



NOVEMBER 2011

APPOINTMENTS, RETIREMENTS AND RESIGNATIONS

There were no appointments or resignations this month.

AWARDS AND RECOGNITION

Dr. Wei Fan has been nominated by TxDOT for the 2012 Franz Edelman Award for Achievement in Operations Research and the Management Sciences, Institute for Operations Research and the Management Sciences (INFORMS).

Dr. J. Torey Nalbome has been nominated as Vice-Chair Elect for the American Conference of Industrial Hygienists (ACGIH) on the 2012 ballot for officers.

Dr. J. Torey Nalbome has been named as the American representative to the International Occupational Hygiene Association's National Accreditation Review committee by the American Board of Industrial Hygiene.

The *Journal of Real Time Image Processing*, of which Dr. Mukul Shirvaikar is an associate editor, is now included in the Thomson Reuters Citation Index with an impact factor of 0.962 for 2010.

RESEARCH CONTRACTS AND PROPOSALS

New Faculty Grants and Contracts

There were no new grants of contracts this month.

Student Grants

There were no new student grants this month.

Proposals Submitted

"Capacity Building Training for Public Water Systems in the State of Texas," Sponsor: Texas Commission on Environmental Quality, Budget: \$58,866.90 PI: Dr. Pete Rogers.

"The UT-Tyler Science Content, Assessment, and Teaching", PI: Bambi Bailey, Co-PI: Fredericka Brown, Texas Higher Education Coordinating Board, \$105,928.

PUBLICATIONS AND REPORTS

Papers and Publications

Wei Fan, et al., "Equipment Replacement Optimization: Dynamic Programming-Based Optimization," Accepted for both Publication in 2012 *Transportation Research Record* and Presentation at the 91st Annual Meeting of the *Transportation Research Board*, January 22-26, 2012, National Research Council, Washington, D.C.

Wei Fan, Leonard Brown, et al., "A Stochastic Dynamic Programming Approach for the Equipment Replacement Optimization with Probabilistic Vehicle Utilization," Accepted for Presentation at the 91st Annual Meeting of the *Transportation Research Board*, January 22-26, 2012, National Research Council, Washington, D.C. Submitted to ASCE Journal of Transportation Engineering for Publication.



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Smith, A. D., Mago, P.J, and Fumo, N. "Impact of CHP System Component Efficiencies on the Economic Benefit of CHP Systems Using Spark Spread Analysis." ASME 2011 International Mechanical Engineering Congress & Exposition (IMECE2011), November 11-17, 2011, Denver, Colorado, USA.

Research Reports

Wei Fan, Leonard Brown, Casey Patterson, Mike Winkler, Justin Schminkey, Kevin Western, Jason McQuigg, Heather Tilley, "Equipment Replacement Optimization," Texas Department of Transportation (TxDOT) Project No. 0-6412 Technical Report; 150 Pages. Report Number: CECS-2011-03 October 2011.

Nelson, J. K., " Acceleration Force Measurements with the Verhoef FL50-ULS-WC Scale Model Free-Fall Lifeboat," Prepared for Verhoef Aluminium Scheepsbouw Industries, Aalsmeer, Netherlands, University of Texas at Tyler College of Engineering and Computer Science Report No. CECS-2011-05, November 2011.

Student Theses Completed

"An Evaluation of CMOS Adders for Robustness and Fault Detectability in Nanoscale Technologies," Sowjanya Puttagunta, MSEE Thesis, Advisor: David Hoe

"Study of deep submicron analog circuit testing techniques under process variations," Alejandro Gonzalez, MSEE Thesis, Advisor: David Hoe

CONFERENCES AND SYMPOSIA ATTENDED

Stephen B. Rainwater participated in the World Science Forum in Budapest, Hungary November 16 – 19, 2011. In his role as campus director for the UT Tyler LSAMP program, Dr. Rainwater accompanied junior biology major Juan Macias who attended the conference as a result of his involvement as an undergraduate research fellow in the LSAMP summer and academic year research programs.

Nary Subramanian attended and completed the five-day basic forensics training workshops offered by TxFRST Institute of UT Tyler from November 14th through 18th; the workshops included: CF101 Introduction to Cyber Crime, CF102 Forensics Tools and Techniques, CF204 Search and Seizure of Computers, and Electronic Evidence Workshop.

The Electrical Engineering faculty attended training sessions on Labview and Multisim design tools presented by National Instruments Inc.

STUDENT ACTIVITIES

Construction Managements coordinated a handicap awareness event on campus to draw attention to the difficulties of handicap access on campus and the need for improved access.

COLLABORATION WITH THE COMMUNITY

Cherie Jones' CMGT 4331 Scheduling class presented a New Development/Scheduling Project on November 17, 2011. The local schools that attended were Bullard, Whitehouse, Overton, John Tyler, T.K.Gorman, Wells, Hawkins, and West Rusk. The companies that attended were Pulte Homes, Ingersoll Rand Trane Residential, Haberle Construction, Stonebridge Heating and Air Conditioning, Barrett Homes, Tyler Area Builders Association, Sinclair and Wright Architects, and Pyramid Homes. The guests were invited in support of student projects, network with companies, and to give feedback on projects. After the



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presentation, CMA members gave a tour of the College of Engineering facility to local high school students.

Local high school and industry representatives visited the Construction Management and Electrical Engineering departmental laboratories for an informational tour of the facilities. The visit was organized by Cherie Jones.

Luca Fanelli, Senior Electrical Engineer from SPEA America, presented an invited talk to the Electrical Engineering students about the semiconductor test industry on November 1, 2011.

Nader Farahat, Senior Electrical Engineer from General Dynamics presented an invited talk to the senior engineering students on Antenna Design and production on November 7, 2011.

Capstone Design Projects

No capstone design projects were completed this month. Normally these projects are completed in the spring semester.

PROGRAMS AND INITIATIVES

Programs

The University of Texas at Tyler has entered into a Memorandum of Understanding with Houston Community College to offer completion programs for our engineering degrees in Houston. The target starting date at present is fall 2013.

New Initiatives

The University of Texas at Tyler, The University of Texas Pan American, and Texas A&M University Kingsville were the first signatories to accept the new state-wide Associate of Science in Engineering Science degree program at an announcement in the Valley on November 11th. The community college partners in the event were Texas State Technical College at Harlingen and South Texas College.

UPCOMING EVENTS

- December 10, TCEA Robotics Contest
- December 13, Fall Advisory Council Meeting
- December 17, Fall graduation
- February 4, FTC Robotics Contest
- February 15, MathCounts
- February 18, Vex Robotics Contest

BIRTHDAYS NEXT MONTH

- Ginny Soong- December 7th
- Arun Kulkarni-December 14th