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Office of Research, Awards & Recognition, September 23, 2009

University of Tennessee Office of Research

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## AWARDS AND RECOGNITIONS

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**AWARDS FOR SEPTEMBER 4–17, 2009**

**SEPTEMBER 23, 2009**

<table>
<thead>
<tr>
<th>INVESTIGATOR</th>
<th>TITLE</th>
<th>SPONSOR</th>
<th>AWARD</th>
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| **COLLEGE OF ARCHITECTURE & DESIGN**

Stuth, Tricia Anne; Wilt, Catherine A.; Ezzell, Timothy

*The New Norris House: A Sustainable Home for the 21st Century, Phase II*

Environmental Protection Agency

$74,999

| **COLLEGE OF ARTS & SCIENCES**

Anderson, David George

*Participating Agreement between USDA Forest Service and UT ( Kisatchie National Forest)*

USDA - Forest Service

$34,776

Butler, Paul D.

*Construction of SANS Portion of DANSE Software Project*

National Science Foundation

$126,311

Efremenko, Yuri V.

*Joint Faculty*

UT-Battelle - ORNL

$14,260

Feller, Daniel M.

*The Papers of Andrew Jackson*

National Historical Publications and Records Commission

$172,160

Gordon, Kristina Coop

*En-Paraje: A Latino Couples Intervention to Help Expectant Fathers Quit Smoking*

Duke University Medical Center - Office of Grants and Contracts

$28,322

Guichon, Georges A.

*Separation of Highly Complex Mixtures by Two-Dimension Liquid Chromatography*

Department of Energy - Office of Science

$240,000

Horn, Sally P.; Grissino-Mayer, Henri D.

*CESU-Sedimentary and Dendrochronological Evidence of Fire History in the Florida Keys, USA*

US Fish and Wildlife Service

$61,853

Mannella, Norman; Withering, Hanno H.; Taylor, Lawrence A.; Larsen, John Z.; Biggerstaff, John

*Acquisition of Major Research Instrumentation for Advanced Photoelectron Spectroscopy with Spin, Angle and Spatial Resolution*

National Science Foundation

$592,200

Mazur, Peter; Roberts, Daniel M.

*Aquaporins, Ice Formation in Cells, and Cryopreservation*

NIH - National Center for Research Resources

$124,465

Moersch, Jeffrey P.

*Subcontract work for: Thermal Behavior and Detection of Caves on Earth and Mars*

SETI Institute

$83,338

Mone, Adriana

*Joint Faculty*

UT-Battelle - ORNL

$19,693

Taylor, Lawrence A.

*Miniaturization of an Environmental Scanning Electron Microscope for Remote Planetary Studies: Science Advisory Team*


$24,000

Weitering, Hanno H

*Joint Faculty*

UT-Battelle - ORNL

$5,110

Wilhelm, Steven W.

*Collaborative Research: Decoding Virus Leviathans*

National Science Foundation

$275,004

**COLLEGE OF EDUCATION, HEALTH & HUMAN SCIENCES**

Benner, Susan Mclean

*Tennessee’s Early Intervention System (TEIS)*

TN Dept of Education

$70,000

Mulligan, Geraldine Ann

*Adult Education Professional Development and Technical Assistance*

Tennessee Department of Labor and Workforce Development

$585,616

Stephens, Jean

*Ovae Associates Initiative*

MPR Associates, Inc.

$28,168

**COLLEGE OF ENGINEERING**

Arel, Itamar; Tomsovic, Kevin Louis

*Workshop: Improving Domestic Student Participation in Electrical and Computer Engineering*

National Science Foundation

$50,000

Anmilli, Rao V.

*Direct-Cooled Power Electronics Substrate Designs*

UT-Battelle - ORNL

$1,000

Birdwell, John D.; Wang, Tse-Wei; Icove, David J.; Horn, Sally P.

*Similarity-Based Indexing and Search of Database for Correlation of Object Properties with Ref*

Army - United States Army Aviation and Missile Command

$745,335

Bosilca, George Marian; Dongarra, Jack

*Graduate Student Support for MPI-Related Work*

UT-Battelle - ORNL

$5,000

Choo, Hahn

*Neutron and X-Ray Diffraction Analyses of Deformation-Induced Martensitic Phase Transformation*

POSCO

$47,000

Desmidt, Hans August

*Comprehensive Variable Speed Rotorcraft Propulsion System Modeling and Analysis with Coupled Engine/Transmission/ Rotor Dynamics*

Pennsylvania State University

$68,974

Halstead, Peter D.

*Quality Systems Review, Headgear Product Evaluation*

Adams USA, Inc.

$24,000

Hayward, Jason Peter

*ARI-MA Research Program in Exploitation of Time-Correlated Signatures and Directionality to Detect Shielded Highly- Enriched Uranium*

National Science Foundation

$399,654

He, Qiang; Hawkins, Shawn A.; Cox, Chris D.

*An Innovative Design of Anaerobic Co-digestion of Animal Wastes for Sustainable Development*

Environmental Protection Agency

$10,000

Hu, Bin

*Exploring Electrical and Magnetic Resonances from Coherently Correlated Long-Lived Radical Pair*

Air Force Office of Scientific Research

$81,459

McFargue, Carl J.; Stewart, David Michael

*Modeling And Simulation Studies In Support Of Nuclear Energy Systems*

UT-Battelle - ORNL

$19,600

Schwartz, John Steven

*Development of Guidance for Reliable Bed-Material Transport Estimates for Gravel-Bed Streams*

Tennessee Stream Mitigation Program

$124,866
awards & recognition

Jim Bemiller, assistant professor in the Exercise, Sports and Leisure Studies Department, was selected by City View magazine as one of the top entertainment and sports lawyers in the region.

Jerry Black, associate professor in the College of Law, has been elected to a one-year term as President of the Tennessee Association of Criminal Defense Lawyers.

Hamparsum Bozdogan, Toby & Brenda McKenzie Professor in the Department of Statistics, Operations and Management Science, was an invited speaker at the international meeting of the Classification and Data Analysis Group (CLADAG) of the Italian Statistical Society at the University of Catania, in Catania, Italy.

Matt Murray, professor of economics, was recently quoted in an Associated Press article on the likelihood of American consumer spending returning to pre-recession levels titled “New frugality is the new normal, by necessity.”

Jim Thompson, professor of physics, and research assistant professor Yuri L. Zuev are members of a team that won R&D Magazine’s “R&D 100 Award” for their work on superconducting wires. Along with their colleagues, Thompson and Zuev created and tested a kind of superconducting wire that makes electricity transfer more efficient.

The College of Law continues to rate highly among law schools that post papers to the Social Science Research Network (SSRN). UT was recently ranked number one in a tie with Harvard in the number of new downloads per paper. SSRN statistics show that the College of Law has ranked either first or second in this measure since February 2007.

Gregory Stein, College of Law associate dean for faculty development, said nearly 14,000 people have downloaded papers prepared by UT law faculty in the last year. On average, UT articles published to the SSRN database are downloaded 86 times, an average that ties the Harvard Law School as the highest.

The UT Research Foundation reports one disclosure by UT Knoxville in August 2009: “A new method for aqueous-phase catalysis for atom-transfer radical polymerization” by Jim Bemiller in the Department of Chemistry. The project was funded by Sigma Space Corporation and NASA/LBA. The method is expected to have potential applications in the biomedical and consumer electronics industries.

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Research Council Meeting

The Research Council’s first meeting for 2009-10 will be Monday, September 28, 2009 from 3:30 p.m. to 5:00 p.m. at the University Center, 3rd Floor Executive Dining Room.

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).

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