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THE UNIVERSITY of TENNESSEE UT KNOXVILLE

Awards and Recognitions

http://research.utk.edu AUGUST 26, 2009

AWARDS FOR AUGUST 7–20, 2009

INVESTIGATOR	TITLE	SPONSOR	AWARD
COLLEGE OF ARTS & SCIENCES			
Barnes, Craig Eliot	Nanostructured Metal Oxide Catalysts via Building Block Syntheses	US Dept. of Energy - Energy and Technology	$9,000
Bartmess, John E.	Maintenance and Expansion of the Gas Phase Negative Ion Thermochemistry Data Base/NIST Data Base	National Institute for Standards and Technology	$14,636
Bingham, Carrol R.	Release Characteristics of Thorium	Oak Ridge Associated Universities	$15,992
Breinig, Marianne	UT Research Assistant - Accelerator Physics	UT-Battelle - ORNL	$48,523
Butefish, Kurt Lewis	Operating Funds for the Tennessee Geographic Alliance	Tennessee Geographic Alliance	$97,282
Dadmun, Mark; Mays, Jimmy W.; Khomami, Bamin; Hu, Bin	ARRA: Rational Design and Synthesis of Targeted Nanostructures in Organic Photovoltaics	National Science Foundation	$300,000
Daverman, Robert J.	Office of the Secretary for the American Mathematical Society	American Mathematical Society	$165,048
Decorse, Elizabeth Kellar; Gage, Matthew David; Driskell, Boyce N.	Phase I Archaeological Survey, SR 126 from North Center Street to I-81, Sullivan County, TN	TN Dept. of Transportation	$499,325
Dolislager, Fredrick Gary; Stewart, Debra Jean; Gross, Louis J.	Risk Integration Support for FY 08, WR 58, Rev 000	Bechtel Jacobs Company, LLC - Accounts Payable	$8,332
Kamychkov, Iouri A.; Ward, Bennie F. L.; Spanier, Stefan M.; Siopsis, George; Handler, Thomas; Efremenko, Yuri V.; Bugg, William M.	Elementary Particle Interactions	US Department of Energy - Golden Field Office	$205,000
Mckee, Bruce D.	Mechanism of Meiotic Pairing in Drosophila Males	NIH - National Institute of General Medical Sciences	$100,000
Peterson, Cynthia B.	Analysis Of Proteomic And Genomic Data	UT-Battelle - ORNL	$28,388
Reynolds, Todd B.	Regulation of Sliding Motility during Biofilm Formation in Fungi	National Science Foundation	$163,946
Thompson, James R.	Formation and Properties of Superconductive and Magnetic Materials	UT-Battelle - ORNL	$1,749
Welsh, Deborah P.	Practicum Experience in Clinical Psychology for Students	Cornerstone of Recovery	$12,000
Wilhelm, Steven W.	Collaborative Research: Evaluating nutrient Reductions to Control Cyanobacteria and Ensure Large Lake Sustainability: Lake Taihu (China) as a Model	National Science Foundation	$15,661
Williams, Richard T.	AS107 Operation and Maintenance	Southern Methodist University	$19,500
Zhu, Wenguang	Theoretical Studies of Optical Properties of Novel Nano-materials	UT-Battelle - ORNL	$12,500
COLLEGE OF BUSINESS ADMINISTRATION			
Moore, John R.	ARRA: Provide Services Supportive of the Wage and Hour Div. of the Employment Standards Adm.	US Department of Labor-Financial Services Center/ OASAM	$2,120,067
COLLEGE OF COMMUNICATION & INFORMATION			
Tenopir, Carol; Singh, Vandana; Normore, Lorraine Frances; Allard, Suzanne Lorraine	CESU-Increasing Biodiversity Information Sources (BIS): Technical Assistance & Support for Delivery and Technology Transfer	US Geological Survey National - Biological Information	$157,298
COLLEGE OF EDUCATION, HEALTH & HUMAN SCIENCES			
Fussell, Elizabeth M.	DRS/CIETAT	TN Dept of Human Services	$789,700
Kim, Youn-Kyung; Runyan, Rodney Carl; Fairhurst, Ann E.	International Retail Management Curriculum and Instructional Module Development	US Department of Education - Office of the Commissioner	$49,327
Zemel, Michael B.; Sun, Xiaocun; Biggerstaff, John Patrick	Effects of Dairy Componentson Monocyte-Endothelial Cell Vascular Infiltration and Inflammation	Dairy Management, Inc.	$148,754
COLLEGE OF ENGINEERING			
Blalock, Benjamin J.	Reconfigurable Coarse Grain Analog Arrays	Triad Semiconductor Inc.	$30,000
Dai, Yuanshun	(NECO) Collaborative Research: Reliability Modeling for Large-Scale Network Systems (LSNS)	National Science Foundation	$16,000
Dongarra, Jack	CSR: Medium: Collaborative Research: GridPac: A Resource Management System for Energy and Performance Optimization on Computational Grid	National Science Foundation	$170,000
Dongarra, Jack	MCDA: Collaborative Research: A Multi-Element & Multi-Objective Optimization Approach for Allocating Tasks to Multi-Core Processors	National Science Foundation	$170,000
Gao, Yanfei; Pharr, George M.	Indentation-Induced Damage Initiation and Evolution in Single- and Poly-Crystalline Ceramics	National Science Foundation	$315,000
Liaw, Peter K.	Surface Modification of Bulk-Metallic Glasses by a Laser-Peening Process	National Science Foundation	$280,000

AWARDS FOR AUGUST 7–20, 2009 (CONT.)			
INVESTIGATOR	TITLE	SPONSOR	AWARD
Lin, Cheng-Xian; Baker, Allen J.	CFD Simulations of Heat Transfer in Heat Exchangers	AMIS, LLC	$35,000
Maldonado, Guillermo Ivan; Dodds, Harold L.	US NRC Graduate Fellowship Program to Promote Diversity In Nuclear Education at the University of Tennessee	Nuclear Regulatory Commission	$400,000
Moore, Shirley V.	Development of an Automated Tool for Locating Harvesting & Storing Experimental Scientific & Technical Data	Information International Associate	$48,794
Moore, Shirley V.; Terpstra, Daniel K.	ARRA: Collaborative Research: CSR: Large: Multicore Application Modeling Interface (MAMI)	National Science Foundation	$800,001
Narula, Chaitanya K.	First Principle Theoretical Studies of Hetergenous Catalysts	UT-Battelle - ORNL	$5,000
Nieh, Tai-Gang	Understand and Design Amorphous-Crystalline Nanolaminates	National Science Foundation	$315,838
Ruggles, Arthur E.	Spallation Target Fluid-Dynamic Studies with Mercury and Helium-Mercury Mixtures	UT-Battelle - ORNL	$80,000
Urbanik, Thomas II; Alvic, Donald R.	Fuel Economy Guide	UT-Battelle - ORNL	$7,588
Zhang, Mingjun	Bio-inspired Hybrid Feed Forward Control for Complex Systems	Vanderbilt University	$9,308
COLLEGE OF SOCIAL WORK			
Campbell, Paul M.; Cunningham, Maryanne Lynch	One Call Program Evaluation	Knoxville-Knox County Community Action Committee	$19,336
CAMPUS CENTERS & JOINT INSTITUTES			
Bell, Larry L.	Complexation and Transformation of Contaminant Metals or Radionuclides in the Environment	UT-Battelle - ORNL	$1,032
Bell, Larry L.	Administrative Support for East Tennessee Clean Fuels Coalition - 08	East Tennessee Clean Fuels Coalition	$45,000
Cole, Gregory Scott	ARRA: The Taj: A New Model for Global Federated Network Infrastructure for Science and Education	National Science Foundation	$2,293,378
Pfiffner, Susan M.	Microbial Support for ORNL Projects	UT-Battelle - ORNL	$43,402
Sayler, Gary S.; Zhuang, Jie; Gentry, Randall W.	China-US Joint Workshop on “Climate-Energy Nexus”	National Science Foundation	$47,860
Tsai, Peter	Nonwoven Sample Collection, Characterization, and Analysis	Masco Nonwoven Products, Company	$5,763
Woods, Clifton	Agreement for Technical Support	Exxon Chemical Co. - Accts Payable Polymers Licensing Mgr	$69,500

RECOGNITIONS

Itamar Arel, associate professor in the Department of Electrical Engineering and Computer Science, will be delivering an invited talk on the topic of artificial general intelligence at the 2009 Singularity Summit. Arel’s talk will address the convergence in technologies leading to the eventual construction of human-level intelligent systems.

Ben Feldmeyer, assistant professor in the Department of Sociology, recently had his paper titled “Immigration and violence: The offsetting effects of immigrant concentration on Latino violence” published in the *Journal of Social Science Research*.

Gregor Kalas, assistant professor in the College of Architecture and Design was awarded a National Endowment for the Humanities fellowship to conduct research at the Experiential Technologies Center at the University of California, Los Angeles (UCLA). Kalas’ project, “Statues of the Late Antique Roman Forum: Historical Memory and Digital Reconstruction,” will digitally reconstruct ancient Rome.

Robert Mee, professor in the Department of Statistics, Operations, and Management Science, recently published *A Comprehensive Guide to Factorial Two-Level Experimentation*. This book, which is available online through UT’s subscription to SpringerLink, will be useful for many who conduct research using factorial experiments.

John Romeiser, professor in the Department of Modern Foreign Languages and Literatures, recently accepted a 2009 Knoxville Metropolitan Planning Commission Excellence Award for the East Tennessee Veterans Memorial (ETVM). Romeiser led the effort to create the memorial and currently serves as ETVM Association president.

Carol Tenopir, professor in the School of Information Sciences, was recently featured in a story in *Inside Higher Ed* titled “The Interdisciplinary Science Library.” The article discusses how university libraries are serving the growing field of interdisciplinary studies.

Fundamentals of Financial Management (13th ed.) by James Van Horne and **John M. Wachowicz** was recently published in a Chinese-language version by Tsinghua University Press/ Pearson Education, Ltd. Wachowicz is a professor in the Department of Finance.

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The UT Research Foundation ended Fiscal Year 2009 with 84 disclosures and 15 U.S. patents. The total number of disclosures was down from the record high of 97 set in FY 2008, but UTRF President Fred Tompkins said that UT faculty remain very active for disclosures in calendar year 2009.

June disclosures from UT Knoxville included “An improved method for in vivo cloning in yeast” by **Ana A. Kitazono**.

July disclosures included “Proteins as targets for therapy of fragile X syndrome and autism spectrum disorders” by **Thomas C. Dockendorff**, “A method for nanoparticle green manufacturing; nanoparticle assisted assay development” by **Mingjun Zhang**, “Glove/device for wall attachment; robotic climbing mechanism for surface sustaining movement” by **William R. Hamel** and **Mingjun Zhang**, “Nanoparticle assisted drug delivery; nanoparticle assisted medical suture; micro-channel induced scaffold for tissue engineering” by **Mingjun Zhang** and **Xiaopeng Zhao**, “Paint add-on compound to reduce ivy damage to the walls” by **Wei He** and **Mingjun Zhang**.

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