Quest
Research • Scholarship • Creative Activity

THE UNIVERSITY of TENNESSEE KNOXVILLE

AWARDS AND RECOGNITIONS

http://research.utk.edu SEPTEMBER 14, 2011

AWARDS FOR AUGUST 16–SEPTEMBER 6, 2011

INVESTIGATOR	TITLE	SPONSOR	AWARD
COLLEGE OF ARTS & SCIENCES			
Burr, Devon	Environmental Implications of Highly Sinuous Channels on Mars	University of Virginia	$22,559
Camden, Jon	Imaging Plasmonic Hot-Spot & Analyte Location in Single Molecule Surface Enhance	U.S. Department of Energy	$15,000
Chaffin, James; Feller, Daniel	The Papers of Andrew Jackson	Tennessee Historical Commission	$3,190
Dadmun, Mark	ACS Fall Symposium: Polymer Coatings for the Environment, Energy and Sustainability	Office of Naval Research	$7,560
Dai, Pengcheng	Study Magnetic Excitations in Doped Transition Metal Oxides Using Inelastic Neutron Scattering	U.S. Department of Energy	$197,846
Dai, Pengcheng	Study Magnetic Excitations in Doped Transition Metal Oxides Using Inelastic Neutron Scattering	U.S. Department of Energy	$220,000
Day, Judy; Djouadi, Mohamed	Modeling and Adaptive Control of Complex Immune Responses	National Science Foundation	$270,000
Emery, Joshua	IRAC Reflectances of Resonant KBOs and Scattered Disk Objects	NASA - Jet Propulsion Laboratory	$30,860
Fedo, Christopher	Geochemical and Iron Isotopic Investigation of Precambrian Banded Iron Formation (3.8-1.9 Ga)	NASA - Headquarters Washington DC	$60,645
Freeberg, Todd	Experimental Psych Practicum	BWXT Y-12, LLC	$17,600
Gross, Louis	National Institute for Mathematical and Biological Synthesis (NIMBioS)	National Science Foundation	$520,828
Hollenbach, Kandace	Subsistence Analysis of the Oxford Recreation Facility, Calhoun County, Alabama	Goodwyn, Mills Cawood, Inc.	$33,582
Moreo, Adriana; Dagotto, Elbio	Computational Studies of Model Hamiltonians for Pnictides and Multiferroic Manganites	National Science Foundation	$120,000
Sanders, Nathan	DIMENSIONS: Collab. Res: The Climate Cascade: Functional and Evolutionary	National Science Foundation	$171,286
Sorensen, Soren; Read, Kenneth	Studies of Hot and Dense Nuclear Matter	U.S. Department of Energy	$309,000
Sparer, Tim	ARRA: Viral Chemokine Alteration of Neutrophil Functions	National Institutes of Health	$27,564
Weitering, Hanno	Ultrathin Oxide Growth and Characterization	UT-Battelle - ORNL	$49,024
Welsh, Deborah	Predictors of Emergent Risk and Integrity Lapses (PERIL) - An Empirical	BWXT Y-12, LLC	$20,000
Wilhelm, Steven	Biological Degradation of Microcystins: A First Step Towards Biofilters for High	National Oceanic & Atmospheric Administration	$182,981
COLLEGE OF BUSINESS ADMINISTRATION			
Bozdogan, Hamparsum	Exploiting the Use of Social Networking to Facilitate Collaboration	Information International Associates	$65,300
Murray, Matthew	Economic Forecasting Services for the Tennessee Valley Authority	Tennessee Valley Authority	$117,060
Petersen, Kenneth; Tate, Wendy	Offshoring Trends Research Project	Council of Supply Chain Management Professionals	$35,000
COLLEGE OF EDUCATION, HEALTH & HUMAN SCIENCES			
Ciancio, Dennis	Development of Integrated Text-Level Curricula for Kindergarten Through Second Grade	U.S. Department of Education	$469,299
Gardner, Diane	EFF WorkPATHS (Partnerships for Achieving Training, Hiring, and Success)	Dollar General Literacy Foundation	$151,500
Moran, Mary	A Competency-Based Licensure Model for Head Start Teachers	Knox County Schools	$39,913
Riechert, Susan; Benner, Susan	VolsTeach Noyce Scholarship & Internship Program	National Science Foundation	$1,196,592
COLLEGE OF ENGINEERING			
Cao, Qing Charles	CAREER: Operating System Based Energy Virtualization for Sensor Networks	National Science Foundation	$82,606
Cao, Qing Charles	CSR: Small: Collaborative Research: Autonomous Failure Detection and Recovery	National Science Foundation	$150,000
Clarke, David	Cross-Walk Tables Assistance	UT-Battelle - ORNL	$20,784
Clarke, David	Comparison of Cost Effective and Environmentally Friendly Roadside Weed Control	Tennessee Department of Transportation	$150,000
Frankel, Jay; Keyhani, Majid	EAGER: Experimental Verification of a Transformative Calibration Method	National Science Foundation	$9,003
Frankel, Jay; Keyhani, Majid	Application of Calibration Convolution Integrals to Diffusion Transport	National Science Foundation	$28,954
George, Easo	Investigate Silicon Effects in DOP-26 Iridium Alloys	UT-Battelle - ORNL	$50,000
Hall, Howard	Pu Disposition Program Engineering Analysis	UT-Battelle - ORNL	$93,162

AWARDS FOR AUGUST 16–SEPTEMBER 6, 2011 (CONT.)			
INVESTIGATOR	TITLE	SPONSOR	AWARD
Hayward, Jason	Alternative Detector System to Replace He-3 Detectors for Neutron Sciences	UT-Battelle - ORNL	$40,000
Irick, David	PHEV Engine Control and Energy Management Strategy	UT-Battelle - ORNL	$17,751
Liao, Haitao	Collaborative Research: Defect Modeling and Process Optimization for Nanowire	National Science Foundation	$168,000
Ma, Zhongguo; Burdette, Edwin	Development Length and Shear Behavior of AASHTO-PCI BT Girders with Larger	Tennessee Department of Transportation	$198,000
Maldonado, Guillermo	End-to-End Lattice Physics to Core Design Educational Modules for Nuclear Fuel	Nuclear Regulatory Commission	$59,728
Ray, William	Viability of Stochastic Parallel Gradient Descent Algorithms in Extremely Large	Defense Advanced Res Project Agency (AS400)	$81,799
Schwartz, John	Engineering Design Procedures and Standard Drawings for Highway Construction	Tennessee Department of Transportation	$55,600
Tomsovic, Kevin; Li, Fangxing; Liu, Yilu; Tolbert, Leon; Wang, Fei	ERC for Ultra-Wide Area Resilient Electric Energy Transmission Network	National Science Foundation	$3,250,000
Townsend, Lawrence	Additional Improvements to the Hzetrn Code and the Nucfrg2 Database	NASA - Langley Research Center	$50,000
Wirth, Brian	Modeling Materials Evolution in Fusion Plasma Environments	UT-Battelle - ORNL	$85,000
COLLEGE OF SOCIAL WORK			
Campbell, Paul; Cunningham, Maryanne	LeBonheur Children's Hospital Training Needs Assessment Study	Children's Foundation Research Center. LeBonheur	$20,737
CAMPUS CENTERS & INSTITUTES			
Ahern, Sean; Huang, Jian; Klasky, Scott	ARRA: NCS Remote Data Analysis and Visualization Center	National Science Foundation	$1,755,883
Bell, Larry	Sigma Space - NASA/LBA	Sigma Space Corporation	$13,567
Cole, Gregory	GLORIAD in Africa	US AID - Higher Education for Development (HED)	$1,500,000
Sheffield, John	The Role of Developing Countries in Fusion Energy	UT-Battelle - ORNL	$10,002
OTHER			
Wood, Pia	Peace Corps Recruiter	Peace Corps	$14,300

RECOGNITIONS

Five faculty members from the UT College of Law have had articles appear in the Legal Studies Research Paper Series of the Social Science Research Network: **Wendy Bach, Joan Heminway** (two articles), **Jennifer Hendricks, Becky Jacobs,** and **Alex Long. Gregory Stein,** associate dean for faculty development, edits the series.

Robert Hatcher Jr., distinguished professor in earth and planetary sciences, was recently named Outstanding Educator for 2011 by the Eastern Section of the American Association of Petroleum Geologists.

Witek Nazarewicz, professor of physics, and a colleague from the University of Arizona recently conducted the International Workshop on Nuclear Physics at the National Institute for Theoretical Physics in Stellenbosch, South Africa. The National Science Foundation supported the workshop.

The National Bureau of Economic Research (NBER) has appointed **Michael Price,** an assistant professor of economics, as a Faculty Research Fellow in the Environmental and Energy Economics program. NBER is the nation's leading non-profit economic research organization, and researchers are appointed through a nomination process. Price is the first UTK researcher to join the NBER.

Karla Wozniak, assistant professor of art, recently had her work featured in a *New York Times* review of an exhibition at the Bronx Museum titled "Bronx Calling, The First AIM Biennial." The review discussed Wozniak's work and one of her paintings was selected to illustrate the article.

Joel Smith, an undergraduate physics major enrolled in UT's VolsTeach program, was one of two UTK students invited to the 5th annual UTeach Institute-National Math and Science Initiative Conference at the University of Texas in Austin, where he won one of two top prizes for student posters.

Do You Want to be Recognized?

The *Awards and Recognitions* newsletter seeks news of recent scholarly honors received by UTK faculty, graduate students, and undergraduates. Direct news items to Bill Dockery (dockeryb@utk.edu).

WANTED: Scholar of the Week Nominations

The Office of Research is seeking nominations for the **Quest Scholar of the Week,** a service that recognizes faculty who have shown recent accomplishment in research, scholarship, and creative activities.

Deans, department heads, and faculty members are eligible to nominate faculty for the honor. Nominations should include a short paragraph with department and rank, specific field of work within the discipline, and the scholar's most recent noteworthy accomplishment. Direct nominations to Alan Rutenberg (arutenberg@utk.edu).

The University of Tennessee, Knoxville, is an EEO/AA/Title VI/Title IX/Section 504/ADA/ADEA institution. *Awards & Recognition* is published on alternate weeks for the faculty of UT Knoxville by the Office of Research with assistance from UT Creative Communications. Job #9201
For submissions or information, contact **Bill Dockery** by e-mail at **dockeryb@utk.edu** or call 865-974-2187. Archived online at **http://research.utk.edu/news.**