9-8-2010

Office of Research, Awards & Recognition, September 08, 2010

University of Tennessee Office of Research

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<table>
<thead>
<tr>
<th>INVESTIGATOR</th>
<th>TITLE</th>
<th>SPONSOR</th>
<th>AWARD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Becker, Jeffrey</td>
<td>ARRA - Peptide Cell Interactions in Saccharomyces Cerevisae</td>
<td>National Institute of Health</td>
<td>$284,180</td>
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<tr>
<td>Camden, Jon</td>
<td>Plasmon Mapping in Metallic Nanostructures and its Application to Single Molecule Surface Enhanced Raman Scattering</td>
<td>US Dept. of Energy</td>
<td>$420,000</td>
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<tr>
<td>Chaffin, Tom</td>
<td>The Correspondence of the James K. Polk</td>
<td>National Historic Publications and Records Commission</td>
<td>$70,280</td>
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<tr>
<td>Dadmun, Mark</td>
<td>Developing Methods to Improve Quality and Efficiency of Latent Fingerprint Development by Superglue Fuming</td>
<td>US Dept. of Justice</td>
<td>$258,816</td>
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<tr>
<td>Dai, Pengcheng</td>
<td>PIRE: International Consortium for Probing Novel Superconduction with Neutrons, Muons, Photons, and STM</td>
<td>Columbia University</td>
<td>$90,721</td>
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<tr>
<td>Dolislager, Fredrick, Galloway, Leslie, Gross, Louis</td>
<td>Risk Integration Support for FY 2010 WR59</td>
<td>Bechtel Jacobs Development Company</td>
<td>$7,040</td>
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<tr>
<td>Douglas, Heather</td>
<td>Scholars Award: Explanatory Weight of Evidence Analysis</td>
<td>National Science Foundation</td>
<td>$110,798</td>
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<tr>
<td>Efremenko, Yuri</td>
<td>Search for the Neutrinoless Double Beta Decay</td>
<td>US Dept. of Energy</td>
<td>$80,000</td>
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<tr>
<td>Feller, Daniel</td>
<td>The Papers of Andrew Jackson</td>
<td>National Historic Publications and Records Commission</td>
<td>$182,290</td>
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<td>Ferrell, Thomas</td>
<td>Explosive Vapor Detection</td>
<td>UT-Battelle</td>
<td>$22,470</td>
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<tr>
<td>Guichon, Georges</td>
<td>Research on Linear and Nonlinear Supercritical Fluid Chromatography</td>
<td>Waters Technologies Corp</td>
<td>$72,000</td>
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<tr>
<td>Hallam, Thomas; McCracken, Gary</td>
<td>Effects of White Nose Syndrome on Hibernating Bat Populations</td>
<td>US DOI - US Fish and Wildlife Service</td>
<td>$115,000</td>
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<td>Hollenbach, Kandace</td>
<td>Paleothnobotanical Analysis of 1Bb227, Bibb County, Alabama</td>
<td>Panamerican Consultants, Inc.</td>
<td>$1,797</td>
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<td>Hollenbach, Kandace</td>
<td>Paleothnobotanical Analysis of Woodland Sites in the Great Pee Dee Drainage, SC</td>
<td>University of South Carolina</td>
<td>$2,379</td>
</tr>
<tr>
<td>Horn, Sally; Valente, Matthew</td>
<td>Doctoral Dissertation Research: Late Quaternary Palaeoenvironments and Biota of Cuatro Cienegas, Mexico</td>
<td>National Science Foundation</td>
<td>$11,013</td>
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<tr>
<td>Kamyshkov, Yuri; Efremenko, Yuri; Handler, Thomas; Spanier, Stefan</td>
<td>Elementary Particle Interactions</td>
<td>US Dept. of Energy</td>
<td>$146,500</td>
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<td>Mallinckrodt, Brent</td>
<td>Practicum Experience in Counseling Psychology for Students</td>
<td>Cornerstone of Recovery</td>
<td>$10,000</td>
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<td>Mays, Jimmy</td>
<td>Synthesis and Characterization of Novel Monomers</td>
<td>UT-Battelle</td>
<td>$17,500</td>
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<td>Nazarewicz, Witold</td>
<td>FUSTIPEN</td>
<td>US Dept. of Energy</td>
<td>$35,000</td>
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<tr>
<td>Pfliffer, Susan</td>
<td>Metaproteomics Identifiers the Protein Machinery Involved in Metal and Radionucleide Reduction in Subsurface Microbiomes and Elucidates Mechanisms and U(VI) Reduction Biomarkers</td>
<td>US Dept. of Energy</td>
<td>$307,720</td>
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<td>Smith, Jeremy; Guo, Hong</td>
<td>Molecular Mechanisms of Bacterial Mercury Transformation</td>
<td>US Dept. of Energy</td>
<td>$374,443</td>
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<tr>
<td>Taylor, Lawrence</td>
<td>The Moon as Cornerstone to the Terrestrial Planets: The Formative Years</td>
<td>Brown University</td>
<td>$6,000</td>
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<td>Van de Moortel, Aleydis</td>
<td>Mitrou Archaeological Project</td>
<td>National Endowment for the Humanities</td>
<td>$100,000</td>
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<td>vonArnim, Albrecht</td>
<td>Radiation Research Society Editor</td>
<td>Radiation Research Society</td>
<td>$372,977</td>
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<tr>
<td>Weitering, Hanno; Cui, Shengling</td>
<td>Nanofluidic Technologies for Rapidly Sequencing Single DNA Molecules</td>
<td>University of North Carolina, Chapel Hill</td>
<td>$131,426</td>
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<tr>
<td>Weitering, Hanno</td>
<td>Joint Faculty</td>
<td>UT-Battelle</td>
<td>$15,337</td>
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<tr>
<td>Xue, Ziling</td>
<td>Reactions of Transition Metal Complexes with Oxygen and Water. Investigating the Nature of the Reactions and Pathways to Microelectronic Materials</td>
<td>National Science Foundation</td>
<td>$140,000</td>
</tr>
</tbody>
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**COLLEGE OF BUSINESS ADMINISTRATION**

<table>
<thead>
<tr>
<th>INVESTIGATOR</th>
<th>TITLE</th>
<th>SPONSOR</th>
<th>AWARD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fox, William</td>
<td>Tenncare Choices Survey</td>
<td>State of Tennessee</td>
<td>$92,117</td>
</tr>
</tbody>
</table>

**COLLEGE OF COMMUNICATION & INFORMATION**

<table>
<thead>
<tr>
<th>INVESTIGATOR</th>
<th>TITLE</th>
<th>SPONSOR</th>
<th>AWARD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allard, Suzanne; Normore, Lorraine; Tenopir, Carol; Wilson, Bruce</td>
<td>DataNetONE (Observation Network for Earth)</td>
<td>University of New Mexico</td>
<td>$644,886</td>
</tr>
</tbody>
</table>

**COLLEGE OF ENGINEERING**

<table>
<thead>
<tr>
<th>INVESTIGATOR</th>
<th>TITLE</th>
<th>SPONSOR</th>
<th>AWARD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baker, AJ</td>
<td>Scalable Thermal Analysis for Real-Time Signatures (STAR)</td>
<td>Trideum Corporation</td>
<td>$50,000</td>
</tr>
<tr>
<td>Dmowski, Wojciech</td>
<td>Structural Stability of the Electrode in Li-ion Batteries</td>
<td>Office of Naval Research</td>
<td>$50,001</td>
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<tr>
<td>Dongarra, Jack</td>
<td>SCIDAC</td>
<td>US Dept. of Energy</td>
<td>$150,000</td>
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<td>Dongarra, Jack</td>
<td>Coordinated Fault Tolerance for High Performance Computing</td>
<td>US Dept. of Energy</td>
<td>$200,000</td>
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<tr>
<td>Dongarra, Jack</td>
<td>Matrix Algebra for GPU and Multicore Architectures (MAGMA) for Large Petascale Systems</td>
<td>US Dept. of Energy</td>
<td>$150,000</td>
</tr>
</tbody>
</table>
INVESTIGATOR

TITLE

SPONSOR

AWARD

Fathy, Aly

Egypt Conference


$5,000

Frymier, Paul; Irick, Butch; Tolbert, Leon; Cherry, Chris; Counce, Robert

H2vBE: A Case Study of the Reliability, Cost, and Environmental Sustainability of Hydrogen Fuel

US Environmental Protection Agency

$10,000

Gregor, Jens

Preclinical Diagnostic Imaging of Amyloid

US Dept. of Health & Human Services

$55,871

Gregor, Jens

Preclinical Diagnostic Imaging of Amyloid

US Dept. of Health & Human Services

$53,826

Grossbeck, Martin

Study of Compatibility of Stainless Steel Weld Joints with Liquid Sodium-Potassium Coolants for Fission Surface Power Reactors for Lunar and Space Applications

US Dept. of Energy

$534,889

Hall, Howard

PWR Radionuclide Transport

UT-Battelle

$88,908

Hellbronn, Lawrence

General Scientific Infrastructure Support

US Dept. of Energy

$210,173

Keffer, David; Joy, David

Supplement to A Computational and Experimental Investigation into the Transport of Protons Near the Electrolyte/Water, Electrolyte/Catalyst, and Electrolyte/Nanoparticle Interfaces

US Dept. of Energy

$35,000

Liaw, Peter; Clarke, David

Fracture Toughness and Fatigue Properties of Pipeline Base Steels and Welds in High-Pressure Hydrogen and Technologies for Improving Weld HE and IGSCC

US Dept. of Transportation

$44,000

Liu, Yili

Transformer Model Study

ABB

$15,050

Maldonado, Ivan

Joint Faculty Agreement

UT-Battelle

$47,176

McHargue, Carl; Meisner, Roberta

Materials Characterization

UT-Battelle

$28,360

Penumadu, Dayakar

The Effects of Sea Water on Composite Faceings Sandwich Layups, and of Polymeric Composites for Naval Application

Office of Naval Research

$10,000

Rack, Philip

NSF SBIR: Development of Electrically Shielded Carbon Nanotube Scanning Electron Probes

Xidex Corporation

$30,868

Wirth, Brian

Modeling Investigation of the Stability and Irradiation-Induced Evolution of Nanoscale Precipitates in Advanced Structural Materials

Battelle Energy Alliance, LLC

$380,653

Zawodzinski, Thomas

Governor’s Chair and Joint Faculty in Energy Storage

UT-Battelle

$25,600

Zhang, Zhili

BRIGE: Combustion Intermediate Species Measurement Using Microwave and Laser Diagnostics

National Science Foundation

$175,000

Galambos, Colleen

Leadership Education Excellence in Caring for Children with Neurodevelopmental & Related Disabilities

Vanderbilt University

$8,251

Patterson, David

HMS Knox County - HUD CDBG Matching Funds 2010-2011

Knox County - Community Development Division

$10,000

Andrews, Phil; Kovatch, Patricia; Zacharia, Thomas

Augment the Kraken! Increasing the Scientific Capability and Capacity of the NSF’s Most Powerful Supercomputer

National Science Foundation

$2,850,000

Cole, Greg

IRNC: ProNet: GLORIAD

National Science Foundation

$867,880

Loeffler, Frank; Ritalhti, Kristi

MIRMoT: Design and Application of Microbial Uranium Reduction Monitoring Tool

US Dept. of Energy

$230,576

Nichols, Jeffery

Fabrication and Testing of Novel Sources of Entangled Photons

UT-Battelle

$7,168

Nichols, Jeffery

F-Wavelength-Division Multiplexed Quantum Communication Network

UT-Battelle

$8,710

Nichols, Jeffery

Petascale and Exascale Class of Platforms

UT-Battelle

$113,587

Phillips, Linda

UT/ORNL Library Project

UT-Battelle

$425,000

Wu, Meng-Shiou

Common Component Architecture (CCA) Research for Quantum Chemistry Packages

Ames Laboratory

$60,064

Zacharia, Thomas

Catalysis and Electron Transport in Nanoscale Systems

UT-Battelle

$107,250

RECOGNITIONS

Mary Albrecht, associate dean for academic programs and professor in the College of Agricultural Sciences and Natural Resources, has been appointed by Chancellor Jimmy G. Cheek to oversee the UT Knoxville Top 25 project and serve as associate vice chancellor. Albrecht is charged with monitoring progress and keeping the campus community, alumni and other constituents well-informed on how the project is doing.

Beauvais Lyons, professor of art, has been invited to present prints and taxidermy from his project “The Association for Creative Zoology” at the Museum of the Philosophical Society of America in Philadelphia as part of the Philadelphia Fringe Live Arts Festival September 10-18, 2010. The project is supported through a UTK-EPPE grant and the Pennsylvania Humanities Council.

Lee Riedinger, professor of physics, has been named director of the UTK/ORNL Center for Interdisciplinary Research and Graduate Education (CIRE). The center is a product of state legislation authorizing the university to establish an academic unit of UT Knoxville for interdisciplinary research and graduate education in collaboration with ORNL.