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Office of Research & Engagement

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1-21-2009

## Office of Research, Awards & Recognition, January 21, 2009

University of Tennessee Office of Research

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## AWARDS AND RECOGNITIONS

JANUARY 21, 2009

### AWARDS FOR THE UNIVERSITY OF TENNESSEE, KNOXVILLE FOR DEC. 5, 2008–JAN. 15, 2009

INVESTIGATOR	TITLE	SPONSOR	AWARD
<b>COLLEGE OF ARCHITECTURE &amp; DESIGN</b>			
Fox, David	Clarksville Housing Study II	City of Clarksville	\$5,000
<b>COLLEGE OF ARTS &amp; SCIENCES</b>			
Abidi, Besma Roui	Phase 0 - Participation in the MultiBiometric Grand Challenge	West Virginia University Computer Science and Electrical	\$9,992
Allison, David Post	Atomic Force Microscopy Studies of Enteroaggregative E. coli adhesion to Mammalian Cells	Lundbeck Foundation	\$40,805
Baker, Gregory Stephen	Multiscale Investigations on the Rates and Mechanisms of Targeted Immobilization and Natural Attenuation	UT-Battelle, LLC-ORNL	\$80,000
Breinig, Marianne	First Principles Theory of Complex Materials	UT-Battelle, LLC-ORNL	\$38,067
Burr, Devon Marjorie	Raised Curvilinear Features in the Western MFF	NASA - Headquarters	\$14,890
Champion, Lynn J.	Tennessee Regional Junior Science and Humanities Symposium 2009	Academy of Applied Sciences	\$22,000
Compton, Robert N.	Electronic and Optical Properties of Single-Wall Carbon Nanotubes and Their Polymer Composites	UT-Battelle, LLC-ORNL	\$17,675
Dagotto, Elbio Ruben	Distinguished Scientist	UT-Battelle, LLC-ORNL	\$60,250
Decorse, Elizabeth Kellar	Architectural Survey and Assessment for McGhee Tyson Airport, Air National Guard Station, Knoxville, Tennessee	Science Applications International Corporation	\$33,866
Decorse, Elizabeth Kellar	Phase I Archaeological Survey and Architectural Assessment for Proposed Docks at Rhea Springs	Pack Partnership	\$10,967
Feigerle, Charles S.	Ultrafast Laser Spectroscopy of Surfaces	UT-Battelle, LLC-ORNL	\$5,740
Feller, Daniel M.	The Papers of Andrew Jackson	National Historical Publications and Records Commission	\$55,000
Feller, Daniel M.; Chaffin, James Thomas	Support for The Papers of Andrew Jackson and the correspondence of James K. Polk	Tennessee Historical Commission	\$3,190
Ferrell, Thomas L.	Explosive Vaper Detection	UT-Battelle, LLC-ORNL	\$67,200
Ferrell, Thomas L.	Develop Microcantilever Sensors for Environmental Monitoring Applications	UT-Battelle, LLC-ORNL	\$37,324
Gant, Michael M.	Tennesseans for Fair Taxation Surveys	Tennesseans For Fair Taxation	\$39,501
Gordon, Kristina Coop; Hellmuth, Julianne C.	Risk Factors for Inmate Partner Violence in Pregnant Women	NIH - National Institute on Alcohol Abuse and Alcoholism	\$25,218
Gross, Louis J.	National Institute for Mathematical and Biological Synthesis (NIMBioS)	National Science Foundation	\$2,500,000
Herrmann, Nicholas P.; Decorse, Elizabeth Kellar	Mapping and Documentation of the Old Sparta Cemetery, White County, Tennessee	City of Sparta	\$3,951
Hollenbach, Kandace Renee	Zooarchaeological Analysis of Specimens from Zatopec Site, 41HY163, Hays County, Texas	Other private educational institution non-specified	\$9,104
Hollenbach, Kandace Renee	Phase II Geoarchaeological Examination of Site 40MI213 Along The Tennessee River, Marion County, Tennessee	Brockington and Associates	\$2,995
Hollenbach, Kandace Renee	Paleoethnobotanical Analysis from 38BK2132, Berkley County, South Carolina	Brockington and Associates	\$7,187
Hood, Thomas C; Frey, Richard Scott	Host the Society for the Study of Social Problems	Society for the Study of Social Pro	\$136,900
Jantz, Richard L.; Mahfouz, Mohamed R.	Improving Sex Estimation from Crania Using 3-Dimensional CT Scans	National Institute of Justice	\$171,215
Joy, David C	Distinguished Scientist	UT-Battelle, LLC-ORNL	\$52,500
Kamyckov, 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	\$17,000
Macek, Joseph H	Distinguished Scientist	UT-Battelle, LLC-ORNL	\$52,264
Mays, Jimmy W.	Polymer-Based Multicomponent Materials	UT-Battelle, LLC-ORNL	\$31,805
Mcfadden, Ronald Benard	Supplemental Grant Award to TRIO Student Support Services for Students Impacted by Katrina and Rita Hurricanes	US Department of Education	\$662,886

**AWARDS FOR THE UNIVERSITY OF TENNESSEE, KNOXVILLE FOR DEC. 5, 2008–JAN. 15, 2009 (CONT.)**

INVESTIGATOR	TITLE	SPONSOR	AWARD
Mcsween, Harry Y.	Participation in DAWN Science Team	University of California at Los Angeles	\$32,346
Moersch, Jeffrey E	Search for Aqueous Minerals With Mars Exploration Rover Mini-TES Experiment	NASA - Jet Propulsion Laboratory -California Institute of Tec	\$60,000
Moreo, Adriana	Joint Faculty	UT-Battelle, LLC-ORNL	\$23,526
Petersen, Ronald H.; Wofford, Billy E.; Hughes, Karen	The Mycology Collections at TENN: Rehousing, Digitization and Management of Supporting Material	National Science Foundation	\$192,577
Peterson, Cynthia B.	Continuation - Frank Larimer	UT-Battelle, LLC-ORNL	\$7,773
Peterson, Cynthia B.	Mammalian Research - Beckmann, Spence, Shaw, Easter	UT-Battelle, LLC-ORNL	\$67,000
Peterson, Cynthia B.	Graduate Research Assistant - Brian Erickson	UT-Battelle, LLC-ORNL	\$39,384
Peterson, Cynthia B.	Service Aide Driver - Eugene Chaney	UT-Battelle, LLC-ORNL	\$7,079
Plummer, Earl Ward	Growth and Characterization of Magnetic Nanostructures	UT-Battelle, LLC-ORNL	\$738
Ralston, Bruce A.; Herrmann, Nicholas P.	Development of A Web-Based GIS Application for the National Missing & Undentified Persons Sy	National Institute of Justice	\$165,509
Sayler, Gary S.	Administrative Support for Director of UT - ORNL - Joint Institute for Biological Sciences	UT-Battelle, LLC-ORNL	\$155,000
Singh, David Joseph	Control of Lattice Instabilities in Ferroelectric Perovskites by Cation Substitution	Navy - Office of Naval Research	\$91,203
Small, Pamela	Ecology of Mycobacterium Ulcerans Infection: Evaluating Landscape Relationships with Freshwater Communities and Disease Occurrence	Michigan State University	\$29,470
Smith, Jeremy C.	Governor's Chair	UT-Battelle, LLC-ORNL	\$77,280
Stewart, Robert N.; Purucker, Steven T.; Gross, Louis J.	Sparse Radiological Subsurface Survey Data Analysis	U.S. Nuclear Regulatory Commission	\$88,000
Weitering, Hanno H	Joint Faculty	UT-Battelle, LLC-ORNL	\$15,319
Zhang, Zhenyu	Transport and Collective Properties of Magnetic Semiconductors and Graphene Overlayers	University of Texas at Austin	\$55,000
Zhu, Wenguang	Bandgap Narrowing of Oxide Semiconductors Using Non-Compensated n-p Co-Doping for Enhanced Solo	UT-Battelle, LLC-ORNL	\$100,000
<b>COLLEGE OF BUSINESS ADMINISTRATION</b>			
Hutchison, Joan Rentsch	Developing Shared Understanding through Knowledge Management: C-MAP	Navy - Office of Naval Research	\$120,000
Kahn, Kenneth B.; Schuler, Glen E.; Justice, Molly B.	Graduate Student Support for Technology Transfer & Economic Development - 2004	UT-Battelle, LLC-ORNL	\$6,176
Schriver, William R.; Beavers, James E.	The Relative Effectiveness of Different Types of OSHA Settlement Agreement and Litigation (Task 1)	Eastern Research Group, Inc.	\$8,600
Woehr, David J.	SMARTER Teamwork: System for Mgmt, Assessment, Research, Training, Education, & Remediation for Teamwork	Purdue University-Sponsored Programs and Research	\$59,572
<b>COLLEGE OF COMMUNICATION &amp; INFORMATION</b>			
Suttles, Barbara C.	Genome Management Information System - Web Communications Expert	UT-Battelle, LLC-ORNL	\$140,000
Suttles, Barbara C.	Technical Support to the National Transportation Research Center	UT-Battelle, LLC-ORNL	\$25,400
Suttles, Barbara C.	Support for Computational Science & Engineering Dept.	UT-Battelle, LLC-ORNL	\$177,684
Suttles, Barbara C.	Genome Management Information System - Research Associate III	UT-Battelle, LLC-ORNL	\$41,363
Suttles, Barbara C.	Genome Management Information System - Information Specialist II	UT-Battelle, LLC-ORNL	\$40,098
<b>COLLEGE OF EDUCATION, HEALTH &amp; HUMAN SCIENCES</b>			
Benner, Susan Mclean; Duckett, Kermit E.	Advanced Aerospace Education Workshop	TN Dept of Transportation	\$40,000
Butterworth, Jennifer R.	Teacher Quality & Swpbs	TN Department of Education - Div of Curriculum & Instruction	\$380,160
Gardner, Diane P.	EFF Professional Development Initiative for OK Lifelong Learning	Oklahoma State Department of Education	\$110,000
Long, Vena M.; Fox, David	Partnership for Enhancing Educational Resources	AT&T Foundation	\$28,050
Mincey, Bethany Aleece	Pellissippi State AE	Pellissippi State Community College-Accounts Payable Offic	\$23,750
Skolits, Gary J.; French, Russell L.	Evaluation of the Appalachian Mathematics/Science Partnership	University of Kentucky	\$37,904
<b>COLLEGE OF ENGINEERING</b>			
Arimilli, Rao V.	Direct-Cooled Power Electronics Substrate Designs	UT-Battelle, LLC-ORNL	\$10,000
Benson, Roberto S.	Photoelectrochemical Dissociation of Water and Production of Hydrogen	UT-Battelle, LLC-ORNL	\$6,000
Bhat, Gajanan S.	Testing & Analysis of Melt Blown Nonwovens	Ethicon, Inc.	\$20,000
Bhat, Gajanan S.	Processing and Evaluation of Structure and Properties of Meltblown PLA Nonwovens	Natureworks LLC	\$10,000

**AWARDS FOR THE UNIVERSITY OF TENNESSEE, KNOXVILLE FOR DEC. 5, 2008–JAN. 15, 2009 (CONT.)**

INVESTIGATOR	TITLE	SPONSOR	AWARD
Blalock, Benjamin J.	Investigation of Design and Post-Process Trimming of sub-1 V Bandgap in Deep Sub-Micron CMOS Technology	Washington State University College of Engineering and	\$20,000
Boulet, Joseph A M	Improved Modeling of Drillstring Dynamics	Halliburton Energy Services, Inc.	\$30,000
Cherry, Christopher Robin; Urbanik, Thomas	FMCSA Wireless Roadside Inspection Phase II - WRI Pilot Testing Activities	National Transportation Research Center, Incorporated	\$321,252
Djouadi, Mohamed Seddik	Optimal Model Reduction and Feedback Control for Aerodynamics	Air Force Office of Scientific Research	\$50,000
Dongarra, Jack	Coordinated Fault Tolerance for High Performance Computing	US Dept of Energy - Energy and Technology	\$200,000
Dongarra, Jack	SciDAC Institute for Scalable Application Development Software	US Dept of Energy - Energy and Technology	\$270,000
Dongarra, Jack	DARPA HPCS Phase III Productiity Activity: HPC Challenge	UT-Battelle, LLC-ORNL	\$150,000
Egami, Takeshi	Distinguished Scientist	UT-Battelle, LLC-ORNL	\$60,306
Everett, Jerry D.	UT Planning And Program Administration	TN Dept of Transportation-Governor's Highway Safety Office	\$1,153,500
Everett, Jerry D.	Media Evaluations	TN Dept of Transportation	\$178,665
Everett, Jerry D.	Garret A. Morgan Technology & Transportation Education Program	Knox County Schools	\$174,308
Fu, Joshua S.	Modeling of Air Pollutants Over the Pacific Regions (ICAP-P3): Air Quality Modeling Analysis in Taiwan and China and Development of AirControl Net Sy	Research Triangle Institute	\$72,000
George, Easo P.	Study and Characterization of Stainless Steels for Energy Systems Applications	UT-Battelle, LLC-ORNL	\$36,000
George, Easo P.	Effects of Grain Size & Temperature On Tensile Behavior of DOP-26 Iridium	UT-Battelle, LLC-ORNL	\$75,900
Halstead, Peter D.	Biomechanics of Head Impace/Literature Review and Technical Assistance	Adams USA, Inc.	\$24,000
Hayward, Jason Peter; Maldonado, Guillermo Ivan	Development of a Certificate Program in Intelligence Analysis	UT-Battelle, LLC-ORNL	\$117,810
Heilbronn, Lawrence Harvey	Spacecraft Shielding Materials Test	Brookhaven National Laboratory	\$42,000
Hines, J Wesley; Ramsey, Chester Ray; Jantz, Richard L.; Jantz, Lee M.	Improving Facial Reproduction Using Empirical Modeling	National Institute of Justice	\$107,099
Islam, Syed K.	Miniaturized Wireless Implanatable Biosensors for Metabolic Monitoring	University of Connecticut	\$24,195
Kalyanaraman, Ramakrishnan	Collab Res: Develop of a Hydrogen Discriminating Low Temperature 1-D Noncomposite Microsensor	National Science Foundation	\$90,000
Langston, Michael A.	Ontological Discovery for Ethanol Research	UT-Battelle, LLC-ORNL	\$11,436
Lee, Ida	Surface Characterization and Mapping of Lignocellulose Samples by Chemical Force Microscopy	UT-Battelle, LLC-ORNL	\$36,046
Madhukar, Madhu S.	High-Performance Magnet Technology for Fusion Applications	Composite Technology Development, Inc.	\$112,007
Maldonado, Guillermo Ivan	Joint Faculty	UT-Battelle, LLC-ORNL	\$47,880
Mchargue, Carl J.	Development of Zirconium Carbide for Gen IV Nuclear Reactors	UT-Battelle, LLC-ORNL	\$10,000
Mchargue, Carl J.; Kercher, Andrew K.	Materials for Advanced Gas Reactor Project	UT-Battelle, LLC-ORNL	\$115,973
Mchargue, Carl J; Bai, Jianming	X-Ray Diffraction Research at the National Synchrotron Light Source	UT-Battelle, LLC-ORNL	\$29,295
Parker, Lynne E.	Implicit Coordination IR&D	Lockheed Martin	\$50,000
Penumadu, Dayakar	Neutron Imaging at HFIR and SNS	UT-Battelle, LLC-ORNL	\$24,999
Pharr, George M.	Joint Faculty	UT-Battelle, LLC-ORNL	\$13,432
Rack, Phillip D.	Regrowth of Superconduction Precursor Materials	UT-Battelle, LLC-ORNL	\$10,755
Sawhney, Rapinder S.	A Methodology for Six Sigma Black Belt Implementation at Major Research Institutions	UT-Battelle, LLC-ORNL	\$50,000
Schwartz, John Steven	Aquatic Habitat Modeling for Gatlinburg WWTP Upgrade Alternatives	McGill Associates	\$14,000
Straight, David W.	STARS Alliance Extension	University of North Carolina at Charlotte	\$20,203
Tolbert, Leon M.	Active Filter to Reduce Capacitance in DC Link of Inverter	UT-Battelle, LLC-ORNL	\$20,000
Tolbert, Leon M.	Design an FEA Analysis of Electric Machines for Hybrid Electric Vehicles	UT-Battelle, LLC-ORNL	\$20,000
Tolbert, Leon M.; Islam, Syed K.; Blalock, Benjamin J.	Highly Integrated Gate Drive for High Temperance Converters	UT-Battelle, LLC-ORNL	\$50,000
Townsend, Lawrence W.	Update of the Nuclear Fragmentation Cross Section Code NUCFRG2	NASA - Langley Research Center-Financial Management Office	\$105,781
Townsend, Lawrence W.; Hines, J Wesley	Software Development for Nowcasting SEP Event Total Doses	Wyle Laboratories Inc.-Accounts Payable	\$45,003

## AWARDS FOR THE UNIVERSITY OF TENNESSEE, KNOXVILLE FOR DEC. 5, 2008–JAN. 15, 2009 (CONT.)

INVESTIGATOR	TITLE	SPONSOR	AWARD
Urbanik, Thomas	GIS Support	UT-Battelle, LLC-ORNL	\$2,653
Urbanik, Thomas; Clarke, David Bruce	FAF2: 2008 Provisional Commodity Origin Destination Estimate	Battelle Memorial Institute Columbus Operations	\$14,759
Wang, Xiaorui	Control-Theoretic Power and Performance Management for Green Data Centers	Microsoft Corporation, Inc	\$100,000
<b>COLLEGE OF LAW</b>			
Hess, Amy M.	Amy Hess/Univ. of Alabama Spring 09	University of Alabama	\$89,338
<b>COLLEGE OF SOCIAL WORK</b>			
Campbell, Paul M.; Patterson, David A.	HMIS Matching Funds Office of Mayor Ten Year Plan to End Chronic Homelessness	City of Knoxville	\$25,000
Cunningham, Maryanne Lynch	Knoxville Leadership Foundation 2007	Knoxville Leadership Foundation	\$14,500
Patterson, David A.	HMIS Matching Funds	United Way	\$10,000
Wodarski, John S.	HIV/AIDS Primary Prevention Program for Caribbean Adolescents	Until There's A Cure Foundation	\$10,000
<b>CAMPUS CENTERS &amp; JOINT INSTITUTES</b>			
Hamrick, James Fuller	ITD 2009 Study of The United States for Student Leaders	Institute for Training and Development	\$342,881
Bell, Larry L.	Bioconversion of Fuels and Chemicals	UT-Battelle, LLC-ORNL	\$36,966
Bell, Larry L.	NASA/LBA	Science Systems and Applications, Incorporated	\$33,940
Bell, Larry L.; Alvic, Donald R.	OWIP/Building Equipment	UT-Battelle, LLC-ORNL	\$19,125
Davis, Kimberly L.	Verification of Simplicity Cleaning Product Environmental Claims	Simplicity International, Inc.	\$1,270
Hanahan, Ruth Anne	Tennessee Yards & Neighborhood (TN Y&N) Program	TN Dept of Agriculture	\$92,000
Pfiffner, Susan M.	Microbial Support for ORNL Projects	UT-Battelle, LLC-ORNL	\$21,701
Robinson, Kevin G.	Environmental Exposure from Clandestine Methamphetamine Production	Univ. of Alabama Environmental Health Sciences Center	\$11,806
Schexnayder, Susan M.	Coordinating Office - Southern Appalachian Man and the Biosphere Cooperative	UT-Battelle, LLC-ORNL	\$15,000
Thonnard, Norbert	Improvements to Secondary Neutral Laser Ionization Mass Spectrometer for Extraterrestrial Dust	Research Corporation of the University of Hawaii	\$87,800
Webster, Sheila	DOE Nuclear Weapons Complex HAZMAT Training	Kirkwood Community College-Grants and Federal Programs	\$100,000
Weitering, Hanno H.; Zhang, Zhenyu; Plummer, Earl Ward	Quantum Tuning of Chemical Reactivity for Storage and Generation of Hydrogen Fuels	UT-Battelle, LLC-ORNL	\$10,735
Woods, Clifton	Services Agreement	Procter & Gamble	\$10,000
Zacharia, Thomas	Parallel Performance Tuning	UT-Battelle, LLC-ORNL	\$15,000
Zacharia, Thomas	Nanomaterials Development	UT-Battelle, LLC-ORNL	\$47,350
Zacharia, Thomas	Memory Subsystem if a PetaScale Computer Platform	UT-Battelle, LLC-ORNL	\$51,771

## RECOGNITIONS

<http://research.utk.edu>

**Margaret 'Peggy' Gripshover**, adjunct associate professor and lecturer in the Department of Geography, won the inaugural Excellence in Teaching Award in the Southeastern Division of the Association of American Geographers (SEDAAG).

**Heather Hirschfeld**, associate professor of English, was recently awarded a fellowship from the National Endowment for the Humanities for her project, "Satisfactions of the Renaissance: Revenge Tragedy and the English Reformation."

**Margaret Lazarus Dean**, assistant professor of English, has received a \$25,000 National Endowment for the Arts Literature Fellowship in Creative Writing.

**David Reidy**, associate professor of philosophy, recently won a 2008 National Endowment for the Humanities (NEH) Faculty Fellowship to support his work on an intellectual biography of political philosopher John Rawls. Reidy will spend the 2009-2010 academic year working as an NEH Fellow on the project.

**Ted Shelton**, assistant professor in the College of Architecture and Design, was recently honored with the Association of Collegiate Schools of Architecture (ACSA) Collaborative Practice Award for his project "SEED: Designing for Tennessee's State Parks."

**Tricia Stuth**, assistant professor in the College of Architecture and Design, was honored with the Housing Design Education Award granted jointly by ACSA and the American Institute of Architects (AIA) Housing & Custom Residential Knowledge Committee in recognition of exemplary education in housing design.