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THE UNIVERSITY of TENNESSEE KNOXVILLE

Awards and Recognitions

http://research.utk.edu MARCH 16, 2012

AWARDS FOR FEBRUARY 16–MARCH 12, 2012

INVESTIGATOR	TITLE	SPONSOR	AWARD
COLLEGE OF ARTS & SCIENCES			
Dagotto, Elbio	Theoretical Studies of Model Hamiltonians	DOE - UT-Battelle - ORNL	$32,920
Egami, Takeshi	Atomistic Study of Bulk Metallic Glasses	DOE - UT-Battelle - ORNL	$32,000
Egami, Takeshi	Atomistic Study of Bulk Metallic Glasses	DOE - UT-Battelle - ORNL	$96,000
Ferrell, Thomas	Explosive Vapor Detection	DOE - UT-Battelle - ORNL	$6,283
Grissino-Mayer, Henri	Collaborative Research: An International Professional-Development Workshop	National Science Foundation	$9,067
Jenkins, David	Synthesis of Novel Ligands for the Extraction of Uranyl from Seawater	DOE - UT-Battelle - ORNL	$51,335
Mays, Jimmy; Durairaj, Baskaran	Synthesis of Novel Hydrocarbon Soluble Multifunctional Anionic Initiators	DOD - Department of Defense	$120,000
Moersch, Jeffrey	Spectral Mapping and Thermophysical Characterization of the Martian Surface	Arizona State University	$31,815
Moersch, Jeffrey	Assessment of Subsurface Hydrogen Content and Geochemical Anomalies	NASA - Headquarters	$75,000
Peterson, Cynthia	Urokinase, Neutrophil Activation and Acute Lung Injury	University of Alabama at Birmingham	$15,000
Peterson, Cynthia; Binder, Brad	REU Site: Sensing and Signaling in Biological Systems	National Science Foundation	$213,935
Prosser, Rebecca	Ethanol Effects on the Mammalian Circadian Clock	U.S. Department of Health and Human Services	$325,984
Seal, Katyayani	Experimental and Theoretical Studies of Metallic Nano-Plasmonic Material	DOE - UT-Battelle - ORNL	$29,497
Sokolov, Alexei	Dynamics of Proteins and Hydration Water: Neutron Scattering Studies	DOE - UT-Battelle - ORNL	$25,528
Sparer, Tim	Viral Chemokine Alteration of Neutrophil Functions	DHHS - National Institutes of Health	$277,331
Steadman, Dawnie	Biometric Data Collection	DOE - UT-Battelle - ORNL	$745
Sumrall, Colin	Collaborative Research: Assembling the Echinoderm Tree of Life	National Science Foundation	$25,175
Weitering, Hanno	Investigations of Hydrogen Storage in Metallic Thin Films	DOE - UT-Battelle - ORNL	$21,027
Weitering, Hanno	Exploration of Quantum Size Effects in Ultrathin Magnesium Films for Hydrogen	DOE - UT-Battelle - ORNL	$19,567
Weitering, Hanno	Exploration of Quantum Size Effects in Ultrathin Ruthenium Films for Surface	DOE - UT-Battelle - ORNL	$19,567
Zhu, Wenguang	Turning Chalcopyrites into Dilute Magnetic Topological Insulators (DMTI)	DOE - UT-Battelle - ORNL	$35,000
COLLEGE OF EDUCATION, HEALTH AND HUMAN SCIENCES			
White, Connie	Tennessee Even Start Database Support, Training, and Technical Assistance	Tennessee Department of Education	$52,522
Zemel, M.; Biggerstaff, J.; Bruckbauer, A.	Dietary Calcium and Leucine Modulation of Airway Inflammatory Response	UT Institute of Agriculture - AgResearch	$30,490
COLLEGE OF ENGINEERING			
Alshibli, Khalid	Integrated Experimental-Computational Multiscale Immersed Particle-Continuum	University of Colorado	$60,000
Arimilli, Rao; Ekici, Kivanc	Calc. Rev. & Development of Improved Comsol-Based 2-D Thermal-Hydraulic Model for HFIR Core	DOE - UT-Battelle - ORNL	$80,000
Benson, Roberto	Characterization of Precursor Fibers and Carbon Fibers	DOE - UT-Battelle - ORNL	$40,000
Fu, Joshua	Air Pollution and Climate Modeling	U.S. Environmental Protection Agency	$75,000
Hall, Howard	Technical Support for the Development of Advanced Safeguards Measurement	DOE - UT-Battelle - ORNL	$4,009
Hall, Howard	Technical Support for IAEA Safeguards	DOE - UT-Battelle - ORNL	$11,702
Hall, Howard	Technical Support for Evaluating Technologies for Sample Collection & Personnel	DOE - UT-Battelle - ORNL	$7,702
Hines, J.	Power Plant Online Monitoring Data Analysis	ALSTOM (Switzerland) Ltd.	$32,850
Hu, Bin	Exploring Electrical and Magnetic Resonances from Coherently Correlated	DOD - Air Force Office Scientific Research	$114,194
Jin, Mingzhou	Real-Time Identification/Monitoring Of Barge Carried Hazardous Commodities	Mississippi State University	$42,021
Keppens, Veerle; Rawn, Claudia	REU-Site: Synthesis and Characterization of Advanced Functional Materials	National Science Foundation	$90,000

AWARDS FOR FEBRUARY 16–MARCH 12, 2012 (CONT.)			
INVESTIGATOR	**TITLE**	**SPONSOR**	**AWARD**
Li, Husheng	Wireless Communication Network Design for Deg Controls in Microgrid	DOE - UT-Battelle - ORNL	$10,683
McHargue, Carl	Electron Microscopy Research & Development Support	DOE - UT-Battelle - ORNL	$19,982
Mench, Matthew	Studies Of Regenerative Fuel Cell Architecture	DOE - UT-Battelle - ORNL	$6,000
Nguyen, Ke	Engine Friction	DOE - UT-Battelle - ORNL	$2,500
Passian, A.; Farahi, R.; Ferrell, R.; Gleason, S.; John, D.; Khomami, B.; MacCabe, A.; Parang, M.; Vazhkudai, S.; Wells, J.; Worley, B.	Physical Sciences-Oncology Center Data Coordination Center	Science Applications International Corporation	$373,352
Rawn, Claudia; McHargue, Carl; Meisner, Roberta	Materials Characterization	DOE - UT-Battelle - ORNL	$28,506
Ryerson, Megan	Airport System Capacity Planning Study	Landrum Brown	$110,000
Sawhney, Rapinder	Operability Risk Modeling	BWXT Y-12, LLC	$80,286
Sawhney, Rapinder	Predictive Human Resource Model	BWXT Y-12, LLC	$128,000
Tomsovic, Kevin; Li, Fangxing; Liu, Yilu; Tolbert, Leon; Wang, Fei	Program Income for NSF Engineering Research Center for Ultra-Wide-Area Resilient Electric Energy Transmission Network	Tennessee Valley Authority	$50,000
Wu, Jie	Advanced Chlorophyll Fluorometers for Aquasentinel Technology	DOE - UT-Battelle - ORNL	$5,000
Zhang, Yanwen	Heavy-Ion Energy Deposition in Dielectrics and Semiconductors	U.S. Department of Defense	$150,000
COLLEGE OF SOCIAL WORK			
Glisson, Charles	Organizational Context and Children's Mental Health in Urban After School Programs	University of Illinois at Chicago	$54,162
CAMPUS CENTERS & INSTITUTES			
Harrison, Robert	Develop 3-D Diffusion/Evolution Equations	DOE - UT-Battelle - ORNL	$83,190
Harrison, Robert	Research Alliance in Math and Science (RAMS) 2011	DOE - UT-Battelle - ORNL	$21,268
Hofmeister, William Hudson	Evaluation of Strain Hardening Exponent in a Sprayed Copper Alloy	Exquadrum	$4,000
Sayler, Gary	Editorship for ACS Journal, Environmental Science & Technology	American Chemical Society Petroleum Research Fund	$78,579
OTHER			
Macek, Joseph	Theory of Fragmentation and Rearrangement Process in Ion-Atom Collisions	U.S. Department of Energy	$125,000
Tonn, Bruce; Peretz, Sally; Sanseverino, John	Rooftop Solar Challenge: Inducing Market Transformation in Tennessee	U.S. Department of Energy	$496,431

RECOGNITIONS

Flavia Brizio, professor of modern foreign languages and member of the Cinema Studies Committee, has recently published *Popular Italian Cinema: Culture and Politics in a Postwar Society*.

Chris Holmlund, professor of modern foreign languages and member of the Cinema Studies Committee, will give the keynote lecture at the inaugural Celebrity Studies Conference at Deakin University in Melbourne, Australia. Holmlund will speak on the branding of Dolly Parton and Arnold Schwarzenegger. Holmlund is also starting a two-year term as president of the Society for Cinema and Media Studies.

Charles Maland, professor of English and chair of the Cinema Studies Program, contributed a chapter on "Chaplin and American Silent Comedy" to the *Blackwell-Wiley History of American Film*.

George Pharr, professor of materials science and engineering, has been named a fellow of the Materials Research Society and will be so recognized at an upcoming meeting in San Francisco.

Yanan "Nancy" Li, a graduate student in geography, has received a Young Explorer grant from the National Geographic Society's Committee on Research. Li's dissertation on "Spatial Pattern of Little Ice Age Glacier Advances Across Chinese Tian Shan" is advised by **Yingkui "Philip" Li**, assistant professor of geography. Nancy Li is a student graduate of the 2011 Office of Research Summer Grant-Writing Institute.

William Hembree, a senior in chemistry, has published "Three-Dimensional Mapping of Microenvironmental Control of Methyl Rotational Barriers" in a recent issue of the *Journal of Physical Chemistry*. **Jerome Baudry**, assistant professor in biochemistry, cellular and molecular biology, is Hembree's faculty mentor.

Kevin Zable, a graduate student working with associate professor **Michael Olson** in social psychology, is one of 13 recipients of the American Psychological Foundation/ Council of Graduate Departments of Psychology graduate student scholarships.

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