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Awards and Recognitions

Office of Research & Engagement

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11-11-2009

## Office of Research, Awards & Recognition, November 11, 2009

University of Tennessee Office of Research

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## AWARDS AND RECOGNITIONS

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NOVEMBER 11, 2009

### AWARDS FOR OCTOBER 16–NOVEMBER 5, 2009

INVESTIGATOR	TITLE	SPONSOR	AWARD
<b>COLLEGE OF ARTS &amp; SCIENCES</b>			
Allison, David Post	Destroying Pathogenic Bacteria Using Targeted-Nanoparticles	UT-Battelle - ORNL	\$103,828
Burr, Devon Marjorie	Aeolian Sediment movement under Titan conditions: wind tunnel experiments and modeling	NASA - Headquarters Washington, DC	\$11,485
Dagotto, Elbio Ruben	Distinguished Scientist	UT-Battelle - ORNL	\$40,166
Egami, Takeshi	Atomistic Study of Bulk Metallic Glasses	UT-Battelle - ORNL	\$20,190
Goodchild, Rose Ellen	Developing a Cell-Free Assay of TorsinA Activity	Tyler's Hope for a Dystonia Cure Inc	\$25,000
Gross, Louis J.	Development of Selected Model Components of an Across-Trophic Level Systems Simulation (AtLSS) for the Wetland Ecosystems of South Florida	US Geological Survey, BRD	\$60,000
Hollenbach, Kandace Renee	Processing and Paleoethnobotanical Analysis of Samples from 1Mb420, Mobile County, Alabama	Robert E. Perry & Associates	\$3,590
Kabalka, George W.	Subcellular/Cell Cycle Born-Delivery Studies of Unnatural Amino Acids by SIMS	Cornell University	\$47,360
Mckay, Larry D.; Layton, Alice Camille	EID Collaborative Research: Does Arsenic Mitigation in Bangladesh Raise Exposure to Bacterial and Viral Pathogens	Columbia University	\$87,465
Nash, Michael R.	Practicum Experience in Clinical Psychology for Students	Helen Ross McNabb Center	\$10,000
Peterson, Cynthia B.	Graduate Research Assistant - Nicole Edwards	UT-Battelle - ORNL	\$74,396
Peterson, Cynthia B.	Graduate Research Assistant - Sukanya Iyer	UT-Battelle - ORNL	\$36,923
Sayler, Gary S.	Joint Faculty: Administrative Support for Director of UT - ORNL - Joint Institute for Biological Sciences	UT-Battelle - ORNL	\$160,574
Sparer, Tim E.	ARRA: Viral Chemokine Alteration of Neutrophil Functions	NIH	\$22,714
Stuart, Gregory Lyal	Brief Intervention to Reduce Drinking Among Batterers	NIH - National Institute on Alcohol Abuse and Alcoholism	\$49,901
Weitering, Hanno H.; Zhang, Zhenyu	Quantum Tuning of Superconducting, Plasmonic, and Chemical Properties of Metallic Nanostructures	University of Texas at San Antonio - Grants/Contracts	\$128,592
<b>COLLEGE OF BUSINESS ADMINISTRATION</b>			
Woehr, David J.	SMARTER Teamwork: System for Mgmt, Assessment, Research, Training, Education, & Remediation for Teamwork	Purdue University-Sponsored Programs and Research	\$125,042
<b>COLLEGE OF COMMUNICATION &amp; INFORMATION</b>			
Palenchar, Michael James	Social Media Constraints and Opportunities Case Study and Industry White Paper	National Center for Food Protection & Defense	\$30,007
<b>COLLEGE OF EDUCATION, HEALTH &amp; HUMAN SCIENCES</b>			
Cihak, David Francis; Barkdoll, Sharon Lee Lunceford; Bell, Sherry M.; Benner, Susan Mclean	Comprehensive Endorsement Special Education Summer Institute	Tennessee Department of Education - Training & Professional Development	\$811,671
Gardner, Diane P.	Facilitator to Review and Lead Finalizing of Massachusetts ABE Reading Standards	Commonwealth of Massachusetts	\$24,812
Hallam, Rena Ann; Bruce, Donald James; Campbell, Paul M.	Subsidy Density, Child Care Quality, and Low-Income Child and Family Well-Being in Tennessee: A Longitudinal Analysis Using Matched Administrative and	DHHS - Administration for Children and Families	\$114,903
White, Connie L.	Early Reading First Evaluation	Knox County Schools	\$74,000
<b>COLLEGE OF ENGINEERING</b>			
Banks, David Cotton	Joint Faculty	UT-Battelle - ORNL	\$70,054
Benson, Robert; Lumsdaine, Arnold; Madhukar, Madhu; Shannon, Thomas	OPS Modular Coil Program	UT-Battelle - ORNL	\$10,726
Blalock, Benjamin J.	Georgia Institute of Technology	Georgia Institute of Technology - Electrical and Computer Engr	\$20,580
Bosilca, George Martian; Dongarra, Jack	Graduate Student Support for MPI-Related Work	UT-Battelle - ORNL	\$15,000
Bray, Larry Goddard	Ohio River Basin, Regional Input/Output Analysis - Huntington District Corps of Engineers Ph. 2	Marshall University	\$66,550
Dongarra, Jack	MCDA: Collaborative Research: A Multi-Element & Multi-Objective Optimization Approach for Allocating Tasks to Multi-Core Processors	Semiconductor Research Corporation	\$10,000
Dongarra, Jack; Alam, Sadaf R.	Collaborative Research: A Petaflop Cyber Infrastructure for Computing Free-Energy Landscape of Macro-and Biomolecular Systems	National Science Foundation	\$533,512

## AWARDS FOR OCTOBER 15–NOVEMBER 5, 2009 (CONT.)

INVESTIGATOR	TITLE	SPONSOR	AWARD
Egami, Takeshi	Distinguished Scientist	UT-Battelle - ORNL	\$60,306
Egami, Takeshi	Atomistic Study of Bulk Metallic Glasses	UT-Battelle - ORNL	\$32,437
Fu, Joshua S.	Air Pollution and Climate Modeling	US Environmental Protection Agency	\$314,801
Peterson, Gregory D.	Reliable Secure Computing	Air Force Research Lab	\$51,000
Pevey, Ronald E.	Nuclear Criticality Safety Devices Services at the Portsmouth Gaseous Diffusion Plant	Washington Safety Management Solutions, LLC	\$28,028
Pharr, George M.	Joint Faculty	UT-Battelle - ORNL	\$56,418
Ruggles, Arthur E.	Spallation Target Fluid-Dynamic Studies with Mercury and Helium-Mercury Mixtures	UT-Battelle - ORNL	\$188,537
Simunovic, Srdan; Penumadu, Dayakar	Enhanced Finite Element Analysis Crash Model of Tractor-Trailers	National Transportation Research Center, Incorporated	\$120,000
<b>COLLEGE OF SOCIAL WORK</b>			
Campbell, Paul M.; Campbell, Paul; Cunningham, Maryanne Lynch	University of Illinois Evaluation of Subsidized Guardianship Program	University of Illinois	\$2,461
<b>CAMPUS CENTERS &amp; JOINT INSTITUTES</b>			
Bell, Larry L.	Sigma Space - NASA/LBA	Sigma Space Corporation	\$143,181
Nichols, Jeffrey; Nichols, Jeffrey Alan	Updating and Augmentation of NCCS Training Materials	UT-Battelle - ORNL	\$11,951
Nichols, Jeffrey; Zacharia, Thomas	Development of Electronic Structure Methods (DFT) for Transition Metal Oxide Systems	UT-Battelle - ORNL	\$11,622
Wilt, Catherine A.	Task Order #1 for ITI Basic Ordering Agreement	Information Technology Industry	\$60,000
Wilt, Catherine A.; Webster, Sheila	Tennessee Solid Waste Education Project (TNSWEP)	TN Dept. of Environment and Conservation	\$43,641
Zacharia, Thomas	TF-ACCI Workshops	National Science Foundation	\$49,882

## RECOGNITIONS

**Chris Cherry**, assistant professor in the Department of Civil and Environmental Engineering, recently participated in the Asian Development Bank SUMA (Sustainable Urban Mobility in Asia) Summit in New Delhi, India. He presented the results of two studies, "Electric Bikes in the People's Republic of China: Impact on the Environment and Prospects for Growth" and "Electric Two-Wheelers in India and Viet Nam: Market Analysis and Environmental Impacts."

**Paul Davidson**, professor of economics and editor of the *Journal of Post Keynesian Economics*, was mentioned in recent *New York Times* article about economist John Maynard Keynes and how several new books re-examine the life and theories of the 20th century economist.

**Joshua Fu**, associate professor in the Department of Civil and Environmental Engineering, has been appointed as an international adviser by the Shanghai Environmental Monitoring Center. He is assisting the agency to establish an air quality forecasting system to provide hourly and daily status updates during the 2010 World Expo in Shanghai, China.

**Karen Hilyard**, assistant professor of public relations, was recently quoted in the article "Sorry celebrities: Being famous means sometimes having to apologize" in *The Commercial Appeal* newspaper in Memphis.

**Beauvais Lyons**, professor of art, will receive the George T. Ikeda Award for one of his prints that has been selected for the 20th Los Angeles Printmaking Society's National Exhibition. Los Angeles critic Peter Frank juried the exhibition.

**Ivan Maldonado**, associate professor in the Department of Nuclear Engineering, led a UT/ORNL team that provided tutorials and lectures at the 4th Russian International Conference on Nuclear Material Protection Control and Accounting in Obninsk, Russia. The team also gave lectures at the Moscow Engineering Physics Institute in Moscow.

**Jimmy Mays**, professor in the Department of Chemistry, has been selected to receive the 2009 Southern Chemist Award of the American Chemical Society. The award, sponsored by the Memphis section of the society, acknowledges outstanding achievement in chemistry and scientific contributions that have brought recognition to the South.

**Chuck Melcher**, research professor in the Department of Materials Science and Engineering and director of the Scintillation Materials Research Center, recently gave a plenary talk to open the 2009 IEEE Medical Imaging Conference.

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**Glen Tootle**, assistant professor in the Department of Civil and Environmental Engineering, recently assumed the position of Commanding Officer for the United States Navy Seabee Battalion. Tootle will oversee all operations of the 580 member battalion. The elite "We Build, We Fight" Seabees were formed during World War II and provide engineering and construction support to combatant commands throughout the world.

The **Innovative Computing Laboratory (ICL)** was recently chosen by NVIDIA Corp. as one of its CUDA Centers of Excellence. UT joins seven other national and international institutions with CUDA centers. The ICL was recognized for its use of the CUDA programming model in its curriculum and for pioneering research into the development of linear algebra libraries for high-performance computing. CUDA is a computing architecture that allows NVIDIA graphics processing units to be programmed using industry-standard programming languages.

**Disclosures** — The UT Research Foundation reports that UT Knoxville faculty disclosed the following three inventions in September 2009.

- "Twelve-tone matrix generator" by Brendan McConville.
- "New method for solubilizing boronic acids and esters" by George Kabalka.
- "Condition-monitoring for single-variable systems" by J. Wesley Hines.