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THE UNIVERSITY of TENNESSEE KNOXVILLE

AWARDS AND RECOGNITIONS

http://research.utk.edu MAY 19, 2010

AWARDS FOR MAY 1–13, 2010

INVESTIGATOR	TITLE	SPONSOR	AWARD
COLLEGE OF ARTS & SCIENCES			
Bingham, Carrol R.	Matching Funds - UT/ORNL Joint Institute	UT-Battelle ORNL	$840,472
Classen, Aimee Taylor	RCN: Integrated Network for Terrestrial Ecosystem Research on Feedbacks to the Atmosphere and Climate (INTERFACE): Linking Experimentalists, Ecosyste	Purdue University - Sponsored Programs and Research	$5,948
Foister, Shane	Development of Methane-to-Methanol Catalysts Supported on Mesoporous Silica	University of Tennessee Research Foundation	$15,000
Goodchild, Rose Ellen	How is TorsinA Function Affected by the DYTI Dystonia Mutation?	Dystonia Medical Research Foundation	$64,886
Hollenbach, Kandace Renee	Processing and Paleoethnobotanical Analysis of 1Mg997, Morgan County, Alabama	TN Valley Archaeological Research	$1,923
Peterson, Cynthia B.	Analysis Software and Algorithm Development - Manesh Shah	UT-Battelle ORNL	$34,758
Peterson, Cynthia; Vonarnim, Albrecht	Continuation - Frank Larimer	UT-Battelle ORNL	$23,508
Roberts, Daniel M.	Nodulin-26 Intrinsic Proteins: Multifunctional Transporters of Water and Metabolities in Plant Symbioses and Stress Responses	National Science Foundation	$4,500
Rosinski, Jan	Support for the US Participants of the 6th Levy Conference	National Science Foundation	$15,000
Smith, Jeremy Christopher	QM, QM/MM MD and Free Energy Simulations of MERB and Hg(II) Binding	UT-Battelle ORNL	$14,819
Sokolov, Alexei P.	Cooperativity in Dynamics of Soft Matter	UT-Battelle ORNL	$65,000
Taylor, Lawrence A.; Liu, Yang; McSween, Harry Y.	Evolution of Planetary Crusts and Mantles: Moon and Mars	NASA - Headquarters Washington, DC	$120,000
Westgard, Joshua Allan	Reading Bede's History in Medieval Europe, ca. 731-1500	American Philosophical Society	$6,000
COLLEGE OF COMMUNICATION & INFORMATION			
Suttles, Barbara C.	Technical Support to the National Transportation Research Center	UT-Battelle ORNL	$20,400
Suttles, Barbara C.	Support For Computational Science and Engineering Division-UT-Battelle (Nelson)	UT-Battelle ORNL	$258,000
Suttles, Barbara C.	Genome Management Information System/Communications and Management Expert	UT-Battelle ORNL	$60,000
COLLEGE OF ENGINEERING			
Bhat, Gajanan S.; Durairaj, Baskaran	Nanofiller Reinforced Nonwoven Sandwiched Composites for Asymmetric Explosive Threats Protection	Navy - Office of Naval Research	$221,936
Cooper, Ann Carolyn	Support for GTRI Transportation Security Project	UT-Battelle ORNL	$30,287
Dongarra, Jack	ORNL Joint Research Support for HPC Applications	UT-Battelle ORNL	$62,878
Duscher, Gerd J.	High Resolution Transmission Electron Microscopy of Perovskitic Materials	UT-Battelle ORNL	$98,910
Egami, Takeshi	Atomistic Study of Bulk Metallic Glasses	UT-Battelle ORNL	$98,841
Egami, Takeshi	ARRA: Construction of the Parts for MRI-R2 Project	Washington University	$146,046
Hall, Howard Lewis	Nuclear Forensics Standards and Methods Development	UT-Battelle ORNL	$46,369
Hall, Howard Lewis	Detection of Heavily Shielded Nuclear Materials	UT-Battelle ORNL	$21,726
Hines, J Wesley	Transformer Prognostic System Development	DOE - Idaho National Laboratory	$80,000
Keppens, Veerle	Resonant Ultrasound Studies of Complex Chromium and Vanadium Oxide Spinels	National Science Foundation	$110,000
Li, Fangxing; Tomsovic, Kevin Louis	Economical Stability and Physical Stability Study for Controllable Load including PHEV	National Science Foundation	$300,000
Liaw, Peter K.; Clarke, David Bruce	Fracture Toughness and Fatigue Properties of Pipeline Base Steels and Welds in High-Pressure Hydrogen and Technologies for Improving Weld HE and IGSCC	US Department of Transportation - Federal Highway Administration	$298,000
Mandrus, David George	Anisotropic Itinerant Ferromagnets	UT-Battelle ORNL	$71,790
Newsom, Theodore J.	Statewide Van Transportation Contract	Synergy Foundation, Inc.	$28,000
Newsom, Theodore J.	Statewide Van Transportation Contract	Hope for Tomorrow Center Inc	$28,000
Newsom, Theodore J.	Statewide Van Transportation Contract	West Haven Baptist Church	$28,000
Pharr, George M.	Piezoceramic and Piezoceramic Multilayer Actuator Characterization	UT-Battelle ORNL	$81,805
Rack, Philip D.	Collaborative Research: Post-Guided Electrowetting for Agile Channel Formation and True Lab-On	National Science Foundation	$160,000
Upadhyaya, Belle R.	Mining and Analysis of Performance Database Related to Nuclear Plant Equipment and Field Device	DOE - Idaho National Laboratory	$36,938

AWARDS FOR MAY 1–13, 2010 (CONT.)			
INVESTIGATOR	TITLE	SPONSOR	AWARD
Wang, Fei	Integrated Modular Motor Drive Power Electronics Packaging - Support UW Project	UT-Battelle ORNL	$52,734
Zhang, Mingjun	MEMS Device for Studying Tumor Metastasis	UT-Battelle ORNL	$6,801
Zhang, Mingjun; Bewick, Sharon	Mechanics of the Adhesive Properties of Ivy Nanoparticles	US Army Research Office	$108,159
COLLEGE OF NURSING			
Bell, Donald M.; Preston, John C.	Nurse Anesthesia Traineeship	DHHS - Public Health Service - Health Resources Services	$2,852
CAMPUS CENTERS & JOINT INSTITUTES			
Fulkerson, William	Secretariat to the Laboratory Energy R&D Working Group (LERDWG)	Sandia National Laboratory	$5,000
Fulkerson, William	Secretariat to the Laboratory Energy R&D Working Group (LERDWG)	Oak Ridge National Labratory	$5,000
Fulkerson, William	Secretariat to the Laboratory Energy R&D Working Group (LERDWG)	Lawrence Berkeley National Laboratory	$5,000
Fulkerson, William	Secretariat to the Laboratory Energy R&D Working Group (LERDWG)	DOE-Savannah River National Laboratory	$5,000
Gangaware, Timothy; Buchanan, John; Gentry, Randall; Koirala, Shesh Raj; Tootle, Glenn	Tennessee Water Resources Research Institute Program - FY 2006	US Department of Interior - US Geological Survey	$92,335
Nichols, Jeffrey	Climate Change Strategy	UT-Battelle ORNL	$1,260
Nichols, Jeffrey	Annotation and Analysis of Genomic Data	UT-Battelle ORNL	$35,669
Thompson, Dorothea Kathleen; Wickham, Gene Stephen	Optimization and Directed, Natural Evolution of Biologically-Mediated Chromate Reduction in Subsurface Soil Microcosms	US Department of Energy - Office of Science	$247,866

RECOGNITIONS

David B. Clarke, director of the Center for Transportation Research, has been appointed to the Thought Leadership Council of the American High Speed Rail Alliance (AHSRA), a nonprofit advocacy organization dedicated to creating and sustaining a clean and energy-efficient advanced national high-speed rail system in the United States.

David Icove, research professor in the Department of Electrical Engineering and Computer Science, recently represented UT at the annual meeting of Underwriters Laboratory (UL) in Chicago. UL is the leading international standards-based engineering testing organization. Icove is a long-serving member of UL's Advisory Committee responsible for reviewing results of academic engineering research initiatives.

John Prados, professor emeritus in the Department of Chemical and Biomolecular Engineering, received the College of Engineering's prestigious Nathan W. Dougherty Award at the college's annual Faculty and Staff Awards Dinner. A former UT vice president, Prados has served at UT Knoxville for more than 50 years, beginning as a graduate assistant in 1953.

Dayakar Penumadu, professor and head of the Department of Civil and Environmental Engineering, will present one of the keynote lectures at the 9th International Conference on Sandwich Structures (ICSS-9) at the California Institute of Technology.

George Pharr, professor and head of the Department of Materials Science and Engineering, received the Innovation in Materials Characterization Award (IMCA) from the Materials Research Society. Pharr was recognized for "seminal contributions to the development of the instrumentation and analysis methods of nanoindentation for characterizing the mechanical properties of materials at the micrometer- and nanometer-length scales."

Shanfeng Wang, assistant professor in materials science and engineering, and his student, **Lei Cai**, received a STAR honorable mention in the 34th annual Meeting and Exposition of the Society for Biomaterials in Seattle. The recognition came for the outstanding quality of an abstract of their article to be published in Biomaterials journal in June 2010. The pair has also received a travel award for the National Graduate Research Polymer Conference at UNC Chapel Hill.

COE JOINS ELITE GROUP

The UT Knoxville **College of Engineering** is the newest member of a consortium of engineering schools with an approved National Academy of Engineering (NAE) Grand Challenge Scholar Program (GCSP). As of May 2010, only six engineering schools in the country hold this designation. In 2008, the NAE identified 14 Grand Challenges for engineering in the 21st Century. These challenges represent the broad themes at the boundary of technology and society like solar energy and clean water. The GCSP is the companion program for engineering schools that have accepted the challenge of designing combined curricular and extra-curricular programs to prepare students to be the generation that solves the grand challenges facing society.

FULBRIGHT SCHOLAR

Donald G. Hodges, professor of forest economics and policy, will travel to Slovenia as a Fulbright Scholar for six months, where he will teach and conduct research on forest management at the University of Ljubljana and the Jozef Stefan Institute. News of his appointment was not available when the other five UT Fulbright Scholars were announced in a previous issue of this newsletter.

UT Knoxville Invention Disclosures for March & April

Methods for AC electrokinetic fluid manipulation, **Jie (Jayne) Wu** and **Quan Yuan**

Graft copolymers as superelastomers, **Jimmy Mays, Damuel Gido** and **Roland Weidisch**

A new approach for ex post LMP calculation, **Fangzing Li, Yanli Wei** and **Sarina Adhikari**

New scintillators for gamma ray detection, **Kan Yang, Mariya Zhuravleva** and **Charles L. Melcher**

New scintillators for gamma ray and/or neutron detection, **Mariya Zhuravleva, Kan Yang** and **Charles L. Melcher**

New scintillators for gamma ray detection, **Kan Yang, Mariya Zhuravleva** and **Charles L. Melcher**

UT Knoxville Issued Patents for March & April

Least-Square Deconvolution (LSD): A Method to Resolve DNA Mixtures, **Tse-Wei Wang, NingXue, John E. Birdwell, Mark Rader** and **John Flaherty**

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