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Awards and Recognitions

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2-3-2010

## Office of Research, Awards & Recognition, February 03, 2010

University of Tennessee Office of Research

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## AWARDS AND RECOGNITIONS

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FEBRUARY 3, 2010

### AWARDS FOR JANUARY 15–28, 2010

| INVESTIGATOR   | TITLE   | SPONSOR   | AWARD     |
|--|---|---|-----------|
| <b>COLLEGE OF ARTS &amp; SCIENCES</b>                          |   |   |           |
| Bingham, Carrol R.   | Release Characteristics of Thorium  | Oak Ridge Associated Universities                     | \$36,104  |
| Dagotto, Elbio Ruben   | Distinguished Scientist   | UT-Battelle - ORNL                                    | \$60,250  |
| Dai, Pengcheng; Plummer, Earl Ward; Thompson, James R.         | Growth and Characterization of Magnetic Nanostructures  | UT-Battelle - ORNL                                    | \$27,645  |
| Dolislager, Fredrick; Galloway, Leslie; Gross, Louis           | Risk-Integration Support for FY10 Work Release WR#0059 Rev 000  | Bechtel Jacobs Development Company                    | \$21,120  |
| Joy, David C.  | Distinguished Scientist   | UT-Battelle - ORNL                                    | \$101,805 |
| Nazarewicz, Witold; Papenbrock, Thomas Franz                   | UNEDF Universal Nuclear Energy Density Functional - (Formerly Subcontracted through University of WA)                                   | Department of Energy, Office of Science               | \$260,000 |
| Peterson, Cynthia B.   | Analysis Software and Algorithm Development   | UT-Battelle - ORNL                                    | \$35,260  |
| Peterson, Cynthia B.   | Graduate Research Assistant - Brian Erickson  | UT-Battelle - ORNL                                    | \$33,677  |
| Peterson, Cynthia B.   | Grad Research Assistant-Alison Russell  | UT-Battelle - ORNL                                    | \$30,289  |
| Taylor, Lawrence A.  | Moon Mineralogy Mapper - Science Advisory Team  | Brown University - Office of Sponsored Projects       | \$54,618  |
| Taylor, Lawrence A.  | The Moon as Cornerstone to the Terrestrial Planets: The Formative Years   | Brown University - Office of Sponsored Projects       | \$12,600  |
| Venkatachalam, Sundaresan                                      | Role of FOXN3 in Development and Tumor Suppression  | Physician's Medical Education and Research Foundation | \$10,000  |
| Weitering, Hanno H.  | Ultrathin Oxide Growth and Characterization   | UT-Battelle - ORNL                                    | \$76,010  |
| Zhu, Wenguang; Feigerle, Charles; Weitering, Hanno; Yoon, Mina | Theory and simulations of nanoscale materials   | UT-Battelle - ORNL                                    | \$98,769  |
| <b>COLLEGE OF BUSINESS ADMINISTRATION</b>                      |   |   |           |
| Schrivver, William R.; Li, Xueping                             | Construction Industry Information and Construction Inspections - OSHA   | US Dept. of Labor - Financial Services Center/OASAM   | \$239,851 |
| Shelton, Robert B.; Dahlin-Brown, Nissa D.; Lowe, Alan Connor  | National Summit on Science, Technology, and Sustainable Economic Growth   | National Science Foundation                           | \$100,000 |
| <b>COLLEGE OF ENGINEERING</b>                                  |   |   |           |
| Becher, Paul Fredric   | Atomistically Informed Materials Design of Ultrahigh Temperature Ceramics for Improved  | University of Houston                                 | \$89,924  |
| Clarke, David; Urbanik, Thomas                                 | Cross-Walk Tables Assistance  | UT-Battelle - ORNL                                    | \$21,287  |
| Cooper, Ann Carolyn  | Support for GTRI Transportation Security Project  | UT-Battelle - ORNL                                    | \$50,000  |
| Dongarra, Jack   | SciDAC Institute for Scalable Application Development Software  | US Dept. of Energy - Energy and Technology            | \$135,000 |
| Halstead, Peter D.   | External Random Production for Easton Bell Sports, Inc.   | Riddell Sports Inc.                                   | \$12,000  |
| Hines, J Wesley  | On-Line Monitoring and Diagnostics for Drilling Operations  | Baker Hughes Inteq                                    | \$35,485  |
| Huang, Jian  | SciDAC Institute of Ultrascale Visualization  | US Dept. of Energy - Energy and Technology            | \$100,000 |
| Islam, Syed K.   | Miniaturized Wireless Implanatable Biosensors for Metabolic Monitoring  | University of Connecticut                             | \$19,513  |
| Komistek, Richard David; Mahfouz, Mohamed R.                   | In Vivo Analysis of Rigid Body Sound Mechanics  | Joint Vue   | \$500,000 |
| Liao, Haitao   | CAREER: Adaptive Operational Coordination Methodology for Uncertainty Reduction in Product Life Cycle Reliability and Service Logistics | National Science Foundation                           | \$400,000 |
| Liu, Yilu  | OTEC Power System Stability Study   | Lockheed Martin                                       | \$50,001  |
| McHargue, Carl J.; Kulkarni, Nagraj Sheshgiri                  | High Throughput Isotopic Diffusion Databases for Integrated Computational Materials Engineering   | UT-Battelle - ORNL                                    | \$22,045  |
| Morris, James R.   | Structural Studies of Nanoporous Carbon for Hydrogen Adsorption   | UT-Battelle - ORNL                                    | \$104,717 |
| Penumadu, Dayakar  | Neutron Imaging and Scattering Techniques for Aluminum Alloys   | General Motors  | \$30,000  |
| Tolbert, Leon M.   | Basic Circuit Cells to Reduce Stray Inductance in Power Electronics Packages  | UT-Battelle - ORNL                                    | \$39,000  |
| Townsend, Lawrence W.  | Additional Improvements to the Hzetrn Code and the Nucfrg2 Database   | NASA - Langley Research Center                        | \$50,000  |
| Upadhyaya, Belle R.  | Data Processing and Statistical Analysis of the Blend-Down Monitoring System (BDMS)   | UT-Battelle - ORNL                                    | \$60,861  |

## AWARDS FOR JANUARY 15–28, 2010 (CONT.)

| INVESTIGATOR  | TITLE  | SPONSOR  | AWARD       |
|---|--|--|-------------|
| Wang, Xiaorui   | Enforcing Timing and Power/Thermal Constraints for Mission-Critical Real-Time Embedded Systems | Office of Naval Research - Atlanta Regional Office   | \$89,924    |
| Zhang, Mingjun  | MEMS Device for Studying Tumor Metastasis  | UT-Battelle - ORNL                                   | \$14,337    |
| <b>COLLEGE OF SOCIAL WORK</b>   |  |  |             |
| Campbell, Paul M.; Black, Brenda J.; Cunningham, Maryanne Lynch                                     | MTSU Tennessee Center for Child Welfare FY 2010  | Middle Tennessee State University                    | \$1,517,186 |
| Patterson, David A.   | HMIS Matching Funds  | United Way   | \$10,000    |
| <b>CAMPUS CENTERS &amp; JOINT INSTITUTES</b>  |  |  |             |
| Briscoe, Connie Sylve; Burroughs, Marci Sondra; Mallinckrodt, Brent Stephen; Reilly, Daniel William | VolAware Suicide Prevention Initiative - A Collaborative Approach to Addressing Mental Health  | Substance Abuse & Mental Health Services Adm (SAMSA) | \$99,999    |
| Bell, Larry L.  | Microorganisms for Production of Ethanol and Other Chemicals from Biomass                      | UT-Battelle - ORNL                                   | \$11,126    |
| Cole, Gregory Scott   | Global Ring Network for Advanced Applications Development (GLORIAD)                            | National Science Foundation                          | \$218,000   |
| Macek, Joseph H.  | Theory of Fragmentation and Rearrangement Process in Ion-Atom Collisions                       | US Dept. of Energy - Golden Field Office             | \$125,000   |
| Woods, Clifton  | Agreement for Technical Support  | Exxon Chemical Co. - Polymers Licensing Mgr.         | \$69,500    |
| Zacharia, Thomas; Nichols, Jeffrey Alan   | Develop Memory Indexes for the MS-Based Proteomics Algorithms                                  | UT-Battelle - ORNL                                   | \$28,397    |

### AAAS RECOGNIZES 11 FELLOWS AT UTK

Eleven faculty members from UT Knoxville have been named fellows of the American Association for the Advancement of Science.

That number of new fellows puts UTK in a tie with Cornell for second place in the annual fellowship honors. Only Ohio State had more fellows, with 17 named at this year's AAAS convention.

In 2009, AAAS named 10 faculty members from UTK, putting the university fourth behind Ohio State, the University of California system, and the University of Illinois.

UT Knoxville's 2010 AAAS Fellows include:

**Robert Norman Compton**, professor of chemistry, for distinguished contributions to the understanding of negative ions and nonlinear laser spectroscopy.

**Elbio R. Dagotto**, distinguished professor of physics, for distinguished contributions to the field of theoretical and computational condensed-matter physics.

**Narendra B. Dahotre**, professor of materials science and engineering, for outstanding contributions to research and development and teaching of science and technology of laser materials-processing and surface engineering.

**Carol P. Harden**, professor of geography, for distinguished contributions to geographic understanding of land-use change and watershed processes, and as vice president and president of the Association of American Geographers.

**Suzanne Lenhart**, professor of mathematics, for distinguished contributions to the field of optimal control and modeling of biological and physical applications and to education, service and outreach activities.

**Brent S. Mallinckrodt**, professor of psychology, for distinguished contribution to the field of psychotherapy research and health psychology and as editor of the *Journal of Counseling Psychology*.

**Gary Frederick McCracken**, professor of ecology and evolutionary biology and director of the Center for Environmental Biotechnology, for distinguished contributions to the fields of population biology, ecology and conservation biology with regard to the knowledge of bats.

**Witold Nazarewicz**, professor of physics, for distinguished contributions to the field of theoretical nuclear structure.

**Cynthia B. Peterson**, professor and department head, biochemistry and cellular and molecular biology, for promoting biophysical approaches to study the physiology of coagulation and fibrinolysis and for advancing interdisciplinary education at the interface of computational and biological sciences.

**Michael J. Sepaniak**, professor of chemistry, for the advancement of the fundamental understanding and the practical implementation of diverse methods of microchemical analysis.

**Lawrence A. Taylor**, professor of earth and planetary sciences, for distinguished contributions to the field of planetary geochemistry.

### OTHER RECOGNITIONS

**Michael Handelsman**, distinguished professor in the humanities and professor of modern foreign languages and literatures (Spanish), is the co-editor of the book, *Globalization and its Apparitions (La Globalización y sus Espejismos)*, recently published by Ecuadorian publisher El Conejo. The work is a collective effort by 13 humanists from five different countries, reflecting upon the contradictory and conflicted nature of globalization.

**Haitao Liao**, joint professor in industrial and information engineering and nuclear engineering, has received a National Science Foundation CAREER Award.

**Norman Magden**, professor of art, recently received a first place award in the Experimental Film category for his film, "CAFÉ," at the Los Angeles Reel Film Festival. The film also was selected for screening at festivals in Hollywood, New Orleans, Denver, and Quito, Ecuador.

**Lynne Parker**, professor of electrical engineering and computer science, has been named to the IEEE Fellow class of 2010 for her contributions to distributed and heterogeneous multi-robot systems.

**Dolly Young**, professor of modern foreign languages and literatures (Spanish), has just published *¡Vívelo!* with John Wiley and Sons, Inc. This first-year comprehensive textbook and program includes an electronic activities manual, self-tests and assignment questions, animated grammar tutorials, voice-recording questions and voice boards powered by Wimba. The entire textbook is also digitized with audio and video.

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