



American Society of Mechanical Engineers

Central Oklahoma Section Newsletter
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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 Meeting Announcement *****

Speaker: Mr. Wayne Walker, Blue Canyon Project Manager,
Zilkaha Renewable Energy Corp., Houston TX

Topic: "SW Oklahoma's Blue Canyon Wind Energy Farm"

Thursday, May 20 Oklahoma Engineering Center, 201 NE 27th St., OKC

The Blue Canyon Wind Farm, being engineered and developed by Zilkaha Renewable Energy Corp., is located on one of the best wind sites in Oklahoma. Located 15 miles north of Lawton, Oklahoma, Blue Canyon will offer robust transmission resources to areas served by all the major utilities and electric cooperatives in the state. Western Farmers Electric Cooperative will buy all 74.25 megawatts of the electricity produced from the first phase of Blue Canyon, enough to power approximately 22,300 homes.

This is the first such agreement to purchase energy produced from an environmentally friendly wind farm in Oklahoma. The 20-year purchase agreement will provide wind power to Western Farmers' 19 rural electric cooperatives that serve farms, rural residences, towns, and commercial/industrial customers in approximately two-thirds of rural Oklahoma.

The Blue Canyon Wind Farm Project will produce as much as 300 megawatts of affordable pollution-free electricity when all phases of construction are complete. In addition to power generation, the Project will bring new jobs and tax revenues to surrounding counties. **Make plans to join us May 20 for this leading-edge presentation!!!**

Schedule and Contact Information

Time: 6:00PM: Registration and Social. 6:30PM: Catered Dinner.
7:00PM: Introductions and Section Business.
7:45PM: Presentation by Wayne Walker: "Blue Canyon Wind Farm".

Cost: \$10 each for all Senior Members & Guests, \$5 each for all Student ASME Members.

PLEASE PLACE RESERVATIONS BY 12:00PM (noon) TUESDAY, May 18

Students please make reservations at your respective university's Mechanical Engineering office.

Members make reservations with **ED REYNOLDS** ; edwin_c_reynolds@yahoo.com ; Ph: (405) 721-6753

(with each reservation, please include the name of each guest and/or student)

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Additional May Meeting Information

Western Farmers Electric Cooperative is a generation and transmission cooperative headquartered in Anadarko, Oklahoma. Additional plant facilities are located in Hugo and Mooreland, Oklahoma. Member-owners consist of 19 distribution cooperatives and Altus Air Force Base, which, in turn, serve the total electric needs of more than half a million people in Oklahoma and parts of Texas and Kansas. WFEC maintains more than 3,400 miles of transmission line and has a combined capacity of over 1,400 megawatts, including hydropower allocation. WFEC is located on the web at <http://www.wfec.com>.



Power from the Blue Canyon site is delivered to the grid via a 24-mile transmission line constructed by WFEC. This line was completed in October, with connection being made between the Blue Canyon Substation and WFEC's Washita Switch Station, near Anadarko. This allows delivery of energy from the wind farm to WFEC's member-owners and their customers.

At a **height of almost 330 feet**, from the base, up the **220-foot tower**, to the **tip of an upright 115-foot blade**, the majestic wind turbines of the Blue Canyon Wind Farm catch the attention of everyone passing through the Slick Hills vicinity. This geographic formation is just north of the Wichita Mountains and northwest of Lawton. **A close-up view, just south of the intersection of State Highways 58 and 19** (11 miles west of Apache), helps bring the towers and blades into a more comprehensible perspective. See <http://www.zilkha.com/whatweredoing.asp> for more information.

Election Results -- ASME-COS 2004-2005 Officers

Our 2004-2005 Election results have been tabulated, with new officers listed below. Thanks to all who submitted an election ballot.

Chairman - Ed Reynolds, P.E.

Secretary - Tom Betzen, P.E.

Treasurer - Michael Frey

First Vice Chairman - Frank J. Parker, P.E.

Vice-Chair, Programs - Albert Janco, P.E.

April Honors & Awards Meeting Highlights

Our April Section meeting included recognition of deserving Senior and Student members. **25-Year Membership Awards** were received by Jerry D. Birdsong, P.E., Steven H Gray, P.E., Mike L. Harclerode, P.E., Zack R. McCain, Jr., P.E., David E. McMechan, P.E., Michael W. Sanders, Ph.D., Mark C. Smith, R. K. Tessmann, Ph.D., P.E., and David Lynn Turney, Ph.D., P.E. **Life Membership Awards** were received by Franklin J. Appl, Ph.D., P.E., Bruce A. Feiertag, Fred H. Kohman, P.E., Ronald W. Leaver, P.E., and John J. Shelton, Ph.D., P.E. **50-Year Membership Award** was received by Louis G. Gitzendanner, P.E.

Special recognition certificates were awarded to ASME-COS Executive Committee members: **Frank Parker** for serving as 2002-2003 COS Chair and for continued leadership service, **Ed Reynolds** for continued work with Honors & Awards and ASME Landmark designations, **Albert Janco** for continued service as Program Chair, **Tom Betzen** for helping to produce and mail our Newsletter, and **Curtis Vickery** for continued service as Newsletter Editor.

Also, a nomination was submitted for COS' first ever **Outstanding Engineer in Management Award**. This award was proudly presented to **Mr. Leonard Case** of Halliburton-Duncan.

We were also very pleased to recognize four ASME student members. OC Mechanical Engineering student **Philip Snell** received the **Jerald D. Parker Award**, OU-AME student **Jonathan Harkness** received the **Tom J. Love Award**, OSU-MAE student **David Eudey** received the **James H. Boggs Award**, and OSU-MET student **Nathan Moll** received the **Outstanding Student Award**.

→ **Congratulations to all our Student and Senior ASME award winners!** ←



Doug Brown presenting **ASME Membership Awards** (left to right): **Frank Appl**, Life Member; **Bruce Feiertag**, Life Member; **Fred Kohman**, Life Member, and **Lynn Turney**, 25-year Member.



Doug Brown presenting **Outstanding Engineer in Management Award** to **Leonard Case**.

Chair's Chatter

Dear ASME-Central Oklahoma Section Members:

Our 2003 / 2004 Program Year is closing fast ("ASME years" run July 1st through June 30th). Seems like it's been a very good year – old friends; new friends; interesting, informative, diverse program meetings; **and**, having some "FUN" along the way. **What do you think ?**

I want to extend my "Best wishes" to our new Section Officers and Committee Chairs for what's sure to be outstanding year coming up. Also, to hope that **YOU** make the opportunity to participate in Section activities next year – **You'll be glad you did.**

ASME's Continuity & Change restructuring initiative will provide new opportunities for every ASME member, as the new structure is developed and transitions take place between now and June 30, 2005. So keep yourself up-to-date – check-it-out at ASMEs website: <http://www.asme.org/change/>.

THANKS for the opportunity to serve our ASME Central Oklahoma Section as Section Chair this past year. Together with some TERRIFIC volunteers, our Section Leadership Team, we've tried to provide professional activities and opportunities worth YOUR and OUR valuable time, **and** have some "FUN" along the way too.

For me, it's on to a new ASME role as Vice President of Region X (our Region), where I've been elected to serve for the next three (3) years. I'm looking forward to the opportunity serve all the members of our Region (10,000 Members and 2,600 Student Members), and working with other Society Officers and ASME Staff. So, let me know **what YOU think**, and how I might be able to help make ASME better for **YOU**, **and all of our other members in Region X!!!**

THANKS for the opportunity to share my thoughts with **YOU**.

Doug Brown – Chair

Student Section News

OC Student Section, Phillip Snell: Our Section took 10 students to the ASME Regional Student Conference in Longview, TX. **Jay Gramling**, current Vice-Chair, competed in the *Old Guard Oral Competition*. Jay's presentation concerned his summer research on bubble formation. **John Harris** competed in the *Old Guard Poster Competition*, presenting his project to assist water well drilling in 3rd world countries. Additionally, **OC fielded teams in both the soccer and volleyball competitions**. It was a very fun trip and we hope to return next year.

In early March our chapter selected officers for the 2004-2005 school year. **Collin Prock** moved up from Secretary/Treasurer to Chair, **James Baird** was elected Vice-Chair, and **Laura Kite** was elected Secretary/Treasurer.

To help celebrate Engineer's Week 2004, our Section sponsored a student vote to select the *ME Professor the Year*. This year Mechanical Engineering Departmental Chair **Byron Newberry** was selected by the students and received a gift certificate to Chili's restaurant.

OSU-MAE Student Section, David Eudey: Our Section recently experienced the renovation process occurring at **Boone Pickens Stadium**. Flintco representatives spoke to about 25 students about various aspects of the construction, including some of the business dealings. A hard-hat tour of the facility focused on the stadium's HVAC systems, as well as the renovation in general.

Officer elections were held last week and an officer transition dinner was held tonight. The first item on the agenda for the new team is to set goals for the 2004-2005 academic year and to become acquainted with each individual's responsibilities.

"Getting to Know You" --

D. Lynn Turney, Ph.D., P.E.

Dr. Lynn Turney is a Senior Staff Engineer at the **Charles Machine Works, Inc.** (manufacturer of the **Ditch Witch** product line) in Perry, Oklahoma. Lynn has spent the last 25 years doing analysis work and other design-supporting functions at CMW. Prior to CMW he worked as a consulting engineer for Boyd and Associates, Stillwater, OK.



Early in his CMW career, Lynn developed analysis tools for vibratory plows to improve their performance and minimize vibratory effects on machine components. He helped select and implement CMW's first computer-aided design system, and still works with Solid Edge that is currently used for solids modeling. Lynn has also been involved in developing a costing system for prototypes and their tracking in production.

As CMW's product lines have broadened, so have requirements for analysis of backhoes, loaders, trailers, and directional drills. CMW engineers use the ANSYS finite element structural analysis program. Lynn focuses on structural analysis and mechanical simulation of CMW construction equipment. This includes computational prediction and verification of roll-over protective structures. He currently works with other engineers in the department in finite element analysis training.

Lynn received his B.S. degree in Mech. Engineering from Louisiana Tech University, Ruston, LA. He then earned both M.S. and Ph.D. degrees in Mech. Engineering from Oklahoma State University in Stillwater. Lynn and his wife, Donna reside in Perry where he is a member and Deacon of the First Baptist Church. He also enjoys spending time with his three children and their families.

Future ASME-Central Oklahoma Section and Other Events

Date	Location	Program Topic and Speaker
May 20, 2004 (Thursday)	Okla. Eng. Center 201 NE 27 th St., OKC	Blue Canyon Wind Farm Presentation Blue Canyon Wind Farm
June 4, 2004 (Friday)	Blue Canyon Wind Farm near Carnegie, OK (southwest OK)	Tour: Blue Canyon Wind Farm (details forthcoming via special mailing and E-Mail)
May 20-21, 2004 (Thursday, Friday)	Oklahoma State University Advanced Technology Research Center Stillwater, OK	OSPE Annual Conference. Keynote Speaker: Mr. Dag Knudsen, Topic: “How to be Heard, Understood and Win Acceptance” PDH credit is available to attendees. See http://www.ospe.org/ for more information

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

<http://www.asme.org/Sections/CentralOK>

ALSO VISIT THE ASME SOUTHERN FIELD OFFICE, DALLAS, TX AT

<http://www.asme.org/regions/sro/>

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