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Office of Research & Engagement

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University of Tennessee Office of Research

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AWARDS AND RECOGNITIONS

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OCTOBER 12, 2011

AWARDS FOR SEPTEMBER 17–30, 2011

INVESTIGATOR	TITLE	SPONSOR	AWARD
COLLEGE OF ARTS & SCIENCES			
Bingham, Carrol	Matching Funds - UT/ORNL Joint Institute	UT-Battelle - ORNL	\$430,800
Bingham, Carrol	Matching Funds - UT/ORNL Joint Institute	UT-Battelle - ORNL	\$35,000
Dadmun, Mark	Support of Postdoc/Grad student for Mark Dadmun	UT-Battelle - ORNL	\$13,750
Egami, Takeshi	Atomistic Study of Bulk Metallic Glasses	UT-Battelle - ORNL	\$38,630
Gross, Louis	UT-Battelle EPA Risk - Environment Assessment and Decision Analysis	UT-Battelle - ORNL	\$26,000
Guiochon, Georges	Fundamental Studies in Nonlinear Chromatography	National Science Foundation	\$175,000
Herndon, Hillary	Cavani String Quartet	Tennessee Arts Commission	\$4,000
Kaplan, Gregory	Spanish Translation Services at ORNL	UT-Battelle - ORNL	\$1,566
Loeffler, Frank; Ritalahti, Kirsti	Towards Predictive Understanding of Nitrogen Flux in Soils	U.S. Dept. of Energy	\$504,620
Mays, Jimmy	Polymer Based Multi-component Materials	UT-Battelle - ORNL	\$25,049
Mazur, Peter	Aquaporins, Ice Formation in Cells, and Cryopreservation	NIH - National Center for Research Resources	\$225,860
McCracken, Gary; Hallam, Thomas	Surveillance of Bat Hibernacula to Investigate Routes of Exposure and Infection	U.S. Dept. of Interior - U.S. Geological Survey	\$62,000
Schulze, Timothy	Kinetic Monte Carlo Modeling and Simulation of Grain and Phase Boundaries	National Science Foundation	\$211,763
Vonarnim, Albrecht; Hettich, Robert	Proteomic Characterization	UT-Battelle - ORNL	\$18,120
Weitering, Hanno	Experimental Studies of Organic Spintronics	UT-Battelle - ORNL	\$16,178
Weitering, Hanno; Zhang, Zhenyu	Quantum Tuning of Superconducting, Plasmonic, and Chemical Properties of Metallic Nanostructures	University of Texas at Austin	\$139,801
Ziock, Klaus-Peter	Technical Support for Development of a Crystal Compton Camera	UT-Battelle - ORNL	\$36,826
COLLEGE OF BUSINESS ADMINISTRATION			
Bell, John; Mollenkopf, Diane	Returns Management, Resource Scarcity, and Organizational Performance	DOD - Dept. of the Air Force	\$50,000
Cathey, Amy	Additional MBA Student Support for Y-12 Fall 2011 Through Fall 2012	BWXT Y-12, LLC	\$182,920
Nagle, Nicholas	NCRN-SN: SSCRN: Spatial Sciences Census Research Node	University of Colorado	\$512,022
COLLEGE OF COMMUNICATION & INFORMATION			
Suttles, Barbara	Technical Support to the Computational Data Analytics	UT-Battelle - ORNL	\$51,000
COLLEGE OF EDUCATION, HEALTH & HUMAN SCIENCES			
Benner, Susan; Elston, Stuart	Teach/Here	National Science Foundation	\$475,775
Raynor, Hollie	Translating Habituation Research to Interventions for Pediatric Obesity	State University of New York - Syracuse	\$23,350
White, Connie	Tennessee Even Start Database Support, Training, and Technical Assistance	Tennessee Dept. of Education	\$35,000
COLLEGE OF ENGINEERING			
Bosilca, George	G8 Initiative: Collaborative Research: ECS: Enabling Climate Simulation	National Science Foundation	\$100,756
Bray, Larry	Comprehensive Plan: Rock Island Transportation Study	DOD - Army Corp of Engineers	\$49,957
Clarke, David	Support to Transportation Policy Analysis Research Program	UT-Battelle - ORNL	\$23,761
Clarke, David	DOE/EPA Fuel Economy Information	UT-Battelle - ORNL	\$44,603
Clarke, David	DOE/EPA Fuel Economy Information Site	UT-Battelle - ORNL	\$81,291
Clarke, David	Fuel Economy Guide	UT-Battelle - ORNL	\$91,104
Clarke, David	Fuel Economy Program & Clean Cities Activities	UT-Battelle - ORNL	\$49,246
Dmowski, Wojciech	Atomistic Study of Bulk Metallic Glasses	UT-Battelle - ORNL	\$27,378
Dongarra, Jack; Luszczek, Piotr	FutureGrid: An Experimental, High-Performance Grid Testbed	Indiana University	\$177,084
Fu, Joshua	Arctic Combined Heat and Power (ACHP) Project	UT-Battelle - ORNL	\$109,030
Grossbeck, Martin	Study of Compatibility of Stainless Steel Weld Joints with Liquid Sodium-Potassium	U.S. Dept. of Energy	\$23,000
Hall, Howard	Simulation Study using MCNPX and NRFGEANT4 for Applicability of Nuclear	DOE - Los Alamos National Laboratory	\$74,546
Irick, David	ITER Magnet Systems Development	UT-Battelle - ORNL	\$50,211
Li, Fangxing	SPIDERS: Smart Power Infrastructure Demonstration for Energy Reliability and Security	UT-Battelle - ORNL	\$52,000
Liaw, Peter; Egami, Takeshi; Zhang, Yanwen	Radiation Behavior of High-Entropy Alloys for Advanced Reactors	U.S. Dept. of Energy	\$538,159
Loeffler, Frank	Secondary Impacts of In Situ Remediation on Groundwater Quality	Tufts University	\$92,495
Mahfouz, Mohamed	Computerized Reconstruction of Fragmentary Skeletal Remains for Purposes	U.S. Dept. of Justice - National Institute of Justice	\$514,495

AWARDS FOR SEPTEMBER 17–30, 2011 (CONT.)

INVESTIGATOR	TITLE	SPONSOR	AWARD
Moore, Shirley; Bosilca, George; Dongarra, Jack; Terpstra, Daniel	Institute for Sustained Performance, Energy, and Resilience (SuPER)	DOE - Office of Science	\$215,000
Moore, Shirley; Terpstra, Daniel	SHF: Small: PAPI-V: Hardware Performance Monitoring for Virtualized Environments	National Science Foundation	\$425,000
Parker, Lynne	Analysis Tools for Sensor-Based Energy Modeling	UT-Battelle - ORNL	\$6,664
Sarles, Stephen	Auditory Mimics using Membrane-based Biomolecular Arrays	Virginia Polytechnic Institute State University	\$109,831
Tootle, Glenn	Climatic Variability and Development of Long Lead-Time Hydrologic Forecasting	Idaho Power Company	\$69,000
Wilck, Joseph	ENPI/EI Demo GUI Interface	UT-Battelle - ORNL	\$6,884
Wirth, Brian	Modeling Materials Performance in Extreme Environments	UT-Battelle - ORNL	\$21,503
Wu, Jie	Functional Sorting of Microbial Cells from Complex Microbiota	UT-Battelle - ORNL	\$10,769
Zawodzinski, Thomas; Papandrew, Alexander	Advanced Energy Storage Technologies: Novel Electrolyte Energy Storage Systems	Stanford University GCEP	\$49,984
Zawodzinski, Thomas; Papandrew, Alexander	Advanced Energy Storage Technologies: Novel Electrolyte Energy Storage Systems	Stanford University GCEP	\$99,773
Zhang, Yanwen	Silver Behavior on SiC Surface	UT-Battelle - ORNL	\$100,000
Zhuravleva, Mariya; Melcher, Charles	ARI-MA Scale-up to Success: Pioneering Crystal Growth of Large High Resolution	National Science Foundation	\$379,857
COLLEGE OF NURSING			
Lee, Jan	Nurse Faculty Loan Program (NFLP)	DHHS - Health Resources and Services Administration	\$66,004
COLLEGE OF SOCIAL WORK			
Campbell, Paul; Cunningham, Maryanne	MTSU Tennessee Center for Child Welfare FY 2012	Middle Tennessee State University	\$4,297,983
Dupper, David	OJJDP Gang Prevention Youth Mentoring Program	Boys and Girls Club	\$8,333
Glisson, Charles	Improving Family-to-Family Services in Children's Mental Health	Research Foundation for Mental Hygiene	\$67,887
Patterson, David	2011 Knox County CDBG Matching Funds	Knox County Community Development Office	\$10,000
CAMPUS CENTERS & INSTITUTES			
Kovatch, Patricia; Zacharia, Thomas	XSEDE: eXtreme Science and Engineering Discovery Environment	University of Illinois	\$2,074,000
Bell, Larry	Sigma Space - NASA/LBA	Sigma Space Corporation	\$11,414
Bell, Larry	Bioconversion of Fuels and Chemicals	UT-Battelle - ORNL	\$21,365
Cole, Gregory	IRNC:ProNet: GLORIAD	National Science Foundation	\$1,084,492
Cole, Gregory	IRNC:ProNet: GLORIAD	National Science Foundation	\$3,643,710
McKay, Larry	Technical Support for Environmental Projects	UT-Battelle - ORNL	\$72,890
Millhorn, David; Bruce, Barry; Sedrick, Gregory; Zawodzinski, Thomas	EPSCoR: Tennessee Solar Conversion and Storage Using Outreach, Research and Education	National Science Foundation	\$4,000,000
Zacharia, Thomas	Joint Institute for Computational Sciences: High Performance Computing System Acquisition: Towards a Petascale Computing	National Science Foundation	\$6,497,365
OTHER			
Riedinger, Leo	Charles Chin, ESE (CIRE)	UT-Battelle - ORNL	\$12,257

RECOGNITIONS

Pioneering forensic anthropologist **Bill Bass** has had a building named after him on the campus of the UT Medical Center. Bass, professor emeritus in anthropology, created new ways to study human remains that are now standard procedures in criminal investigations. He also created the Donated Skeletal Collection, the largest collection of modern bones in the United States.

The American Physical Society has awarded UT physicist **Witek Nazarewicz** its Tom W. Bonner Prize for 2012. Described as the most prestigious nuclear physics prize in the United States, the honor recognizes outstanding experimental research in nuclear physics, including developments that further research in the field.

The **UT Team Living Light** took eighth place overall in the U.S. Department of Energy's 2011 Solar Decathlon, which included 20 university contestants from across the nation. The UT entry tied for first place in a subcategory – energy balance – in which it generated enough solar energy to supply the needs of the structure. The UT team placed fifth or better in three other categories. **Edward Stach, Richard Kelso, James Rose,** and **Barbara Klinkhammer** in the College of Architecture and Design, **Deb Shmerler** in the School of Art, **Leon Tolbert** in electrical engineering, and **Stan Johnson** and **Bill Miller** in mechanical engineering led the faculty team that involved two years of planning and design and the work of some 200 students in nine academic programs.