



## 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.

### WE WILL NOT HAVE A NOVEMBER/DECEMBER SECTION MEETING

as difficulty was encountered in arranging a preferred program, date, and location.

Section meetings will resume Thursday, January 29, a joint meeting with the Oklahoma AIAA Section. Our speaker will be **Mr. Tom Betzen**, Engineer with Michelin Tire in Ardmore, OK. His program is on Michelin Progress in Green Tire Technology.

### **Stillwater Area Members Note: Judges needed for OSU-MET Sr. Design Presentations**

OSU Mechanical Engineering Technology (MET) Senior Design Project presentations will be held on Tuesday, **December 2 from 1:45PM to 5:00PM** at the OSU Petroleum Building northwest of campus. They need a few seasoned engineers to ask good questions of students and critique presentations. If you're available and could help please contact Professor Richard Beier, OSU-MET, phone: 405-744-9371, e-mail: [be ierr@okstate.edu](mailto:be ierr@okstate.edu).

### CALL FOR 2009-2010 SECTION OFFICERS

It's once again time to identify and nominate Section officers. We need candidates for: Chair, Vice-Chair, Treasurer, Secretary, and Directors. New officers are needed to bring new ideas to assist our planning efforts. As always, our quest to advance and promote the Mechanical Engineering profession, here in Oklahoma, that has been so good to us all. Will you join in and help us? For more information please contact any Executive Committee member below.

#### 2008-2009 COS Executive Committee

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## **Amos E. Holt to Serve as ASME President in 2009-2010**

**NEW YORK, Nov. 3, 2008** – Amos E. Holt, vice-president of Environmental, Safety and Quality Systems for Southwest Research Institute® (SwRI) in San Antonio, Texas, has been named president-elect of ASME. The Society made the announcement on Oct. 31, during the proceedings of the 2008 ASME International Mechanical Engineering Congress and Exposition in Boston.

Holt, a fellow and honorary member of ASME, will become the Society's 128th president when he begins his one-year term in June 2009. He is a technical expert in the areas of nondestructive evaluation (NDE) and advanced engineering materials. At SwRI, Holt is responsible for implementing environmental, safety, and quality systems to meet client requirements and all applicable governmental standards, regulations, and codes.

Prior to joining Southwest Research Institute in 1985, Holt worked as section manager for Babcock & Wilcox, where he was involved in NDE inspections and diagnostic systems. He developed several new products supporting NDE, including an acoustic monitor and modular ultrasonic inspection system for boilers. He also directed electronic and mechanical design operations as well as software development programs.

Holt worked at Babcock & Wilcox for 13 years, during which time he developed his expert skills in NDE, particularly in the areas of ultrasonic imaging and acoustic holography. He has published more than 40 technical papers and articles on acoustic holography and other subjects pertaining to NDE. He holds five patents.

Holt received a B.S. in physics from Arlington State College and master's degree in physics from the University of Texas, Arlington. He continued his education and training at Nova Southeastern University, earning his Ph.D. in computer and information sciences in 1994.

Holt has served in many leadership positions during his 26-year affiliation with ASME, most recently as secretary and treasurer. Holt was named a fellow of ASME in 1993 and honorary member in 2002. He also was a lecturer in the ASME Distinguished Lecturers' Program and in 2000, became a recipient of the Society's Dedicated Service Award.

### **NEWS BRIEFS OF INTEREST**

#### **Analyzer Intended To Detect Surface Weakness As Pavement Is Laid.**

From NSPE's *Daily Designs* publication, November 18, 2008

The [Oklahoma Journal Record](#) (11/18, Chambers) reports, "Through his research at the University of Oklahoma and a partnership with Volvo, [Sesh] Commuri, an electrical and computer engineering professor, is tweaking a prototype of" the Intelligent Asphalt Compaction Analyzer, "a device to test road compaction to detect weaknesses in a surface as it is laid." Commuri, who has a "background in controls and automation," said it was "early in the process but the units could be priced from \$10,000 to \$15,000." The article notes that "devices on the market now can test small areas for compaction through a hand-held device, and other methods include removing a piece of the finished road to test its level of compaction." Commuri called these processes "destructive," and noted the limited amount of data they provide. "When mounted on the roller, the device sends signals into the pavement and relays that vibration information to the operator of the compactor."

#### **Oklahoma Researchers Receive \$20 Million Grant for Biofuels Research.**

From NSPE's *Daily Designs* publication, November 17, 2008

The [Stillwater \(OK\) NewsPress](#) (11/16) reported, "Oklahoma researchers are working to build a stronger economy by developing a better plant and converting that plant into bioenergy with the help of a \$20 million grant. The National Science Foundation and the Oklahoma State Regents for Higher Education gave the Oklahoma Experimental Program to Stimulate Competitive Research a combined \$20 million for biofuels research during the next five years." The grant will be used "to conduct basic research with switchgrass that will allow [researchers] to develop hardier plants, which can later be converted to ethanol, said Yanqi Wu, Oklahoma State University assistant professor of grass breeding and genetics." The NewsPress noted that "researchers will also be working with other plant and feedstock varieties, like Bermuda grass," and "will use the money to hire new faculty, buy supplies and materials, and conduct an outreach education program."

## Great Opportunities, Great Work, Great People: Engineers Without Borders – USA



Engineers Without Borders - USA (EWB-USA) is a non-profit humanitarian organization established to partner with developing communities worldwide in order to improve their quality of life. This partnership involves the implementation of sustainable engineering projects, while involving and training internationally responsible engineers and engineering students.

ASME and EWB-USA have been collaborating for several years on a variety of projects. You can get involved too! EWB-USA offers several opportunities to become involved in building a better world one community at a time, whether you are an engineering student (undergraduate or graduate; a student in some other field of study; a professional engineer or university faculty member; or, not an engineer at all!

There are several EWB-USA workshops taking place this fall around the country. More details on these workshops are available at <http://www.ewb-usa.org/Fallworkshops.php>. To find out how ASME Student Sections can get involved in EWB-USA, contact Marina Stenos at [stenosm@asme.org](mailto:stenosm@asme.org) or 212-591-8614.

A local EWB-USA chapter has been formed. It is one year old this November. They are currently pursuing two lines of activity: (a) providing a liaison/mentor to the OU student chapter while it develops projects and (b) working on an active design project in Guatemala. Their chapter meets on the second Tuesday of each month at the Oklahoma City Utility Departments conference room (420 W. Main St., Suite 500). For more information contact Mr. Harris C. Wilson, P.E., phone 405-848-2471, ext. 22.

## ASME E-Library is Available to Members

The ASME E-Library is a members-only benefit that allows you to access online collections of engineering reference books to help you answer questions and find practical solutions to daily on-the-job problems.

As an added bonus, the ASME E-Library is powered by Knovel, whose interactive and user-friendly technology gives you the ability to manipulate and search for content across the entire collection quickly and easily.

To learn more, go to <http://www.asme.org/Membership/Benefits/Professional/eLibrary.cfm>

## ASME Logoed Products Available from Land's End

**Christmas is approaching!** What better gift for your ASME family members than ASME logoed gifts that are available through *Land's End*. Available products include embroidered polo shirts, embroidered dress shirts, business outerwear, and document bags. Examples of some of the products are shown below.

To order *Land's End* products, login to [asme.org](http://asme.org) with your Last Name and Membership Number. Then at the navigation bar on the top of the screen, go to **Membership >> Benefits >> Discounts & Individual Benefits**. You will see *Land's End* is the SECOND BOX on the main screen. This link will take you to another [asme.org](http://asme.org) page with instructions:

You will be directed to *Lands' End's* web site at [www.landsend.com/business](http://www.landsend.com/business). When you are ready to place your order, be sure to first register your account using **ASME customer # 3698225**, then use **ASME Logo # 0384649** to avoid the one-time set-up fee of \$65 for logos.

Call 1-800-965-3329 for more information.



## Chair's Corner

### Dear ASME-Central Oklahoma Section Members:

Greetings to everyone as Thanksgiving approaches! The holiday season is upon us and you all know what that means. On the home front there's more planning, more obligations, more expenses, yadda yadda yadda. At work there's the usual rush to get product out the door before the end of the year, etc. It's enough to wear a person thin! Good thing we have groups like ASME to help us recharge!

As indicated on page 1, we won't be having a November/December Section meeting this year. We originally wanted to hold this meeting with one of our Student Sections but finding a suitable date was a problem. We later identified a really good speaker with an appealing topic. This fell through, however, when the speaker had potential conflicts on our preferred meeting dates. Then lastly another organization booked the Engineering Center on our preferred meeting date. We did our best and will continue to do so in efforts to provide good, timely programs.

Best wishes to you all for a glorious, fun filled holiday season and we look forward to seeing you all at our January Section meeting to be held with the Oklahoma AIAA Section.

**Curtis M. Vickery, Chair**

### Mentors Needed for Future City Program

The National Engineers Week Future City competition needs engineer mentors for schools across Oklahoma. Its mission is to provide a fun and exciting educational engineering program for 7th and 8<sup>th</sup> grade students that combine a stimulating engineering challenge with a "hands-on" application to present their vision of a city of the future.



Schools needing mentors include: [Alex Middle School](#) (Alex), [Carnegie Middle School](#) (Carnegie), [Chandler Middle School](#) (Chandler), [Cimarron Middle School](#) (Edmond), [Clinton Middle School](#) (Clinton), [Davenport Middle School](#) (Davenport), [First Lutheran School](#) (Ponca City), [Geary Middle School](#) (Geary), [Konawa Middle School](#) (Konawa), [Leslie Roblyer School](#) (El Reno), [Perkins-Tryon Middle School](#) (Perkins), [Sacred Heart School](#) (Okla. City), [Sequoyah Middle School](#) (Edmond), [Shattuck Middle School](#) (Shattuck), [St. Elizabeth Ann School](#) (Edmond), and [Wellston Middle School](#) (Wellston).

**Mentoring a school may qualify for PDH Continuing Education credits** (we are currently checking this). For more information contact Ms. Sheri Penner, Executive Director, Okla. Engineering Foundation, phone: 405-528-1435, e-mail: [Sheri@OSPE.org](mailto:Sheri@OSPE.org). Your assistance is greatly appreciated!

### Renewable Energy Enthusiasts Note: the REVOLUTION 2008 Oklahoma Wind Energy Conference is Upcoming



**Date:** December 2-3 ; **Location:** Cox Convention Center, Okla. City

A wind-inspired energy revolution is taking place in Oklahoma. Come learn about Oklahoma's wind energy successes and energy policy developments. Explore the latest technology advancements and discover what steps and actions are required to expand our state's wind energy contribution to America's energy mix. Gain a better understanding about wind energy's impact on Oklahoma's economy and environment — as well as America's long-term energy independence.

**The first annual Oklahoma Wind Energy Conference** -- Expand your understanding of today's wind energy industry:

- Special keynote addresses by wind energy advocate **T. Boone Pickens**, and The Nature Conservancy's CEO, **Mark Tercek**
- Oklahoma's future as one of America's greatest wind energy resources
- Wind energy economics – locally, regionally and nationally
- Transmission and Distribution – policies, plans and perspectives
- Wind Energy and the Environment – securing a win/win approach
- Wind Energy and Agriculture – discussions on land use
- Small Wind Energy Applications – community and locally-owned approaches
- Policy and Legislation – what's happening, and what needs to happen


Register for the conference by phone at 1-800-203-5494 or on-line at:

<http://www.peopleware.net/index.cfm?siteCode=02142&eventDisp=8151067901&subeventDisp=PART&CFID=21069925&CFTOKEN=3e13013-26251a47-914c-49af-b42e-c905e7fcf044> or phone 1-800-203-5494.

Registration fee is \$60 (Students with a valid ID can pre-register at no cost.)

For more information go to [info@okwindrevolution.com](mailto:info@okwindrevolution.com).

### Future ASME-Central Oklahoma Section Events

Date	Location	Program Topic and Speaker
Thursday Jan. 29, 2009	TO BE DETERMINED	<b>January Section Meeting: Joint meeting with the Oklahoma AIAA Section.</b> Speaker: Tom Betzen, Engr., Michelin North America Program: Michelin's new <b>Green Tire Technology</b> to decrease rolling resistance & reduce fuel usage & vehicle emissions.
Thursday Feb. 15 - 21, 2009	MULTIPLE LOCATIONS 	<b>National Engineers Week:</b> Activities include: <b>Engineering Fair</b> , Okla. Science Museum Feb 17 (Tues). <b>Joint Engr. Societies Banquet</b> , OC Gaylord Center Feb. 19 (Thurs). Our February Section meeting will coincide with the JESB.
Thursday March 26, 2008	Okla. Engineering Center 201 NE 27 <sup>th</sup> St., OKC	March Section Meeting: Ethics Speaker: TBD
Thursday April 23, 2008	Okla. Engineering Center 201 NE 27 <sup>th</sup> St., OKC	April Section Meeting: Honors and Awards Topic: Ethics ; Speaker: TBD
Thursday May 28, 2008	Noble Foundation Ardmore, OK	Tour of the Noble Foundation in Ardmore OK.

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