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Awards and Recognitions

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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AUGUST 1, 2012

AWARDS FOR JULY 8–18, 2012

INVESTIGATOR	TITLE	SPONSOR	AWARD
COLLEGE OF ARTS & SCIENCES			
Allison, David	Destroying Pathogenic Bacteria Using Targeted-Nanoparticles	DOE - UT-Battelle - ORNL	\$25,270
Barnes, Craig	ARRA: Chemical Catalysis for the Conversion of Renewable Feedstocks into Chemical and Fuels	UT Institute of Agriculture	\$50,521
Buchan, Alison	ARRA: Chemical Catalysis for the Conversion of Renewable Feedstocks into Chemical and Fuels	UT Institute of Agriculture	\$29,525
Classen, Aimee	RCN: Integrated Network for Terrestrial Ecosystem Research on Feedbacks to the Atmosphere and Climate (INTERFACE)	Purdue University-Sponsored Programs and Research	\$6,557
Dadmun, M.; Hu, B.; Khomami, B.; Mays, J.	Rational Design and Synthesis of Targeted Nanostructures in Organic Photovoltaics	National Science Foundation	\$1,999
Feng, Xiaobing	New Direction Professorship	University of Minnesota	\$25,000
Gross, Louis	National Institute for Mathematical and Biological Synthesis (NIMBioS)	National Science Foundation	\$2,979,172
Hollenbach, Kandace	Archaeological Subsistence Analysis, WR Oxford Project, Calhoun County, Alabama	Spectrum Environmental Services, Inc.	\$11,284
Levy, Jacob	Practicum Experience in Counseling Psychology	Cherokee Health Systems	\$10,000
McSween, Harry	Mars Surveyor	Cornell University - Center for Radiophysics and Space Research	\$5,000
Moore, Todd	Practicum Experience Clinical Psychology	East TN Children's Hospital	\$10,000
Peterson, Cynthia; Dongarra, Jack; Langston, Michael	IGERT for Scalable Computing and Leading Edge Innovative Technologies (SCALE-IT) for Biology	National Science Foundation	\$599,880
Shorey, Ryan; Stuart, Gregory	The Temporal Association Between Alcohol, Negative Affect, and Dating Violence	DHHS - NIH - National Institute on Alcohol Abuse and Alcoholism	\$33,205
Sokolov, Alexei	Dynamics of Proteins and Hydration Water: Neutron Scattering Studies	DOE - UT-Battelle - ORNL	\$20,548
Weitering, Hanno	Ultrathin Oxide Growth and Characterization	DOE - UT-Battelle - ORNL	\$50,488
Zinser, Erik; Wilhelm, Steven	Collaborative Research: Seasonal and Decadal Changes in Temperature Drive	National Science Foundation	\$252,686
COLLEGE OF BUSINESS ADMINISTRATION			
Fox, William	Market Rate	TN Dept. of Human Services	\$26,400
Stewart, Joseph	Air Force Acquisition Improvement Support (FA7014-10-R-0008)	DOD - Dept. of the Air Force	\$860,000
COLLEGE OF COMMUNICATION AND INFORMATION			
Cortez, Edwin; Allard, Suzanne	LaSCALA: The Latino Scholars Cambio Leadership Academy	Institute of Museum and Library Services	\$339,593
Mehra, Bharat; Black-Parker, Kimberly; Singh, Vandana	Rural Library Professionals as Change Agents in the 21st Century	Institute of Museum and Library Services	\$478,258
Tenopir, C.; Allard, S.; Levine, K.; Nicholas, D.	Trust and Authority in Scholarly Communications in the Light of the Digital	Sloan Foundation	\$273,130
COLLEGE OF EDUCATION, HEALTH & HUMAN SCIENCES			
Cihak, David	Become a Special Educator in TN at the University of Tennessee, Knoxville	TN Department of Education - Division of Special Education	\$22,092
Cihak, David; Bell, Sherry; Coleman-Lopatic, Marion	Special Education Summer Institute for Modified, Comprehensive and Early Childhood	TN Department of Education - Division of Special Education	\$841,692
Coleman-Lopatic, Marion	AT (Assistive Technology) at UT	TN Department of Education	\$5,000
Hayes, G.; Wozencroft, A.	Project TRIPS: Therapeutic Recreation in Public Schools	TN Department of Education	\$288,411
Moore, Tara	Connections for Education OUTReach at UTK: Professional Development and Technical	TN Department of Education - Division of Special Education	\$900,000
Mulligan, Geraldine	Adult Education Professional Development and Technical Assistance	TN Department of Labor and Workforce Development	\$681,445
White, Connie	Tennessee Transition to Career and Post-Secondary	TN Department of Education	\$299,490
COLLEGE OF ENGINEERING			
Becker, Dulcenea	Joint Research for Pushbutton CFD Application	Concepts ETI, Inc.	\$31,000
Burton, Mark	ARRA Evaluating the Economic Impacts of the Weatherization Assistance Program	DOE - UT-Battelle - ORNL	\$108,647
Clarke, David	Support to Transportation Policy Analysis Research Program	DOE - UT-Battelle - ORNL	\$27,151
Clarke, David	Fuel Economy Program & Clean Cities Activities	DOE - UT-Battelle - ORNL	\$37,715
Duscher, Gerd	Planning Grant: I/U CRC for Next Generation Photovoltaics	National Science Foundation	\$13,000
George, Easo	Microstructure and Mechanical Properties of High-Entropy Alloys	DOE - UT-Battelle - ORNL	\$25,147
Hall, Howard	Technical Support for Nonproliferation Studies	DOE - UT-Battelle - ORNL	\$27,482
Hayward, Jason	Radiation Detection Research and Development	DOE - UT-Battelle - ORNL	\$28,187
Hayward, Jason	Alternative Detector System to Replace He-3 Detectors for Neutron Sciences	DOE - UT-Battelle - ORNL	\$39,904
Hines, J.	Power Plant Online Monitoring Data Analysis	ALSTOM Power, Inc.	\$45,000

AWARDS FOR JULY 8–18, 2012 (CONT.)

INVESTIGATOR	TITLE	SPONSOR	AWARD
Holleman, Jeremiah	Low-Noise Amplifier Array for Reliable Peripheral Neural Interface	Draper Laboratory	\$250,000
Komistek, Richard; Hamel, William; Sharma, Adrija	In Vivo Determination and Comparison of Knee Kinematics for Subjects Implanted	Conformis	\$213,683
Li, Fangxing	Management and Optimization of VAR under Future Transmission Infrastructure	DOE - UT-Battelle - ORNL	\$52,667
Liaw, Peter	Mechanical-Behavior Study of Structural Materials Using Neutron Scattering	DOE - UT-Battelle - ORNL	\$15,152
Lyne, James	Nanosat Launch Vehicle Engine Design Studies	NASA - Marshall Space Flight Center	\$16,819
Maldonado, Guillermo	Storage and Transportation Engineering Analysis and Used Nuclear Fuel Assessment	DOE - UT-Battelle - ORNL	\$42,807
Maldonado, Guillermo	Core Neutronics Model Development for the mPower Reactor	Babcock and Wilcox, Inc.	\$78,000
McHargue, C.; Barabash, R.	X-Ray Diffuse Scattering- 2	DOE - UT-Battelle - ORNL	\$952
Mench, Matthew	Great Lakes Fuel Cell Education Partnership	Stark State University	\$57,570
Rack, Philip	Electron Beam Induced Deposition Precursors and Etching Chemistries for EUV Mask	Semiconductor Research Corporation	\$150,000
Ruggles, Arthur	HFIR Target Assessments	DOE - UT-Battelle - ORNL	\$38,128
Schwartz, John	CESU - Improve the Park's Understanding of its Natural Resources and Natural Processes	US Dept. of Interior - Great Smoky Mountains National Park	\$121,596
Schwartz, John	Effective Urban Stream Bank Stability Projects to Decrease Sediment in Oostanaula	UT Institute of Agriculture	\$45,446
Tolbert, Leon; Blalock, Benjamin; Wang, Fei	Ultra High Efficiency Power Converters	Auburn University	\$458,347
Zawodzinski, Thomas	Redox Flow Battery Testing	DOE - UT-Battelle - ORNL	\$20,000
Zhang, Mingjun; Lenaghan, Scott	Acquisition of a Nanoindenter for Studying Mechanical Properties of Nanomaterial	DOD - Army Research Office	\$168,521
Zhang, Zhili	Air Microplasma Characterization by Microwave Absorption and Laser Diagnostics	UES, Inc.	\$58,500
COLLEGE OF NURSING			
Lee, Jan	Nurse Faculty Loan Program	DHHS - Health Resources and Services Administration	\$139,870
COLLEGE OF SOCIAL WORK			
Campbell, P.; Cheatham, J.; Cunningham, M.	Child Care Assessment Supportive Services Program (STARS) FY13	TN Dept. of Human Services	\$1,150,000
Campbell, Paul; DeGeorge, Elizabeth	TDHS Training and Publications FY13	TN Dept. of Human Services	\$280,000
Wodarski, John; MacMaster, Samuel	E-Therapy Screening and Interventions for Vulnerable Young Adults with SA	DHHS - Substance Abuse and Mental Health Services	\$399,997
Wodarski, John; MacMaster, Samuel	The Expanded Care Coordination through the Use of Health Information Technology	DHHS - Substance Abuse and Mental Health Services	\$275,005
CAMPUS CENTERS & INSTITUTES			
Harrison, Robert	Spatio-Temporal Signal Processing	DOE - UT-Battelle - ORNL	\$9,986
Harrison, Robert	Schuchart Vampir Tools Set	DOE - UT-Battelle - ORNL	\$84,411
Layton, Alice	Pathogen Monitoring and Fecal Source Identification in the Little River Watershed	Blount County Conservation District	\$18,707
Moeller, Trevor Michael	Continued Participation by the University of Tennessee Space Institute in the NASA Space Grant Consortium	Vanderbilt University	\$17,900
Pfiffner, Susan; Layton, Alice; Sanseverino, John	The Impact of Global Warming on the Carbon Cycle of Arctic Permafrost	Princeton University	\$311,152

RECOGNITIONS

In a paper published in *Nature*, a team led by **Witold Nazarewicz**, professor of physics, used the Jaguar high-performance computer to assess the theoretical boundaries of possible nuclei that could exist. The paper, "The Limits of the Nuclear Landscape," indicates that some 6,900 nuclei are theoretically possible, more than twice the number that exist in nature or that have been synthesized in laboratories. Other authors of the paper included postdocs **Jochen Erler** and **Markus Kortelainen**, graduate student **Erik Olsen**, undergraduates **Noah Birge** and **Alex Perhac**, and the late **Mario Stoitsov**, a UT research professor.

Stefan Spanier, associate professor of physics, as well as postdoc **Zongchang Yang**, graduate students **Grant Riley** and **Andrew York**, and recent physics graduates **Giordano Cerizza** and **Matthew Hollingsworth**, played a role in the research that led to the recent announcement of the observation of the Higgs boson. Spanier's group worked on detectors that safeguarded crucial equipment in the Large Hadron Collider.

Fourth-year architecture student **Asia Dixon** of Nashville won one of two Gensler African American Scholarships from Gensler, a global architecture firm. Her award includes support for her fifth year of school and a paid summer internship.