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Awards and Recognitions

Office of Research

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University of Tenessee Office of Research

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AWARDS AND RECOGNITIONS

| http://research.utk.edu | | AUG | GUST 1, 2012 | |
|--|---|---|----------------------|--|
| | AWARDS FOR JULY 8-18, 2012 | | | |
| INVESTIGATOR | TITLE | SPONSOR | AWARD | |
| COLLEGE OF ARTS & SC | EIENCES | | | |
| Allison, David | Destroying Pathogenic Bacteria Using Targeted-Nanoparticles | DOE - UT-Battelle - ORNL | \$25,270 | |
| Barnes, Craig | ARRA: Chemical Catalysis for the Conversion of Renewable Feedstocks into Chemical and Fuels | UT Institute of Agriculture | \$50,521 | |
| Buchan, Alison | ARRA: Chemical Catalysis for the Conversion of Renewable Feedstocks into Chemical and Fuels | UT Institute of Agriculture | \$29,525 | |
| Classen, Aimee | RCN: Integrated Network for Terrestrial Ecosystem Research on Feedbacks to the Atmosphere and Climate (INTERFACE) | Purdue University-Sponsored Programs and Research | \$6,557 | |
| Dadmun, M.; Hu, B.; Khomami, B.; Mays, J. | Rational Design and Synthesis of Targeted Nanostructures in Organic Photovoltaics | National Science Foundation | \$1,999 | |
| Feng, Xiaobing | New Direction Professorship | University of Minnesota | \$25,000 | |
| Gross, Louis | National Institute for Mathematical and Biological Synthesis (NIMBioS) | National Science Foundation | \$2,979,172 | |
| Hollenbach, Kandace | Archaeological Subsistence Analysis, WR Oxford Project, Calhoun County, Alabama | Spectrum Environmental Services, Inc. | \$11,284 | |
| Levy, Jacob | Practicum Experience in Counseling Psychology | Cherokee Health Systems | \$10,000 | |
| McSween, Harry | Mars Surveyor | Cornell University - Center for Radiophysics and Space Research | \$5,000 | |
| Moore, Todd | Practicum Experience Clinical Psychology | East TN Children's Hospital | \$10,000 | |
| Peterson, Cynthia; Dongarra, Jack; Langston, Michael | IGERT for Scalable Computing and Leading Edge Innovative Technologies (SCALE-IT) for Biology | National Science Foundation | \$599,880 | |
| Shorey, Ryan; Stuart, Gregory | The Temporal Association Between Alcohol, Negative Affect, and Dating Violence | DHHS - NIH - National Institute on Alcohol Abuse and Alcoholism | \$33,205 | |
| Sokolov, Alexei | Dynamics of Proteins and Hydration Water: Neutron Scattering Studies | DOE - UT-Battelle - ORNL | \$20,548 | |
| Weitering, Hanno | Ultrathin Oxide Growth and Characterization | DOE - UT-Battelle - ORNL | \$50,488 | |
| Zinser, Erik; Wilhelm, Steven | Collaborative Research: Seasonal and Decadal Changes in Temperature Drive | National Science Foundation | \$252,686 | |
| COLLEGE OF BUSINESS | ADMINISTRATION | | | |
| Fox, William | Market Rate | TN Dept. of Human Services | \$26,400 | |
| Stewart, Joseph | Air Force Acquisition Improvement Support (FA7014-10-R-0008) | DOD - Dept. of the Air Force | \$860,000 | |
| | CATION AND INFORMATION | | 4000 700 | |
| Cortez, Edwin; Allard, Suzanne | LaSCALA: The Latino Scholars Cambio Leadership Academy | Institute of Museum and Library Services | \$339,593 | |
| Mehra, Bharat; Black-Parker, Kimberly; Singh, Vandana | Rural Library Professionals as Change Agents in the 21st Century | Institute of Museum and Library Services | \$478,258 | |
| Tenopir, C.; Allard, S.; Levine, K.; Nicholas, D. | Trust and Authority in Scholarly Communications in the Light of the Digital | Sloan Foundation | \$273,130 | |
| COLLEGE OF EDUCATION, HEALTH & HUMAN SCIENCES | | | | |
| Cihak, David | Become a Special Educator in TN at the University of Tennessee, Knoxville | TN Department of Education - Division of Special Education | \$22,092 | |
| Cihak, David; Bell, Sherry; Coleman-Lopatic, Marion | Special Education Summer Institute for Modified, Comprehensive and Early Childhood | TN Department of Education - Division of Special Education | \$841,692 | |
| Coleman-Lopatic, Marion | AT (Assistive Technology) at UT | TN Department of Education | \$5,000 | |
| Hayes, G.; Wozencroft, A. | Project TRIPS: Therapeutic Recreation in Public Schools | TN Department of Education | \$288,411 | |
| Moore, Tara | Connections for Education OUTReach at UTK: Professional Development and Technical | TN Department of Education - Division of Special Education | \$900,000 | |
| Mulligan, Geraldine | Adult Education Professional Development and Technical Assistance | TN Department of Labor and Workforce Development | \$681,445 | |
| White, Connie | Tennessee Transition to Career and Post-Secondary | TN Department of Education | \$299,490 | |
| COLLEGE OF ENGINEER | | | | |
| Becker, Dulceneia | Joint Research for Pushbutton CFD Application | Concepts ETI, Inc. | \$31,000 | |
| Burton, Mark | ARRA Evaluating the Economic Impacts of the Weatherization Assistance Program | DOE - UT-Battelle - ORNL | \$108,647 | |
| Clarke, David | Support to Transportation Policy Analysis Research Program | DOE - UT-Battelle - ORNL | \$27,151 | |
| Clarke, David | Fuel Economy Program & Clean Cities Activities | DOE - UT-Battelle - ORNL | \$37,715 | |
| Duscher, Gerd | Planning Grant: I/U CRC for Next Generation Photovoltaics | National Science Foundation | \$13,000 | |
| George, Easo | Microstructure and Mechanical Properties of High-Entropy Alloys | DOE - UT-Battelle - ORNL | \$25,147 | |
| Hall, Howard | Technical Support for Nonproliferation Studies Padiation Potostion Research and Development | DOE - UT-Battelle - ORNL | \$27,482 | |
| Hayward, Jason Hayward, Jason | Radiation Detection Research and Development Alternative Detector System to Replace He-3 Detectors for Neutron | DOE - UT-Battelle - ORNL DOE - UT-Battelle - ORNL | \$28,187 \$39,904 | |
| Hinos I | Sciences Power Plant Online Monitoring Data Analysis | ALSTOM Power Inc | \$45,000 | |
| Hines, J. | Power Plant Online Monitoring Data Analysis | ALSTOM Power, Inc. | φ45,000 | |

| | AWARDS FOR JULY 8–18, 2012 (CON | | |
|--|---|---|-------------|
| INVESTIGATOR | TITLE | SPONSOR | AWARD |
| Holleman, Jeremiah | Low-Noise Amplifier Array for Reliable Peripheral Neural Interface | Draper Laboratory | \$250,000 |
| Komistek, Richard; Hamel, William; Sharma, Adrija | In Vivo Determination and Comparison of Knee Kinematics for Subjects Implanted | Conformis | \$213,683 |
| Li, Fangxing | Management and Optimization of VAR under Future Transmission Infrastructure | DOE - UT-Battelle - ORNL | \$52,667 |
| Liaw, Peter | Mechanical-Behavior Study of Structural Materials Using Neutron Scattering | DOE - UT-Battelle - ORNL | \$15,152 |
| Lyne, James | Nanosat Launch Vehicle Engine Design Studies | NASA - Marshall Space Flight Center | \$16,819 |
| Maldonado, Guillermo | Storage and Transportation Engineering Analysis and Used Nuclear Fuel Assessment | DOE - UT-Battelle - ORNL | \$42,807 |
| Maldonado, Guillermo | Core Neutronics Model Development for the mPower Reactor | Babcock and Wilcox, Inc. | \$78,000 |
| McHargue, C.; Barabash, R. | X-Ray Diffuse Scattering- 2 | DOE - UT-Battelle - ORNL | \$952 |
| Mench, Matthew | Great Lakes Fuel Cell Education Partnership | Stark State University | \$57,570 |
| Rack, Philip | Electron Beam Induced Deposition Precursors and Etching Chemistries for EUV Mask | Semiconductor Research Corporation | \$150,000 |
| Ruggles, Arthur | HFIR Target Assessments | DOE - UT-Battelle - ORNL | \$38,128 |
| Schwartz, John | CESU - Improve the Park's Understanding of its Natural Resources and Natural Processes | US Dept. of Interior - Great Smoky Mountains National Park | \$121,596 |
| Schwartz, John | Effective Urban Stream Bank Stability Projects to Decrease Sediment in Oostanaula | UT Institute of Agriculture | \$45,446 |
| Tolbert, Leon; Blalock, Benjamin; Wang, Fei | Ultra High Efficiency Power Converters | Auburn University | \$458,347 |
| Zawodzinski, Thomas | Redox Flow Battery Testing | DOE - UT-Battelle - ORNL | \$20,000 |
| Zhang, Mingjun; Lenaghan, Scott | Acquisition of a Nanoindenter for Studying Mechanical Properties of Nanomaterial | DOD - Army Research Office | \$168,521 |
| Zhang, Zhili | Air Microplasma Characterization by Microwave Absorption and Laser Diagnostics | UES, Inc. | \$58,500 |
| COLLEGE OF NURSING | | | |
| Lee, Jan | Nurse Faculty Loan Program | DHHS - Health Resources and Services Administration | \$139,870 |
| COLLEGE OF SOCIAL W | ORK | | |
| Campbell, P.; Cheatham, J.; Cunningham, M. | Child Care Assessment Supportive Services Program (STARS) FY13 | TN Dept. of Human Services | \$1,150,000 |
| Campbell, Paul; DeGeorge, Elizabeth | TDHS Training and Publications FY13 | TN Dept. of Human Services | \$280,000 |
| Wodarski, John; MacMaster, Samuel | E-Therapy Screening and Interventions for Vulnerable Young Adults with SA | DHHS - Substance Abuse and Mental Health Services | \$399,997 |
| Wodarski, John; MacMaster, Samuel | The Expanded Care Coordination through the Use of Health Information Technology | DHHS - Substance Abuse and Mental Health Services | \$275,005 |
| CAMPUS CENTERS & IN | STITUTES | | |
| Harrison, Robert | Spatio-Temporal Signal Processing | DOE - UT-Battelle - ORNL | \$9,986 |
| Harrison, Robert | Schuchart Vampir Tools Set | DOE - UT-Battelle - ORNL | \$84,411 |
| Layton, Alice | Pathogen Monitoring and Fecal Source Identification in the Little River Watershed | Blount County Conservation District | \$18,707 |
| Moeller, Trevor Michael | Continued Participation by the University of Tennessee Space Institute in the NASA Space Grant Consortium | Vanderbilt University | \$17,900 |
| Pfiffner, Susan; Layton, Alice; Sanseverino, John | The Impact of Global Warming on the Carbon Cycle of Arctic Permafrost | Princeton University | \$311,152 |
| | | | |

RECOGNITIONS

In a paper published in *Nature*, a team led by **Witold Nazarewicz**, professor of physics, used the Jaguar highperformance computer to assess the theoretical boundaries
of possible nuclei that could exist. The paper, "The Limits of
the Nuclear Landscape," indicates that some 6,900 nuclei
are theoretically possible, more than twice the number that
exist in nature or that have been synthesized in laboratories.
Other authors of the paper included postdocs **Jochen Erler**and **Markus Kortelainen**, graduate student **Erik Olsen**,
undergraduates **Noah Birge** and **Alex Perhac**, and the late **Mario Stoitsov**, a UT research professor.

Stefan Spanier, associate professor of physics, as well as postdoc Zongchang Yang, graduate students Grant Riley and Andrew York, and recent physics graduates Giordano Cerizza and Matthew Hollingsworth, played a role in the research that led to the recent announcement of the observation of the Higgs boson. Spanier's group worked on detectors that safeguarded crucial equipment in the Large Hadron Collider.

Fourth-year architecture student **Asia Dixon** of Nashville won one of two Gensler African American Scholarships from Gensler, a global architecture firm. Her award includes support for her fifth year of school and a paid summer internship.