



# The American Society of Mechanical Engineers

## Central Oklahoma Section Newsletter Volume 4, Number 3, October 9, 2002

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.

### \*\*\*\*\* **October Meeting Announcement** \*\*\*\*\*

Joint meeting with the Oklahoma AIAA Section

## “GPS LAAS a New and Safer Landing System”

Speaker: Dr. John Fagan, Professor, University of Oklahoma,  
School of Electrical and Computer Engineering

**Thursday, October 24 Oklahoma Engineering Center, 201 NE 27<sup>th</sup> St., OKC**

This talk will examine a new precision landing system that will be used for all weather landing of commercial and military aircraft. The new system is intended to augment and replace current ILS landing systems. The new landing system is a GPS-based system that makes use of a local correction. The new system was developed at the University of Oklahoma and has been in flight tests for 2 years. The new system is much cheaper, and offers a higher degree of safety than current landing systems used in the United States. **Make plans to attend this meeting, along with AIAA, on October 24!**

### Schedule and Contact Information

**Time:** 6:00-6:30PM: Registration & Social. 6:30-7:15PM: Catered Meal.  
7:15-7:30PM: Section Business & Introductions. 7:30PM: Program with Dr. John Fagan.

**Cost:** \$10 for Sr. Members and Guests, \$5 for Student Members (students please bring your ASME membership card).

**PLEASE PLACE RESERVATIONS BY 12:00PM (noon) TUESDAY, Oct. 22**

E-Mail Reservations:

OKC/Norman/Edmond/Metro Area:

Stillwater/Enid/Ponca City/Perry:

Lawton/Duncan/Chickasha:

Students:

Frank Parker

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Place reservations at your respective university's ME/MET department office.

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## Chair's Corner

### Dear ASME-Central Oklahoma Section Members:

It's hard for me to believe that it's already October. As I'm writing this column, the memory of last month's presentation is still very fresh in my mind. Of course, given the interesting **overview of Oklahoma Air Quality** as presented by **Ellis Fischer**, it shouldn't be surprising that it will stick with me for some time to come. It certainly broadened my knowledge of the many methods used to remove significant amounts of air pollutants, from a variety of sources—many of which I've never really given much thought to before. How air quality was monitored was also of great interest to me. **We would like to thank Mr. Fischer for his informative talk.** His offer to e-mail a copy of his presentation to anyone who is interested is very gracious and one I plan to take him up on.

Overall, the Section meeting proved to be a most enjoyable event. Besides the informative presentation, it was good to see some members I haven't seen in a bit and finally introduce myself to others who I've known of, but have never had the chance to meet at previous meetings. I was especially pleased to see so many students from **the Oklahoma Christian University ASME Section** in attendance. I would like to encourage them and the members of the OU & OSU Student Sections to return to these events. The next one should prove every bit as fascinating--more so for those with an interest in aeronautics and avionics. **Our meeting for October will feature John Fagan, Professor of Electrical Engineering and Computer Science at the University of Oklahoma. He will brief us on his work in developing a new and safer instrument landing system.** Details of the presentation and meeting venue are provided on the first two pages of this newsletter.

**As with last month's meeting, this one qualifies for 1.0 PDH Continuing Education Credit for any Professional Engineer in attendance.**

Hope to see you all on Thursday, the 24th of October.

**Frank Parker -- Chair**

## CENTRAL OKLAHOMA SECTION OUTREACH



**Thank You Halliburton!** Per our August Newsletter, the **Halliburton Foundation** awarded our Section \$1500 in the names of Phillip Starr, John Heaton, and Curtis Vickery to be used for **engineering education and outreach.**

The Central Oklahoma Section Executive Committee is seeking the best way(s) to use this monetary gift. **We need ideas and suggestions from you as to how best to utilize these funds.** Again, our quest is engineering education and outreach.

**K-12 Outreach:** ASME's website contains a *Position Statement* on K-12 Scientific, Technological, Engineering, and Mathematical (STEM) education (<http://www.asme.org/gric/ps/2002/02-29.html>). ASME recommendations have included:

- Increase federally funded research focused on STEM teaching and learning to cultivate the most effective teaching methods.
- Recruit, train, and retain qualified STEM teachers to meet demand.
- **Foster partnerships among educational institutions, industry, and non-profit organizations.**
- Encourage the adoption of curriculum standards that cultivate high student performance; curricula that foster creativity, experiential problem-solving, and critical thinking; and developing proper assessments for these standards and curricula.

**Student Outreach:** We also have outreach needs among university students and our fellow practicing engineers. ASME is testing a pilot program where **students' first year ASME membership is free. Oklahoma State University is currently among the test sites for this program.** It is essential that Mechanical Engineering students foster a commitment to ASME ideals and standards as students, and that this relationship be continued out into the workplace after graduation.


**Engineer Outreach:** We all know of Mechanical Engineer colleagues that are not ASME members. Many may not be aware of the many benefits of ASME membership. Our Executive Committee, working with ASME's Southern Regional Office, is interested in spreading the word of ASME membership and benefits to these engineers. **Please contact us if your company or group has a number of non-ASME members that might be interested in joining.** Our service toward Oklahoma Professional Engineering continuing education PDH credit is an added benefit of ASME Central Oklahoma Section membership.



When You Recruit a New Member, 50% of their first year dues will be used to fund scholarships for ME students.

- Print/type your name and membership I.D. on the Sponsor's Name line of the application. (PDF Download from [asme.org](http://www.asme.org)) Make copies.
- Schedule time to discuss the benefits of joining ASME and distribute membership applications to your colleagues.
- Send a personalized email inviting your colleagues online or view offline recruitment tools.
- Follow up with new members that you recruited to welcome them to ASME.

## Future ASME-Central Oklahoma Section Events

| Date                        | Location   | Program Topic and Speaker  |
|-----------------------------|--|--|
| Oct. 24, 2002<br>(Thursday) | Oklahoma Engr. Center<br>201 NE 27 <sup>th</sup> St.<br>Oklahoma City, OK  | "GPS LAAS a New and Safer Landing System"<br>Speaker: Dr. John Fagan, OU-ECE                               |
| Oct. 25, 2002<br>(Friday)   | Univ. of Central Okla.<br>Edmond, OK   | Professional Engineering (PE) Exam<br>Applicants are to arrive by 7:30AM, Exam begins at 8:00AM            |
| Oct. 26, 2002<br>(Saturday) | Univ. of Central Okla. (Edmond)<br>Okla. State Univ. (Stillwater)<br>Tulsa Univ. (Tulsa)<br>Univ. of Oklahoma (Norman) | Fundamentals of Engineering (FE) Exam<br>Applicants are to arrive by 7:30AM, Exam begins at 8:00AM         |
| Dec. 5, 2002<br>(Thursday)  | TBA  | Holiday Meeting TBA  |
| Dec. 16, 2002<br>(Monday)   | <br>Perry, OK                         | ASME Landmark Ceremony,<br>Charles Machine Works' Trencher Collection.<br>Stay tuned for more information. |

**ACCESS MORE OF ASME'S RESOURCES ON THE WORLD WIDE WEB AT**

**<http://www.asme.org/>**

**Also visit the ASME SOUTHERN REGIONAL OFFICE, DALLAS, TX at**

**<http://www.asmesro.org>**

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