

Central Oklahoma Section Newsletter

Volume 7, Number 6

February 2006



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Joint Engineering Societies' Joint Banquet

Speaker: John Bowman, Engineering Manger for Oklahoma Department of Transportation
Topic: "Engineering and Construction Issues of I-40 Cross-town Project"

Place: Oklahoma Christian University - Gaylord University Center
 2501 E. Memorial Road, Oklahoma City, OK

Time: Thursday, February 23
 6:30PM: Registration & Social
 7:00PM: Catered Meal
 7:45PM: Meeting begins

Cost: \$20 for all Senior Members, Guests and Student Section Members

PLEASE PLACE RESERVATIONS BY 12:00PM THURSDAY FEBRUARY 16

Members AND Students make reservations with Frank Parker; <mailto:parkerfj@asme.org>; Ph. (405) 739-1813 (with each reservation, please include the name of each guest &/or student)

The annual Engineering Societies' Joint Banquet will be held as a part of National Engineers Week.

This year's banquet will be expanded with a greater participation from other engineering societies in Central Oklahoma. The dinner meeting will

include the presentation of awards by the various engineering groups to recognize engineering excellence, the recognition of student accomplishments through the Engineer for a Day program, MATH-COUNTS and Future City Competition.

(Continued on Page 2)



National Engineer's Week

February 19 – 25, 2006

******This Program will qualify for 1.0 PDH for attending Professional Engineers******

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Additional January Meeting Information

The speaker for the evening will be **John Bowman, Engineering Manager for ODOT**, who will talk about the many engineering and construction issues of the I-40 cross-town rerouting project.

I hope that you will be able to join us!!!!!!

The event is Thursday February 23, 2006 at Oklahoma Christian University - Gaylord University Center, 2501 E Memorial Rd, OKC. Reserve your ticket today with Frank Parker at <mailto:parkerfj@asme.org> for only \$20.00.

Engineer-For-A-Day - If you or your company would like to sponsor a student for the Engineer for a Day program, please contact Jack Snoddy, PE, (<mailto:jtsnoddy@sbcglobal.net> or

405.621.1172) for more information.

The Gaylord University Center is the first building west of the main building as you enter from the front entrance.



26th Oklahoma AIAA/ASME Symposium

CALL FOR PRESENTATION ABSTRACTS

The 26th annual Oklahoma AIAA/ASME Symposium will be held at University of Oklahoma's Sarkeys Energy Center in Norman on Saturday, April 15, 2005. 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 to or-

ganize a session, chair a session, present a paper, and/or attend presentations to listen and discuss the papers with the authors. The symposium provides a great opportunity for students to attend and present papers. Students receive a reduced registration fee. The Symposium will have parallel morning technical sessions and will end after a luncheon with an invited speaker.

A one page abstract must be submit-

ted by Friday, March 24, 2006, to be included in the meeting program and the symposium proceedings. Presentations will be 15 minutes (12 minute presentation and 3 minutes for questions).

For submission information, phone (405) 325-2692 or email <mailto:zsiddique@ou.edu> with "INFO" in subject line ,or go to web site at: <http://www.coe.ou.edu/ame/symposium/>

1st Annual ASME COS Golf Tournament

We're in the process of organizing an ASME Central Oklahoma Section Golf Tournament this Spring, to raise revenue for the section and set up an Engineering Scholarship Fund. Recruit a team of 4 for this shotgun scramble.

When – Saturday, April 22

Where – Silverhorn Golf Club in OKC

Entry Fee – \$75 for individuals or \$280 per team of 4, at a non-sponsorship level

Included in Fee – Greens fee, cart fee, range balls & practice facilities, Hamburger & Hot Dog Buffet, 2 drink tickets, 10% Pro Shop Discounts, Gratuity, Appetizers during Award Ceremony.

Prizes – 1st - 3rd Place Winners & a Hole-In-One prize for either an automo-

bile or \$10,000 cash prize, raffle for exotic vacation, plus door prizes for all.

Participants – Central Oklahoma Section Members, Member Spouses, Student Members, Guests, & other Engineering Societies can challenge ASME teams.

Sponsorship Levels

Bronze Sponsorship – \$250 – Company Logo on a Tee Box;

Silver Sponsorship – \$500 – Team entry and a Company Logo on a Tee Box, plus advertising for 2 issues of The Central Oklahoma Section Newsletter;

Gold Sponsorship – \$1000 – Team entry and Company Logo on 3 Tee

Boxes, plus advertising for 5 issues of The Central Oklahoma Section Newsletter;

Platinum Sponsorship – \$1500 – Team entry and Company Logo on 9 Flags, plus advertising for all 8 issues of The Central Oklahoma Section Newsletter.

Recruit a team of 4 and/or have your company sponsor a four-some, at one of the mentioned levels. Be sure to mention that sponsorships will contribute significantly towards an Engineering Scholarship Fund for engineering college students.



Contact Nathan Weber at <mailto:webern2@asme.org> or call at 405-225-4061 to reserve your spot.

Chair's Corner

Dear ASME-Central Oklahoma Section Members:

February is already here and, as always, is the busiest month for all engineering professional societies. Before going further into that subject though, I would first like to express my great satisfaction with last month's big event. Our January 26th AIAA/ASME joint meeting was extremely successful with 66 attending including 25 students and a reporter from the Oklahoman. Most of the student attendees were from OU & OSU, but our program brought in five K-12 students from Guthrie, Hara, and the OKC metro area. Our speaker, **John Herrington, Vice President & Director of Flight Operations, Rocketplane Limited**, was largely responsible for the turn out. He gave a very interesting & entertaining presentation on his spaceflight experience; as well as upcoming plans for his suborbital test flight of the Rocketplane XP spaceplane. The XP is a commercial space vehicle that will depart from the Oklahoma spaceport at Burns Flat in Western Oklahoma and take space travelers 100 km above the Earth.

Great events won't end with our January meeting though. In fact, we have been gearing up for the last 5-6 months for this

month's Engineering Week, scheduled for February 19-25. Lead-up activities started already, including the Future Cities Oklahoma Regional competition on January 21st. They'll continue with MATHCOUNTS competitions this month, the Engineering Fair on the February 21st, and culminate with the Joint Engineering Societies' Banquet on February 23rd. We are fortunate to have various key people in the OEF, OSPE, ASME, and other engineering societies who organize and run these events: **Kathy Dunn** at the OEF, **Todd Hiemer** for Future Cities; **Tommy Lear** for MATHCOUNTS and **Wendell Cavin** for the Rubber Band Powered Vehicle Contest, to name a few. However, they can't do it on their own and are very appreciative of the help they have received from our membership. I would like to openly thank those of you who have helped in the past and hope you will continue to do so. If you have yet to help out in any of these activities I would encourage you to do so. Not only does it demonstrate our Society's strong support of educational and scientific programs to the community, it's a great way to introduce impressionable kids to engineering and demystify our profession and those who practice it. This type of involvement also rewards the volunteer on a very personal level. I always get a big kick seeing young minds transform their imaginations into 3D Future Cities models and learn how to present them

to others. It's also fascinating to see the wide variety of clever mechanisms students put together for the Engineering Fair's Rubber Band Powered Vehicle contest, as you guide them and their set of wheels to the track. If you would like to help as a judge or to register entrants to this latter contest, please contact Wendell Cavin at (405) 291-5586, or send him an e-mail at <mailto:wc064@sbc.com>. For MATHCOUNTS, contact the OEF office at (405) 528 1435 or 1 (800) 337 OSPE, or go to the official MATHCOUNTS website (<http://www.mathcounts.org>) where you'll find a link to local program coordinators in our state.

Finally, this month's meeting will be the Joint Engineering Societies' Banquet. Our featured speaker for the evening will be **John Bowman, Engineering Manager for ODOT**, who will discuss the many engineering and construction issues surrounding the I-40 cross-town project. This is a topic sure to be of interest to all who must use this critical thoroughfare each day. More information can be found on the front and second pages of this newsletter. Please contact me at 405-739-1813 or send me an e-mail at <mailto:parkerfj@asme.org>, if you wish to purchase tickets to the Banquet.

Frank Parker – Chair

Engineering Fair

The Oklahoma Engineering Foundation annually sponsors and coordinates an "Engineering Fair" for 6-12th grade students. The 25th Annual OEF Engineering Fair will be held **Tuesday, February 21, 2006**, 9:00 a.m. to 2:00 p.m., at Omniplex in Oklahoma City; N.E. 52nd Street @ Martin Luther King Blvd.

Because the cost of conducting the Engineering Fair has been underwritten by the Oklahoma Engineering Foundation and other sponsoring businesses and organizations, there are no contest registration fees or admission charges to Omniplex (except OmniDome) for this special event. The Omniplex offers many attractions, including the hands-on Science Museum, Planetarium, Air & Space Museum, Photography Hall of Fame, Berlin Wall display, Center of American Indians and several galleries, gardens and exhibits.

The Fair offers a variety of educational activities. Students will have access to some 250 hands on science and engineering related exhibits at Omniplex in addition to booths and displays of

engineering and technical societies and engineering colleges.

The Engineering Fair presents an excellent opportunity schools to schedule an educational field trip; a 3-hour visit is suggested. Last year, almost 2,200 students were in attendance.

Omniplex's IWERKS OmniDome Theater will be open. Teachers and students can experience the thrill of a larger-than-life film. For ticket information call Omniplex at 405/602-6664.

* Student Contests *

BRIDGE BUILDING. Prior to Fair day, students construct a model bridge, using only toothpicks and glue, to withstand the most pressure.

EIFFEL TOWER. Using only plastic drinking straws and bread wrapper/garbage bag wire ties, build the tallest tower which will support a tennis ball at its apex.

PING-PONG BALL LAUNCHER. Prior to the Fair day, students modify a household

mousetrap, giving it the capability to catapult ping-pong balls approximately 12' into designated targets.

ROBOMAZE. Prior to Fair day, students construct a small autonomous mobile robot using designated pieces from the Lego Mindstorms Robotics Invention Kit. The robot must follow a curved black line — back and forth between two stacks of cola cans without knocking the cans over. The top three robots that completes the task in the shortest amount of time wins

RUBBER BAND POWERED VEHICLE. Prior to the Fair, students build a vehicle having wheels which is powered only by the elastic energy of one rubber band and capable of carrying a one-pound load the greatest distance in a straight line.

WACKY WONDER WORKS (à la Rube Goldberg). Prior to the Fair, students assemble the most complicated device to perform a very simple objective - dispense birdseed onto a tray.

NEW INTERNSHIP OPPORTUNITY FOR EARLY CAREER ASME MEMBERS

ASME's Center for Leadership and Diversity is pleased to announce the creation of a new internship opportunity for early career ASME members. ECLIPSE, Early Career Leadership Intern Program to Serve Engineering, is a program designed to place early career engineers in highly visible and productive roles within the ASME organization. ASME believes that early career engineers can make significant contributions to its various units and is eager to encourage their active participation in all levels of the Society.

ECLIPSE is a competitive internship program. Applications are solicited in the December through February timeframe, with the selection of interns made in March. ECLIPSE participants are matched with a specific ASME unit for a period of one year. The interns work closely with an assigned mentor to complete one or more projects throughout the year. Internships commence at the Summer Annual Meeting (SAM) with an Early Career Leadership session. Interns also attend the IMECE in November, as well as training at the Leadership Development Conference. At the conclusion of the internship period, ECLIPSE participants are assisted in identifying opportunities for continued participation in ASME.

Participation in ECLIPSE is open to any ASME member who has served a minimum of three, but not more than 10, years in the workforce since completion of her/his engineering degree. ASME members who have previously served as Leadership Development Interns (LDIs) or Minority Leadership Program (MLP) interns are not eligible for participation in ECLIPSE, but are encouraged to serve as mentors.

Applicants should assume that they will need to attend several out of town meetings of approximately three days' duration during the internship period. The cost of attending those meeting will be partially covered by ASME in accordance with Society Policy P-4.5: reasonable transportation costs to attend pre-approved meetings are eligible for reimbursement, as are lodging and meal expenses up to a \$100 per day per diem. All expense reimbursements are subject to budget limitations. ASME encourages cost sharing of these expenses with the interns' employers.

Additional information on ECLIPSE, as well as the application form, is available at <http://www.asme.org>. Select Communities/Early Careers/Mentoring. For additional information, contact Marian Heller, director of the Center for Leadership and Diversity, at <mailto:hellerm@asme.org>

ASME SCHOLARSHIPS AVAILABLE!

ASME awards nearly \$100,000 in academic scholarships annually to Student Members worldwide. Applications for the 2006-07 academic year will be accepted online from Feb. 1 through March 15, 2006. For more information, please visit:

<http://www.asme.org/Education/FinancialAid/Scholarships/Scholarships.cfm>

Katrina Loans Available for Eligible Students

ASME has established a fast track student loan for mechanical engineering students who have been adversely affected by Hurricanes Katrina & Rita. Applications will be accepted on a continuous basis thru June 30, 2006.

For more information contact Maisha Phillips at (212) 591-7371 or <mailto:PhillipsM@asme.org>. Additional information can also be obtained by visiting the Web site at <http://www.asme.org/education/enged/aid/loan.htm>

New Community to Discuss ASME Web Site Available

A new community called [ASME Website](#) has been formed within ASME's Communities of Practice site for comments and feedback regarding the revamped ASME.org.

Access to the Communities of Practice site is open to members and nonmembers. To join this Community to provide your feedback, log on to <http://www.cop.asme.org>.

2006 ASME Young Engineers Award Nominations Needed!



The ASME Old Guard Committee is accepting nominations for the 2006 Young Engineer Award. ASME members that have made great strides in the engineering profession, community and the work of the society and have continuous membership since becoming an ASME student member and earned a baccalaureate degree in Mechanical Engineering between the years March 1, 2000 - March 1, 2002 are eligible to apply.

The Grand Prize is \$5000 including a prepaid life ASME membership. To learn more about the selection criteria and how to nominate, visit: <http://staging.files.asme.org/asmeorg/Communities/EarlyCareer/8026.pdf>

Student Activity Calendar

February

Feb 15 Manuscript Due: Arthur L. Williston Award Contest – (Civic Service Paper)
<http://asme.org/students/competitions/willistonaward.html>

Feb 19-25 National Engineers Week <http://www.eweek.org/>

March

Mar 1 Old Guard Early Career Engineer Essay Competition deadline
<http://www.asme.org/youngengineers/competition.html>

Mar 1 Old Guard Young Engineers Award
<http://files.asme.org/asmeorg/Communities/EarlyCareer/8026.pdf>

Mar 15 ASME Scholarship Online Application deadline
<http://calendar.asme.org/EventDetail.cfm?EventID=1535>

Mar 20 National Manufacturing Week
<http://calendar.asme.org/EventDetail.cfm?EventID=1862>

April

April 27 2006 FIRST Championship
<http://calendar.asme.org/EventDetail.cfm?EventID=1398>

ASME Solutions Provides The Tools For Success

Today's new and expanding global market demands more than conventional thinking. Whatever your business, you need to build and maintain your engineering edge, with the insight and training that only comes from a leader. **ASME Solutions** is a powerful, comprehensive, and unique resource that provides industry-specific tools required for success. Through **ASME Solutions**, companies or institutions can partner with ASME to ensure a competitive edge.

Find out how to build a stronger engineering community and a better business environment. Visit <http://www.asmesolutions.org/>

The Old Guard Early Career Engineer Competition



The ASME Old Guard Committee is accepting entries for an Early Career Engineer Essay Competition. All ASME members who have between 4-10 years work experience in professional practice since graduation may apply. An award of \$1,000 plus a lifetime membership (valued at \$2,500) will be given to the author of the winning essay. For more information, visit the Essay Competition webpage: http://www.asme.org/Communities/EarlyCareer/Early_Career_Engineer_Essay.cfm

Call For Nominations: ASME ABET Degree Program Evaluators

The Center for Education is accepting nominations for ASME ABET Mechanical Engineering/Mechanical Engineering Technology and related degree program evaluators.

As a Participating Society of ABET Inc. (the Accreditation Board for Engineering and Technology), ASME is responsible for 428 degree programs in the U.S. and for establishing a diverse cadre of highly qualified and highly committed ME/MET Program Evaluators to assume the very sensitive and important role of assessing undergraduate degree programs against established criteria.

All ASME program evaluators must submit a completed nomination, be selected, participate in a training workshop, and serve as an observer on an on-campus evaluation team visit prior to being placed on the roster of "active" evaluators for a period of 5 years. Serving on an assessment team for a degree program is very professionally and personally rewarding and an important means of "giving back" to and supporting the future advancement of the engineering profession.

Qualifications:

- 10+ years professional experience in either industry, government, or academia
- ASME member in good standing
- Graduate degree a plus
- **Women, minorities, and engineers working in industry or government are especially encouraged to apply**

Additional information including an application form can be found at: http://www.asme.org/Education/CertifAccred/Become_Evaluator.cfm

Nominations should be submitted by March 30 and forwarded to: Amy Bentow, Manager, Education, ASME Three Park Avenue, New York, NY 10016. Phone: 1-212-591-7880 Email: <mailto:bentowa@asme.org>

ASME News Is Now Online!

ASME News is now available to membership exclusively online at <http://www.asmenews.org>. When a new issue of ASME News is posted, a special announcement will appear on the ASME homepage and on Mechanical Engineering magazine online's *only on M.E. Magazine box* (located in the table of contents page of the magazine).

Central Oklahoma Section Awards

The executive committee has established seven (7) awards to recognize the section and student members who are making outstanding contributions to their section or the profession of mechanical engineering. The recipients of these awards will be recognized at the April 27th Central Oklahoma Section 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. 96th Street, Oklahoma City, Ok. 73162, Phone: (405) 721-6753, E-mail: mailto:edwin_c_reynolds@yahoo.com (Nomination deadline is Mar 24, 2006)

Future ASME-Central Oklahoma Section and Other Events

DATE	LOCATION	PROGRAM TOPIC AND SPEAKER
February 19 - 25	N/A	National Engineer's Week
February 21	Omniplex N.E. 52nd Street @ MLK Blvd Oklahoma City, OK	The 25th Annual OEF Engineering Fair
February 23	Oklahoma Christian University Gaylord University Center 2501 E Memorial Rd Oklahoma City, OK	Engineering Societies' Joint Banquet "Engineering and Construction Issues of I-40 Cross-town Project" by John Bowman, Engineering Manager for ODOT
March 23	Boulevard Cafeteria 525 NW 11th Street Oklahoma City, OK	"Ethics and Professional Practice" by Robert Zahl, P.E., Member and Past Chairman, Oklahoma Licensure for Professional Engineers and Land Surveyors
April 22	Silverhorn Golf Club 11411 N Kelley Ave Oklahoma City, OK	1st Annual ASME COS Golf Tournament
April 27	Oklahoma Engineering Center	"Diversity in Science and Engineering Faculty at US Research Universities" by Donna J. Nelson, PhD, Associate Professor of Chemistry, University of Oklahoma
May 25	Bergey Windpower Norman, OK	Plant Tour and Presentation by Mike Bergey, President

FOR UPDATES ON THESE AND OTHER EVENTS, VISIT OUR SECTION WEB SITE AT

<http://sections.asme.org/CentralOK>