WELCOME TO THE FIRST ISSUE OF THE COLLEGE OF ENGINEERING TODAY!

The purpose of this e-newsletter is to share with all employees the accomplishments that have been made by your colleagues and the recent events that have occurred in the college. At the bottom of this issue is the method for submission of items to be included. We encourage you to let us know about news from your discipline.

**NEWS**

Texas Tech’s College of Engineering ([www.coe.ttu.edu](http://www.coe.ttu.edu)) is ranked in the top 100 of America’s Best Graduate Schools of Engineering for 2007 by *U.S. News & World Report*, with a rank of 93. The undergraduate program tied for the 87th spot as ranked in the 2006 *U.S. News & World Report*, up from 92nd last year.


TTU grads passed the Fundamentals of Engineering exam given in April 2005 with an 89 percent pass rate compared to the state average of 71 percent. There were 19 top performers (a score of 90 or higher) in the state; five of those were from TTU. For the exam given in October 2005, the state average pass rate was 55 percent while Texas Tech’s pass rate was 81 percent! We look forward to seeing our progress in the results of this year’s exams.

Lloyd Heinze, Professor and Chair of Petroleum Engineering, is featured in an upcoming issue of *Vistas*. Heinze’s data on enrollment trends reflect a recent increase in petroleum engineering student registrations. Speculation is that as oil and gas booms again with demand soaring and prices surging, so too will the need for petroleum engineers.

Cure for the gas pump blues? Timothy Maxwell, Professor of Mechanical Engineering, says hybrid electric vehicles with diesel engines could be even more efficient than hybrids fueled by gasoline, though he noted that they are more expensive. [http://www.texastech.edu/communications/display_article.php?id=2001](http://www.texastech.edu/communications/display_article.php?id=2001)

In January, the Coordinating Board approved a PhD degree in systems and engineering management, residential and distance delivered. This effort was led by Industrial Engineering Associate Professor Mario G. Beruvides.

Texas Tech’s computer science engineering program at the Abilene teaching site will expand its mission by offering a doctoral program with the recent Coordinating Board approval. Additionally, master’s degrees in systems engineering and management, and a doctoral degree in educational leadership will be offered. [http://www.reporter-news.com/abil/nw_ed_coll_univ/article/0,1874,ABIL_7950_4641891,00.html](http://www.reporter-news.com/abil/nw_ed_coll_univ/article/0,1874,ABIL_7950_4641891,00.html)

Ernst Kiesling was quoted in a Nevada YubaNet article explaining the national Storm Shelter Association’s standards for storm shelters. The Wind Science and Engineering Research Center testing was also described. [http://www.yubanet.com/cgi-bin/artman/exec/search.cgi](http://www.yubanet.com/cgi-bin/artman/exec/search.cgi)


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TTU civil engineers Professor Chris Letchford and Research Associate Larry Tanner have been called on to speak to the impact that hurricanes have on engineered structures and the rebuilding effort. [http://www.texastech.edu/news/currentNews/display_article.php?id=1987](http://www.texastech.edu/news/currentNews/display_article.php?id=1987)

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The College of Engineering research funding has seen a 16 percent increase over last year at this time; graduate applications have increased by 12 percent.

The challenge of adequate water resources research by Civil Engineering Associate Professor Andrew Jackson and Assistant Professor Audra Morse was highlighted in a recent issue of Vistas. 

GIFTS

Executive Vice President Phil Frederickson, along with other ConocoPhillips representatives, presented a $202,500 gift to the College of Engineering to provide scholarships, student organization support, and a research and development fellowship.

The ExxonMobil Foundation gave $88,500 to the College of Engineering. These funds are matching gifts to TTU by ExxonMobil employees, retirees, and surviving spouses.

AWARDS

Glenna Andrews, Civil Engineering Advisor, and Tonette Rittenberry, Mechanical Engineering Advisor, were nominated for the President’s Excellence in Academic Advising award.

Mario Beruvides, Professor of Industrial Engineering, is a recipient of a Faculty Incentive Grant for 2007. He, in association with Robert E. McDonald, Business Administration, won for their proposal, “TTU Teaching Academy-Development of a Cross Disciplinary Journal on the Scholarship of Teaching and Learning.”

John Chandler’s proposal, "Pilot Dissemination of Aeroscience Principles of Technology Course and Training Teachers Using Aerospace Projects to Teach STEM Content," was funded recently by the Texas Space Grant Consortium.

Daniel E. Cooke, Professor of Computer Science, has received the Institute of Electrical and Electronics Engineers, Inc., Computer Society’s Technical Achievement award for SequenceL research.

Associate Professor of Electrical and Computer Engineering Tim Dallas and his team won the 2006 Sandia MEMS Design competition in the Characterization/Reliability/Material and Surface Science category. In 2005, they won the Sandia MEMS competition in the Novel Design category.

Dean Pamela A. Eibeck has been named to the Advisory Committee of the TTU Chancellor Search Committee of the Texas Tech Board of Regents. This committee, working with the Search Committee, will help identify potential candidates, assist with initial screenings of candidates, and ensure that their respective constituency groups are kept up to date on the progress of the search.

Stephen Ekwaro-Osire, Associate Professor of Mechanical Engineering, is the recipient of the 2005-2006 Dr. Charles L. Turford Faculty Teaching Award for the College of Engineering.

Dean Fontenot, Director of the Center for Engineering Outreach, has been named to the steering committee for the Revolutionary Aerospace Systems Concepts Academic Linkage (RASC-AL) program. Developed by NASA and the University Space Research Association, RASC-AL is an initiative that links universities with the Revolutionary Aerospace Systems Concepts program at NASA’s Langley Research Center in Virginia.

Jan Hudson, Chemical Engineering, and Tonette Rittenberry, Mechanical Engineering, received the Orval Leroy Lewis 2006 College of Engineering staff award for demonstrating a positive and friendly attitude toward all their colleagues, and for committing personal energy over and above that required by their job description.

Andrew Jackson, Civil Engineering Associate Professor, is among the authors of "The Origin of Naturally Occurring Perchlorates: The Role of Atmospheric Processes," 2005 recipient of the Environmental Science & Technology (ES&T)
Environmental Science Paper of the Year. ES&T is one of the American Chemical Society’s peer-reviewed journals.

Tanja N. Karp, Associate Professor of Electrical Engineering, is the recipient of the 2005-2006 George T. and Gladys Abell-Hanger Faculty Award for the College of Engineering, and the Spencer A. Wells Faculty Award for Creativity in Teaching by the Texas Tech Association of Parents.

Valery Levitas, Professor of Mechanical Engineering, received the American Medal of Honor from the American Biographical Institute.

Greg McKenna, Horn Professor of Chemical Engineering, is the 2006 recipient of the George Whitby Award for Distinguished Teaching. The award from the Rubber Division of the American Chemical Society recognized his outstanding career and contributions to the rubber industry.

Audra Morse, Assistant Professor of Civil Engineering, is the recipient of the 2005-2006 Texas Tech Alumni Association New Faculty Award for the College of Engineering. She also received the 2006 ExCEED New Faculty Excellence in Teaching Award from the American Society of Civil Engineers and the TTU Parents Hemphill-Wells New Professor Excellence in Teaching Award.

R. Heyward Ramsey, Associate Professor of Civil Engineering, is the recipient of the 2005-2006 Halliburton Teaching Excellence Award for the College of Engineering.

Mohammad Saed, Associate Professor of Electrical and Computer Engineering, is the recipient of the 2005-2006 Lockheed Martin Teaching Award for the College of Engineering.

Ted Weisner, Associate Professor of Chemical Engineering, is the recipient of the 2005-2006 President’s Excellence in Teaching Award for the College of Engineering.

For more information:

STUDENT ACCOMPLISHMENTS

Mary Donahue, Electrical Engineering master’s student, has been named a Fulbright Scholar for the 2006/2007 academic year. Her TTU undergraduate degree is also electrical engineering. Mary’s area of research centers on MEMS and NEMS sensors and actuators. She will be doing her research at the Center of Micro- and Nanotechnologies at the Technical University of Ilmanau in Ilmanau, Germany. She has been an intern at Texas Instrument working on semiconductor product engineering. Her advisors are Drs. Jordan Berg and Richard Gale. Dr. Tanja Karp, who has been a mentoring influence throughout Mary’s undergraduate career, was instrumental in encouraging her to apply for the program.

Suzanne McDonald, Electrical Engineering sophomore, was awarded a two-year, $15,000 scholarship beginning with the 2006-2007 academic year, based on academic merit, from the Barry M. Goldwater Scholarship and Excellence in Education Foundation. Her field is micro air vehicles, and she is a member of the TTU Honors College. Her advisor is Dr. Ram Iyer.

The Industrial Advisory Board named senior Ross Nieman as Outstanding Student for the Engineering Technology department for 2006. He was chosen on the basis of his contributions to his department, assistance to fellow students, leadership, and scholastic achievement.

Nilmini Wijeratne, Chemical Engineering graduate student, was awarded a Paul Whitfield Horn Fellowship for Women Graduate Students for the 2006-2007 academic year.

Eleven members of the J. H. Murdough American Society of Civil Engineers (ASCE) traveled to Beaumont, Tex. in late April to attend the Spring Texas Section ASCE meeting and to participate in the annual concrete canoe competition.

The student design/build team representing the construction program in the department of Engineering Technology won first place in its division at the Associated Schools of Construction (ASC) Region 5 Student Competition hosted by QUOIN Chapter of the Associated General Contractors (AGC) of America (http://quoin.org/default.asp) held on February 11-14,
2006, in Dallas, Tex. They brought home a trophy that is on display in the Engineering Technology office.

The Electrical and Computer Engineering department in cooperation with the IEEE South Plains Section and its TTU student chapter hosted Project Demonstration Day on April 29—a competition for sophomore student-designed robots to navigate in a relatively small area by guidance of a Global Positioning System sensor. These systems have direct military applications in unmanned vehicles as well as show great promise for future civilian applications. Drs. Jim Dickens and Richard Gale are sponsoring faculty members.

Electrical and Computer Engineering (ECE) faculty named outstanding students for the department. Those recognized are Suzanne McDonald, Outstanding Sophomore; Brandon Moretz, Outstanding Junior; Stephanie Walters, Outstanding Senior; and Najib Nawas, Outstanding Graduate Student. The ECE students selected Dr. Timothy Dallas as Outstanding Faculty for 2006.

Petroleum Engineering students Olaluwa Adepoju, Chad Kronkosky, Simeon Losoha, Andrew Oghena, Simo Stephane, and Laski Tesalonika are winners of the Seventh Annual Student Paper Contest. They traveled to A&M for the Society of Petroleum Engineers Gulf Coast Regional contest.

TTU’s chapter of IAESTE was named the 2005-2006 Outstanding Newcomer Student Association by the Center for Campus Life on April 28. Drs. Ron Cox and Tanja Karp are advisors.

The TTU AIChe student chapter will host the 2007 Southwest Regional Conference next spring. TTU is one of nine schools in Texas and Louisiana that takes turns hosting this conference.

From Here, It’s Possible—a new effort to collect stories about the successes and accomplishments of Texas Tech's alumni, faculty, students, and staff caught the eye of several grateful engineering students. Five students submitted entries: Ibegbuna Ezisi, Simeon Losoha, Olamide Oguntuga, and Maanisaad Shahriar (all petroleum), and Daniel King (electrical/computer science).

http://www.texastech.edu/possible/

ALUMNI RECOGNITION

The College of Engineering recently named three Distinguished Engineers: Ajay M. Marathe (’83 Industrial), president and corporate vice president, Advanced Micro Devices India, Bangalore, India; Jerry L. Morgensen (’65 Civil), chairman and CEO, Hensel Phelps Construction Co. Greeley, Colo.; and Travis A. Simpson (’81 Electrical), vice president of Dell Inc.’s North Carolina operations, Winston-Salem, N.C. A ceremony was held in April to honor these alumni and recognize their accomplishments.

http://www.texastech.edu/stories/0604-engineering-alumni.php

The TTU Academy of Petroleum Engineers inducted three new members in April: Joe Feagan ‘60, Johnny W. Mulloy ‘60, and Howard W. Swaim ‘43.

http://lubbockonline.com/stories/041506/loc_041506045.shtml

This April at the IEEE Student Banquet, five alumni were inducted into the ECE Academy. Dr. Steve Calico (’86 MS; ’91 PhD), senior program manager for Research and Technology at Lockheed Martin in Fort Worth, Tex. and Randy Gurley (’78), general manager at AT&T in San Antonio, Tex. were inducted by Drs. Jon Bredeson and Tom Trost. Also inducted was Dr. Diana Loree (’86 BS; ’88 MS; ’91 PhD), active denial technology program manager and active denial system ACTD technical manager at the Air Force Research Laboratory in Albuquerque, NM. Dr. Juan Manual Ramirez Cortez (’91), Titular professor in the electrical engineering department at the Universidad de las Americas in Puebla, Mexico, and Dr. Yonhua "Tommy" Tzeng (’81 MS; ’83 PhD), professor in the electrical and computer engineering department at Auburn University in Auburn, Ala., were also inducted.

Sean P. Cudnoski (’99 Civil) was named Young Engineer of the Year by the South Plains Chapter of the Texas Society of Professional Engineers. Cudnoski is a graduate of Texas Tech and is employed by Parkhill, Smith and Cooper, a Lubbock-based engineering/architectural firm, where he serves as a civil engineer and project manager in road design.

Dain Hancock (’64 BS; ’66 MS Mechanical), has been named the 2006 Distinguished Alumnus by the Texas Tech Alumni Association. A ceremony hosted by the Alumni Association will honor him in the fall. Mr. Hancock is the retired Lockheed Martin executive vice president and president, Aeronautics Company. He was named by the College of Engineering as a
Distinguished Engineer in 1999.

EVENTS OF INTEREST

The College of Engineering honored the Class of 1956 with a 50th Class Reunion luncheon on May 4, in conjunction with the Alumni Association activities surrounding commencement.

The Iron Ring Ceremony for engineering students will be held on May 12. Sixty-six graduating seniors will be inducted into the society. The Iron Ring Society serves as a reminder of the engineer's duty to serve society, similar to the Hippocratic Oath in medicine. Wearing the engineer's ring symbolizes pride in being an engineer, and a moral and ethical responsibility to society.

The College of Engineering was a co-sponsor for Ethics Day â€“ 2006. Don Cash ('66 Industrial), chairman emeritus and director, Questar Corporation; Judge Royal Ferguson ('64 English), U.S. District Judge, El Paso, Texas; and Lynn Brewer, author of Confessions of an Enron Executive, were speakers. Nearly 2,000 attendees from Texas Tech and neighboring communities heard stories and examples of why ethics is critical to success. Thanks to the Murdough Center for Professional Ethics as well as COE staff, Patti Harper, and faculty, Dr. Jimmy Smith.

http://lubbockonline.com/stories/040706/loc_040706057.shtml

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http://scitation.aip.org/coo

IN MEMORIAM

Timothy Lee Graves, dean's list computer science major, died suddenly on April 22. Our condolences to his family. It is always such a tragedy when a young person with so much promise is taken so soon.

IS YOUR NEWS LISTED HERE?

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

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Our plan is to post this e-newsletter online on the 5th of each month. News submission deadline is the 28th of each month.

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