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Awards and Recognitions

Office of Research & Engagement

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University of Tennessee Office of Research

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AWARDS AND RECOGNITIONS

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JUNE 23, 2010

AWARDS FOR JUNE 4–17, 2010

| INVESTIGATOR | TITLE | SPONSOR | AWARD |
|--|---|--|-----------|
| COLLEGE OF ARTS & SCIENCES | | | |
| Binder, Brad Mark | Studies on ETRI Ethylene Receptor Structure, Function and Output | National Science Foundation | \$135,368 |
| Compton, Robert Norman | Multiple-Bound Negative Ions | National Science Foundation | \$126,311 |
| Decorse, Elizabeth Kellar | Geophysical Survey of a Portion of Oconaluftee field, Swain County, NC | US Dept. Interior - NPS - Great Smoky Mountains National Park | \$2,058 |
| Dolislager, Fredrick Gary; Gross, Louis J. | ETTP Zone 1 ROD Amendment Support for FY 2010 WR60 Revision 000 | Bechtel Jacobs Company, LLC - Accounts Payable | \$20,000 |
| Efremenko, Yuri V. | Conceptual Design for the Majorana Demonstrator | UT-Battelle - ORNL | \$12,000 |
| Feigerle, Charles; Rack, Philip | Development of a Thin-Film Boron Phosphide Solid-State Neutron Detector | DOE - National Nuclear Security Administration | \$250,000 |
| Fitzpatrick, Benjamin M.; Niemiller, Matthew Lance | Dissertation Research -- To See or Not to See Again: Regressive Evolution and Dollo's Law in North American Cavefishes (Pisces: Amblyopsidae) | National Science Foundation | \$13,440 |
| Loeffler, Frank Eckart | Editor for Journal Applied and Environmental Microbiology | American Society for Microbiology | \$96,007 |
| Loeffler, Frank Eckart | ARRA -- MSB: Insights into Mutualistic Interactions Between Free-Living, Pleomorphic Spirochetes (FLiPS) | National Science Foundation | \$446,388 |
| McKay, Larry D.; Biggerstaff, John Patrick | Mobility of Particulate and Dissolved Munitions in the Vadose Zone at Operational Ranges | UT-Battelle - ORNL | \$35,128 |
| McSween, Harry Y. | Mars Surveyor | Cornell University | \$8,700 |
| Peterson, Cynthia B. | A Novel Role for Metals in Regulating PAI-1 | American Heart Association - National | \$82,500 |
| Peterson, Cynthia B.; Dongarra, Jack; Langston, Michael A. | IGERT for Scalable Computing and Leading Edge Innovative Technologies (SCALE-IT) for Biology | National Science Foundation | \$599,880 |
| Reynolds, Todd B. | Regulation of Sliding Motility during Biofilm Formation in Fungi | National Science Foundation | \$166,258 |
| Sanders, Nathan J. | Impacts of Elevated Temperature on Ant Species, Communities, and Ecological Roles | North Carolina State University | \$35,124 |
| Sepaniak, Michael J. | Rapid Response Microsensor for Hydrogen Detection using Nanostructured Metal Films | UT-Battelle - ORNL | \$24,490 |
| Sparer, Tim E. | ARRA -- Viral Chemokine Alteration of Neutrophil Functions | NIH | \$331,248 |
| Taylor, Lawrence A. | Moon Mineralogy Mapper - Science Advisory Team | Brown University - Office of Sponsored Projects | \$55,449 |
| Vonarnim, Albrecht G.; Peterson, Cynthia B. | Animal Care for Systems Genetics | UT-Battelle - ORNL | \$42,618 |
| Wilhelm, Steven W. | What Makes Mycrocystis Bloom? Dissecting the Physiological Ecology of a Toxic Cyanobacterium with Community Level Proteomics | National Science Foundation | \$5,700 |
| Williams, Richard T. | AS107 Operation and maintenance | Southern Methodist University | \$51,000 |
| COLLEGE OF EDUCATION, HEALTH & HUMAN SCIENCES | | | |
| Davis, Jeffrey E. | Plains Indian Sign Language DEL Program: Summer 2010 Meeting and Workshops | National Science Foundation | \$49,669 |
| Gardner, Diane P.; Mincey, Bethany Aleece | Work PATHS | Dollar General Literacy Foundation | \$248,205 |
| Zemel, Michael B.; Biggerstaff, John Patrick; Sun, Xiaocun | Effects of Dairy Componentson Monocyte-Endothelial Cell Vascular Infiltration and Inflammation | Dairy Management, Inc. | \$52,938 |
| COLLEGE OF ENGINEERING | | | |
| Arimilli, Rao V. | Calc. Rev. & Development of Improved COMSOL-Based 2-D Thermal-Hydraulic Model for HFIR Core | UT-Battelle - ORNL | \$95,208 |
| Clarke, David Bruce; Alvic, Donald R.; Urbanik, Thomas | Support to CTA Research Programs | UT-Battelle - ORNL | \$15,264 |
| Dodds, Harold L. | Nuclear Safety Research and Development | UT-Battelle - ORNL | \$9,476 |
| Dongarra, Jack; Andrews, Philip Lawrence | Keeneland: National Institute for Experimental Computing | Georgia Institute of Technology - Electrical and Computer Engr | \$185,973 |
| Duscher, Gerd J. | Atomic-scale Investigation of Energy Materials | UT-Battelle - ORNL | \$35,000 |
| Hall, Howard Lewis | Baker Center Conference for NA-243 | UT-Battelle - ORNL | \$80,000 |
| Komistek, Richard David | In Vivo Mathematical Modeling of the Human Knee Joint | DePuy Products Incorporated | \$259,100 |

AWARDS FOR JUNE 4–17, 2010 (CONT.)

| INVESTIGATOR | TITLE | SPONSOR | AWARD |
|---|--|---|-------------|
| Li, Fangxing | Distributed Energy Communications and Control (DECC) Test Project | UT-Battelle - ORNL | \$100,000 |
| Li, Fangxing | Dynamic Study of Voltage and Frequency Regulation from Distributed Energy Resources | UT-Battelle - ORNL | \$80,000 |
| McHargue, Carl J.; Vasudevamurthy, Gokul | Development of Zirconium Carbide for Gen IV Nuclear Reactors | UT-Battelle - ORNL | \$100,001 |
| Sawhney, Rapinder S. | Creation of Industrial Research partnership | US Department of Commerce | \$30,000 |
| Tolbert, Leon; Islam, Syed Li, Fangxing; Qi, Hairong; Wang, Xiaorui | Power Electronics Evaluation for DER and T & D | UT-Battelle - ORNL | \$92,000 |
| COLLEGE OF SOCIAL WORK | | | |
| Campbell, Paul M.; Cunningham, Maryanne Lynch | Alzheimer's Evidence Based Survey | TN Commission on Aging | \$44,337 |
| Glisson, Charles; Cheatham, Joanna; Dukes, Denzel; Green, Philip; Hemmelgarn, Anthony | Testing an Organizational Implementation Strategy in Children's Mental Health | NIH-National Institute of Mental Health | \$618,616 |
| CAMPUS CENTERS & INSTITUTES | | | |
| Fulkerson, William | Secretariat to the Laboratory Energy R&D Working Group (LERDWG) | Argonne National Laboratory | \$5,000 |
| Sayler, Gary S. | Editorial Work through the American Chemical Society for the Environmental Chemical Society | American Chemical Society Journal Publishing Operations | \$70,580 |
| Zacharia, Thomas | Joint Institute for Computational Sciences Proposal to NSF05-625: High Performance Computing System Acquisition: Towards a Petascale Computing Environ | National Science Foundation | \$1,000,000 |
| Zacharia, Thomas; Nichols, Jeffrey | Catalysis and Electron Transport in Nanoscale Systems | UT-Battelle - ORNL | \$111,841 |

RECOGNITIONS

Wesley Baldwin, associate professor of cello in the School of Music, has just released a new CD featuring works for cello by American Composer Alan Shulman. The first commercial recording of its kind, it features some of Shulman's most important compositions including his great *Cello Concerto* – recorded live with the Hot Springs Music Festival Symphony Orchestra – *Suite for Solo Cello*, *Kol Nidrei*, and many smaller works for cello and piano.

Ben Bates, professor of journalism and electronic media, gave a presentation titled "Usability, Utility, Value: How Use Shapes ICT's Social Impact," at the University of Salzburg's Center for Advanced Studies and Research in Information and Communication Technologies & Society. Bates also presented "Measuring Comparative Value through Conjoint Analysis: A Look at Article Characteristics" at the 2nd Qualitative and Quantitative Methods in Libraries International Conference in Greece.

Hamparsum Bozdogan, Toby & Brenda McKenzie Professor in Business in Statistics, Operations, and Management Science, edited a special volume of the *European Journal of Pure & Applied Mathematics* (EJPAM) on "Granger Econometrics and Statistical Modeling" in honor of Nobel laureate economist and statistician professor Sir Clive Granger. The volume acknowledges Granger's outstanding contributions in co-integration in econometric time series and in causality in economics, now known as Granger causality.

Heather Douglas, professor of philosophy, was one of two scholars invited to comment on "The Truth of Science for Justice and Peace," a talk given recently at Arizona State University by Monsignor Marcelo Sánchez Sorondo, the Vatican official in charge of science policy for the Holy See.

Greg Kaplan, professor of Spanish, has been awarded a Lindsay Young Professorship for 2010-2011. The award recognized Kaplan's professional achievement in research and teaching.

Norman Magden, professor in the School of Art, has turned vampires and zombies into award-winning art. Magden's film, "Café," recently received first place in the experimental film category at the Los Angeles Movie Awards. The film also received several awards of excellence for best director, best cinematography, best production design and best costume design in the experimental film category.

David Northington, professor of music, has been selected by the Phi Kappa Phi national honor society as the 2010-12 National Phi Kappa Phi Artist for his accomplishments as a pianist, professor and campus and community volunteer.

Dan Roberts, professor of biochemistry and cellular and molecular biology, has had a manuscript selected as "paper of the week" in the *Journal of Biological Chemistry*. The paper,

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titled "Interaction of cytosolic glutamine synthetase of soybean root nodules with the C-terminal domain of the symbiosome membrane nodulin 26 aquaglyceroporin," reports work from Robert's graduate student, Pintu Masalkar. It was chosen by the journal as being in the top 1 percent of manuscripts reviewed in a year in significance and overall importance.

Brian Wirth, an associate professor at the University of California, Berkeley, has been named the ninth University of Tennessee-Oak Ridge National Laboratory Governor's Chair. His research focuses on the performance of nuclear fuels and structural materials in nuclear environments. Wirth will serve in UT's Department of Nuclear Engineering and in ORNL's computer science and mathematics division.

WANTED: News & Nominations

The UT Office of Research is seeking research news and opportunities, scholarly and professional recognition, and nominations for "Scholar of the Week."

Send items for either *News & Opportunities* (the green newsletter) or *Awards & Recognitions* (the gold newsletter) to Craig Cook (ccook10@utk.edu), preferably by the Wednesday preceding the expected publication date.

To nominate a colleague for "Scholar of the Week," send a note to Dennis McCarthy (dmmccarthy@utk.edu).