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Awards and Recognitions

Office of Research

6-23-2010

## Office of Research, Awards & Recognition, June 23, 2010

University of Tenessee Office of Research

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### AWARDS AND RECOGNITIONS

http://research.utk.edu		Jl	JNE 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, HEALT	H & 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 Carbid 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 & INSTITUTE	S			
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 cointegration 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).