



# THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS®

## Central Oklahoma Section Newsletter

Volume 10, Number 7, March 11, 2009

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.

**Topic:** **Case Studies in Engineering Ethics and P.E. Continuing Education Requirements**

**Speakers:** **Mr. George Gibson**, Past Chairman, Oklahoma State Board of Licensing for Prof. Engineers & Land Surveyors, and **Mr. Mark Caruthers**, State Board Investigator

**Date:** Thursday, March 26, 2009

**Location:** Okla. Engr. Center, 201 NE 27<sup>th</sup> Street, OKC

Our program reviews a very timely and essential topic for us all. Ethical lapses in engineering can lead not only to scandal, but can result in costly disasters, injury, and loss of life. Such instances, especially when public safety is involved, grab headlines throughout our land and can cast a pall over our profession.

Our program features specific, recent cases reviewed by the State of Oklahoma that resulted from ethical lapses in the engineering profession. Engineering managers and professionals often face ethical challenges, with their projects and designs receiving greater scrutiny. Therefore proper professional conduct is demanded on a daily basis.

Oklahoma State Statues and ASME Code of Ethics speak to the rules all Professional Engineers must follow in their conduct. Ethical standards included therein will be highlighted in cases studies considered. We will discuss ethical failures in each case and determine viable and proper solutions.

Attendees will also be advised of opportunities in Ethics Education and Continuing Education requirements needed for Professional Engineer registration. **We proudly make Engineering Ethics an annual program topic, so please join us on March 26! Attendees will receive 2-PDH Continuing Education credits!**

**Time:** 5:45 - 6:15 PM: Meet at the Okla. Engineering Center.

6:15 – 7:15PM: **Hour One of Program**

7:15 – 7:45PM: Catered Meal

7:45 – 8:45PM: **Hour Two of Program**

**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, March 24 at NOON.**

### 2008-2009 COS Executive Committee Officers

**Curtis Vickery, Ph.D., P.E.** ..... Chair  
Cameron Compression Systems  
Bus: 405-619-5013 ; Fax: 405-619-5081  
e-mail: vickeryc1@asme.org

**OPEN** ..... Vice-Chair  
**VOLUNTEER NEEDED!!!**

**John McCachern, P.E.** ..... Treasurer  
Alcatel-Lucent Technologies  
Bus: 405-302-1651; jmccachern@alcatel-lucent.com

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**Frank Chambers, Ph.D., P.E.** ..... Director  
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**Ed Root** ..... Director  
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**Tommy Lear, P.E.** ..... Director  
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**Bill Green, P.E.** ..... Director  
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**John Heaton** ..... Director  
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**Larry Hoberock, PhD, PE** ..... OSU-MAE  
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**Jim Bose, PhD, PE** ..... OSU-MET  
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### Past Chair

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**Rick Beier, Ph.D.** ..... OSU-MET  
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## ADDITIONAL MARCH MEETING INFORMATION



George T. Gibson, P.E., served as the Chair of the Oklahoma State Board of Registration for Professional Engineers and Land Surveyors for 2003-2004. He was reappointed by Governor Henry to serve as a member on the same board until June 2011. Mr. Gibson retired in April 1990 as Assistant to the President for Southwestern Bell Telephone Company–Oklahoma. He was responsible for planning and implementing the Company’s nearly \$200 million per year construction program throughout the state. This included administration, planning, engineering and maintenance of the system, with approximately 2,000 employees under his supervision.

Mr. Gibson holds a BA in Mathematics with a minor in Physics, from the University of Tulsa, and was elected to the TU Hall of Fame in 1991. He is also a graduate of the OETP, Master’s level degree program from Bell Laboratories. He has also taught graduate courses at the University of Oklahoma’s School of Industrial Engineering. As a long-time member of the Oklahoma State Board of Registration for Professional Engineers & Land Surveyors, he was involved in several investigations of engineering firms for a variety of professional violations. This session promises to offer lively discussion of each case study discussed.

### **DEADLINE APPROACHING FOR 2009 ASME-COS SECTION AWARD NOMINATIONS**

Our Executive Committee has established seven (7) awards to recognize the ASME Central Oklahoma Section Senior and Student Section members who make outstanding contributions to their section or the Mechanical Engineering profession. Award recipients will be recognized at our April 23<sup>rd</sup> Honors & Awards Meeting.

**Outstanding Engineer Award** – To be presented for outstanding professional and technical organization activities and achievements. Also considered will be community and civic activities along with awards received. The nominee must be a member of ASME.

**Minority and Women Engineer-of-the-Year Award** – To be presented for outstanding professional and technical activities by a minority or woman engineer. In addition, community and civic activities will be considered as well as awards received. The nominee must be a member of ASME.

**Outstanding Engineer-in-Management Award** – To be presented to the engineering manager deemed by the nominator to have done an outstanding job in furthering the goals of ASME and the engineering profession. The ability to select and develop engineers as well as to communicate with and motivate engineers will enter into the selection of awardee. The nominee must be a member of ASME.

**Outstanding ASME Student Member Awards** – Four awards will be made in recognition of academic achievement and outstanding service to an ASME student section. The **Jerald D. Parker Award** will be awarded at Oklahoma Christian University; the **James H. Boggs Award** will be awarded at Oklahoma State University-MAE; the **Tom J. Love Award** will be awarded at the University of Oklahoma & an **Outstanding Student Award** will be awarded at Oklahoma State University-MET.

For application and/or additional information contact: Ed Reynolds, 6507 N.W. 96<sup>th</sup> Street, Oklahoma City, Ok. 73162, Phone: (405) 721-6753, E-mail: [edwin\\_c\\_reynolds@yahoo.com](mailto:edwin_c_reynolds@yahoo.com) (Nomination deadline is March 26, 2009)

### **OSU-MET ASME Student Section to Tour Eaton Hydraulics Division Plant**

On March 27 the OSU-Mechanical Engineering Technology (MET) ASME Student Section will tour the Eaton Hydraulics plant in Shawnee, OK.



Eaton Corporation is a global technology leader in electrical components and systems for power quality, distribution and control; hydraulics components, systems and services for industrial and mobile equipment; aerospace fuel, hydraulic and pneumatic systems for commercial and military use; and truck and automotive drive-train and power-train systems for performance, fuel economy and safety. Kudos to Joshua Grantham, Dr. Rick Beier, and Eaton-Shawnee for arranging such an informative plant tour for their student members.

**The American Society of Mechanical Engineers -- Central Oklahoma Section  
Ballot for 2009-2010 Executive Committee Officers & Directors**

<b>POSITION</b>	<b>NOMINATING COMM. NOMINEE</b>	<b>YOUR VOTE</b>	<b>YOUR WRITE-IN NOMINEE</b>	<b>YOUR VOTE</b>
<b>OFFICERS</b>				
Chairman	Curtis Vickery	_____	_____	_____
First Vice-Chairman	<b>CANDIDATE NEEDED</b>	_____	_____	_____
Treasurer	John McCachern, P.E.	_____	_____	_____
Secretary	Tom Betzen, P.E.	_____	_____	_____
Vice-Chair, Programs	Albert Janco, P.E.	_____	_____	_____
Vice-Chair, Membership	<b>CANDIDATE NEEDED</b>	_____	_____	_____
Vice-Chair, Prof'l Dev't	Mike Frey	_____	_____	_____
<b>DIRECTORS</b>				
	Frank Chambers, Ph.D., P.E.	_____	_____	_____
	Wendell Cavin, P.E.	_____	_____	_____
	Bill Green, P.E.	_____	_____	_____
	John Heaton, P.E.	_____	_____	_____
	Ed Reynolds	_____	_____	_____
	Elizabeth Schwartz	_____	_____	_____
	Ed Root	_____	_____	_____
	Frank Parker, P.E.	_____	_____	_____
	Vladimir Yun	_____	_____	_____
	Ram Dula	_____	_____	_____
	Nathan Weber	_____	_____	_____
	_____	_____	_____	_____
	_____	_____	_____	_____

**TO VOTE FOR COMPLETE NOMINATING COMMITTEE SLATE, CHECK HERE**

**EX-OFFICIO MEMBERS OF THE EXECUTIVE COMMITTEE (for information only)**

Past Chairman (2008-2009): Curtis Vickery

**STUDENT SECTION FACULTY ADVISORS AND DEPARTMENT HEADS:**

<u>UNIVERSITY</u>
Oklahoma Christian University
Oklahoma State University-MAE
Oklahoma State University-MET
University of Oklahoma

<u>FACULTY ADVISOR</u>
Wayne Whaley, Ph.D., P.E.
Hongbing Lu, Ph.D.
Rick Beier, Ph.D.
David Miller, Ph.D.

<u>DEPARTMENT HEAD</u>
Byron Newberry, Ph.D.
Larry Hoberock, Ph.D., P.E.
James Bose, Ph.D., P.E.
Sub Gollahalli, Ph.D., P.E.

**It's Our Election Time !!**

Below is the 2009-2010 Exec Committee Officer/Director election ballot that needs your careful consideration and action.  
 A terrific slate of candidates has been identified to lead our Central OK Section for the next program year, but we need additional interested members to serve as Directors to fill and/or help with various committees. **Serving on our Executive Committee is challenging and personally rewarding.** If interested in serving in any capacity, feel free to **nominate yourself.** If you or any potential candidate have questions regarding Exec Committee service, please contact Curtis Vickery at (W) 405-619-5013 or (H) 405-285-6643 ([vickeryc1@asme.org](mailto:vickeryc1@asme.org)). **Most importantly – PLEASE VOTE !!!** Mail your ballot to Curtis Vickery at 1700 Remington Road, Edmond, OK 73034, or bring it to our March Section Meeting, on March 26<sup>th</sup>.

## Engineering Fair Rubber Band Powered Car Contest Highlights

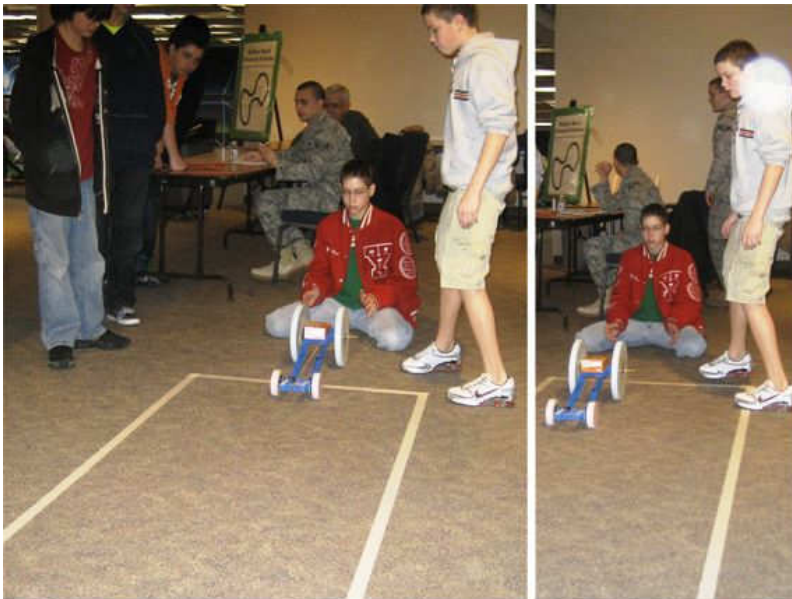
Our 2009 *Rubber Band Powered Car Contest* went real well. As part of the **Oklahoma Engineering Fair**, held Tuesday February 19, we had 63 student participants who designed, built and ran their cars. Below are photos from this event.

FIRST PLACE was **Jeff Hill**, Independence Middle School, Yukon, OK with distance of 74'0".

SECOND PLACE was **Mackenzie Harris**, Irving Middle School, Norman, OK with distance of 48"8".

THIRD PLACE was **Jordyn Roe**, Cleveland Middle School, Cleveland, OK with distance of 46'0".

The competition was judged entirely by the ASME Central Oklahoma Section volunteers. We also very much appreciate Tinker AFB servicemen AIC Misael Torres, AIC Alvies, Sergei, and SSGT Nicole Anderson for assistance in registering the students. Congratulations to all our student competitors!



**Above Left: Winning Run by Jeff Hill.**

**Above Right: Girls with their cars.**

## **ASME DISTRICT-E SPRING STUDENT CONFERENCE UPCOMING**

From Mr. John Hawkins, ASME District-E Leader on this year's spring student conference:

Dear ASME District E Professionals,

This year the University of Texas at Arlington ASME Student Section will host the District E Student Professional Development Conference (SPDC) and Early Career Technical Conference (ECTC). In the past, the SPDC/ECTC has been a great opportunity for engineering students and young engineers to compete and showcase their talents as well as network with others from the professional field.

District E is inviting company and individual donations and sponsorships to ensure its continued success. The conference will include a career fair on April 18, 2009, where companies will have the opportunity to purchase tables and recruit students from the Great International, Southwest, & Rocky Mountain district. ASME students throughout the district have been invited to submit their résumé for inclusion on a CD that will be provided to all event supporters.

For information on the schools in attendance, dates and competitions please follow this link: <http://districts.asme.org/SPDC/TX>. Under the tab "register to attend" there is a detailed list of all schools located in The Great International, Southwest, and Rocky Mountain District E.

Information on how to contribute to the success of this conference is located on the web at: <http://districts.asme.org/spdc/tx/txsponsor.htm>.

If you have any further questions or comments please email [UTA.ASME@gmail.com](mailto:UTA.ASME@gmail.com).

John Hawkins,  
District Leader  
The Great International, Southwest, and Rocky Mountain District E

This year's Student Design Competition is "Mars Rover". Visit [http://www.asme.org/Events/Contests/DesignContest/2009\\_Student\\_Design\\_2.cfm](http://www.asme.org/Events/Contests/DesignContest/2009_Student_Design_2.cfm) for complete rules and contest specifications.

**EDITOR'S NOTE:** Now is the time to register for this event. Ms. Judy Cobb ([cobbj1@asme.org](mailto:cobbj1@asme.org)) can help with this or visit his should be a good conference as UT-Arlington has good facilities, resources, and relatively close proximity. Our Central Okla. Student Sections are encouraged to send multiple delegates to this conference.

### **Free ASME e-Library Tutorial Webinars Exclusively for ASME Members**

**Last chance to register for a winter training session: [Friday, March 20, 11:00AM \(EST\)](#)**

More than three-quarters of surveyed **ASME members report increased productivity of at least 10%** with the use of ASME's e-Library, powered by *Knovel*, and find it to be a useful professional development tool. *Knovel* is an online resource that helps engineers find reliable technical information faster. ASME's e-Library provides ASME members with relevant and reliable technical information to help solve engineering challenges as they arise.

**You are invited to join us for an online demonstration of ASME's content and unique technology.** All you need is a telephone and an Internet connection and you are on your way!

The ASME e-Library Webinar session takes approximately 30 minutes although we will stay on longer to answer any questions. During the session, you will learn how to use the features that transform ASME's e-Library from a simple E-book service to a **workflow and productivity** tool that can save you a great deal of time and effort in your research. The bottom line: ASME helps scientists and engineers do their jobs **cheaper and faster** while **improving the quality and quantity** of the work they produce.

A few of the subjects covered in the free training include: (a) An overview of the ASME product; (b) Benefits provided by ASME's advanced searching capabilities; (c) Benefits provided by ASME's interactive productivity tools, and (d) Actual search examples to show you the power of the product.

To use the E-Library and sign up for the free webinar sessions, you must register on your first visit and have cookies enabled on your computer.

To register and activate your **FREE** access to the 75 books just go to: [ASME E-Library Powered by Knovel](#). This will bring you to the registration process. Once registered, please click the links below to register for an upcoming ASME e-Library demonstration:

- Friday, March 20, 2009 – 11AM EST → [Register Here](#)

Once you click on the registration link, you will be asked for your name and email address. After submitting this information, you will be registered and will then receive an e-mail invitation to join the conference.

Don't wait because the sessions fill up fast! Use the links above to register right away and receive your invitation immediately via e-mail. ASME will send you a reminder (1) day prior to the event.

For more information and to sign up for a training webinar for the e-Library, [click here](#).

To see *Knovel* in Action, watch the [video tutorials](#).

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## CALL FOR PRESENTATION ABSTRACTS

### XXIX Oklahoma AIAA/ASME Symposium

Saturday, April 11, 2009

*Oklahoma Christian University, Edmond*

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American Institute of Aeronautics and Astronautics

*Oklahoma Section*



The American Society of  
Mechanical Engineers

*Central Oklahoma Section*

*Mid-Continent Section*

**SEE NEXT PAGE FOR ABSTRACT  
FORMAT INSTRUCTIONS**

#### **Submittal Information:**

E-Mail abstract as an attachment to Dr. David Cassel ([david.cassel@oc.edu](mailto:david.cassel@oc.edu))

Please use “\*\*\* AIAA/ASME ABSTRACT \*\*\* ” in subject line.

For additional information contact Dr. Bill Ryan, Symposium Chairman, at  
(405) 420-1987 ([bill.ryan@oc.edu](mailto:bill.ryan@oc.edu)).

**CENTERED TITLE OF ABSTRACT IN 12 POINT**

F. Author, P.E.,\*\* S. Author, and T. Author, P.E.\*\*  
Department, Group, or Division  
Organization  
Some City, Oklahoma 7-ZIP  
(918) 555-1234  
emailname@hostaddress.com

**ABSTRACT**

The 29<sup>th</sup> annual Oklahoma AIAA/ASME Symposium will be held at Oklahoma Christian University in Edmond on Saturday, April 11, 2009. The purpose of the symposium is to encourage communication among the engineers of Oklahoma's universities and industries. You are invited to participate by helping organize a session, chairing a session, presenting a paper, and/or attending presentations to listen and discuss the papers with the authors. The symposium provides a great opportunity for students to attend and present papers. The registration fee is only \$5 for students and \$15 for other professionals. The symposium will have parallel morning technical sessions and will end after a luncheon with an invited speaker.

A one page abstract must be submitted by **March 13, 2009**, to be included in the meeting program and the symposium proceedings. Presentations will be 15-minutes (12-minute presentation and 3-minutes for questions). This is a sample format of the text for an abstract. The abstract should be submitted in 12 point, single-spaced Times New Roman font with right and left justified margins. The lines are to be 6-inches long with 1.25-inch right and left margins and 1-inch top and bottom margins. The abstract can be no longer than one page. The title is centered 12 point, all caps, single-spaced bold Times New Roman. Acknowledgments may be indicated in a footnote. Leave two lines between the title and the authors. The names, address, phone and e-mail address are centered 12 point single-spaced Times New Roman. Please indicate membership in AIAA and/or ASME with a footnote. Professional titles are not required. Leave two lines between the author information and the centered, all caps, "ABSTRACT." Please leave one line between "ABSTRACT" and the text. E-mail attachments are the preferred submission mode.

\* This work has been supported by Generous, Inc.

\*\* Member, AIAA and/or ASME

**Submittal Information:**

E-Mail abstract as an attachment to Dr. David Cassel ([david.cassel@oc.edu](mailto:david.cassel@oc.edu))

Please use **\*\*\*\* AIAA/ASME ABSTRACT\*\*\*\*** in subject line.

## Chair's Corner

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

Hello everyone! Our annual February events (Engineering Fair, MATHCOUNTS, Future City, Engineer for a Day, and the Joint Engineering Societies Banquet) were all well attended and went off flawlessly! Year in and year out these are great events that highlight our profession to the public and to school-age youngsters. Thanks to all who attended and helped with these endeavors.

**Included again in this newsletter is our 2009-2010 SECTION OFFICER ELECTION BALLOT on page 3.** We will finalize our nomination/election process at our March Section meeting. In the meantime please complete a ballot and mail it to me now!

**As a reminder, our Honors & Awards meeting is NEXT MONTH.** See page 2 for Section Award descriptions. Submit your nominations ASAP to Ed Reynolds.

**See also the AIAA-ASME Symposium Call for Abstracts on pages 6 & 7.** ABSTRACTS ARE DUE NOW. Contact Bill Ryan or David Cassel for more information.

**STUDENT MEMBERS and FACULTY ADVISORS NOTE:** Our 2009 ASME-COS Scholarship form has been posted at <http://sections.asme.org/CentralOK> and is also included here on pages 9-11. **Last year we awarded four \$500 scholarships.** This is a great opportunity for Sophomore- or Junior-level Mechanical Engineering or Mechanical Engineering Technology students!

Hope to see you at our March Section meeting on Thursday, March 26!

**Curtis M. Vickery, Chair**

### Future ASME-Central Oklahoma Section Events

Date	Location	Program Topic and Speaker
Thursday March 26, 2009	Oklahoma Engr. Center 201 NE 27 <sup>th</sup> St, OKC	<b>March Section Meeting:</b> Engineering Ethics. Mr. George Gibson, P.E. and Mr. Mark Carothers
Thursday April 23, 2009	Oklahoma Engr. Center 201 NE 27 <sup>th</sup> St, OKC	<b>April Section Meeting:</b> Honors & Awards Speaker/Topic TBD.
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!**





## ASME Central Oklahoma Section Engineering Scholarship Application - *Financial Data*

Applicant: \_\_\_\_\_  
Last Name
First Name
Middle Initial

**Estimated Annual Financial Data (from 1 June 2009 through 31 May 2010)**

Annual Sources of Funds	Amount	Annual Tuition & Expenses	Amount
Job Income	\$		\$
Student Loans	\$		\$
Other Scholarships/Grants	\$		\$
Support from Parents/Family	\$		\$
Personal Savings	\$		\$
Other	\$		\$
<b>Total</b>	<b>\$</b>	<b>Total</b>	<b>\$</b>

These figures reflect my financial situation accurately and completely.

\_\_\_\_\_  
Applicant's Signature

\_\_\_\_\_  
Date

Please note: this page must be submitted **TOGETHER WITH** the **Application Form** and **Evidence of Attendance & Academic Performance**