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Office of Research, Awards & Recognition, November 25, 2009

University of Tennessee Office of Research

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AWARDS AND RECOGNITIONS

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NOVEMBER 25, 2009

AWARDS FOR NOVEMBER 6–19, 2009

INVESTIGATOR	TITLE	SPONSOR	AWARD
COLLEGE OF ARCHITECTURE & DESIGN			
Kalas, Gregor Addison	Statues of the Late Antique Roman Forum: Historical Memory and Digital Reconstruction	University of California at Los Angeles	\$50,400
COLLEGE OF ARTS & SCIENCES			
Baker, David C.	Hydration Drive Processes in Bioenergy	UT-Battelle - ORNL	\$40,000
Baker, Gregory Stephen	Multiscale Investigations on the Rates and Mechanisms of Targeted Immobilization and Natural Attenuation	UT-Battelle - ORNL	\$14,000
Champion, Lynn J.	Tennessee Regional Junior Science and Humanities Symposium 2010	Academy of Applied Sciences	\$22,000
Dadmun, Mark	Joint Faculty	UT-Battelle - ORNL	\$79,571
Dolislager, Fredrick G.; Galloway, Leslie D.; Gross, Louis J.	Risk-Integration Support for FY10 Work Release WR#0059 Rev 000	Bechtel Jacobs Development Company	\$3,520
Hatcher, Robert D.	Conversion of Detailed Geologic Maps to ArcMap-Compatible Geospatial Databases: Part 2	U.S. Dept. of the Interior - U.S. Geological Survey	\$25,000
Larese, John Z.	VISION Radial Collimator	UT-Battelle - ORNL	\$24,822
Mays, Jimmy W.	Polymer-Based Multicomponent Materials	UT-Battelle - ORNL	\$36,597
McKee, Bruce D.	Mechanism of Meiotic Pairing in Drosophila Males	NIH - National Institute of General Medical Sciences	\$307,601
Stewart, Robert N.; Gross, Louis J.; Purucker, Steven T.	Sparse Radiological Subsurface Survey Data Analysis	U.S. Nuclear Regulatory Commission	\$49,000
Taylor, Lawrence A.	Tennessee Space Grant Consortium	Vanderbilt University Office of Contract and Grant Accounting	\$54,126
Weitering, Hanno H.	Vibrational spectroscopy of hydrogen on thin metal films and in thin metal-hydrides	UT-Battelle - ORNL	\$12,096
Xue, Bingzhong	STTR: Non-Intrusive Optical Sensor For Characterizing Environmentally Sensitive Rocket Plume	InnoSense, LLC	\$89,999
Zhang, Zhenyu	Predictive Modeling of the Formation and Properties of Energy Relevant Thin Films and Nanostructures	Ames Laboratory	\$225,000
COLLEGE OF EDUCATION, HEALTH & HUMAN SCIENCES			
Dunn, Patrick L.; Skinner, Amy L.	Enhancing Capacity for Training Rehabilitation Counselors through Distance Education in Tennessee & Surrounding States	U.S. Department of Education	\$150,000
Raynor, Hollie Anne	Translating Habituation Research to Interventions for Pediatric Obesity	State University of New York - Syracuse	\$22,022
COLLEGE OF ENGINEERING			
Arimilli, Rao V.	Direct-Cooled Power Electronics Substrate Designs	UT-Battelle - ORNL	\$8,494
Clarke, David Bruce	Provide Technology Transfer, Tech Assistance and Training for Local Transportation Agencies in TN	TN Dept. of Transportation - Division of Planning	\$43,470
Duscher, Gerd J.	High Resolution Transmission Electron Microscopy of Metastable Nanomaterials	UT-Battelle - ORNL	\$20,000
Fu, Joshua S.; Cox, Chris D.	CO2 and Chemical Transport Modeling Using GEOS-5 Numerical Simulations	UT-Battelle - ORNL	\$19,438
Hall, Howard Lewis	Nuclear Forensics Standards and Methods Development	UT-Battelle - ORNL	\$64,915
Hayward, Jason Peter; Maldonado, Guillermo Ivan	Development of a Certificate Program in Intelligence Analysis	UT-Battelle - ORNL	\$70,000
Khomami, Bamin; Cui, Shengting	Quantifying Water Extraction by TBP/Dodecane via Molecular Dynamics Simulations	UT-Battelle - ORNL	\$600,085
Li, Fangxing	Distributed Energy Communications and Control (DECC) Test Project	UT-Battelle - ORNL	\$50,000
Liu, Yilu	Integration of FNET Frequency Data into NERC-FMA	Lawrence Berkeley National Laboratory	\$45,000
Maldonado, Guillermo Ivan	High Fidelity Neutronic and Depletion Simulations for the High Flux Isotope Reactor	UT-Battelle - ORNL	\$10,000
Paddison, Stephen John	Membranes and MEA's for Dry, Hot Operating Conditions	3M Sourcing Operations	\$100,000
Rack, Philip D.; Joy, David C.	Molecular-Scale Engineering and Nanoscale Technologies (MENT)	UT-Battelle - ORNL	\$25,087
Ruggles, Arthur E.	Data Collection, Reduction, Characterization and Comparison Methods for Validation of Advanced Multi-Resolution Thermofluid Simulations	University of Idaho	\$240,000

AWARDS FOR NOVEMBER 6–19, 2009 (CONT.)

INVESTIGATOR	TITLE	SPONSOR	AWARD
Urbanik, Thomas	Support to ORNL for DHS Development of Database and Web Service	UT-Battelle - ORNL	\$10,027
Wilck, Joseph Hubert	TSorting Algorithm for Grouping Hamamatsu ADP's	Siemens	\$6,630
CAMPUS CENTERS & JOINT INSTITUTES			
Andrews, Philip Lawrence; Zacharia, Thomas	Planning for XSEDE: the eXtreme Science and Engineering Discovery Environment	University of Illinois	\$340,000
Webster, Sheila	DOE Nuclear Weapons Complex HAZMAT Training	Kirkwood Community College - Grants and Federal Programs	\$114,000
Webster, Sheila	Data Collection and Assist with Writing the State Energy Sector Partnership and Training Guide	Tennessee Department of Labor and Workforce Development	\$4,950
Zacharia, Thomas	Joint Institute for Computational Sciences Proposal to NSF05-625: High Performance Computing System Acquisition: Towards a Petascale Computing Environment	National Science Foundation	\$1,687,748

RECOGNITIONS

Harriet Wood Bowden, assistant professor of Spanish, has been awarded a Chancellor's Grant for Faculty Research. She will receive a one-course release in Spring 2010 in order to write external grant proposals for her research. She also had a paper accepted in the journal *Language Learning*, to be published in March. The title of the article is "Verbal Inflectional Morphology in L1 and L2 Spanish: A Frequency Effects Study Examining Storage versus Composition."

Barbara Kaye, associate professor in the School of Journalism and Electronic Media, was recently quoted in a *New York Times* article titled "More Than Ever You Can Say That on Television." The story refers to research which indicates that not only has language become more raw on broadcast television but that the language formerly restricted to the 10 p.m. hour has migrated to earlier time slots.

Maura Lafferty, associate professor of Classics and core medieval Latinist for the Marco Institute, was in the UK recently to serve as a featured speaker at a conference on Early Roman Liturgy at Oxford University. She spoke on "Liturgical Practices at the Cult Sites of Roman Martyrs."

Stefanie Ohnesorg, associate professor of German, received the Tennessee Foreign Language Teaching Association's Jacqueline Elliott Award for Teaching and Service in Higher Education. The award recognized Ohnesorg's outstanding contributions to her institution, to her colleagues, and to foreign language organizations.

Aleydis Van de Moortel, associate professor of Classics, recently travelled to Turkey to deliver an invited lecture on "The Middle Bronze Age Boat of Mitrou, Central Greece" at an international conference on ship archaeology sponsored by Istanbul University. She was also invited to Bremerhaven, Germany, to present an invited talk on "Medieval River Boats of Germany, the Netherlands, and Belgium: Archaeological Evidence for Trade, Transport, and Communication" at an international conference on rivers, commerce and trade.

Carl Wagner, professor in the Department of Mathematics, recently presented the inaugural series of Masterclasses at the London School of Economics on his book, *Rational Consensus in Science and Society*, co-authored with the philosopher Keith Lehrer. Masterclasses, supported by a grant from the Arts and Humanities Research Council of the United Kingdom, feature lectures by authors of books of notable interest.

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Disclosures — The UT Research Foundation reports that UT Knoxville faculty disclosed following three inventions in October 2009.

- "Novel polymer composite for use in solar cells and superconductive devices" by Indraneel Sen and Dayakar Penumadu.
- "Smart sense-and-respond bandage for the detection and treatment of wound infections" by Steven Ripp, James Fleming, and Gary Saylor.
- "Unique monolithic column for both high-performance and electromagnetically modulated liquid chromatography" by Georges Guiochon, Sheng Dai, and Chengdu Liang.

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).