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Awards and Recognitions

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1-11-2012

## Office of Research, Awards & Recognition, January 11, 2012

University of Tennessee Office of Research

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## AWARDS AND RECOGNITIONS

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JANUARY 11, 2012

### AWARDS FOR DECEMBER 8-31, 2011

| INVESTIGATOR   | TITLE   | SPONSOR   | AWARD     |
|--|---|---|-----------|
| <b>COLLEGE OF ARCHITECTURE &amp; DESIGN</b>                          |   |   |           |
| McRae, John  | Spring 2012 Sponsored Studio: Design and Planning of Student and Faculty Housing                | HaitiServe  | \$20,000  |
| <b>COLLEGE OF ARTS &amp; SCIENCES</b>                                |   |   |           |
| Becher, Paul; Hsueh, Chun-Hway                                       | Atomistically Informed Materials Design of Ultrahigh Temperature Ceramics                       | University of Houston                                     | \$68,392  |
| Cyr, Howard  | Physical and Chemical Analysis of Cultural Planting Features at Thomas Jefferson                | The Corporation for Jefferson's Poplar Forest             | \$1,328   |
| Dimaria, Salvatore   | Italian Lecturer Program  | Italian Government  | \$13,301  |
| Dolislager, Fredrick; Galloway, Leslie; Gross, Louis; Stewart, Debra | Risk Integration Support for FY 2012 WR63, Rev 000  | DOE - URS CH2M Oak Ridge LLC (UCOR)                       | \$2,596   |
| Efremenko, Yuri  | Conceptual Design for the Majorana Demonstrator   | UT-Battelle - ORNL  | \$10,299  |
| Feigerle, Charles  | High Performance CO <sub>2</sub> Scrubbing Based on Hollow Fiber-Supported Designer Ionic       | UT-Battelle - ORNL  | \$77,239  |
| Hayes, Daniel  | Diagnosis and Attribution of the Contemporary North American Terrestrial CO <sub>2</sub>        | NASA - Headquarters Washington DC                         | \$105,171 |
| Moersch, Jeffrey   | Search for Aqueous Minerals with Mars Exploration Rover Mini-TES Experiment                     | NASA - Jet Propulsion Laboratory                          | \$25,000  |
| Petersen, Ronald; Hughes, Karen; O'Meara, Brian                      | Historical Naming Traditions and Cryptic Speciation Bias Biodiversity Estimates                 | NSF - National Science Foundation                         | \$141,143 |
| Prosser, Rebecca   | Novel Pharmacology Studies on the Suprachiasmatic Nucleus                                       | Orphagen Pharmaceuticals                                  | \$16,800  |
| Roberts, Daniel; Peterson, Cynthia                                   | VSEE-Dan Roberts  | NSF - National Science Foundation                         | \$24,407  |
| Shefner, Jon   | Host the Society for the Study of Social Problems (SSSP-Administrative Office)                  | Society for the Study of Social Problems                  | \$128,459 |
| Vonarnim, Albrecht   | Radiation Research Society Journal Editor   | Radiation Research Society                                | \$21,300  |
| Weitering, Hanno   | Investigations of Hydrogen Storage in Metallic Thin Films                                       | UT-Battelle - ORNL  | \$22,730  |
| Weitering, Hanno   | Exploration of Quantum Size Effects in Ultrathin Magnesium Films for Hydrogen                   | UT-Battelle - ORNL  | \$9,785   |
| Weitering, Hanno   | Exploration of Quantum Size Effects in Ultrathin Ruthenium Films for Surface                    | UT-Battelle - ORNL  | \$9,785   |
| <b>COLLEGE OF BUSINESS ADMINISTRATION</b>                            |   |   |           |
| Moore, John  | Construction Industry Information and Construction Inspections - OSHA                           | US Dept. of Labor   | \$254,460 |
| <b>COLLEGE OF COMMUNICATION &amp; INFORMATION</b>                    |   |   |           |
| Allard, Suzanne; Normore, Lorraine; Tenopir, Carol; Wilson, Bruce    | DataNetONE (Observation Network for Earth)  | University of New Mexico                                  | \$603,598 |
| Suttles, Barbara   | Genome Management Information System  | UT-Battelle - ORNL  | \$46,000  |
| Suttles, Barbara   | Genome Management Information System  | UT-Battelle - ORNL  | \$58,000  |
| Suttles, Barbara   | Technical Support to the Computational Data Analytics   | UT-Battelle - ORNL  | \$65,000  |
| <b>COLLEGE OF EDUCATION, HEALTH &amp; HUMAN SCIENCES</b>             |   |   |           |
| Erwin, Paul; Hamilton, Charles                                       | Public Health Training Center   | DHHS - Health Resources and Services Administration       | \$25,000  |
| Kolvitz, Marcia  | Postsecondary Education Center for Individuals who are Deaf                                     | California State University Northridge                    | \$153,775 |
| Moore Partin, Tara   | Connections for Education Outreach  | TN Department of Education - Training & Professional Dev. | \$105,132 |
| Raynor, Hollie   | Increasing Sleep Duration: A Novel Approach to Weight Control                                   | Miriam Hospital   | \$8,101   |
| White, Connie  | Tennessee Even Start Database Support, Training, and Technical Assistance                       | TN Department of Education                                | \$200,000 |
| Wolbers, Kimberly; Stephenson, Brenda                                | Write On! Strategic and Interactive Writing Instruction (SIWI) Professional Development at WTSD | TN Department of Education                                | \$6,618   |
| <b>COLLEGE OF ENGINEERING</b>  |   |   |           |
| Bosilca, George  | An Adaptive End-to-End Approach for Terabit Data Movement Optimization                          | DOE - Office of Science                                   | \$150,000 |
| Dhingra, Rajive; Sawhney, Rapinder                                   | Life Cycle Data for Next Generation Materials in the Industrial Sector                          | UT-Battelle - ORNL  | \$3,591   |
| Drake, John; Fu, Joshua  | Chemistry in CESM-SE: Evaluation, Performance and Optimization                                  | University Corporation For Atmospheric Research           | \$50,243  |
| Gregor, Jens   | ARRA: Algorithm Development for Neutron/X-ray Imaging System                                    | UT-Battelle - ORNL  | \$60,307  |

## AWARDS FOR DECEMBER 8–31, 2011 (CONT.)

| INVESTIGATOR   | TITLE  | SPONSOR  | AWARD     |
|--|--|--|-----------|
| Holleman, Jeremiah; Arel, Itamar   | Scalable Low-Power Machine Learning Using Analog Computation                                   | Intelligence Advanced Research Projects Activity               | \$311,319 |
| Huang, Baoshan; Shu, Xiang   | Laboratory Evaluation of Bored Pile Durability under Sulfate and Chloride Attack               | Hebei Institute of Construction and Geotechnical Investigation | \$100,001 |
| Joy, David; Rack, Philip   | Focused Helium Ion Beam Induced Synthesis for Repair, Metrology Sample Preparation             | Semiconductor Research Corporation                             | \$74,743  |
| McHargue, Carl; Dou, Peng  | Advanced Nuclear Materials and Fuels   | UT-Battelle - ORNL   | \$14,907  |
| Mench, Matthew   | Transport Studies Enabling Efficiency Optimization of Cost-Competitive Fuel Cell               | Pennsylvania State University                                  | \$110,266 |
| Mench, Matthew   | Whole-Cell Modeling and Integrated Experimentation of Bioelectrochemical Systems               | Pennsylvania State University                                  | \$47,621  |
| Penumadu, Dayakar  | Effect of Sea Environment on Sandwich Layups   | DOD - Department of the Navy                                   | \$125,000 |
| Penumadu, Dayakar  | Effect of Sea Environment on Sandwich Layups   | DOD - Department of the Navy                                   | \$40,000  |
| Rack, Philip; Melcher, Charles   | Task Objectives for High-Resolution and High-Energy Scintillator Research                      | BWXT Y-12, LLC   | \$101,143 |
| Ruggles, Arthur  | HFIR LEU Flow Blockage Consequence Assessment Updates  | UT-Battelle - ORNL   | \$57,641  |
| Sawhney, Rapinder; Clarke, David   | AGC's Supply Chain Configuration Design, Phase I   | AGC Glass Company North America                                | \$35,000  |
| Townsend, Lawrence   | Lunar Reconnaissance Orbiter Measurement Investigation Science Mission Phase                   | University of New Hampshire                                    | \$74,975  |
| Upadhyaya, Belle   | Data Processing and Statistical Analysis of the Blend-Down Monitoring System (BDMS)            | UT-Battelle - ORNL   | \$10,000  |
| Wang, Xiaorui  | Enforcing Timing and Power/Thermal Constraints for Mission-Critical Real-Time Embedded Systems | DOD - Department of the Navy                                   | \$15,000  |
| Weber, William; Wirth, Brian; Zhang, Yanwen                              | Multipurpose Target Chamber for High-Temperature Ion Irradiation                               | DOE - US Dept. of Energy                                       | \$249,994 |
| Wilck, Joseph; Li, Xueping; Sawhney, Rapinder                            | Advanced Modeling of OHS for System Optimization   | BWXT Y-12, LLC   | \$150,000 |
| Wirth, Brian   | Plasma Science Center: Bridging the PSI Knowledge Gap through Multiscale Material              | University of California-Berkeley                              | \$300,000 |
| Wirth, Brian; Xu, Donghua  | Investigating the Behavior of Radiation Tolerant Nanoscale Interfaces                          | Pacific Northwest Laboratory (AS400)                           | \$77,000  |
| <b>COLLEGE OF SOCIAL WORK</b>  |  |  |           |
| Campbell, Paul; Cunningham, Maryanne                                     | City of Oak Ridge Telephone Survey   | City of Oak Ridge  | \$8,050   |
| Patterson, David   | 2011 City of Knoxville Community Development Block Grant                                       | City of Knoxville Community Development Division               | \$10,000  |
| <b>CAMPUS CENTERS &amp; INSTITUTES</b>                                   |  |  |           |
| Saylor, Gary; Cox, Chris; Joulina, Igor; Smith, Jeremy; Stewart, Charles | Cellulosic Biomass Deconstruction, Characterization and Modeling                               | UT-Battelle - ORNL   | \$300,000 |
| <b>OTHER</b>   |  |  |           |
| Paciello, Jillian; Simerly, Emily  | Safe-T Begins with Me: Educating the University of Tennessee Community                         | TN Dept. of Transportation-Governor's Highway Safety           | \$2,811   |
| Woods, Clifton   | Agreement for Technical Support  | Exxon Chemical Co.   | \$56,000  |

## RECOGNITIONS

**Jerome Baudry**, assistant professor in biochemistry, cellular, and molecular biology, and post-doc **Yinglong Miao**, have received publicity for computer simulations they did on the way water molecules move in a class of enzymes called P450.

**Ben Xue**, professor of chemistry, recently edited the December issue of *Science China Chemistry* on the International Year of Chemistry. Xue was appointed associate editor for the periodical last year. **David Jenkins**, assistant professor of chemistry, contributed questions to an interview of Nobel laureate Robert Grubbs that was included in the issue.

**Irene Abia**, who received her PhD in chemistry in December 2011 has been named to the Younger Chemists Committee of the American Chemical Society. Abia, a native of Cameroon, was mentored by **David Baker**, professor in UT's chemistry department. She has taken a teaching assistant professorship of chemistry at the University of Mississippi.

**Alan Cramer**, third-year graduate student in the research group of **David Jenkins**, assistant professor of chemistry, has published a paper on synthesis of aziridines in the *Journal of the American Chemical Society*. Jenkins is coauthor on the paper.

Psychology graduate student **Kevin Zabel** has received a dissertation research scholarship of \$1,000 from the American Psychological Foundation/Council of Graduate Departments of Psychology. Zabel works with **Michael Olson**, associate professor of psychology.