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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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JUNE 1, 2011

AWARDS FOR APRIL 19–MAY 10, 2011

INVESTIGATOR	TITLE	SPONSOR	AWARD
COLLEGE OF ARTS & SCIENCES			
Becker, J.; Podar, M.	Microbiota and Its Role in Health and Disease	UT-Battelle - ORNL	\$3,780
Best, Michael	CAREER: Chemical Approaches to the Investigation of Protein-Lipid Binding	National Science Foundation	\$192,660
Binder, Brad	Studies on ETRI Ethylene Receptor Structure, Function and Output	National Science Foundation	\$4,750
Classen, Aimee	RCN: Integrated Network for Terrestrial Ecosystem Research on Feedbacks to the Atmosphere and Climate (INTERFACE)	Purdue University-Sponsored Programs and Research	\$6,245
Dadmun, Mark	Using Neutron Scattering to Elucidate the Thermodynamics of Conjugated Polymer Photovoltaics	National Science Foundation	\$6,250
Dai, Pengcheng	Growth and Characterization of Magnetic Nanostructures	UT-Battelle - ORNL	\$12,500
DeCorse, Elizabeth	Sinkhole Cave at the Clinch River Small Modular Reactors Project	TRC, Incorporated	\$2,520
Dolislager, F.; Galloway, L.; Gross, L.	Risk Integration Support for FY 2011	DOE - Bechtel Jacobs Company, LLC	\$2,536
Drake, Dawn	Geographic Manifestations of Business and Management Models: A Case Study	Canadian Embassy Academic Relations Program	\$500
Driskell, Boyce	The 5th periodic Developing International Geoarchaeology (DIG) Conference	Wenner Gren Foundation for Anthropological Research	\$7,500
Egami, Takeshi	Atomistic Study of Bulk Metallic Glasses	UT-Battelle - ORNL	\$28,809
Emery, Joshua	Surface Characterizations of Icy Galilean Satellites	NASA	\$68,794
Freeberg, Ernest	History of Electric Light	ACLS	\$60,000
Goodchild, Rose	How is TorsinA Function Affected by the DYT1 Dystonia Mutation?	Dystonia Research Foundation	\$64,886
Grzywacz, Robert	Comprehensive Beta Decay Measurements of Very Neutron Rich Nuclei	Rutgers University	\$239,497
Grzywacz-Jones, Katherine	Spectroscopic Studies Close to 100Sn and 132Sn Using Direct Reactions and Gamma-Ray Measurement	U.S. Dept. of Energy	\$104,000
Guiochon, Georges	Separation of Highly Complex Mixtures by Two-Dimension Liquid Chromatography	DOE - Office of Science	\$120,000
Hatcher, Robert	Detailed Geologic Mapping, Central Georgia Inner Piedmont	U.S. Geological Survey	\$11,244
Kabalka, George	Synthesis of UV active blood flow agents	UT-Battelle - ORNL	\$32,832
Kamyshkov, Y.; Efremenko, Y.; Handler, T.; Siopsis, G.; Spanier, S.	Elementary Particle Interactions	U.S. Dept. of Energy	\$657,000
Lind, Joan	Phases and Deformations of Loewner Evolutions	National Science Foundation	\$147,343
McSween, Harry	THEMIS Science Team Member for Mars Odyssey Spacecraft	Arizona State University	\$33,000
Perfect, Edmund	Neutron Imaging of Fluids in Rocks and Soils	UT-Battelle - ORNL	\$5,160
Peterson, Cynthia	Urokinase, Neutrophil Activation and Acute Lung Injury	Univ. of Alabama at Birmingham	\$15,000
Peterson, C.; Fenwick, B.; Hodges, C.	Program for Excellence and Equity in Research (PEER)	NIH - National Institute of General Medical Sciences	\$964,706
Seal, K.; Zhang, Z.	Experimental & Theoretical Studies of Metallic Nano-Plasmonic Material	UT-Battelle - ORNL	\$8,829
Stuart, Gregory	A Program of Research and Mentorship on Alcohol Use and Intimate Partner Violence	NIH - National Institute on Alcohol Abuse and Alcoholism	\$199,062
Taylor, L.; Liu, Y.	Evolution of Crusts and Mantles of Planetary Bodies	NASA	\$60,000
Vonarnim, Albrecht	Mechanisms of Regulated Protein Transport Between Nucleus and Cytoplasm	U.S. Dept. of Energy	\$180,000
Zhao, Bin	Materials World Network: Collaborative Research: Nanoscale Self-Assembly of Well-Defined Binary Mixed Homopolymer Brushes	National Science Foundation	\$99,000
COLLEGE OF BUSINESS ADMINISTRATION			
Vossler, C.; McKee, M.	Experimental Research on Taxpayer Services	Internal Revenue Service	\$185,529
COLLEGE OF EDUCATION, HEALTH & HUMAN SCIENCES			
Stolz, Heidi	Shaken Baby Prevention Project	Prevent Child Abuse Tennessee	\$20,000
Stolz, Heidi	Safe Child Project	Prevent Child Abuse Tennessee	\$5,000
White, Connie	Adult Education Professional Development and Technical Assistance	TN Department of Labor	\$385,000
Zhao, Ling	Environmental carcinogen induced-adipocyte dysfunction	Oak Ridge Associated Universities	\$5,000
COLLEGE OF ENGINEERING			
Arimilli, R.; Ekici, K.	Calc. Rev. & Development of Improved COMSOL-Based 2-D Thermal-Hydraulic	UT-Battelle - ORNL	\$50,000
Baker, Allen	Scalable Thermal Analysis for Real-Time Signatures (STAR)	Department of the Army	\$67,270
Bhat, G.; Durairaj, B.	Nanofiller Reinforced Nonwoven Sandwiched Composites for Asymmetric Explosive Threats Protection	Department of the Navy	\$50,000
Counce, Robert	Estimation of lifecycle green-house gas emissions for fuel cells	UT-Battelle - ORNL	\$28,564
Fu, Joshua	Evaluation of Strategies to Mitigate Public Health, Climate, and Life-Cycle	Harvard University	\$44,000
Gao, Y.; Troparevsky, M.	Theoretical Studies of Novel Properties of Metal/Alloy Nanoparticles	UT-Battelle - ORNL	\$43,955

AWARDS FOR APRIL 19–MAY 10, 2011 (CONT.)

INVESTIGATOR	TITLE	SPONSOR	AWARD
Hayward, Jason	Graduate student work in nuclear safeguards calculations and measurements	UT-Battelle - ORNL	\$20,000
Hayward, Jason	Undergraduate student work in nuclear materials accountancy	UT-Battelle - ORNL	\$7,100
Hines, J.	Development and Application of Process Monitoring Techniques	UT-Battelle - ORNL	\$40,000
Langston, Michael	A System Genetic Approach to Low-Dose Radiation	UT - Institute of Agriculture	\$91,515
Li, Fangxing	Dynamic Study of Voltage and Frequency Regulation from Distributed Energy Resources	UT-Battelle - ORNL	\$31,576
Liu, Yilu	NERC Frequency Response Initiative	UT-Battelle - ORNL	\$135,000
Mandrus, David	Anisotropic Itinerant Ferromagnets	UT-Battelle - ORNL	\$73,943
McHargue, C.; Bai, J.	Synchrotron Beamline Technical Assistance	UT-Battelle - ORNL	\$35,000
McHargue, C.; Evans, N.	Electron Microscopy Research & Development Support	UT-Battelle - ORNL	\$91,249
McHargue, C.; Kercher, A.	Materials for Advanced Gas Reactor Project	UT-Battelle - ORNL	\$19,750
Paddison, Stephen	Membranes and MEA's for Dry, Hot Operating Conditions	Other industry non-specified	\$38,817
Peterson, Gregory	Reliable Secure Computing	Department of the Air Force	\$20,000
Poore, J.; Swain, W.	SNS Analysis Software Architecture and Prodess Definition	UT-Battelle - ORNL	\$13,000
Schwartz, J.; He, Q.	Water Sampling and Analysis in the Tennessee Coal Fields	U.S. Dept. of Interior	\$48,000
Townsend, Lawrence	Earth-Moon-Mars Radiation Exposure Module-EMMREM	Boston University	\$50,000
Townsend, Lawrence	Earth-Moon-Mars Radiation Exposure Module-EMMREM	Boston University	\$49,512
Wang, Xiaorui	Enforcing Timing and Power/Thermal Constraints for Mission-Critical	Department of the Navy	\$40,000
Wu, Jie	Functional Sorting of Microbial Cells from Complex Microbiota	UT-Battelle - ORNL	\$6,287
Zhang, Mingjun	Energy Efficient Swimming Mechanism: An Inspiration from Micro-scale Biological	Office Of Naval Research	\$76,754
COLLEGE OF SOCIAL WORK			
Campbell, P.; Cunningham, M.	Alzheimer's Evidence Based Survey FY11	TN Commission on Aging	\$133,960
Campbell, P.; Cunningham, M.	Tennessee Head Start Association Technical Assistance	TN Head Start Association	\$3,000
Campbell, P.; Cunningham, M.	Alzheimer's Innovation Program Evaluation FY11	TN Commission on Aging	\$30,000
Glisson, Charles	Organizational Context and Children's Mental Health in Urban After School Programs	University of Illinois at Chicago	\$31,552
Patterson, David	VMC Matching Funds FY 2012	Volunteer Ministry Center	\$2,500
Rust, Connie	Health Literacy and Medication Adherence of Breast Cancer Survivors	American Cancer Society	\$40,000
CAMPUS CENTERS & INSTITUTES			
Bell, Larry	Sigma Space - NASA/LBA	Sigma Space Corporation	\$12,023
Gangaware, T.; Hanahan, R.	CAC AmeriCorps Water Quality Forum - Adopt-A-Watershed	Knox County	\$48,500
Gangaware, T.; Harden, C.	Development of Water Quality Model for Regional Loadings	U.S. Geological Survey	\$113,399
Pfiffner, S.; Biggerstaff, J.; Saylor, G.	Assessment of Microbial Communities Associated with Human Microbiota, Stream	UT-Battelle - ORNL	\$108,000
Harrison, Robert	Computational Investigation of the Formation of Self-Assembled	UT-Battelle - ORNL	\$37,116
Hofmeister, William	SBIR Phase II Electron Beam Direct Manufacturing of Titanium Alloys	Sciaky Inc.	\$39,980
Loeffler, Frank	Identification of Microbes and Pathways for Enhanced Carbon Tetrachloride	Dupont/Pioneer	\$150,000
Muratore, John	Consulting in Systems Engineering	SpaceX	\$39,885
Nichols, Jeffrey	Multiple Scattering Approaches to the Non-Collinear Magnetic Structure in Fe Based Alloys	UT-Battelle - ORNL	\$37,149
Nichols, Jeffrey	Capstone Project Design	UT-Battelle - ORNL	\$10,478
Reed, Sandra	NSF Graduate Research Fellowship Program	National Science Foundation	\$179,779

RECOGNITIONS

Fifth-year architectural student **Casey Arthur** wrote and presented a peer-reviewed paper for the 2011 spring symposium of the Association for the Advancement of Artificial Intelligence at Stanford University. Arthur worked with **Edgar Stach**, associate professor of architecture, on the paper, titled "Designing a Sunshade for the UT Zero Energy House: An Exploration in Generative Modeling Technology."

The Mellon Foundation has awarded a pre-dissertation research fellowship from its Council for European Studies to **Tony Minnema**, a doctoral candidate in the UT History Department.

Frankie Lane Pack, a UT graduate student in anthropology, has received a National Science Foundation graduate research fellowship. Pack has been a research assistant for **Graciela Cabana**, assistant professor of anthropology, and was a student in the Office of Research Grant Writing Institute last year.

Ryan Shorey, a graduate student in clinical psychology, has won a three-year predoctoral fellowship from the National Institutes of Health. The title of his project is "The temporal association between alcohol use, negative affect, and psychological aggression in dating relationships." He is working with **Greg Stuart**, professor of psychology.