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THE UNIVERSITY of TENNESSEE KNOXVILLE

AWARDS AND RECOGNITIONS

http://research.utk.edu JANUARY 20, 2010

AWARDS FOR JANUARY 1–14, 2010

INVESTIGATOR	TITLE	SPONSOR	AWARD
COLLEGE OF ARTS & SCIENCES			
Barnes, Craig Eliot	Nanostructured Metal Oxide Catalysts via Building Block Syntheses	US Dept. of Energy - Energy and Technology	$125,000
Cook, Kelsey D.	Support of Andrew Dykstra	UT-Battelle -- ORNL	$26,250
Decorse, Elizabeth Kellar	Preparation of a National Register Nomination for the Daisy Town Portion of the Elkmont Historical District, Great Smokey Mountains National Park	US Dept. Interior - NPS - Great Smoky Mountains National Park	$12,695
McSween, Harry Y.	Participation in DAWN Science Team	Univ. of California at Los Angeles	$12,092
O'Meara, Brian Christopher	The iPlant Collaborative: A Cyberinfrastructure-Centered Community for a New Plant Biology	University of Arizona	$132,345
Peterson, Cynthia B.	Graduate Assistant Stipend Supplement	UT-Battelle -- ORNL	$340,000
Thompson, James R.	Formation and Properties of Materials for Advanced Energy Technologies: Superconductive, Magnetic, and Related Materials.	UT-Battelle -- ORNL	$71,407
Weitering, Hanno H.; Cui, Shengting	Nanoscale Fluidic Technologies for Rapidly Sequencing Single DNA Molecules	University of North Carolina at Chapel Hill	$176,000
COLLEGE OF BUSINESS ADMINISTRATION			
Cathey, Amy E.	Graduate Student Support for Office of Performance Management	UT-Battelle -- ORNL	$1,749
Woehr, David J.	Implementation, Evaluation, and Archival of DDD-Based Scenarios for Use in University Consortium Research Programs	L-3 Communications	$57,154
COLLEGE OF COMMUNICATION & INFORMATION			
Allard, Suzanne; Normore, Lorraine; Tenopir, Carol; Wilson, Bruce	DataNetONE (Observation Network for Earth)	University of New Mexico	$225,000
COLLEGE OF EDUCATION, HEALTH & HUMAN SCIENCES			
Barber, Brian K.	The Impact of Political Conflict on Youth: Assessing Long-Term Well-Being via an Event History-Resource Model	Jacobs Foundation	$150,000
White, Connie L.; Tsai, Peter Ping-Yi	West Virginia Parent Connections, A Parental Information And Resource Center	Edvantia	$25,000
COLLEGE OF ENGINEERING			
Alvic, Donald R.; Bell, Larry L.	Technical Support to ORNL/ESK(NASA-DAAC)	UT-Battelle -- ORNL	$16,055
Burdette, Edwin G.	Development of Assessment Criteria & Methodology to Assess Durability of TN Bridges Decks	TN Dept. of Transportation - Division of Planning	$189,998
Cherry, Christopher Robin	Assessing the Performance and Feasibility of Tennessee's Intercity Bus Three Year Pilot Program	TN Dept. of Transportation - Division of Planning	$200,000
Daniel, Claus	Materials and Processing for Lithium Ion Batteries	UT-Battelle -- ORNL	$44,349
Gao, Yanfei	Energetics and Kinetics of Nanoscale Incipient Dislocation Plasticity	UT-Battelle -- ORNL	$27,000
Garcia, Alberto	Highway Cost Allocation Study for Tennessee	TN Dept. of Transportation	$150,000
Han, Lee D.	Benefits Assessment for TDOT HELP Program	TN Dept. of Transportation - Division of Planning	$115,000
Han, Lee D.; Wegmann, Frederick John	Incorporation of Economic Factors in TDOT Needs Assessment Program	TN Dept. of Transportation - Division of Planning	$95,000
Huang, Baoshan; Shu, Xiang	Optimizing Pavement Preventive Maintenance Treatment Applications in Tennessee Phase II	TN Dept. of Transportation	$180,000
Huang, Baoshan; Shu, Xiang	Laboratory and Field Evaluation of Warm Mix Asphalt Pavements in Tennessee	TN Dept. of Transportation	$220,000
Huang, Baoshan; Shu, Xiang	Develop Typical Material Input Values for Mechanistic-Empirical Pavement Design in Tennessee	TN Dept. of Transportation	$120,000
Huang, Baoshan; Shu, Xiang	Evaluation of Durability of Asphalt Mixtures Containing Fractionated High RAO Content	TN Dept. of Transportation	$150,000
Huang, Jian	Agile Development of Data Analysis Tools for Neutron Scattering Sciences	UT-Battelle -- ORNL	$10,000
Ma, Zhongguo John; Burdette, Edwin	Transfer Length & Girder End Confinement of AASHTO-PCI BT Girders with Larger Capacity Strands	TN Dept. of Transportation	$98,000
McHargue, Carl; Evans, Neal	Electron Microscopy Research & Development Support	UT-Battelle -- ORNL	$87,755
Miller, Terry L.; Agnihotri, Sandeep	Air Quality Policy Issues - Policies to Reduce Diesel Truck Highway Emissions	TN Dept. of Transportation	$99,000
Nguyen, Ke	Thermal Aging Of Lnts Using A Bench-Flow Reactor	UT-Battelle -- ORNL	$15,000
Nguyen, Ke	Engine Friction and Wear	UT-Battelle -- ORNL	$6,015

AWARDS FOR JANUARY 1–14, 2010 (CONT.)			
INVESTIGATOR	TITLE	SPONSOR	AWARD
Penumadu, Dayakar; Drake, John	Technical Support to Climate Projects and CEE Department Initiatives at UTK	Oak Ridge National Laboratory	$75,000
Pharr, George M.	Joint Faculty	UT-Battelle -- ORNL	$25,960
Richards, Stephen H.; Yan, Xuedong	Guidelines for Selecting Reasonable Speed Limits When Widening and Updating 55-MPH	TN Dept. of Transportation - Division of Planning	$100,000
Shaw, Shih-Lung; Everett, Jerry	Tennessee "One Road" Conceptual Framework	TN Dept. of Transportation - Division of Planning	$90,000
Tolbert, Leon M.; Blalock, Benjamin J.; Islam, Syed K.	Highly Integrated Gate Drive for High Temperature Converters	UT-Battelle -- ORNL	$40,000
Urbanik, Thomas; Clarke, David	DOE/EPA Fuel Economy Information Site	UT-Battelle -- ORNL	$10,475
Urbanik, Thomas; Clarke, David	Fuel Economy Guide	UT-Battelle -- ORNL	$173,187
Wang, Xiaorui	Enforcing Timing and Power/Thermal Constraints for Mission-Critical Real-Time Embedded Systems	Office of Naval Research - Atlanta Regional Office	$29,974
Wegmann, Frederick John	Cultivating and Strengthening Partnerships with Local Governments	TN Dept. of Transportation - Division of Planning	$70,000
Zhao, Qiuhong; Burdette, Edwin	Analysis of Integral Abutment Bridges Considering Soil-Structure Interaction and Soil Liquefaction Under Seismic Effects	TN Dept. of Transportation	$99,000
CAMPUS CENTERS & JOINT INSTITUTES			
Andrews, Philip Lawrence; Zacharia, Thomas	Planning for XSEDE: the eXtreme Science and Engineering Discovery Environment	University of Illinois	$340,000
Bell, Larry L.	Bioconversion of Fuels and Chemicals	UT-Battelle -- ORNL	$14,835
Nichols, Jeffrey; Nichols, Jeffrey Alan	Updating and Augmentation of NCCS Training Materials	UT-Battelle -- ORNL	$7,043
Robinson, Kevin G.	Development of an Internet-Based Survey Tool for Assessment of TDOT Programs and Services	TN Dept. of Transportation	$60,000
Sayler, Gary; Cox, Chris; Jouline, Igor; Smith, Jeremy; Stewart, Charles	Cellulosic Biomass Deconstruction, Characterization and Modeling	UT-Battelle -- ORNL	$1,414,000
Sheffield, John; Bell, Larry L.	The Role of Developing Countries in Fusion Energy	UT-Battelle -- ORNL	$30,006
Zacharia, Thomas; Nichols, Jeffrey	Probabilistic Quantification in Multidimensional Systems	UT-Battelle -- ORNL	$63,640

FACULTY DEVELOPMENT LEAVE AWARDEES FOR 2010–2011

Each year, UT faculty have the opportunity to refresh knowledge of their disciplines and to enrich their research and scholarship with new experiences that broaden their own work. Through the university's Faculty Development Leave program, for 2010 and 2011, some 16 faculty have been granted leave ranging from a semester to an academic year for projects and publications that display the full spectrum of scholarship. Such engagement is vital for the health and vigor of the university's teaching, research, and public service missions.

Eight faculty were published in the most recent issue of *Awards & Recognition*. The remaining eight are recognized below.

David Houston, professor of political science, will complete data collection for a book on public policy toward drunken drivers and begin a book on the subject in spring 2011. Houston hypothesizes that the current policy of deterrence is ineffective toward the worst offenders. His research should have a significant impact on public policy.

Maria Hristov, associate professor in UT Libraries, will begin to collect information about Eastern European composers in spring 2011. Her project will start with a residency in Bulgaria with musicologists at the State Academy of Music and the music librarian for the Union of Bulgarian Composers. She intends to publish a bibliographic catalog of prominent Bulgarian composers.

Baldwin Lee, professor of art, will prepare a mixed-media book that chronicles his travels in the 1980s through the South as a photographer supported by the Guggenheim Foundation and the National Endowment for the Arts.

Hairong Qi, associate professor in electrical engineering and computer science, will spend spring 2011 at the National Laboratory of Industrial Control Technology at Zhyejian University studying sensor networks, with a special focus on collaborative signal and image processing.

Donald Ryder, associate professor in music, will write a new music conducting text to prepare students who become middle and high school teachers falling under the new education standards called "Goals 2000: Educate America Act." The book will present a unique approach to undergraduate conducting that focuses on rehearsal techniques, pedagogy, and error detection. Ryder will prepare the book in spring 2011.

Henry Simpson, professor of mathematics, will take leave in spring 2011 to work with co-authors at Cornell and the University of Puerto Rico on a problem in partial differential equations that relates especially to elasticity.

Aleydis Van de Moortel, associate professor of classics, will publish the first comprehensive study of all 10th to 12th century ship remains from the Lower Rhine. The archaeological findings will be used to understand the limitations of trading ships and the development of ship types in relation to political, economic, and environmental conditions. The project is expected to be a significant contribution to the study of medieval trade and urbanization. Van de Moortel will spend academic year 2010-11 on the project, including a stay in spring 2011 at the Viking Ship Museum in Roskilde.

Jie Xiong, professor of mathematics, will visit collaborators at the University of Oregon, the Imperial College of London, and Concordia University in Montreal in pursuit of preparing papers and a monograph on superprocesses in random environments.

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For submissions or information, contact **Craig Cook** by e-mail at **ccook10@utk.edu** or call 865-974-3464. Archived online at **http://research.utk.edu/news**.