University of Tennessee, Knoxville
Trace: Tennessee Research and Creative Exchange

Awards and Recognitions | Office of Research

6-13-2012

Office of Research, Awards & Recognition, June 23, 2012

University of Tenessee Office of Research

Follow this and additional works at: http://trace.tennessee.edu/utk_researchawards

Recommended Citation
Office of Research, University of Tenessee, "Office of Research, Awards & Recognition, June 23, 2012" (2012). *Awards and Recognitions.*
http://trace.tennessee.edu/utk_researchawards/86

This Newsletter is brought to you for free and open access by the Office of Research at Trace: Tennessee Research and Creative Exchange. It has been accepted for inclusion in Awards and Recognitions by an authorized administrator of Trace: Tennessee Research and Creative Exchange. For more information, please contact trace@utk.edu.

Quest
Research • Scholarship • Creative Activity

THE UNIVERSITY of TENNESSEE KNOXVILLE

AWARDS AND RECOGNITIONS

http://research.utk.edu JUNE 13, 2012

AWARDS FOR MAY 11–JUNE 1, 2012

INVESTIGATOR	TITLE	SPONSOR	AWARD
COLLEGE OF ARTS & SCIENCES			
Bruce, Barry	Understanding Photosystem I as Biomolecular Reactor for Energy Conversion	DOD - Department of the Army	$150,000
Camden, Jon	CAREER: Surface-Enhanced Nonlinear Spectroscopy: Mapping Electronic Excited	National Science Foundation	$120,000
Dai, Pengcheng	Neutron Scattering Studies of Spin and Lattice Dynamics in Electron-Doped Iron	National Science Foundation	$14,999
Datskos, Panagiotis	Micro-Electro-Mechanical (MEMS) Retroreflector Structures	DOE - UT-Battelle - ORNL	$100,000
DeCorse, Elizabeth	Geophysical Survey at Fraterville Itinerant Miners' Cemetery, Anderson County	Coal Creek Watershed Foundation	$3,595
Dolislager, F.; Galloway, L.; Gross, L.; Stewart, D.	Risk Integration Support for FY 2012 WR63, Rev 000	DOE - URS CH2M Oak Ridge LLC (UCOR)	$7,789
Egami, Takeshi	Unilamellar Vesicles as Platforms for Understanding Biological Phenomena	DOE - UT-Battelle - ORNL	$40,711
Engel, Annette	EAGER: Evaluation of Dual Symbiosis in Lucinid Bivalves	National Science Foundation	$107,732
Freeberg, T.; Reynolds, G.	Experimental Psych Practicum	BWXT Y-12, LLC	$4,992
Garner, Stanton; Burnett, Katharine	Mellon/ACLS Dissertation Completion Fellowship for Writing	American Council of Learned Societies	$28,432
Gordon, Kristina	Relationship Rx: Integrating a Couples Intervention Program into a Primary Care	Administration for Children and Families	$723,508
Guidry, Michael	Graphical Editor Development for Nuclear Modeling and Simulation	DOE - UT-Battelle - ORNL	$5,494
Hollenbach, Kandace	In-Field Specialized Archaeological Consultation, WR Oxford Project, Calhoun	Spectrum Environmental Services, Inc.	$56,157
Kah, Linda	MAHLI – MArs HandLens Imager for the Mars Science Laboratory	Malin Space Science Systems	$63,116
Mikucki, Jill	Resistivity Mapping of Subsurface Microbial Habitats in the McMurdo	National Science Foundation	$61,297
Moersch, Jeffrey	ASU Subcontract: Spectral Mapping and Thermophysical Characterization of the Martian Surface	Arizona State University	$56,000
O'Neill, Hugh	Bio-SANS and Bio-Deuteration Laboratory Research Support	DOE - UT-Battelle - ORNL	$49,329
Perfect, Edmund	Neutron Imaging of Fluids in Rocks and Soils	DOE - UT-Battelle - ORNL	$15,105
Sanders, Nathan	Dissertation Research: Climatic Warming Shapes the Structure and Function	National Science Foundation	$12,881
Steadman, Dawnie	Bioarchaeological Analysis, WR Oxford Project, Calhoun County, Alabama	Spectrum Environmental Services, Inc.	$11,913
Taylor, Lawrence; Liu, Yang	Evolution of Crusts and Mantles of Planetary Bodies	NASA - Headquarters	$125,000
Wilhelm, Steven; Zinser, Erik	REU Site: Microbial Community Interactions and Function	National Science Foundation	$314,917
COLLEGE OF BUSINESS ADMINISTRATION			
Mee, Robert	Optimum Experimental Design for Langmuir-Hinshelwood Equation Estimation	DOE - UT-Battelle - ORNL	$15,877
Youngs, Lynn	Jobs4TN Regional Entrepreneurial Accelerator Program	TN Department of Economic and Community Development	$250,000
COLLEGE OF EDUCATION, HEALTH & HUMAN SCIENCES			
Bell, Sherry; Duckett, Kermit	Basic Aerospace Education Workshop	TN Department of Transportation Aeronautics Division	$31,500
Kronick, Robert	University-Assisted Community School Project	Catholic Charities, Inc.	$70,000
Mulligan, Geraldine	The Boling Center	UT Health Science Center	$67,016
COLLEGE OF ENGINEERING			
Abidi, M.; Koschan, Andreas	Target Handoff and Resource Management for Multi-Sensor-Multi-Target Tracking	DOD - Department of Defense	$225,000
Alshibli, Khalid	Experimental Measurements of Stresses and Strains of Granular Materials Using 3D	National Science Foundation	$6,000
Alshibli, Khalid	Integrated Experimental-Computational Multiscale Immersed Particle-Continuum	University Of Colorado	$40,995
Blalock, Benjamin	Frequency Synthesizer Design and ASIC Development for FMI Phase II NASA SBIR	Chronos Technology	$33,991
Choo, Hahn	Neutron Diffraction Investigation of the Deformation and Phase Transformation	POSCO	$53,674
Clarke, David	UTC Support of NuRails Project for University of Illinois	University of Illinois	$115,000
Dongarra, J.; Luszczek, P.	HPCC Benchmark Maintenance	DOE - UT-Battelle - ORNL	$148,026
Duscher, Gerd	Atomic-scale Investigation of Energy Materials	DOE - UT-Battelle - ORNL	$22,364
Hall, Howard	Technical Support for Nonproliferation Studies	DOE - UT-Battelle - ORNL	$2,646
Hayward, Jason	Confidential	Confidential	$7,558
Hayward, Jason	Characterization of Fully Digital Silicon Photomultiplier Arrays	Siemens Healthcare	$5,599

AWARDS FOR MAY 11–JUNE 1, 2012 (CONT.)			
INVESTIGATOR	TITLE	SPONSOR	AWARD
Heilbronn, Lawrence	Optimization and Modeling of Production of 63Ni via Neutron Capture	DOE - UT-Battelle - ORNL	$20,000
Hines, J.	The Operations Support and Sustainment Technologies Phase II (OSST II) OSST Tech	Boeing	$80,000
Irick, D.; Madhukar, M.	ITER Magnet Systems Development	DOE - UT-Battelle - ORNL	$648,829
Islam, Syed	Development of Integrated Circuits for Implantable Glucose Sensors	University of Connecticut	$5,860
Kohls, Airton	Development of NHI Highway Noise Course	National Highway Institute	$35,668
Li, Husheng	Interoperable Communications for Hierarchal Heterogeneous Wireless Networks	Prairie View A&M University	$100,000
Li, Xueping	Demand Driven Forecasting and Supply Chain Intelligence for QCN	Quanta Computer Nashville	$15,000
McHargue, Carl	Computational Modeling for Radiation Effects	DOE - UT-Battelle - ORNL	$23,500
Mench, Matthew	Support of IAHE Activities	International Association for Hydrogen Energy	$25,000
Passian, A.; Farahi, R.; Ferrell, R.; Gleason, S.; John, D.; Khomami, B.; MacCabe, A.; Parang, M.; Vazhkudai, S.; Wells, J.; Worley, B.	Physical Sciences-Oncology Center Data Coordination Center	Science Applications International Corporation	$582,720
Reinbolt, Jeffrey	Furthering University of Tennessee Undergraduate Research Education (FUTURE)	NIH - Nat'l Institute of Biomedical Imaging and Bioengineering	$43,200
Sarles, Stephen	Encapsulated Lipid Bilayer Based Assay for Assessing Botulinum Neurotoxin	Electronic BioSciences, Inc.	$20,896
Sawhney, Rapinder	Partnership Between UT & ITESM Campus Aguascalientes	ITESM Campus Aguascalientes	$87,000
Sawhney, Rapinder	Partnership Between UT & Jiangnan University, China	Jiangnan University, China	$23,200
Sawhney, Rapinder	Partnership Between UT & Universidad Federal de Itajuba, Brazil	Universidad Federal de Itajuba	$58,000
Sawhney, R.; Kress, R.	R&D of Discrete-Event Simulations of MFG	BWXT Y-12, LLC	$95,328
Wirth, Brian	Modeling Fission Product Retention and Thermal-Mechanical Response of TRISO-Base	DOE - UT-Battelle - ORNL	$55,325
COLLEGE OF NURSING			
Niederhauser, Victoria; Ramsey, Gary	Enhancing Diversity in a Second Degree Nursing Program	Robert Wood Johnson Foundation	$50,000
COLLEGE OF SOCIAL WORK			
Patterson, David	VMC Matching Funds FY12-13	Volunteer Ministry Center	$2,500
CAMPUS CENTERS & INSTITUTES			
Biggerstaff, John	Melanoma Xenogenic Plasmid DNA Vaccine in Tumor-Bearing Horses: A Phase I Study	Lincoln Memorial University	$14,730
Hall, Howard	Assessment of Commercial Nickel Supplies	Oak Ridge Associated Universities	$30,000
Harrison, Robert	Soft Hybrid Materials Goswami	DOE - UT-Battelle - ORNL	$34,226
Harrison, Robert	Jewell Health Care Informatics	DOE - UT-Battelle - ORNL	$7,002
Harrison, Robert	Sonewald Sharepoint Services	DOE - UT-Battelle - ORNL	$8,387
Harrison, Robert	Martin Textual Data	DOE - UT-Battelle - ORNL	$125,371
Harrison, Robert	Neschke Novel Methodologies	DOE - UT-Battelle - ORNL	$40,058
Harrison, Robert; Nichols, Jeffrey	Multiple Scattering Approaches to the Non-Collinear Magnetic Structure in Fe Based Alloys	DOE - UT-Battelle - ORNL	$41,415
Zacharia, Thomas	JICS Proposal to NSF05-625: High Performance Computing System Acquisition: Towards a Petascale Computing Environment	National Science Foundation	$6,725,518
Zhuang, Jie; McCarthy, John	Self-Protection of Organic Carbon in Soil Pores under Organic Agricultural	National Science Foundation	$99,944

Three UT Researchers Win CAREER Awards

Three University of Tennessee faculty have received substantial support from the National Science Foundation to pursue early-career research projects.

Jon Philip Camden, **Norman Mannella**, and **Kivanc Ekici** have received NSF Faculty Early Career Development awards, also known as CAREER awards.

The NSF describes the CAREER award as the foundation's most prestigious award for junior faculty who integrate outstanding research with excellent educational outreach.

Camden, an assistant professor in chemistry, will study a special form of spectroscopy, a method for examining surfaces at a molecular level.

Ekici, an assistant professor in aerospace engineering, will research new ways to detect unstable aerodynamic forces to improve the design of wind turbine blades.

Mannella, an assistant professor in physics, will study unconventional particle interactions in high-temperature superconductors.

Camden and Mannella will involve science and math students from Hardin Valley Academy in the educational outreach components of their projects. Ekici will provide summer workshops for high school science teachers and recruit a high school senior for a research experience.

The University of Tennessee, Knoxville, is an EEO/AA/Title VI/Title IX/Section 504/ADA/ADEA institution. *Awards & Recognition* is published on alternate weeks for the faculty of UT Knoxville by the Office of Research with assistance from UT Creative Communications. Job #9201
For submissions or information, contact **Bill Dockery** by e-mail at **dockeryb@utk.edu** or call 865-974-2187. Archived online at **http://research.utk.edu/news**.