



9-22-2010

## Office of Research, Awards & Recognition, September 22, 2010

University of Tennessee Office of Research

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## AWARDS AND RECOGNITIONS

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SEPTEMBER 22, 2010

### AWARDS FOR SEPTEMBER 4-17, 2010

INVESTIGATOR	TITLE	SPONSOR	AWARD
<b>COLLEGE OF ARTS &amp; SCIENCES</b>			
Emery, Joshua	1) IRAC Reflectances of Hot Classical KBOs and Scattered Disk Objects; 2) Physical Characterization of Near-Earth Asteroids: Backup Targets for the OSIRIS-Rex Asteroid Sample Return Mission	Jet Propulsion Laboratory	\$85,626
Hollenbach, Kandace	Phase II Geomorphic Testing of the SR-117 Bridge Replacement over the Tennessee River near Stevenson, Jackson County, Alabama	TN Valley Archaeological Research	\$37,987
Mundorff, Amy	Developing an Empirically-Based Ranking Order for Bone Sampling: Examining the Differential DNA Yield Rates Between the Skeletal Elements over Increasing Post-Mortem Intervals	US Dept. of Justice	\$200,316
Pfiffner, Susan; Sanseverino, John; Layton, Alice	The Impact of Global Warming on the Carbon Cycle of Arctic Permafrost: An Experiment and Field Based Study	Princeton University	\$256,527
Prins, Brandon	Global Security and Nonproliferation Programs	UT-Battelle	\$6,038
Sokolov, Alexei	Cooperativity in Dynamics of Soft Matter	UT-Battelle	\$17,721
Sumrall, Colin	Collaborative Research: Assembling the Echinoderm Tree of Life	National Science Foundation	\$9,620
Weitering, Hanno; Cui, Shengting	Nanofluidic Technologies for Rapidly Sequencing Single DNA Molecules	University of North Carolina, Chapel Hill	\$131,426
Weitering, Hanno	Experimental Studies of Organic Spintronics	UT-Battelle	\$16,073
Xue, Ziling	Novel Methods for Chromium and Vanadium Analyses in Biological Fluids	NIH	\$1,874
Zinser, Erik; Wilhelm, Steven	Collaborative Research: Seasonal and Decadal Changes in Temperature Drive Prochlorococcus Ecotype Distribution Patterns	National Science Foundation	\$142,942
<b>COLLEGE OF BUSINESS ADMINISTRATION</b>			
Murray, Matthew	Economic Report to the Governor FY 2011 (ERG)	TN Dept. of Economic & Community Dev.	\$185,956
Fox, William	Research Assistance for the TN Dept. of F&A Related to the BEP	State of TN - Finance & Administration	\$159,200
Fox, William	TN State Data Center (State Data Contract with U.S. Census Bureau)	State of TN - Office of Finance	\$278,000
<b>COLLEGE OF COMMUNICATION &amp; INFORMATION</b>			
Suttles, Barbara	Genome Management Information Systems - Information Specialist II	UT-Battelle	\$20,000
Suttles, Barbara	Genome Management Information System/Communications and Management Expert	UT-Battelle	\$30,000
<b>COLLEGE OF HEALTH, EDUCATION &amp; HUMAN SCIENCES</b>			
Benner, Susan; Elston, Stuart	TEACH/Here	National Science Foundation	\$878,820
Chen, Guoxun	Determine the Mechanism that Retinoids Synergize with Insulin to Induce Gck1 Expression	American Heart Association	\$77,000
Mulligan, Geri	Adult Education Professional Development and Technical Assistance	TN Dept. of Labor & Workforce Dev.	\$585,616
<b>COLLEGE OF ENGINEERING</b>			
Braiman, Yehuda	BECS: Collaborative Research: Dynamical Networks and Collective Synchronization of Coupled Lasers	National Science Foundation	\$99,968
Boder, Eric	Controlling The Dynamics of Cell Adhesion Using Engineered Integrin I-Domain	National Institute of Mental Health	\$177,927
Dodds, Harold	NANT - Health Physics Fellowship	National Academy for Nuclear Training	\$25,000
Duscher, Gerd	Atomic-Scale Investigation of Energy Materials	UT-Battelle	\$30,739
Egami, Takeshi; Mays, Jimmy; Smith, Jeremy	Neutron Scattering Research Network for EPSCoR States	US Dept. of Energy	\$354,000
Fathy, Aly	U.S. - Egypt Regional Workshop on Microwave Emerging Technologies	National Science Foundation	\$41,435
Gribok, Andrei	Mathematical Modeling of Real-Time Ambulatory Sensor Data Collected on Free-Living Individuals	USDA	\$160,831
Hall, Howard	Technical Support for the Development of Advanced Safeguards Measurement Capabilities - Computational	UT-Battelle	\$44,227
Hall, Howard	Pu Distribution Program Engineering Analysis	UT-Battelle	\$83,296
Hall, Howard	Development of U/Pu Safeguards Measurement Capabilities Using Hybrid K-Edge Densitometry	UT-Battelle	\$23,523
Hall, Howard	Technical Support for Field Studies	UT-Battelle	\$44,227

## AWARDS FOR SEPTEMBER 4–17, 2010 (CONT.)

INVESTIGATOR	TITLE	SPONSOR	AWARD
Hall, Howard	Technical Support for the Development of Advanced Safeguards Measurement Capabilities	UT-Battelle	\$44,228
Hayward, Jason	ARI-MA Research Program in Exploiting Time-Correlated Signatures and Directionality of Interrogation to Detect Shielded Highly-Enriched Uranium	US Dept. of Homeland Security	\$399,221
Hu, Bin	NanoScience Based Polymer Thermoelectric Devices	US Air Force	\$111,860
Lee, Ida	Surface Characterization and Mapping of Lignocellulose Samples by Chemical Force Microscopy	UT-Battelle	\$40,000
Liu, Yilu	ORNL GridEye Development	UT-Battelle	\$34,650
Mandrus, David	Crystal Growth and Neutron Scattering	UT-Battelle	\$70,812
McHargue, Carl	Computational Modeling of Radiation Effects in Structural Materials	UT-Battelle	\$30,000
McHargue, Carl	Modeling and Simulation Studies in Support of Nuclear Energy Systems	UT-Battelle	\$30,000
Miller, Laurence; Penumadu, Dayakar; Melcher, Chuck	Transformational Scintillation Materials for Neutron and Gamma	US Dept. of Homeland Security	\$399,963
Pharr, George	Experimental Studies of Small-Scale Mechanical Behavior	UT-Battelle	\$114,892
Schwartz, John	CESU - Biological Effects of Acidic Deposition on Macroinvertebrates and Fish Communities within the Great Smoky Mountains National Park	US Dept. of the Interior - National Parks Services	\$25,000
Schwartz, John	Third Creek Restoration Project Monitoring, Knox County, Tennessee	TN Stream Mitigation Program	\$8,750
<b>COLLEGE OF SOCIAL WORK</b>			
Glisson, Charles	Organizational Context and Children's Mental Health in Urban After School Programs	University of Illinois, Chicago	\$35,161
<b>CAMPUS CENTERS &amp; INSTITUTES</b>			
Andrews, Phil	Evaluating and Enhancing the eXtreme Digital (XD) Cyberinfrastructure for Maximum Usability and Science Impact	University of Illinois and Urbana-Champaign	\$247,000
Nichols, Jeffrey	Fluids in Nanoporous Matrices	UT-Battelle	\$31,786

## RECOGNITIONS

**James McNulty**, associate professor of psychology, was recently quoted in an article about relationships titled "Criticism helpful to struggling couples" published in the *Ottawa Citizen*.

**Joan Rentsch**, professor of management and director of the industrial and organizational psychology program, was recently quoted in an article about economic trends titled "Economy's silver lining: a happy hour boom" published on the Yahoo! Finance web site.

**Glenn Reynolds**, professor of law, was recently quoted in an article about higher education in Southwest Florida titled "Boom time on campus...how long can it last?" published in the *Fort Myers News-Press*.

**Susan Riechert**, professor of ecology and evolutionary biology, was recently appointed by Gov. Phil Bredesen to the Tennessee Science, Technology, Engineering and Mathematics (STEM) Advisory Council to help direct Tennessee's strategic plan regarding placement of STEM initiatives and resources across the state in accordance with the federal "Race to the Top" K-12 education reform initiative.

**Gregory Stuart**, professor of psychology, was recently quoted in an article about substance abuse titled "Number of older adults treated for substance abuse doubles" published in *USA Today*.

**Jing Wu**, graduate student in biomedical engineering working in Mingjun Zhang's lab, has been invited to present a paper titled "Game Theoretic Approach for Counter-insurgency Warfare" at the 2010 Chemical and Biological Defense Science and Technology Conference. Wu was also awarded a student scholarship to cover the cost of attending the conference.

### UT Knoxville Invention Disclosures for August 2010

Modular electric bike sharing system for solar and grid-tied installations, **Christopher Cherry, Stacy Worley, and David Smith**

Predicting object properties and events using information retrieval and modeling, **John Birdwell, Tse-Wei Wang, David Icove, Sally Horn, Roger Horn, Dale Stansberry, and Mark Rader**

Predicting object properties and events using information retrieval and modeling, **John Birdwell, Tse-Wei Wang, David Icove, Sally Horn, and Mark Rader**

Predicting object properties and events using information retrieval and modeling, **John Birdwell, Scott Hansen, Quentin Haas, Carl Sapp, and Timothy Wentz**

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Recovery of tritium and helium 3 from waste materials, **Thomas Meek, John Bartmess, and Gordon Jarvinen**  
eBook and questions for multivariable calculus, **Nikolay Brodskiy**

### UT Knoxville Patents for August 2010

Parallel Data Processing Architecture, **John Birdwell, Tse-Wei Wang, Roger Horn, Pneet Yadav, and David Icove**

### 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).