competed in the American Institute of Aeronautics and Astronautics Design/Build/Fly International contest in Tucson, Ariz.

OSU Black clinched first place and set a speed record, while OSU Orange placed second.

Competing teams were responsible for building their own unmanned planes and flying them in three missions.

Engineering professor Andrew Arena Jr. has led OSU teams in the competition for 10 years.

This year's competing

team members included James Baugh, Tommy Hong, Roger Pearson, Mark Tannehill, Tessa Morgan, Calvin Brown, Zachary Cooper, Timothy Wigg, Daric Adair, Austin Beerwinkle, Jacob Cala-

van, Ryan Clark, Daniel Dotay, Matthew Grace, Joshua Hathaway, Seth Hayes, Taylor Hopkins, Chirag Kamani, Michael Koehler, Courtney Kroutter, Alan Larson, Trevor Lowe, Sean Maclaskey,

Dustin Mcafoos, Matthew Mckee, Alex Mendelsberg, Ryan Oliver, Jacob Poin-dexter, Saunya Simon, Matt Smith, Andrew Sproul, Andrew Stroup, David Tulloh and Jacoby Woods.



Photos of OSU planes  
(courtesy *Daily O'Collegian*)

## **Alternative Energy's Fortunes Shift with the Winds**

(courtesy *Wall Street Journal* (05/01/09), by: Jeffrey Ball)

The recession is hurting renewable energy companies, according to New England Finance, an industry analyst. It estimates that new investment in clean energy, including wind, solar, and bio-fuels, fell 53 percent globally in the first quarter compared to the same period a year ago. Production cuts and layoffs are also on the rise across the industry. In response, the federal government has pledged to boost its subsidies, with a goal of triggering "green jobs."

The windiest section of the nation is a corridor spanning Texas to the Dakotas. Iowa, which is located in this area, is home to several wind energy companies like Clipper Windpower. The company laid off about 80 workers in January, and now hopes to obtain a loan guarantee through the government's economic stimulus plan. In contrast to the United States, Europe has had a much more reliable renewable energy policy, says Roby Roberts, a senior vice president at Denmark-based Vestas. He says Vestas is now expanding in the United States because the government is becoming more supportive of renewable energy.

<http://online.wsj.com/article/SB124113394573975093.html>

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## **ASME Celebrates 125th Anniversary of Codes and Standards**

[http://www.asme.org/NewsPublicPolicy/PressReleases/Commemorating\\_One\\_Hundred.cfm](http://www.asme.org/NewsPublicPolicy/PressReleases/Commemorating_One_Hundred.cfm)

This year ASME is recognizing the 125th anniversary of its renowned codes and standards activity, with events planned throughout the year that commemorate a rich history of engineering progress, technological safety, and service to industry and government.

A reception to be held June 15 at Desert Springs JW Marriott, Palm Desert, Calif., site of the 2009 ASME Annual Meeting, will honor the ASME volunteers who participate in the Society's codes and standards and conformity assessment programs, which today is a global operation involving more than 4,000 individuals.

The Society's celebration of its 125 years of codes and standards development will be a tribute to the dedicated service of technical experts whose efforts result in internationally accepted standards that enhance public safety and promote global trade. Participants on ASME standards committees and subcommittees include designers, manufacturers, end users, insurance interests, and government representatives who volunteer their time, resources and expertise to ensure equipment reliability, parts interchangeability, and public safety.

"I commend the thousands of individuals who participate in the codes and standards work of ASME," said ASME President Thomas M. Barlow. "Their commitment and expertise are the foundation for the exceptional quality of technical standards that have gained worldwide recognition."

The yearlong celebration also recognizes the responsibility of committee members to ensure that codes and standards are balanced and consensus-based, reflecting the opinions of manufacturers, regulators, consultants, suppliers, and others involved in industry and government.

ASME codes and standards activity began in a period of rising industrialization in the United States and grew in stature and influence as technology changed and new industries were born. Since the publication of the first performance test code 125 years ago, titled Code for the Conduct of Trials of Steam Boilers, ASME has developed more than 500 technical standards for pressure vessel technology, electric and nuclear power facilities, elevators and escalators, gas pipelines, engineering drawing practices, and numerous other technical and engineered products and processes. Today, ASME codes and standards and conformity assessment programs are used in more than 100 countries.

A milestone along the 125-year journey of codes and standards includes the publication of the first ASME Boiler Code in 1914. The Boiler Code was a significant achievement in the history of the American Society of Mechanical Engineers. Today, the ASME Boiler and Pressure Vessel Code has been incorporated into the laws of all 50 United States, and the code is referenced in Canada and other parts of the world.

"ASME's focus on global and accessible standards development complements our vision for technical competence and innovation," said Barlow.



**This month's focus is Networking →→ You should be networking more!**

I hear the word “networking” being used a lot these days. I used to think of networking as being trapped in a roomful of self-promoting insurance salespeople and bankers, who passed out business cards like candy and gave 30 second “elevator speeches” about how their company could save you money.

Over the years, networking has helped me in many facets of my career. I no longer believe those negative stereotypes, and neither should you. I'd like to share a different view of networking with you...the networking opportunities offered by ASME.

Imagine a world of networking where you make meaningful connections with other engineers and technical professionals in a supportive environment. You share ideas, pass along career opportunities and benefit from one another's expertise, working to achieve common goals. You can stop imagining now, and check it out for yourself at ASME!

Here are just some of the many ways you can network as a Member of ASME:

**Section Networking:** Organized geographically, these groups offer local area networking opportunities at meetings and events throughout the year.

**Technical Division Networking:** ASME Members are able to join up to five (5) technical divisions as part of their membership benefits. Specialized conferences, events and discussion groups provide you with access to professionals working in the same field.

**Online Networking:** Participation in ASME's PeerLinkSM Communities of Practice forums, gives members access to the latest, up-to-the-minute discussions about a wide range of important topics. There are also ASME groups on popular social networking sites like LinkedIn & Facebook.

**ASME Member Directory:** Find and contact other ASME members and mechanical engineering professionals using this members-only resource.

**Volunteer with ASME:** Another great way to build your professional network, gain new experience and give back to the mechanical engineering profession "for the greater good". ASME has many ways that members can donate their time, knowledge and expertise.

In hard times, we can't afford to retreat into a shell; we have to reach out more than ever to lift each other up. Please reach out and get involved in your Society, at <https://my.asme.org> and we will help you extend your circle of friends and associates, building valuable relationships that will enhance your personal growth and professional success!

As always, feel free to drop me a note at and let me know what you think.

Michael Kreisberg

Director, ASME Membership Development ([membership@asme.org](mailto:membership@asme.org))

## LOCAL ENGINEERING JOB OPENINGS / SITUATIONS WANTED

Following up to Mr. Kreisberg's column above, this “Situations Wanted” column is available to any ASME-COS member needing employment. *Situations Wanted* briefs effectively alert our membership to fellow members' situations which in turn may lead to positive networking. You never know what potential employer might be reading our Newsletter!

In addition, we will continue to list Job Openings as they become available. Please e-mail comments or suggestions to me at [vickeryc1@asme.org](mailto:vickeryc1@asme.org).

## Chair's Corner

**Dear ASME-Central Oklahoma Section Members:**

Hello everyone! Hope you all are well as our ASME-COS program year winds down. Our program year began like a house-a-fire with businesses operating full-bore and folks going full-throttle to get everything done. Then the national economy began to slow. In spite of this we've been very fortunate here in Oklahoma to have a relatively steady economy. Let's hope that Oklahoma industry remains afloat until the national economy fully recovers!

Our April Honors & Awards meeting was very good, with a good number of student members, senior members, Emeritus Faculty from our local universities, and guests. Oklahoma AIAA Section members also joined us for this annual event. Honorees are listed on page 2. We very much appreciate our speaker, Mr. Michael Carolina, and his presentation on OCAST's role in Oklahoma's technology development. Mr. Carolina was busy answering questions long after our meeting adjourned!

Over the summer our Executive Committee will consider a number of endeavors including **fund raising** (to replenish our Scholarship fund), presentation of **Professional Development short-courses**, and **informal gatherings** (such as Red Hawks baseball). Summer, usually a "down" period, may be a good time to hold such events. What do you think? What short courses (≈8-hours maximum) would be of interest? Send your opinions & ideas to me at [vickeryc1@asme.org](mailto:vickeryc1@asme.org). **As these efforts unfold I will use ASME-s Section-wide e-mail server to send out notices. Please let me know if you are not receiving such notices.**

Take note of our upcoming Noble Foundation tour on May 28. This is a great way to end our program year! Ardmore is a relatively short trip for most of us – jump in the car and go. **If car-pooling is needed please contact me so we can work on accommodations.**

Thanks for your continued membership in ASME and we look forward to seeing and corresponding with you all during the coming summer months!

**Curtis M. Vickery, Chair**

### Future ASME-Central Oklahoma Section Events

Date	Location	Program Topic and Speaker
Thursday May 28, 2009	Noble Foundation Ardmore, OK	<b>May Section Tour:</b> Tour of the Noble Foundation Ardmore, OK.

**Please visit our Section website <http://sections.asme.org/CentralOK/>  
for event updates and other useful information!**