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AWARDS AND RECOGNITIONS

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APRIL 17, 2013

AWARDS FOR MARCH 11–APRIL 10, 2013

INVESTIGATOR	TITLE	SPONSOR	AWARD
COLLEGE OF ARTS & SCIENCES			
Dadmun, Mark	Support of Postdoc/Grad Student for Dr. Mark Dadmun	DOE - UT-Battelle - ORNL	\$13,875
Dagotto, Elbio	Theoretical Studies of Model Hamiltonians	DOE - UT-Battelle - ORNL	\$20,000
Dolislager, Fredrick; Gross, Louis	Risk Integration Support for FY 2013 WR65, Rev 000	DOE - URS CH2M Oak Ridge LLC (UCOR)	\$2,596
Emery, Joshua	The Near-Earth Encounter (<0.0022 AU) of 2005 YU55: Thermal Emission Measurement	NASA - Goddard Space Flight Center	\$22,933
Emery, Joshua	A Compositional Interpretation of TNO Taxonomy	SETI Institute	\$29,688
Engel, Annette	The Effects of the Macondo Oil Spill on Coastal Ecosystems	Louisiana Universities Marine Consortium	\$214,691
Fedo, Christopher	Collaborative Research: The Provenance	National Science Foundation	\$40,007
Feigerle, Charles	Alternative Plating Processes for Metal Electroplating Based on Ionic Liquids	DOE - UT-Battelle - ORNL	\$138,600
Grissino-Mayer, Henri	Dendroarchaeology of the Harding Cabin at Belle Meade Plantation	Belle Meade Plantation	\$3,760
Gross, Louis	UT-Battelle EPA Risk - Environment Assessment and Decision Analysis	DOE - UT-Battelle - ORNL	\$250,000
Mays, Jimmy	Synthesis and Characterization of Novel Two-Dimensional Mesoscale Organic	DOE - UT-Battelle - ORNL	\$17,000
McSween, Harry	Achondrite Petrogenesis	NASA - Goddard Space Flight Center	\$150,000
O'Neill, Hugh	Bio-SANS and Bio-Deuteration Laboratory Research Support - Research Associate	DOE - UT-Battelle - ORNL	\$50,000
Pan, Chongle; Hettich, Robert	Linking Phylogenetic Identity and Biogeochemical Function of Uncultivated Marine	Oregon State University	\$111,562
Petersen, Ronald; Hughes, Karen	Historical Naming Traditions and Cryptic Speciation Bias Biodiversity Estimates	National Science Foundation	\$6,250
Peterson, Cynthia	Urokinase, Neutrophil Activation and Acute Lung Injury	University of Alabama, Birmingham	\$10,000
Reynolds, Todd	Screen for Phosphatidylserine Synthase Inhibitors: Antifungals & Lipid Probes	NIH - National Institutes of Health	\$364,520
Sepaniak, Michael	Separation Chemistry and Inorganic Mass Spectrometry for Nuclear Forensic Analysis	BWXT Y-12, LLC	\$30,737
Taylor, Lawrence; Liu, Yang	Evolution of Crusts and Mantles of Planetary Bodies	NASA - Headquarters	\$130,000
Weitering, Hanno	Exploration of Quantum Size Effects in Ultrathin Magnesium Films for Hydrogen	DOE - UT-Battelle - ORNL	\$6,854
COLLEGE OF COMMUNICATION & INFORMATION			
Pettigrew, Jonathan	Pettigrew Subcontract with Penn State University on NIDA Project	Pennsylvania State University	\$27,862
Suttles, Barbara	Support for Biological and Environmental Research Information System (BERIS)	DOE - UT-Battelle - ORNL	\$55,000
COLLEGE OF EDUCATION, HEALTH & HUMAN SCIENCES			
Mulligan, Geraldine	Professional Development for TN Adult Education	Tennessee Department of Labor and Workforce Development	\$332,856
Ponder, Beth	Learning to Achieve	Kent State University	\$35,319
COLLEGE OF ENGINEERING			
Alshibli, Khalid	Integrated Experimental-Computational Multiscale Immersed Particle-Continuum	University Of Colorado	\$42,000
Blalock, Benjamin	Development of Silicon-on-insulator (SOI) Components for Isolation and Gate	DOE - UT-Battelle - ORNL	\$30,000
Desmidt, Hans	Design Evaluation of 2-speed Transmission Systems for Compound Helicopter Main	Vertical Lift Consortium	\$125,000
Dmowski, Wojciech	Structural Studies of Nanoporous Carbons by Neutron and X-ray Scattering	DOE - UT-Battelle - ORNL	\$10,000
Dongarra, Jack	Keeneland: National Institute for Experimental Computing	Georgia Institute of Technology-Electrical and Computer Engr.	\$322,243
Fu, Joshua	Air Pollution and Climate Modeling	Environmental Protection Agency	\$100,000
Hall, Howard	Developmental Support for the DNDO Universal Task List (UTL)	DOE - UT-Battelle - ORNL	\$60,050
Han, Lee	Transportation Security and Energy Efficiency Research Support	DOE - UT-Battelle - ORNL	\$7,324
Keppens, Veerle; Rawn, Claudia	REU-site: Synthesis and Characterization of Advanced Functional Materials	National Science Foundation	\$90,000
Langston, Michael	Data Structures, Algorithms and Tools for Ontological Discovery	Jackson Laboratory	\$78,160
Liaw, Peter	Computational Design of Creep-Resistant Alloys and Experimental Validation	DOE - US Dept. of Energy	\$200,000
Meek, Thomas	Fabrication of Uranium-oxide-based Detectors	NSTec-Los Alamos Operations	\$82,088

AWARDS FOR MARCH 11–APRIL 10, 2013 (CONT.)

INVESTIGATOR	TITLE	SPONSOR	AWARD
Rack, Philip	Center for Nanophase Materials Science (CNMS)	DOE - UT-Battelle - ORNL	\$89,955
Rack, Philip	Molecular Scale Engineering and Nanoscale Technologies	DOE - UT-Battelle - ORNL	\$10,000
Rawn, Claudia; Barashev, Alexander	Computational Materials Science Investigation of the Effects of Nuclear	DOE - UT-Battelle - ORNL	\$13,303
Reinbolt, Jeffrey	CAREER: Research and Education on Control of Human Movement	National Science Foundation	\$416,958
Sun, Kai	Novel Control Techniques for the Enhancement of Microgrid Stability	NEC Laboratories America, Inc.	\$60,000
Tolbert, L.; Blalock, B.; Islam, S.; Holleman, J.; Wang, F.	Isolation and Gate Buffer for Smart Integrated Power Module	DOE - UT-Battelle - ORNL	\$60,000
Upadhyaya, Belle; Hines, J.	Instrumentation and Monitoring Strategy for the Inherently Safe High-Power LWR	Georgia Institute of Technology	\$295,856
Weber, William	Computational & Experimental Support for ORNL Project ERKCM86	DOE - UT-Battelle - ORNL	\$87,169
Wu, Jie	An Adaptable and Rapid Assay System for Detection of Circulating D-dimer Protein	University of Tennessee Graduate School of Medicine	\$3,700
Zawodzinski, Thomas	Asilomar Conference on Advances in Proton Exchange Membranes for Fuel Cells	Army Research Office	\$7,000
COLLEGE OF SOCIAL WORK			
Campbell, Paul	TN Child Support Employment and Parenting Program (4th District) FY 2012	TN Dept. of Human Services - Community Services Agency	\$375,400
Dukes, D.; Hemmelgarn, A.; Cunningham, M.; Myers, M.	Runaway and Homeless Youth Training and Technical Assistance Center	National Safe Place	\$100,000
Patterson, David	City of Knoxville ESG Proposal	City of Knoxville Community Development Division	\$15,000
CAMPUS CENTERS & INSTITUTES			
Davenport, Joel	NSMS Spin Rig Support	Aerospace Testing Alliance	\$10,000
Halloy, Christian	Ellingson MPI Virtual Docking	DOE - UT-Battelle - ORNL	\$57,170
Hazlewood, Victor; Fahey, Mark; Braby, Ryan	CC-NIE Network Infrastructure: Leadership Network Infrastructure; Providing	National Science Foundation	\$500,000
Parigger, Christian	Analysis of Broadband Thermal Emission Data in Aluminum Solid Propellant Combustion	Sandia National Laboratory	\$5,000
OTHER			
Stewart, Joseph	Air Force Acquisition Improvement Support (FA7014-10-R-0008) - IDIQ	Department of the Air Force	\$179,777
Wise, Norman; Bridges, Anne; Baggett, Mark	Database of the Smokies	American Library Association	\$5,000
MULTICOLLEGE/CENTER			
Connolly, M. (RCI); Henry, T. (RCI); Schwartz, J. (Engr)	Chemical Analysis of Trout Otoliths as a Measure of Age-dependent Deposition	Great Smoky Mountains Conservation Association	\$5,000
Gangaware, T. (RCI); Connolly, M. (RCI); Kim, U. (RCI); Schwartz, J. (Engr)	FY2011 WRRIP Application for TN Water Resources Center	US Dept. of Interior - US Geological Survey	\$55,525
Greene, D. (Bus); Dahlin-Brown, N. (RCI)	ARRA: Electric Vehicle Symposium	Pathway Lending	\$5,000
Harrison, R. (A&S); Halloy, C. (RCI)	Neschke Novel Methodologies	DOE - UT-Battelle - ORNL	\$6,248
Mandrus, D. (Engr); Zhang, S. (EHHS)	Anisotropic Itinerant Ferromagnets	DOE - UT-Battelle - ORNL	\$19,399
Schussler, E. (A&S); Sanders, N. (A&S); Alexandre-Jouline, G. (A&S); Reynolds, T. (A&S); Skolits, G. (EHHS); Robinson, S. (EHHS)	Concept, Competency, and Community-driven Curriculum Reform in Undergraduate	National Science Foundation	\$181,951

RECOGNITIONS

Wanda Costen, associate professor in retail, hospitality, and tourism management, has received a Fulbright Award for study and service in Jamaica.

Khandaker Al Mamun, a graduate student in electrical engineering and computer science, won best oral paper at the Connecticut Symposium on Microelectronics and Optoelectronics at Yale University. **Nicole McFarlane**, assistant professor, and **Syed Islam**, professor, collaborated with Al Mamun on the paper "Vertically Aligned Carbon Nanofiber Forest Biosensing Platform for Wide Range Glucose Detection."

Nick Dexter, graduate student in mathematics, won the student poster session at the 2013 Southeastern Atlantic Section meeting of the Society for Industrial and Applied Mathematics. His presentation was "Stochastic collocation techniques applied to reactor criticality problems." He worked with Clayton Webster and Miro Stoyanov at Oak Ridge National Laboratory.

Five students have received National Science Foundation Graduate Research Fellowships, including **Lauren Breza** and **Rachel Forvargue**, ecology and evolutionary biology; **Madelyn Crawford**, biochemistry and cellular and molecular biology; **Kelly Rooker**, mathematics; and **Hannah Woo**, environmental engineering.