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Awards and Recognitions

Office of Research & Engagement

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3-31-2010

## Office of Research, Awards & Recognition, March 31, 2010

University of Tennessee Office of Research

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## AWARDS AND RECOGNITIONS

<http://research.utk.edu>

MARCH 31, 2010

### AWARDS FOR FEBRUARY 26–MARCH 25, 2010

INVESTIGATOR	TITLE	SPONSOR	AWARD
<b>COLLEGE OF ARTS &amp; SCIENCES</b>			
Breinig, Marianne	Temperature Dependent Chemical Sputtering of Carbon at Low Impact Energies	UT-Battelle - ORNL	\$5,470
Champion, Lynn J.	Request to Air Force Association for Chapter Matching Grant to Support STEM Education	Air Force Association	\$1,000
Cooper, Matthew Arthur	Neural Mechanisms Underlying Stress-Induced Changes in Behavior	NIH - Center for Scientific Review	\$142,421
Gavrilets, Sergey; Vose, Michael D.	ARRA: New Approaches to Modeling of Speciation	NIH - National Institute of General Medical Sciences	\$59,237
Grissino-Mayer, Henri D.; Harley, Grant Logan	Vegetation Dynamics of Endangered Pine Rockland Communities in the Lower Florida Keys	National Science Foundation	\$12,000
Hollenbach, Kandace Renee	Shell Analysis of 1Mg910 and 1Mg23, Morgan County, AL	MRS Consultants, LLC	\$697
Hollenbach, Kandace Renee	Zooarchaeological Analysis of 1Mg910 and 1Mg23, Morgan County, AL	MRS Consultants, LLC	\$271
Hollenbach, Kandace Renee	Zooarchaeological Analysis of Vertebrate Fauna from the DIDRX Project	Brockington and Associates	\$996
Larese, John Z.	Graduate Student Support for J. Larese Students	UT-Battelle - ORNL	\$119,794
Larese, John Z.	VISION Conical Collimator, Slits, and Analyzer Fabrication	UT-Battelle - ORNL	\$24,276
Lenhart, Suzanne Marie	Optimal Control Studies for Cholera (Subcontract to Murray State University)	Murray State University	\$31,499
Nazarewicz, Witold	Theoretical Nuclear Structure	US Department of Energy - Golden Field Office	\$192,000
Papenbrock, Thomas Franz; Dean, David Jarvis; Nazarewicz, Pawel; Nazarewicz, Witold	RIKEN/RIA Theory Center	US Department of Energy - National Energy Technology	\$50,000
Peterson, Cynthia B.	Graduate Research Assistant: Jacque Young	UT-Battelle - ORNL	\$39,623
Plechac, Petr	Joint Faculty	UT-Battelle - ORNL	\$49,000
Weitering, Hanno H.	Vibrational spectroscopy of hydrogen on thin metal films and in thin metal-hydrides	UT-Battelle - ORNL	\$48,384
Zhang, Zhenyu	Transport and Collective Properties of Magnetic Semiconductors and Graphene Overlayers	University of Texas at Austin	\$55,000
<b>COLLEGE OF BUSINESS ADMINISTRATION</b>			
Gustafson, James Ransom	Census Count Review Program	Other Federal non-specified	\$18,798
<b>COLLEGE OF COMMUNICATION &amp; INFORMATION</b>			
Allard, Suzanne Lorraine; Normore, Lorraine Frances; Tenopir, Carol; Wilson, Bruce Edwin	DataNetONE (Observation Network for Earth)	University of New Mexico	\$333,030
Suttles, Barbara C.	Technical Support to the National Transportation Research Center	UT-Battelle - ORNL	\$6,000
<b>COLLEGE OF EDUCATION, HEALTH &amp; HUMAN SCIENCES</b>			
McNeely, Clea Ann	School Social Structure, School Connectedness and Adolescent Health	William T. Grant Foundation	\$9,285
White, Connie L.	Union County High School Redesign Evaluation	Union County	\$25,000
<b>COLLEGE OF ENGINEERING</b>			
Arimilli, Rao V.	Air-Cooled and Oil-Cooled Silicon Carbide Inverters	UT-Battelle - ORNL	\$38,571
Choo, Hahn	Joint Faculty	UT-Battelle - ORNL	\$48,000
Hayward, Jason Peter; Dodds, Harold L.	Joint Faculty	UT-Battelle - ORNL	\$40,500
Irick, David K.	PHEV Engine Control and Energy Management Strategy	UT-Battelle - ORNL	\$20,000
Irick, David K.	Mockup Stand for Wendelstein 7-X Coil Lead Assembly Fixture Concepts	UT-Battelle - ORNL	\$14,230
Irick, David K.; Benson, Robert Donald; Madhukar, Madhu S.	SULTAN Test Samples for ITER	UT-Battelle - ORNL	\$102,630
Kalyanaraman, Ramakrishnan	Magnetic Anisotropy in Nanoscale Systems Produced by Fast Laser Processing: Fundamental Mechanism	National Science Foundation	\$95,000
Li, Fangxing	Distributed Energy Communications and Control (DECC) Test Project	UT-Battelle - ORNL	\$25,000

## AWARDS FOR FEBRUARY 26–MARCH 25, 2010 (CONT.)

INVESTIGATOR	TITLE	SPONSOR	AWARD
Maldonado, Guillermo Ivan	High Fidelity Neutronic and Depletion Simulations for the High Flux Isotope Reactor	UT-Battelle - ORNL	\$41,000
McHargue, Carl J.	Neutron Optics and Crystals	UT-Battelle - ORNL	\$34,234
McHargue, Carl J.	Membership in Center for Materials Processing	Welding Research	\$50,000
McHargue, Carl J.	Membership in Center for Materials Processing	Materials Properties Council, Inc.	\$50,000
McHargue, Carl J.; Bai, Jianming	X-Ray Diffraction Research at the National Synchrotron Light Source	UT-Battelle - ORNL	\$32,093
McHargue, Carl J.; Kulkarni, Nagraj Sheshgiri	High Throughput Isotopic Diffusion Databases for Integrated Computational Materials Engineering	UT-Battelle - ORNL	\$11,023
Paddison, Stephen John	Multi-Scale Modeling of Proton Transport, Water Distribution, and Methanol Permeability	U.S. Army Research Office	\$31,204
Parker, Lynne E.; Straight, David W.	STARS Alliance Extension	University of North Carolina at Charlotte	\$11,290
Penumadu, Dayakar	Deformation Behavior and Microstructure Under Multi-Axial Conditions	B&W Y-12, LLC	\$120,000
Pharr, George M.	Mechanical Properties of Thin Film Electrode Materials	UT-Battelle - ORNL	\$21,924
Rack, Philip D.	Electromechanical Imaging of Live Vascular Smooth Muscle Cells	Clemson University	\$73,500
Sawhney, Rapinder S.	A Methodology for Six Sigma Black Belt Implementation at Major Research Institutions	UT-Battelle - ORNL	\$30,000
Sawhney, Rapinder S.; Dhingra, Rajive	Lightweight Auto Engine Research	UT-Battelle - ORNL	\$24,790
Tolbert, Leon M.	Basic Circuit Cells to Reduce Stray Inductance in Power Electronics Packages	UT-Battelle - ORNL	\$45,000
Wang, Fei	Integrated Modular Motor Drive Power Electronics Packaging - Support UW Project	UT-Battelle - ORNL	\$50,000
Wang, Xiaorui	CAREER: Coordinated Power and Thermal Management for Virtualized Data Centers: Algorithms, Fram	National Science Foundation	\$155,949
<b>CAMPUS CENTERS &amp; JOINT INSTITUTES</b>			
Bell, Larry L.	Bioconversion of Fuels and Chemicals	UT-Battelle - ORNL	\$7,030
Pfiffner, Susan M.	Microbial Support for ORNL Projects	UT-Battelle - ORNL	\$21,950
Thonnard, Norbert	Laser Spectroscopy of Nanomaterials Synthesis and Carbon Nanohorn Decoration for Hydrogen Storage	UT-Battelle - ORNL	\$28,625

## RECOGNITIONS

The second edition of **Igor Alexeff's** latest book, *Electromagnetics of Time Varying Complex Media: Frequency and Polarization Transformer*, is due off the press in April 2010. D.K. Kalluri is co-author. Alexeff is professor emeritus in electrical engineering and computer science.

UT geography professor **Carol Harden** was the keynote speaker for the South Dakota State Geography Convention at South Dakota State University in Brookings. Harden is the president of the Association of American Geographers and specializes in land use and mountain watersheds.

**David Keffer** has been awarded a distinguished lectureship by the Fulbright Commission and will study for 10 months in chemical and biomolecular engineering at Yonsei University in Seoul. Keffer, who directs UT's Sustainable Technology through Advanced Disciplinary Research program, will study different perspectives on sustainability in Korean urban areas.

**Carl D. Lundin**, professor of materials science and engineering, has been awarded the Evgeny Paton Prize by the International Institute of Welding. The award recognizes individuals who have made significant contributions to science and technology through dedication to applied research and development in the field of advanced technologies, materials and equipment for welding and allied processes.

**Calvin MacLean** has been elected president of the University/Resident Theatre Association and will take office in July 2010 for a two-year term. MacLean is the head of UT's Department of Theatre and artistic director of the Clarence Brown Theatre. URTA is the nation's oldest and largest consortium of professional and graduate theater programs.

**Leon Tolbert**, professor of electrical engineering and computer science, presented seminars on silicon carbide power electronics at National Taiwan University and National Tsing Hua University in Taiwan recently and visited other universities on the island.

**William Weber**, a specialist in the interactions between radiation and ceramic materials, will join the faculty of UT Knoxville as the occupant of its seventh Governor's Chair. Weber will be leaving Pacific Northwest National Laboratory, where his career has included research into both direct

measurement of irradiated materials and computer simulations. He has served as chair of the PNNL Council of Fellows. The UT-Oak Ridge National Laboratory Governor's Chair program is an effort to attract accomplished researchers in biological, computational, neutron, and advanced materials sciences.

### WANTED: News & Nominations

The UT Office of Research is seeking research news and opportunities, scholarly and professional recognition, and nominations for "Scholar of the Week."

Send items for either *News & Opportunities* (the green newsletter) or *Awards & Recognitions* (the gold newsletter) to Craig Cook (ccook10@utk.edu), preferably by the Wednesday preceding the expected publication date.

To nominate a colleague for "Scholar of the Week," send a note to Dennis McCarthy (dmmccarthy@utk.edu).

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