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## AWARDS FOR FEBRUARY 19–MARCH 10, 2013

**INVESTIGATOR** | **TITLE** | **SPONSOR** | **AWARD**
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**COLLEGE OF ARTS & SCIENCES**
Armsworth, Paul; Mitt, Austin | A GIS Based Decision Support Tool for Avoiding Future Environmental Impacts | The Nature Conservancy | $37,279
Decorse, Elizabeth | Archival Research and Architectural Survey of the University Commons Site | Geosyntec Consultants | $20,009
Decorse, Elizabeth | Phase I Archaeological Survey of the University Commons Site, Knoxville | Geosyntec Consultants | $63,829
Fedo, Christopher | Resolving Basaltic Sediment Characteristics from 2D Images Using Known 3D Data | NASA - Headquarters | $34,660
Greene, Geoffrey | SNS Accumulator Ring | DOE - UT-Battelle - ORNL | $40,000
Gross, Louis; Galloway, Leslie | Mammalian Research | DOE - UT-Battelle - ORNL | $18,720
Hayes, Daniel | Diagnosis and Attribution of the Contemporary North American Terrestrial CO₂ | NASA - Headquarters | $102,788
Hollenbach, Kandace | Zooarchaeological Analysis of WR Oxford 1Ta190, Calhoun County, Alabama | University of Alabama | $69,553
Hollenbach, Kandace | Site Revisits on Norris Reservoir in Anderson, Campbell, and Union Counties | University of Alabama | $8,599
Hollenbach, Kandace | Archaeological Fieldwork 1Tu495, Tuscaloosa, Alabama | University of Alabama | $44,408
Hollenbach, Kandace | Zooarchaeological Analysis of 41HY161, Hays County, Texas | Texas State University | $857
Loeffler, Frank | Development and Validation of a Quantitative Framework and Management | DOD - Department of the Navy | $123,210
Mannik, Jaan | CAREER: Understanding Robustness of Cellular Organization in Escherichia Coli | National Science Foundation | $82,461
Matheny, Patrick | REV/SYS: Revision of Australian Inocybaceae: Studies in Systematics & Evolution of Ectomycorrhizal Agaricales from the Southern Hemisphere | National Science Foundation | $6,250
Mays, Jimmy | Fundamentals of Ionic Conductivity in Polymeric Materials for Energy Storage | DOE - UT-Battelle - ORNL | $12,000
McSween, Harry | Mars Surveyor | Cornell Center for Radiophysics and Space Research | $5,000
O’Meara, Brian | Collaborative Research: Phylogeographic Inference Using Approximated Likelihoods | National Science Foundation | $340,000
Steadman, Dawnie | Biometric Data Collection | DOE - UT-Battelle - ORNL | $1,166
Steadman, Dawnie | Bioarchaeological Analysis, WR Oxford Project, Calhoun County, Alabama | Spectrum Environmental Services, Inc. | $17,387
Sumrall, Colin | Collaborative Research: Assembling the Echinoderm Tree of Life | National Science Foundation | $20,744
Vogt, Frank | Bayesian Information Fusion for Robust Classification and Quantification | National Science Foundation | $118,890
Weitering, Hanno | Ultrathin Oxide Growth and Characterization | DOE - UT-Battelle - ORNL | $16,747
Wymore, Troy | High Performance for Multiscale Modeling of Biological Systems | University of Pittsburgh, School of Medicine | $46,217
Xue, Ziling | Multi-Analyte Sensor for Detecting Trace Halogenated Organic Contaminants | InnoSense, LLC | $45,000

**COLLEGE OF BUSINESS ADMINISTRATION**
Cathey, Amy | MBA Student Support for Y-12 National Security Complex (Fall 2012-Fall 2013) | BWXT Y-12, LLC | $148,013
Greene, David | The ICCT e-Drive Model: Phase 3 | The International Council on Clean Transportation | $63,665
Moore, John | Provide Services Supportive of the Wage and Hour Division of the Employment Standards Administration | US Dept. of Labor | $195,754

**COLLEGE OF ENGINEERING**
Alshibli, Khalid | 3D Assessment of Particle Morphology and its Influence on Friction, Dilatancy | National Science Foundation | $253,005
Arel, Itamar | Deep Machine Learning and Processing for Image Understanding | DOE - UT-Battelle - ORNL | $18,000
Cate, Matthew | Program Support for the Tennessee Department of Transportation’s Safe Routes | Tennessee Department of Transportation | $2,000,000
Clarke, David | UTC Support of NuRails Project for University of Illinois | University of Illinois at Urbana-Champaign | $115,000
Cox, Chris | Laboratory Energy Research and Development Working Group (LERDWG) | DOE - Argonne National Lab | $2,500
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<td>Cox, Chris</td>
<td>Laboratory Energy Research and Development Working Group (LERDWTG)</td>
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<td>Weber, William</td>
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<td>Wirith, Brian</td>
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<td>Zawodzinski, Thomas</td>
<td>Redox Flow Battery Testing</td>
<td>DOE - UT-Battelle - ORNL</td>
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COLLEGE OF NURSING

| Investigator | Tennessee Nursing Institute for Leadership and Policy | The Assisi Foundation of Memphis, Inc. | $25,000 |

COLLEGE OF SOCIAL WORK

| Investigator | Salvation Army Matching Funds | Salvation Army | $750 |

CAMPUS CENTERS & INSTITUTES

| Investigator | CAC AmeriCorps Water Quality Forum - Adopt-A-Watershed | Knox County | $48,500 |
| Investigator | Large Area, High Resolution Storage Phosphor Detectors for High Energy (MeV) Digital Radiography | B&W Y.12, LLC | $100,000 |
| Investigator | Novel System for Cryodeposit Mitigation and Remediation | Physical Sciences Inc. | $60,000 |

MULTICOLLEGE/CENTER

| Investigator | Miller Single Mode Fibers | DOE - UT-Battelle - ORNL | $2,722 |
| Investigator | Research Support for Naval Energy Needs | Office of Naval Research | $500,000 |

RECOGNITIONS

Three early-career researchers at UT have received National Science Foundation CAREER awards so far in 2013. David Jenkins, assistant professor of chemistry, will study how to catalyze a class of compounds called aziridines that have antitumor and antibiotic properties. Jaan Mannik, assistant professor of physics, will investigate the effect of shape on the basic biological functions of E. coli cells. Jeff Reibold, assistant professor in mechanical, aerospace, and biomedical engineering, will develop a program to understand human movement through a design, control, and simulation environment, especially focusing on musculoskeletal coordination arising in abnormal human movements that result from events like strokes.

The American Society of Civil Engineers has recognized a group from the UT Department of Civil and Environmental Engineering with the Raymond C., Reese Research Prize for 2013 for the paper, “Transverse Joint Details with Tight Bend Diameter,” Honored from the UT Department are Zhongguo John Ma, associate professor; Samuel Lewis, graduate student; Zhiqi He, doctoral candidate; and Edwin Burdette, professor. CI Cao, assistant professor in civil engineering at Dalian University of Technology in China, is a recent a former doctoral candidate in the department. Catherine French, professor of civil engineering at the University of Minnesota, was also recognized as an author of the paper.

The International Association of Rehabilitation Professionals has named Patrick Dunn its Outstanding Rehabilitation Educator for 2012. Dunn, associate professor of counselor education in the College of Education, Health, and Human Sciences, founded UT’s distance education program for rehabilitation counseling. Michael Handelsman, professor of modern foreign languages, has been inducted into Ecuador’s National Academy of Language.

Bredesen Center graduate student Kemper Talley is one of 24 students accepted nationally for the Computational Physics Student Summer Workshop at Los Alamos National Laboratory. Talley works with Wittek Nazarewicz, UT professor of physics, and Oak Ridge National Laboratory Researcher Mark Williams on a comprehensive modeling and simulation program for nuclear safety analysis and design.

Coach emeritus Pat Summit has been named the Naismith Outstanding Contributor to Women’s College Basketball for 2013.

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.

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We want to know what makes you proud! We are looking for your good news. Please share with us information about honors and awards, fellowships and offices, and other significant recognition that you have received recently. Please submit your items to Bill Dockery at dockeryb@utk.edu and we’ll spread the word.