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Office of Research & Engagement

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AWARDS AND RECOGNITIONS

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JANUARY 6, 2010

AWARDS FOR DECEMBER 4–31, 2009

INVESTIGATOR	TITLE	SPONSOR	AWARD
COLLEGE OF ARTS & SCIENCES			
Decorse, Elizabeth Kellar	Archaeological Survey for Phase 1B of the Yuma Sewer Project, Scott County, Virginia	Scott County Public Service Authority	\$12,034
Eguiluz, Adolfo G.	Joint Faculty	UT-Battelle - ORNL	\$22,243
Emery, Joshua Patrick	Ground-Based Optical and Near-Infrared Photometry of Centaurs and KBOs in Support of Spitzer Sp	NASA - Headquarters Washington, DC	\$95,000
Feller, Daniel M.; Chaffin, James Thomas	The Papers of Andrew Jackson & the Correspondence of James K. Polk	Tennessee Historical Commission	\$3,190
Ferrell, Thomas L.	Support for the Stanoff Sensor System	UT-Battelle - ORNL	\$44,352
Hallam, Thomas Guy	Environmental Risk and Modeling Information	UT-Battelle - ORNL	\$50,000
Hatcher, Robert D.	Large Earthquake Seismology in the East Tennessee Seismic Zone: Justification for a One-Year Pilot Study	U.S. Nuclear Regulatory Commission	\$94,780
Hollenbach, Kandace Renee	Laboratory Analyses of 45 Cores Collected During the Meldahl Hydroelectric Project Along the Ohio River	Corn Island Archaeology LLC	\$34,485
Hood, Thomas Charles; Frey, Richard Scott	Host the Society for the Study of Social Problems	Society for the Study of Social Problems	\$142,933
Mallinckrodt, Brent Stephen	Practicum Experience in Clinical Psychology for Students	Cornerstone of Recovery	\$10,000
McSween, Harry Y.	Participation in DAWN Science Team	Univ. of California at Los Angeles	\$30,562
Moersch, Jeffrey E.	Search for Aqueous Minerals With Mars Exploration Rover Mini-TES Experiment	NASA - JPL - California Institute of Technology	\$60,000
Nazarewicz, Witold	Improvements to Nuclear Data and its Uncertainties by Theoretical Modeling Worksopce	Battelle Energy Alliance, LLC	\$221,000
Peterson, Cynthia B.	BESC	UT-Battelle - ORNL	\$15,726
Peterson, Cynthia B.	Animal Care for Systems Genetics	UT-Battelle - ORNL	\$50,000
Riedinger, Leo L.	Materials Protection, Control & Accountability Education Program	UT-Battelle - ORNL	\$17,000
Seal, Katyayani; Zhang, Zhenyu	Experimental and Theoretical Studies of Metallic Nano-Plasmonic Material	UT-Battelle - ORNL	\$79,852
Thundat, Thomas G.	Receptor-Free Detection of Explosives	Northwestern University	\$66,666
Thundat, Thomas G.; Senesac, Lawrence Reynold	Portable Malodor Sensor	Colgate-Palmolive Company	\$60,000
Tran, Liam Thanh	Hydrologic and Land-Cover Modeling Analysis for Future Landscapes and Ecosystem Services in the Midwestern U.S.	Tennessee Valley Authority	\$95,075
Vogt, Frank	CO ₂ Recycling and Sequestration via Algae Grown with Smoke Stack Emissions	University of Wisconsin	\$12,351
Weitering, Hanno H.	Joint Faculty	UT-Battelle - ORNL	\$20,440
Zhang, Zhenyu	Optical Plasmonic Properties of Thin Films, Multilayers, and Nanostructures	UT-Battelle - ORNL	\$6,500
Zhang, Zhenyu	Experimental and Numerical Studies of the Optical Properties of Low-Dimensional Materials	UT-Battelle - ORNL	\$17,010
Zhu, Wenguang	Theoretical Studies of Optical Properties of Novel Nanomaterials	UT-Battelle - ORNL	\$24,977
Zhu, Wenguang; Feigerle, Charles; Weitering, Hanno; Yoon, Mina	Theory and simulations of nanoscale materials	UT-Battelle - ORNL	\$8,978
COLLEGE OF BUSINESS ADMINISTRATION			
Hutchison, Joan Rentsch	Developing Shared Understanding through Knowledge Management: C-MAP	Navy - Office of Naval Research	\$110,000
COLLEGE OF COMMUNICATION & INFORMATION			
Suttles, Barbara C.	Genome Management Information System - Research Associate III	UT-Battelle - ORNL	\$39,000
Suttles, Barbara C.	Genome Management Information System - Information Specialist II	UT-Battelle - ORNL	\$74,000
Suttles, Barbara C.	Genome Management Information System/Communications and Management Expert	UT-Battelle - ORNL	\$37,699
COLLEGE OF EDUCATION, HEALTH & HUMAN SCIENCES			
Ponder, Beth Ann	Workforce Competitiveness Resource Collection	Pennsylvania State University	\$45,000
COLLEGE OF ENGINEERING			
Arimilli, Rao V.	Air-Cooled and Oil-Cooled Silicon Carbide Inverters	UT-Battelle - ORNL	\$31,000
Benson, Roberto S.	Effect of Processing Parameters on the Barrier Properties of Polyolefin	B&W Y-12, LLC	\$39,999
Burton, Mark L.; Clarke, David Bruce	Evaluating the Economic Impacts of a Truck/Rail Intermodal Facility in NW Ohio	University of Toledo	\$20,139

AWARDS FOR DECEMBER 4–31, 2009 (CONT.)

INVESTIGATOR	TITLE	SPONSOR	AWARD
Dodds, Harold L.	Computational Modeling	UT-Battelle - ORNL	\$8,240
Fu, Joshua S.; Drake, John B.	Assessing the Cumulative Climate-Related Health Risks in the Eastern U.S.	Emory University	\$107,620
Halstead, Peter D.	External Random Production for Easton Bell Sports, Inc.	Easton Bell Sports, Inc.	\$14,000
Hayward, Jason Peter	Glasses for Detection of Penetrating Radiation via the Cherenkov Effect	Defense Threat Reduction Agency	\$347,731
Hayward, Jason; Dodds, Harold	Radiation Detection Research and Development	UT-Battelle - ORNL	\$81,004
Heilbronn, Lawrence Harvey	Lunar EVA Radiation Dosimeter	National Space Biomedical Research Institute	\$38,000
Irick, David K.; Benson, Robert Donald; Madhukar, Madhu S.	SULTAN Test Samples for ITER	UT-Battelle - ORNL	\$174,233
Liaw, Peter K.	Surveillance of Environmental Effects on Materials Behavior	B&W Y-12, LLC	\$110,000
McHargue, Carl; Kercher, Andrew	Materials for Advanced Gas Reactor Project	UT-Battelle - ORNL	\$28,893
McHargue, Carl; Kulkarni, Nagraj Sheshgiri	High Throughput Isotopic Diffusion Databases for Integrated Computational Materials Engineering	UT-Battelle - ORNL	\$27,847
McHargue, Carl; Stewart, David Michael	Modeling And Simulation Studies In Support Of Nuclear Energy Systems	UT-Battelle - ORNL	\$50,000
Miller, Terry L.	ARRA: Proposal to Administer a TDEC Program to Provide Rebates to TN Trucking Companies to Install APUs	TN Department of Environment and Conservation	\$1,713,298
Moore, Shirley V.	SDCI HPC Improvement: High-Productivity Performance Analysis and Tools Environment	University of Oregon	\$183,000
Parang, Masood; Pippin, James	Tennessee Louis Stokes Alliance for Minority Participation	Tennessee State University	\$80,592
Schuppe, Mareike	Community Impact Assessment - Online Handbook	TN Dept. of Transportation	\$135,000
Schwartz, John Steven	Establishment of Functional Links between Sediment Conditions and Aquatic Communities for TMDL Development	USDA - Agricultural Research Service - Administrative Office	\$156,385
COLLEGE OF SOCIAL WORK			
Cunningham, Maryanne Lynch; Campbell, Paul M.	United Way Medical Home Evaluation	United Way	\$5,315
Dupper, David R.	OJJDP Gang Prevention Youth Mentoring Program	Boys and Girls Club	\$8,583
CAMPUS CENTERS & JOINT INSTITUTES			
Reed, Sandra K.	NSF Graduate Research Fellowship Program	National Science Foundation	\$204,500
Andrews, Philip Lawrence	DV.GFS, Global Wide Area File Systems	University of Chicago	\$916,090
Nichols, Jeffrey; Zacharia, Thomas	Fabrication and Testing of Novel Sources of Entangled Photons	UT-Battelle - ORNL	\$27,493
Tsai, Peter Ping-Yi	Investigation of the Improvement of the Meltblowing Line and the Control of the Processing Parameters to Achieve High Efficiency Filter Media	Xinlong Holding (Group) Co. Ltd.	\$50,000
Wu, Meng-Shiou	Common Component Architecture (CCA) Research for Quantum Chemistry Packages	Ames Laboratory	\$59,000

FACULTY DEVELOPMENT LEAVE AWARDEES FOR 2010–2011

Each year, UT faculty have the opportunity to refresh knowledge of their disciplines and to enrich their research and scholarship with new experiences that broaden their own work. Through the university's Faculty Development Leave program, for 2010 and 2011, some 16 faculty have been granted leave ranging from a semester to a calendar year for projects and publications that display the full spectrum of scholarship. Such engagement is vital for the health and vigor of the university's teaching, research, and public service missions.

Below are eight of the 16. The remaining eight will follow in a later issue of *Awards & Recognitions*.

Flavia Brizio-Skov, professor in modern foreign languages and literatures, will use the fall 2010 semester to complete research on an edited collection of essays on Italian cinema and culture, as well as on a monograph on the influence of Italian Westerns ("Spaghetti Westerns") on the American genre. Her project will include travel to Rome and Los Angeles.

Seong-Hoon Cho, assistant professor in agricultural economics, will perform on-site research in Seoul in spring 2011 as part of an investigation into the nonmarket valuation of forest landscapes and open space in urban areas. Cho will participate in the Economics Lab in the Department of Forest Sciences at Seoul National University, where he will work on research mandated through Korea's Forest Landscape Restoration Act of 2009.

James Conant, associate professor in mathematics, will work with research partners at the Max Planck Institute for Mathematics on the solution to a problem in four-dimensional topology for publication in a book. Conant will visit the institute in Bonn in fall 2010.

Harry Dahms, associate professor in sociology, will work on a book project that will establish an innovative and dynamic theoretical framework for sociology. His work considers the

ways in which modern sociology departed from the insights of the founders of the discipline by attempting to understand causes rather than investigating the underlying conditions for social structures. He will be on leave in fall 2010.

Lloyd Davis, professor at the UT Space Institute, will spend spring 2011 at Macquarie University in Sydney, where he will work with its Photonics Research Center in ways to revitalize the UTSI laser physics program.

R. Mark DeKay, associate professor in architecture, will take calendar year 2010 to work on two books that integrate technical and cultural principles of fundamental sustainability into architectural design strategies.

Ernest Freeberg, professor of history, will work on a book detailing the history of the incandescent light bulb in spring 2011.

Henri Grissino-Mayer, associate professor of geography, will take spring 2011 to synthesize the work of collaborators recording the historical patterns of wildfires in the Appalachian Southeast, with the goal of influencing wildfire prediction and policies on fire management.