



University of Tennessee, Knoxville
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Awards and Recognitions

Office of Research & Engagement

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University of Tennessee Office of Research

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AWARDS AND RECOGNITIONS

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MAY 5, 2010

AWARDS FOR APRIL 16–30, 2010

INVESTIGATOR	TITLE	SPONSOR	AWARD
COLLEGE OF ARTS & SCIENCES			
Breinig, Marianne	Temperature Dependent Chemical Sputtering of Carbon at Low Impact Energies	UT-Battelle - ORNL	\$40,164
Butler, Paul D.	Construction of SANS Portion of DANSE Software Project	California Inst. of Technology	\$134,792
Decorse, Elizabeth Kellar	Archaeological Investigation of Two Log Cabin Sites South of Fort Higley, Knox County, Tennessee	Knoxville Civil War Roundtable	\$26,159
Decorse, Elizabeth Kellar	Geophysical Study of a Portion within the Macedonia United Methodist Church Cemetery, Knoxville, Knox County, Tenn.	Macedonia United Methodist Church	\$6,802
Harrison, Robert J.	Developing a Microscopic Theory of Electron-Phonon Coupling and its Consequences of Electronic Transport	UT-Battelle - ORNL	\$27,874
Hinde, Robert J.	Collaborative Research: Spectroscopy and Chemistry of Open-Shell Atoms in Solid Hydrogen Matrices	National Science Foundation	\$100,000
Hirschfeld, Heather A.	NEH Fellowship (2009-2010)	National Endowment for the Humanities	\$10,400
McSween, Harry Y.	Participation in DAWN Science Team	Univ. of California, Los Angeles	\$44,333
McSween, Harry Y.	Meteorite Petrogenesis	NASA - Headquarters	\$150,000
Nash, Michael R.	Practicum Experience in Clinical Psychology for Students	UT Emergency Room	\$10,000
Prosser, Rebecca A.	Ethanol Effects on the Mammalian Circadian Clock	NIH - Center for Scientific Review	\$340,311
Vonarnim, Albrecht G.	Arabidopsis 2010: Global Analysis of Translational Regulons	Univ. of California, Riverside	\$156,713
Zhang, Zhenyu	Experimental and Numerical Studies of the Optical Properties of Low-Dimensional Materials	UT-Battelle - ORNL	\$39,690
COLLEGE OF BUSINESS ADMINISTRATION			
Fox, William F.	Re-estimation of the Cost Differential Factor	State of Tennessee	\$25,194
COLLEGE OF EDUCATION, HEALTH & HUMAN SCIENCES			
Bassett, David R.	Development of an Integrated Measurement System to Assess Habitual Physical Activity (Subcontract)	University of Massachusetts	\$169,292
Hallam, Rena Ann	Signal Centers - CCRR - Hallam	Signal Centers, Inc	\$5,000
Moran, Mary Jane; Fitzgerald, Mary K.; Hallam, Rena Ann	Mathematics for At-Risk Preschoolers (MAPS): Enhancing Teaching Quality	Tennessee Higher Education Commission	\$74,994
Stolz, Heidi Elizabeth; Brandon, Mary Denise	Shaken Baby Prevention Project	Prevent Child Abuse Tennessee	\$25,000
Stolz, Heidi Elizabeth; Brandon, Mary Denise	Safe Child Project	Prevent Child Abuse Tennessee	\$10,000
Thompson, Dixie; Milner, Clare; Zhang, Songning	Energy Cost of Walking in Dockers Active Balance Shoes	Genesco Inc.	\$42,999
COLLEGE OF ENGINEERING			
Bosilca, George Martian	Internship to Design and Develop a Scalable RAS Framework for High-Performance Computing	UT-Battelle - ORNL	\$18,950
Bosilca, George Martian	Internship to Design and Develop a Framework for Simulation of HPC System Architectures	UT-Battelle - ORNL	\$18,950
Burdette, Edwin G.	Comparison and Evaluation of Displacement-Based Methods Analytically and by Various Computer Methods	University of Memphis	\$30,000
Clarke, David; Urbanik, Thomas	Cross-Walk Tables Assistance	UT-Battelle - ORNL	\$24,287
Dmowski, Wojciech	Probing Atomic Structure Changes in Deformation of Metallic Glasses: An Experimental and Computational	National Science Foundation	\$80,001
Dongarra, Jack	Architecture-Aware Algorithms for Scalable Performance and Resilience on Heterogeneous Architectures	Department of Energy, Office of Science	\$150,000
Hines, J. Wesley; Upadhyaya, Belle R.	Health Management and Prognostics Applications for Aircraft Systems and Equipment	Global Strategic Solutions LLC	\$89,963
Klasky, Scott A.; Beck, Micah	An Application-Driven I/O Optimization Approach for PetaScale Systems and Scientific Discovery	National Science Foundation	\$299,863
Liao, Haitao; Upadhyaya, Belle R.	Exploration of a Statistically Accurate and Energy Efficient Accelerated Testing Methodology	National Science Foundation	\$298,462
McHargue, Carl J.; Barabash, Rozaliya I.	X-Ray Diffuse Scattering- 2	UT-Battelle - ORNL	\$2,474
McHargue, Carl J.; Kulkarni, Nagraj Sheshgiri	High Throughput Isotopic Diffusion Databases for Integrated Computational Materials Engineering	UT-Battelle - ORNL	\$17,056
Zawodzinski, Thomas Anthony	Governor's Chair in Energy Storage	UT-Battelle - ORNL	\$51,200

AWARDS FOR APRIL 16–30, 2010 (CONT.)

INVESTIGATOR	TITLE	SPONSOR	AWARD
CAMPUS CENTERS & JOINT INSTITUTES			
Danforth, Scot K.	Online Encyclopedia of Appalachia-Music Section	Appalachian Regional Commission	\$30,000
Gangaware, Timothy R.	Beaver Creek Public Education and Awareness Initiative	Tennessee Valley Authority	\$15,000
Gangaware, Timothy R.	ARRA: Revision of Tennessee Erosion Prevention and Sediment Control Handbook and Training Program	TN Dept. of Environment and Conservation - TN Pollution Control	\$111,595
Gangaware, Timothy R.; Schwartz, John Steven	ARRA: TDEC Stream Determination Training and Certification Program	TN Dept. of Environment and Conservation - TN Pollution Control	\$116,294
Nichols, Jeffrey Alan	Fluids in Nanoporous Matrices	UT-Battelle - ORNL	\$95,361
Parker, John Charles	Practical Cost-Optimization of Characterization and Remediation Decisions at DNAPL Sites with Consideration of Prediction Uncertainty	US Army Corps of Engineers	\$435,979
Piffner, Susan M.	Microbial Support for ORNL Projects	UT-Battelle - ORNL	\$14,383

CHANCELLOR'S AWARDS FOR RESEARCH

Lynn Sacco, assistant professor of history, received the 2010 Jefferson Prize. Sacco's book, *Unspeakable: Father-Daughter Incest in American History*, is being widely praised for its combination of medical, legal, and social approaches to incest.

The 2010 Chancellor's Awards for Research and Creative Achievement went to:

Mongi Abidi, professor of electrical engineering and computer science, for his work in three-dimensional image processing.

Elizabeth Howell, professor in biochemistry and cellular and molecular biology, for her work on the structure and function of the enzyme dihydrofolate reductase as a model for protein design.

Janice Musfeldt, professor of chemistry, for her work in the development of high magnetic field spectroscopy, especially of complex materials.

Hildegard Schuller, distinguished professor of pathology, who studies the effects of environmental carcinogens and the mechanisms by which normal cells are transformed into cancer cells.

The 2010 Chancellor's Awards for Professional Promise in Research and Creative Achievement went to:

Jian Huang, associate professor of electrical engineering and computer science, who uses data-intensive visualization to create vivid pictures from numerical arrays.

Yanfei Gao, assistant professor of materials science and engineering, who is pioneering multiscale modeling of failure mechanisms in advanced structural materials.

Jered Sprecher, assistant professor of art and Guggenheim Fellow, whose art has been collected in the Museum of Modern Art and displayed widely in galleries nationally and internationally.

Bin Zhao, associate professor of chemistry, who works in the field of stimuli-sensitive soft materials and polymer science.

FIVE FACULTY AWARDED FULBRIGHTS

The Fulbright Commission has made awards to five faculty members at UT Knoxville.

David Keffer, professor in chemical and biomolecular engineering, will teach and study on sustainability, heat and mass transfer in fuel cells, and carbon sequestration at Yonsei University in Seoul.

Jeff Norrell, professor of history, will lecture and write about American race relations in the 20th century at Tubigen University in Germany.

Taylor Feild, assistant professor of ecology and evolutionary biology, will study evolutionary hydraulic ecophysiology of pepperbark trees in sub-Saharan Africa.

Maurice Stucke, associate professor of law, will lecture on antitrust law in China in the fall.

Paul Gellert, assistant professor in sociology, will spend a year in Jakarta, Indonesia.

Two UT Knoxville students have also garnered Fulbright awards this spring. **Jordan Kuck**, a doctoral student in history, will conduct research in Latvia on the history of Latvian dictator Karlis Ulmanis. **Alex Tullock**, a graduating senior in Russian, will teach English and advise Russian teachers of English during an assistantship in Russia.

RECOGNITIONS

David Fox, associate professor of architecture, presided at an open house presenting the collaborative work of students from the UT College of Architecture and a class of students at Knox County's Austin-East High School.

Sally Horn, professor of geography, has been named the winner of the 2010 Barry Bishop Distinguished Career Award from the Mountain Geography Specialty Group of the Association of American Geographers. The award honors Sally's contributions to mountain geography over her career, as well as her work with students, especially in the mountains of Costa Rica and the Dominican Republic.

Teresa Jennings, program director of Companion Animal Initiative of Tennessee in the College of Veterinary Medicine, has received the Hills Animal Welfare & Humane Ethics Award from the American Animal Hospital Association for advancing animal welfare through extraordinary service and furthering humane principles, education and understanding.

John Larese, professor of chemistry, will speak at the European Spallation Source (ESS) Seminar at Lund University in Lund, Sweden. Larese will speak on Neutrons, Nanomaterials and Molecular Adsorption.

Archana Sharma, assistant professor of architecture, will lead an interdisciplinary design charrette in Chattanooga that will include **Curtis Stewart**, associate professor of plant sciences, and **Christopher Cherry**, assistant professor in transportation engineering.

James Pippin, director of Engineering Diversity Programs, was recently recognized by his peers in the Tennessee Louis Stokes Alliance for Minority Participation (TLSAMP) program for Exceptional Leadership and Outstanding Service from 2002 to 2010. Pippin is the UT Knoxville campus coordinator for the TLSAMP Program.

Catherine Greer, a graduate student in German, will study "Music and Musical Culture in Germany" at the Universitat Bayreuth under an award from the DAAD German Academic Exchange Service. She will study a broad range of German musical institutions, concert management, and musical education in the country.

Doug Canfield, coordinator of the Language Resource Center in the Modern Foreign Languages and Literatures Department, and doctoral student in instructional technology, has been awarded a highly competitive Social Science Research Council dissertation proposal development fellowship for the summer of 2010.

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