



College of Engineering Today

January 2007 Edition

WELCOME TO THE COLLEGE OF ENGINEERING E-NEWSLETTER!

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NEWS

A proposal for over \$500,000 to research exploration of novel nanomaterials: synthesis, characterization, and engineering by College of Engineering faculty has won a portion of the TTU Vice President of Research **grant competition** for FY07. Out of seventy-five proposals submitted requesting almost \$29 million in funding, only three were funded. Faculty from the Mechanical Engineering department are PI Dr. Yanzhang Ma, Co-PIs Drs. Jharna Chaudhuri, Zhaoming He, and Alan Jankowski, and Dr. Guigen Li from the Chemistry and Biochemistry department. Congratulations for this excellent effort and the recognition to the college!



Ma

studies, and graduate advisor. He earned bachelor's and master's degrees from Drexel University (Philadelphia, Pa), as well as his PhD (1983). He joined Texas Tech in 1991. His research interests include orthopedic biomechanics, solid mechanics, high-pressure materials, and undergraduate education/online laboratory development. Welcome, Dr. Hashemi, to this new role in your career.

Dr. Javad Hashemi has been named the Associate Dean of Research for TTU's College of Engineering. He comes to the dean's office from Mechanical Engineering where he was a professor, director of graduate



The College of Engineering is pleased to announce that **Dr. Alan F. Jankowski** has joined TTU as the J. W. Wright Regents' chair and professor of mechanical engineering. Prior to joining Texas Tech, Jankowski was in the Chemistry and Materials Science department at Lawrence Livermore Laboratory for 20 years. He pursued his graduate studies in the College of Engineering at Rutgers University as a Trustees Fellow for Graduate Study, a Louis Bevier University Fellow, and a Rutgers Graduate Scholar. He earned an MS (1982), MPh (1983), and PhD (1984) in mechanics and materials science with his thesis on phase transformations and mechanical properties of nanostructured materials. Please join us at a reception to welcome Dr. Jankowski on

Tuesday, February 6, at 4:30 p.m. at the Merket Alumni Center.

The 2007 **Distinguished Engineers** have been named: David Barr ('71 BS mechanical), Baker Hughes, Inc.; Kem Bennett ('70 PhD industrial), TAMU Dwight Look College of Engineering; William Hagood ('69 BS civil), HDR Engineering, Inc.; and Harold Inman ('50 BS petroleum), Rincon Resources, Corp. The recognition ceremony and luncheon is Friday, March 30 at 11:30 a.m. in the Student Union Ballroom. All faculty and staff are invited to join in congratulating these outstanding engineers.



Wayne Reeder ('96 BS engineering technology; '99 ME), Engineering Technology lecturer/instructor, died on December 11. He joined TTU in 1997 as a teaching assistant and became a lecturer the following year. He was a member of *Tau Alpha Pi*, and served as a representative to the TTU Faculty Senate. He taught engineering graphics, computer programming, mechanical technology, advanced graphical design methods in engineering, process automation, and analysis of vapor and gas cycles. Among other family, he is survived by his grandson, Gage. Our condolences to his family and co-workers at Engineering Technology and the College of Engineering.

At their December meeting, TTU's Board of Regents' Facilities Committee approved \$10 million for the renovation and expansion of the **Livermore Auditorium** in the Chemical Engineering building.

Thank you to all who participated in the **State Employee Charitable Campaign**. The top two departments in the College of Engineering are Petroleum Engineering and Engineering Technology. Petroleum Engineering's goal was not only met but also they increased their giving over last year by 253 percent. Engineering Technology's increase was 166 percent. Thank you

for coming together to meet needs of our community and beyond.

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FACULTY AWARDS



Civil engineering assistant professor **Dr. Hongchao Liu** was quoted in the December 10 *Avalanche-Journal* in a story about Lubbock's semi-actuated traffic lights. In a 23-mile drive around the city, reporter James Gallagher driving with Jere Hart, Lubbock's traffic engineer, had to stop at just eight red lights, nearly half of which were due largely to road construction.

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DONATIONS

Yahoo! for Engineering! The Texas Tech Web site features the **Yahoo!** gift to the Center for Engineering Outreach on its home page: Yahoo! has announced that its co-founder, Jerry Yang, will donate \$250,000 to the Texas Tech University [Center for Engineering Outreach](#) over the next two years.

<http://www.depts.ttu.edu/communications/news/stories/06-12-yahoo-donation.php>

Terry ('77 petroleum) and Linda Fuller ('69 English) started the **Robert George Schlinkman Scholarship Endowment** to benefit undergraduate engineering students at Texas Tech, and to honor Linda's father.

The **Black Family Foundation**, led by C. Robert Black ('58 petroleum), recently gave a gift to support the Black Family Dean's Chair. The proceeds provide scholarships for College of Engineering students with a demonstrated financial need and who maintain a GPA of at least 2.5.

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GRANTS AND CONTRACTS

The Office of Naval Research funded the proposal, "Fundamental Understanding and Improvement of Energetic Reactions of Aluminum Particles with Oxidizers and Metals" with **Dr. Valery Levitas** as PI and **Drs. Alexander Idesman** and **Michelle Pantoya** as Co-PIs.

The National Science Foundation is continuing to support **Dr. Kishor Mehta's** research titled, "IGERT-Multidisciplinary Program in Wind Science & Engineering."

The National Storm Shelter Association will support **Dr. Ernst Kiesling's** work in civil and environmental engineering.

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STUDENT ACCOMPLISHMENTS

Fourteen **Engineering Outreach mentors** have been named for the 2006/2007 academic year. Chosen from the best-of-the-best engineering students, these scholars will bring engineering expertise to local schools by working with K-12 students and teachers to bring about more understanding regarding the field of engineering. The Engineering Outreach mentors are: Michael Bird (electrical engineering/computer science); Samuel Chanjaplammoitol (electrical engineering); Tasha Franklin (electrical engineering); Richard Geer (civil engineering/architecture); Tyler Hays (civil engineering technology); Larry Holloway (mechanical engineering); Garrett Johnson (mechanical engineering); Jacob McFarland (mechanical engineering); Amanda Mitchell (industrial engineering); Benjamin Reading (mechanical engineering); Kayla Sisk (civil engineering); Scott Smith (industrial engineering); Cyril Wafo (electrical engineering); and Keith Wyly (industrial engineering). Read more about these students and their goals at: <http://www.engineeringoutreach.ttu.edu/mentors/2006/>

The West Texas Boosting Engineering, Science, and Technology (**WT BEST**) competition was held at Texas Tech on December 1 and 2. Regional junior high and high school students braved the year's first snow to participate in an

engineering-based experience in a sports-like environment, tour the College of Engineering, and have lunch.

Thomas Holt, a PhD student in the Center for Pulsed Power and Power Electronics, received a travel grant from The Megagauss Institute to attend the 2006 International Conference on Megagauss Magnetic Field Generation and Related Topics, and present a paper on his work. The conference was held in Santa Fe, NM in November. Also, Holt and Horn Professor Kris Kristiansen recently attended a classified conference at Redstone Arsenal in Huntsville, AL where they presented papers related to the conference topic of "Multifunctional Warheads." <http://www.megagauss.org/>

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ALUMNI RECOGNITION



Cecil Pray ('31 civil) celebrated his 100th birthday on December 17. He attended TTU the first year it held classes, and worked as a civil engineer for the city of Lubbock and the local highway department. More information about Mr. Pray's life and accomplishments will be in the February 2007 issue of *Engineering Our Future*, the College of Engineering quarterly e-newsletter.

Photo courtesy of Avalanche-Journal

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EVENTS OF INTEREST

The Center for Pulsed Power and Power Electronics in conjunction with TTU's Outreach & Distance Education are sponsoring a **Pulsed Power and Power Electronics** short course January 9-12, 2007. The short course is designed for electrical engineers, mechanical engineers, physicists, and any other professionals who are involved in the work of pulsed power and power electronics (P3E). Attendees will be introduced to the basics of pulsed power technology. Each topic will be covered in a two-to-three hour lecture format, and the short course is all day each of the four days. CEUs (2.9) will be awarded for participation in the entire short course. Registrants include representatives from the United Kingdom, Germany, Japan, and the U.S. For more information, call Professional Development and Community Outreach at 806-742-7200, ext. 270 or 284, via e-mail at outreach.ode@ttu.edu or visit Web site at www.ode.ttu.edu.

Engineering Ethics Day 2007 is scheduled for Tuesday, February 13. This event is the College of Engineering contribution to Texas Tech Ethics Week, a continuation of the campus conversation on ethics begun at a similar event last year. Students, faculty, staff, alumni, and guests are invited to join the conversation by attending the seminar on Tuesday, February 13 at the Allen Theatre (Student Union Building) from 3:00 p.m. to 5:00 p.m. Keynote speakers are Col. Joe Manous Jr., PhD, PE, academy professor of environmental engineering at the U.S. Military Academy, West Point, New York and David Wight ('64 BS petroleum), retired president and chief executive officer of Alyeska Pipeline Service Company in Anchorage, Alaska. More information about the program and guest speakers will be forthcoming.

February 19 - 23 is **Engineering Week**. All facets of engineering will be highlighted with special events during the week including a research open house on Thursday, February 22. High school students from Lubbock and the surrounding communities as well as current Texas Tech students will be invited to attend to learn about engineering research, education, and careers. Watch the Web site for more information: www.coe.ttu.edu



Pantoya Family
Credit KCBD.com

Representatives from University Medical Center presented **Michelle Pantoya**, associate professor of mechanical engineering, and her husband with the "Raymond Davis Citizen Hero Award," given to members of the public who perform extraordinary acts with a little help from first responders. The award was given to the family for their calm cooperation with emergency medical service personnel who guided them in the delivery of their son, Mitchell, when he wouldn't wait to get to the hospital before birth. The award is named after a paramedic who died in 2003 while on duty.

<http://www.kcbd.com/Global/story.asp?S=5836850>

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CALENDAR OF EVENTS

- February 6: Jankowski Reception - Merket Alumni Center - 4:30 p.m. to 5:30 p.m. - Reception honoring Alan F. Jankowski, PhD, J. W. Wright Regents' Chair and professor of mechanical engineering.
- February 13: Ethics Day - Allen Theatre, Student Union Building - 3:00 p.m. to 5:00 p.m.
- February 13: Red & Black Day, Austin. Administrators and alumni will bring the TTU message before the 2007 legislative session.
- February 13-15: Job Fair - Student Union Ballroom - 10:00 a.m. to 3:00 p.m.
- February 19-23: Engineering Week - a full schedule of events, locations, and times will be listed on the COE Web site: <http://www.coe.ttu.edu>
- February 23: All Engineering Student Contest and Lunch - location tbd
- February 23: Iron Ring Order of the Engineer ceremony - location tbd - 7:00 p.m.
- February 24: Honors Convocation - Student Union Ballroom - 9:30 a.m. to 11:00 a.m.

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IS YOUR NEWS LISTED HERE?

If not, submit it through your department's editor:

Civil and Environmental	Andrews, Glenna
Petroleum	Blackmon, Joan
Computer Science	Digby, Mysti
Mechanical	Hernandez, Carmen
Chemical	Hudson, Jan
Engineering Technology	McMurray, Jodi
Electrical and Computer	Willingham, Sandi
Industrial	Wilson, Terry

The COE e-newsletter will be posted online on the first week of the month. News submission deadline is the 28th of the month for inclusion in the following month's e-newsletter.

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Dean of Engineering: Pamela A. Eibeck, PhD
Editors: Chris Letchford, PhD, CPE; Sharon Smith
Technical Editors: Jonathan Cotton; Nick Rinker

Mailing Address: Box 43103
Lubbock, TX 79409-3103
Phone: 806-742-3451
Web site: <http://www.coe.ttu.edu>

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