



The American Society of Mechanical Engineers

Central Oklahoma Section Newsletter

Volume 3, Number 7, March 12, 2002

The Section is located at: Oklahoma Engineering Center, 201 Northeast 27th 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.

***** **March Meeting Announcement** *****

Oklahoma State University's **Applications Engineering Program**

Speaker: **Dr. Larry Hoberock**, ASME Fellow and Department Head, Mechanical and Aerospace Engineering, OSU.

Date: Thursday, March 28 **Place:** ATRC, OSU Campus, Stillwater, OK

There are nearly 6,300 manufacturing firms in Oklahoma and all but 72 employ fewer than 500 employees. More than 6,000 of these firms employ fewer than 250 and approximately half are located in rural areas. These rural manufacturers are extremely important to their local economies. The loss or downsizing of even one of these wealth-generating small or mid-sized companies can have devastating consequences for the host and surrounding communities. While products are quite diversified, there is limited global perspective with respect to markets and technology. These rural firms face particular difficulty in getting relevant and usable information and technical assistance that will keep them abreast of the rapid changes in manufacturing technology. OSU's Applications Engineering Program provides crucial assistance to these small firms across Oklahoma.

See page 2 for more program information plus a map of Stillwater and the OSU campus.



Applications Engineering Program

Providing engineering technology assistance to small- and medium-sized manufacturers in Oklahoma



In cooperation with Oklahoma Alliance for Manufacturing Excellence, Inc.

Schedule and Contact Information

Time: 6:00PM Social Hour 6:30PM Catered Dinner (Bar B Q)
7:15PM Program: "OSU's Applications Engineering Program"

Cost: \$8.00 for Senior members and guests, \$4.00 for Student members.

PLEASE PLACE RESERVATIONS BY 12:00PM (noon) TUESDAY, March 26.

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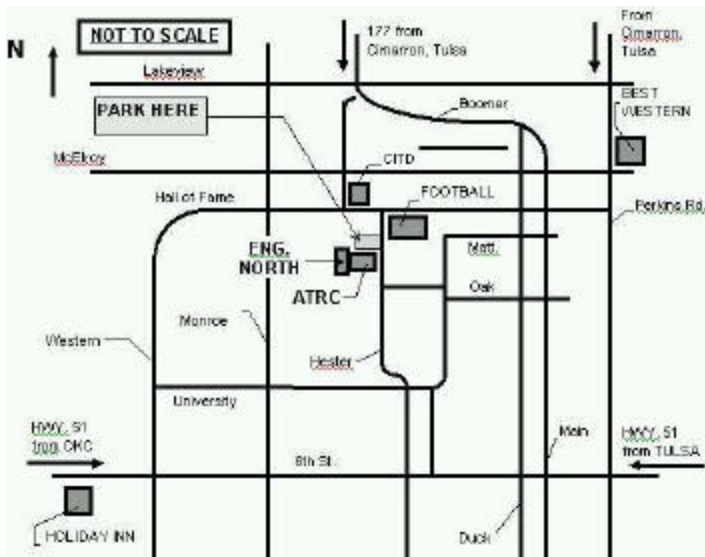
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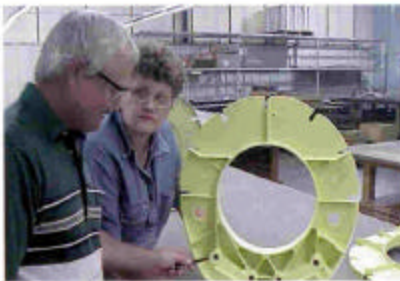
Additional March Meeting Information



What has been done? During FY 2001, the Applications Engineers served nearly 200 small, mostly rural, manufacturers that employ more than 9,000 of our citizens. This effort included more than 5,000 hours of direct in-plant engineering assistance and technology transfer activities. Examples of engineering projects include assisting small manufacturers in implementing processes and procedures to comply with OSHA and EPA rules and regulations, process and product development, manufacturing facility layout, and manufacturing cost analysis.

Impact: The client must agree to a post-project impact assessment in order to receive engineering assistance. The client is contacted after completion of the activity and asked a series of questions designed to assess its overall impact. In FY2001, Applications Engineers client projects had several million dollars impact on: (i) Sales, (ii) Sales Retained, (iii) Cost Savings, (iv) Costs Avoided, (v) New Jobs Created, (vi) Jobs Retained, (vii) Plant and Equipment Investments.

The **Applications Engineer program** is funded by The Oklahoma Alliance for Manufacturing Excellence, Inc. and The Oklahoma Center for the Advancement of Science and Technology. The program is jointly administered by OSU's College of Engineering, Architecture and Technology and the OSU's Division of Agricultural Sciences and Natural Resources. The program has six engineers spread out across the state.



Win Adams, Applications Engineer, and Marsha Cole, Manufacturing Extension Agent, examine an aircraft part at Precision Machine and Manufacturing in Grove.



OSU applications engineers provided advice to Freightliner Specialty Vehicles, of Clinton. The company customizes trucks and manufactures emergency vehicles.

Central Oklahoma Section Awards

The executive committee has established six (6) 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 25th 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 – Three 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; the Tom J. Love Award will be awarded at the University of Oklahoma.

For application and/or additional information contact: Ed Reynolds, 6507 N.W. 96th Street, Oklahoma City, Ok. 73162, Phone: (405) 721-6753, E-mail: edwin_c_reynolds@yahoo.com (Nomination deadline is March 22, 2002).

Central Oklahoma Section 2002-2003 Election Results

Section officer elections for 2002-2003 were conducted in February through a special ballot mailing. Results of the election are as follows: Chair: Frank Parker, P.E.; 1st Vice-Chair: **OPEN**; Secretary: Jamal Siddiqui; Treasurer: Phillip Starr, E.I.; Vice-Chair, Programs: Albert Janco, P.E.; Vice-Chair, Membership: Albert Janco, P.E.; Vice-Chair, Professional Development: Doug Brown, R.E.M.; Directors: David Baldwin, Ph.D., P.E.; Wendell Cavin, P.E.; Frank Chambers, Ph.D., P.E.; Ken Craig, Ph.D.; John Francis, Ph.D., P.E.; Bill Green, P.E.; John Heaton, P.E.; Tracy Purser; Paul Ratke; Will Sutton, Ph.D., P.E.; Curtis Vickery, Ph.D., P.E.

This is a fine group of officers, and we're very fortunate to have such willing volunteers. **Noted above, however, is an open 1st Vice-Chair office that we desperately need to fill.** Please assess your schedules and consider helping here. Contact Ed Reynolds or any other Executive Committee member to volunteer or for more details.

Chair's Corner

Dear ASME-Central Oklahoma Section Members :

Our February meeting was held jointly with other engineering societies on February 19 at Oklahoma Christian University Gaylord Student Center. Approximately 95 of the 185 in attendance were Jr. High & High School student participants from "Engineer for a Day", "MATHCOUNTS", and "Future City" programs. Our speaker, Mr. Blake Wade, outlined Oklahoma's efforts to commemorate its centennial during year 2007. The program also included an up-date on the state capitol dome project.

Engineers Week was another huge success with many activities in recognition of our engineering heritage. The **Engineering Fair** at the Omniplex brought **103 student participants to our Rubber-Band Powered Vehicle contest**. A **special thanks to Wendell Cavin** for his leadership in conducting this event for our Section. Also, **many thanks to OSU students – Megan Gosnell, Megan McConnell, Sam Preece, & Sally Kellenberger** – who helped us with the registration of the contest participants.

The **ASME/AIAA Symposium** held on February 23 & **hosted by Oral Roberts University** provided attendees with insight into the excellent caliber of the young engineering graduates in our state. These presentations highlighted several research activities currently underway at the engineering universities in our state.

We are looking forward to our March 28 meeting at OSU in Stillwater. One of our ASME Fellow members, Dr. Larry Hoberock, will present an overview of "**The Applications Engineer Program**" that was created through a partnership with Oklahoma State University, the Oklahoma Alliance for Manufacturing Excellence, and the Oklahoma Center for the Advancement of Science & Technology. The program brings engineering assistance to rural Oklahoma's small manufacturers and entrepreneurs. **Hope to see you there** as this will be a very informative meeting for all of our members.

It is that time of year again when we elect our officers for the next program year. Each of you has received our letter & ballot requesting your response. Hopefully, you will join with us on this incredible "journey into the future" through your involvement & participation in our ASME Central Oklahoma Section activities.

Ed Reynolds -- Chair

Student Section News

OC Student Section (Erin Winter): The U.S. Navy's Nuclear Engineering Division came and spoke at one of our meetings. They encouraged students to consider nuclear engineering and showed what the field had to offer. Also, we took a trip to the Sooner Power Plant to learn more about the process of producing electrical power. At right is a photograph of the plant. Finally, a couple of our students attended the Engineering Fair, showcasing the Mini-Baja vehicles designed by OC engineering students.



OU Student Section (Julie Schlegel): Schlumberger recently sponsored our monthly ASME meeting. Members found out about the company, learned what mechanical engineers do there, and were able to submit their resumes for consideration.

Elections for new student officers will be held the week of March 5, and we will start planning for next year. Part of our plans includes a fundraising effort. If anyone has fundraiser ideas that work well and would like to share their idea, please have them contact Julie Schlegel at jmschlegel@hotmail.com. Julie was recently awarded a \$1000 scholarship by the International Gas Turbine Institute. Congratulations Julie!

Future plans include attendance at the Human-Powered Vehicle competition with hopes of participating next year.

OSU-MAE Student Section (Megan McConnell): Oklahoma State University has now started an annual "Spring Swing." This was a social event that ASME put on along with the Society of Women Engineers. Included was an ice cream social along with swing dancing lessons. We liked it so much that it will become our annual "Welcome Back From Christmas Break" party.

Several of our students went to the Omniplex to represent the Mechanical and Aerospace Engineering department during the E-Week Engineering Fair. We also helped with the ASME Rubber Band Powered Vehicle contest.

Megan McConnell and Erin Holle will be attending the Region X Regional Student Conference this month in Kingsville, TX. Future plans also include a plant tour in the Dallas-Ft. Worth area and a collaborative event with the OSU-MET Section.

ASME MEMBERSHIP RENEWAL BONUS FOR STUDENT GRADUATES!!

All ASME Student Members who graduated 2001 will receive a complimentary copy of *The Unwritten Laws of Engineering*.

This fully revised and updated edition of the 1944 classic serves as a crucial compilation of "house rules," or a professional code. It addresses three areas: what the beginner needs to learn at once, laws relating chiefly to engineering executives, and purely personal considerations for engineers. Packed with contemporary examples, this new volume is a must for those entering the engineering field or those interested in improving their professional effectiveness. For more information: <http://www.asmeny.org/cgi-bin/WEB017C?594215+0001+00+00000+801624>.

Future ASME-Central Oklahoma Section and Other Engineering Events

Date	Location	Program Topic and Speaker
March 21-23, 2002 (Thursday - Saturday)	Texas A&M Kingsville Univ. Kingsville, TX	Region X Regional Administrative Conference (RAC) and Regional Student Conference (RSC)
March 28, 2002 (Thursday)	OSU Campus, Advanced Technology Research Center Stillwater, OK	Dr. Larry Hoberock: "OSU's Applications Engineering Program"
April 25, 2002 (Thursday)	Oklahoma Engineering Center 201 NE 27 th St, OKC	Ms. Marilyn Hughes, Oklahoma Ethics Commission
May 23, 2002 (Thursday)	York International Norman, OK	Plant Tour: York International

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