



**The American Society of
Mechanical Engineers**

Central Oklahoma Section Newsletter

Volume 4, Number 9, May 5, 2003

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.



******* May Plant Tour *******

**OG&E Horseshoe Lake Power
Plant Tour Thursday, May 22**

Near Choctaw & Harrah, OK

(see page 2 for details on how to obtain a map)

Today's power generation engineers face many environmental issues, economic issues, and emerging technologies that demand a diversity of power generation approaches. Older power plants such as *OG+E's* Horseshoe Lake must be upgraded to increase efficiency, meet pollution standards, and minimize the financial impact of meeting new power demands.

One unfavorable characteristic of gas turbine power generation is that the exhaust gas issuing from the turbine is at high temperature, thereby wasting much energy and creating a local hazard. Combined-cycle power plants harness this hot exhaust gas to drive a Rankine cycle steam turbine. The Horseshoe Lake combined-cycle plant was designed in this way, yielding additional power and high efficiency when operating in the combined mode. The plant may also be operated with the gas turbine alone or with the steam turbine alone.

In all, the Horseshoe Lake Power Station features 3 steam units: # 6 rated at 178,000-KW (1958 vintage), # 7 rated at 218,500-KW (1963 vintage), and # 8 rated at 412,000-KW (1969 vintage). In addition, two new gas turbines have been installed, each rated at 45,000-KW (GE LM6000 units). **Make plans to join us for this tour on May 22!**

ONLY 40 MAY PARTICIPATE IN THIS TOUR, SO PLEASE PLACE YOUR RESERVATION ASAP!

Schedule and Contact Information

Time: 6:00PM: Gather at Horseshoe Lake Plant. 6:30PM: Picnic Meal (Pizza, Salad, Drinks).
7:00PM: Short Business Meeting 7:15PM: *OG+E* Presentation and Tour.
Our Host will be Mr. John Wendling Jr., Horseshoe Lake Station Manager.

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, MAY 20

Please make all reservations with: Frank Parker E-Mail: parkerfj@asme.org Phone: (405) 739-1813

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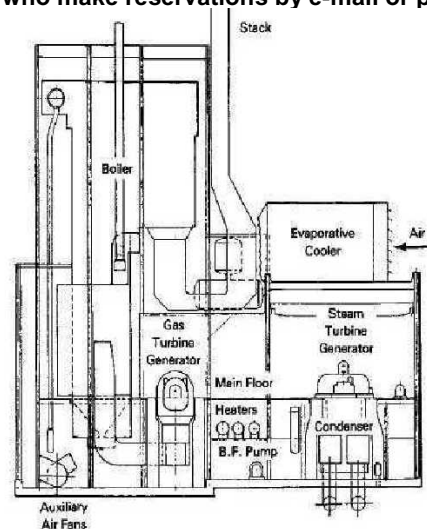
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Additional May Meeting Information

A map with directions to the plant will be sent to those who make reservations by e-mail or phone.



Recent Construction at Horseshoe Lake Facility



Horseshoe Lake Combined Cycle Diagram

ENHANCED FELLOW NOMINATION PROCESS STREAMLINES APPROVAL

ASME has streamlined the process for nominating members to the Society's Fellow status to ensure that all eligible members have every opportunity to be upgraded. Changes were made both to clarify the process and to speed nomination approvals, while continuing to maintain the high standard of Fellow qualifications. The Fellow Review Committee (FRC) now approves or denies an application within approximately two months. Submission of electronic application documentation further expedites the process. Applications for Fellow nominations can be downloaded by visiting the Fellows website at www.asme.org/member/fellow.

The Central Oklahoma Section Executive Committee is very interested in identifying members for ASME Fellow nomination, then helping with the nomination process. If you are interested in nominating a colleague for Fellow status, please contact any Executive Committee member. If you have any questions regarding the Fellow review process, feel free to contact Paul Torpey, Chair, FRC (torpeyp@asme.org) or Ed Harvego, Vice Chair, FRC (harvegoe@asme.org).



OSU Honors Dr. Jim Surjaatmadja for Helping Shape the Modern Petroleum Industry

On April 16, 2003 the Oklahoma State University College of Engineering, Architecture and Technology (CEAT) presented its highest honor to an alumnus who has developed products and processes that expedite oil and gas recovery and have helped shape the modern petroleum industry. The college honored **Dr. Jim B. Surjaatmadja**, scientific/technical adviser in Halliburton Energy Services' research operations in Duncan, Okla., with the **2003 Melvin R. Lohmann Medal**.

Surjaatmadja, a 1976 OSU graduate and also an ASME Fellow, has 88 patents to his name. His inventions include a diffuser for a well-head isolation tool that supported fluid velocities of up to 280 feet/second. Surjaatmadja's professional innovations include a device and process to build a horizontal concrete wall below ground, restraining devices for high-pressure equipment, development of accurate mathematical models for determining forces caused by explosions of gas, foams and sand-laden foam, and his latest innovation, the "SurgiFrac" fracturing system. **Congratulations Jim on this tremendous honor!**

Oklahoma IEEE Section to hold NEC Power Seminar

IEEE will sponsor a "Illustrated Changes to the NEC" (National Electric Code) seminar/workshop from **9:30AM to 4:30PM on Saturday May 17**. Workshop will be held at C. H. Guernsey & Co., 5555 N. Grand Blvd, OKC and costs \$40. Enrollees are **entitled to Continuing Education Credits** and also provides the possibility to **win an Electrical Calculator door prize** (a \$90 value) that is programmed with current NEC 2002 information.

This workshop, submitted to Oklahoma State Department of Health, Electrical Licensing Committee for 6 CEU hours, will be taught by **Warren G. Conner**, Busmann District Engineer. Each attendee should bring a calculator, scratch pad, pencil, hi-liter, a copy of **2002 NEC Code Book**, and their own lunch.

Seminar enrollment is limited to 35 slots on a first-paid basis. The final date for accepting reservations will be May 12 at 5:00 PM. Reservations and questions should be directed to Joe Barnard (barnarjd@oge.com) Ph: (405) 640-3308 or Prem Patni (prem.patni@swelectric.com) Ph: (405) 670-8670

Chair's Corner

Dear ASME-Central Oklahoma Section Members:

The April Awards Meeting provided us with the opportunity to congratulate several people within our section for their achievements and acknowledging long-time members. **Dr. William Sibley's** presentation on "**Engineers, Entrepreneurs, and Economic Development**" turned out to be one of the most appropriate ways to round out such an event. It was interesting to find out how OCAST assisted bringing about the establishment of several key technological industries in Oklahoma, by aiding scientists and engineers in acquiring initial research and subsequent developmental grants. The achievements of grant recipients have greatly impacted our local communities and will continue to have far-reaching effects on our society, as a whole. We would like to thank **Dr. Sibley** for very insightful briefing.

The following awards were given to student members who are recognized for their academic achievement and outstanding service to their ASME Student Sections. **Congratulations to these student members!**

The Jerald D. Parker Award, Oklahoma Christian University:

Erin K. Winter

The Tom J. Love Award, The University of Oklahoma:

Myron Stout

The James H. Boggs Award, Oklahoma State University:

Catie Roy

The Mechanical Engineering Technology Award, Oklahoma State University:

Zachary M. Jones

The following ASME awards were bestowed to Central Oklahoma Section members this year, recognizing them for outstanding career achievements:

William T. Ennor Manufacturing Technology Award -

Ranga Komanduri, Ph.D.

Internal Combustion Engine Award -

Warren E. Snyder, Ph.D.

Individuals recognized for their years of ASME membership were:

25 Years: **Dwight B. Pfenning, Ph.D., P.E.; Donald N. Reed, P.E.; William W. Schweikhard, P.E.**

50 Years: **James H. Boggs, Ph.D., P.E.**

Congratulations to these members for their continued support and the many contributions they have made to ASME during their careers!

This is our final newsletter for the current program year and my last "Chair's Corner" column. As such, I would like to take this opportunity to thank our Executive Committee members for their service and support, which made this year a great success. Serving as Section Chair is a challenging duty. However, it was also a very rewarding experience; as it gave me insight on the inner workings of ASME and the extent of its members' influence on mechanical design and technology. **Doug Brown** will be taking the Chair position for the 2003-2004 program year. Doug's past leadership at both the Regional and Section levels is a great asset to us, and can only ensure our next year will be a greater success. His multiple duties will be especially demanding and so I urge our membership to provide him with all the support he deserves. I would invite you to consider serving on our committee, even if you can find just 4-5 hours a month to do so. Many program ideas and innovations were the result of suggestions made by our newer Directors. Please contact me at parkerfj@asme.org, if you have any questions about volunteering your services.

Lastly, we have an interesting program set up to round up the 2002-2003 year. **Our section will be touring the OG+E Horseshoe Lake Power Plant** near Harrah on May 22nd. **Please make your reservations early, since there is only room for 40 in the tour group.** The tour will also qualify for 1.0 PDH credit. More information can be found on the first two pages of the newsletter.

Hope to see you all on Thursday, the 22nd of May.

Frank Parker – Chair

SALES TAX BEING CONSIDERED ON PROFESSIONAL SERVICES

In recent days, the issue of imposing the state sales tax on professional services, specifically engineering and architectural services, has again reared its ugly head. **ENGINEERING AND ARCHITECTURAL SERVICES are two of a handful of exemptions for which repeal of the exemption is being considered.**

Newspaper reports say that House Democrats are preparing a proposal to tax some professional services. "The idea is to pick things that are progressive, that don't hurt the poor people, to apply a sales tax to in the way of services," Rep. Jim Wilson, D-Tahlequah told *THE JOURNAL RECORD*. Wilson added that the trade-off for this would be the removal of the state sales tax on groceries. Wilson heads a group examining revenue-raising proposals for the House Democratic leadership. The group includes representatives of the Oklahoma Education Association (OEA), Oklahoma Municipal League, state firefighters, and school administrators. House Speaker Larry Adair added, "I understand that they're about ready to submit a list of recommendations, probably within the next few days."

THE JOURNAL RECORD reported that a list developed by the OEA included 18 specific services that could be taxed which included hotels and lodging, laundry services, advertising, building services, computer services, auto repair, movie tickets, theatrical productions, amusements and recreation, sports and recreation clubs, auto renting electrical repair services, **ENGINEERING AND ARCHITECTURAL SERVICES**, accounting services, and management and consulting services. Additionally, the Oklahoma Public Employees Association (OPEA) has endorsed a similar proposal in their plan for addressing the budget crisis.

The Oklahoma Society of Professional Engineers (OSPE) and the Consulting Engineers Council of Oklahoma (CECO) encourage all engineers to become more informed of this issue, and to contact your Oklahoma Legislative representative to make your feelings known. **This is not a specific bill as of yet**, but could become so at any time. For more information, you may contact Mr. Noel Long at the Oklahoma Engineering Foundation nlong@ospe.org, Ph: (405) 528-1435.

Future ASME-Central Oklahoma Section Events

Date	Location	Program Topic and Speaker
May 17, 2003 (Saturday)	C. H. Guernsey & Co. 5555 N. Grand Blvd. Okla. City, OK	Oklahoma IEEE Section sponsored NEC Power Seminar Enrollment Deadline May 12, 2003
May 22, 2003 (Thursday)	OG&E's Horseshoe Lake Power Plant Near Choctaw, OK	Plant Tour: Horseshoe Lake Power Plant Featuring upgrades including 90-Mega-Watts new, additional generating capacity
June 5, 2003 (Thursday)	Okla. Engineering Center 201 NE 27 th St., OKC	ASME Central Oklahoma Section Executive Committee Meeting

**FOR UPDATES ON THESE AND OTHER EVENTS, VISIT OUR SECTION WEB SITE AT
<http://www.asme.org/Sections/CentralOK>**

**ACCESS MORE OF ASME'S RESOURCES ON THE WORLD WIDE WEB AT
<http://www.asme.org/>**

**ALSO VISIT THE ASME SOUTHERN FIELD OFFICE, DALLAS, TX AT
<http://www.asme.org/regions/sro/>**

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