



7-7-2010

Office of Research, Awards & Recognition, July 07, 2010

University of Tennessee Office of Research

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Recommended Citation

Office of Research, University of Tennessee, "Office of Research, Awards & Recognition, July 07, 2010 " (2010). *Awards and Recognitions*.
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AWARDS AND RECOGNITIONS

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JULY 7, 2010

AWARDS FOR JUNE 18–JULY 1, 2010

INVESTIGATOR	TITLE	SPONSOR	AWARD
COLLEGE OF ARTS & SCIENCES			
Dadmun, Mark	Solubility Studies of Boron Nanoparticles	Honeywell Federal Management and Technologies,	\$37,001
Decorse, Elizabeth Kellar	Archaeological Phase I of Parcel 09310025600 at the Gateway Boulevard Corridor, Nashville, Tennessee	Parsons Brinckerhoff Quade	\$21,891
Howell, Elizabeth E.	R67, the Other Dihydrofolate Reductase	National Science Foundation	\$170,445
Jouline, Igor; Turner, Brandi	Journal of Bacteriology Editor Expenses	Amer. Society for Microbiology	\$10,836
Kabalka, George W.	Subcellular/Cell Cycle Born-Delivery Studies of Unnatural Amino Acids by SIMS	Cornell University	\$47,360
Koch, Erec; Schmidt, Gilya	Arabic Language and Culture Across the Curriculum	US Department of Education	\$96,077
Mannella, Norman	Expanding Capabilities of Photoelectron Spectroscopy to Reveal the Coupling of Different Degrees of Freedom in Complex Electron	National Science Foundation	\$75,000
Mays, Jimmy W.	Collaborative Research: Synthesis and Rheology of Strategically-Designed Long-Chain-Branched Polymers	University of Michigan	\$40,000
Nagle, Nicholas Nathaniel	Large-Scale Spatially Embedded Interpersonal Networks: Measurement, Modeling and Dynamics	University of California, Irvine	\$135,544
Peterson, Cynthia B.	Urokinase, Neutrophil Activation and Acute Lung Injury	Univ. of Alabama, Birmingham	\$15,000
Schmidt, Gilya	Shusterman Visiting Israeli Professor	The American-Israeli Cooperative Enterprise	\$60,000
Sepaniak, Michael J.	Siloxane Compound Sensing Using Microcantilever Transducers	UT-Battelle - ORNL	\$67,500
Thompson, James R.	Formation and Properties of Materials for Advanced Energy Technologies: Superconductive, Magnetic, and Related Materials	UT-Battelle - ORNL	\$62,718
Vonarnim, Albrecht G.	Arabidopsis 2010: Global Analysis of Translational Regulons	Univ. of California, Riverside	\$5,000
COLLEGE OF BUSINESS ADMINISTRATION			
Miller, Alex; Barton, Rhonda W.; Riblett, John E.	Continuous Process Improvement in Air Force Acquisition	Air Force	\$8,062,794
COLLEGE OF COMMUNICATION & INFORMATION			
Suttles, Barbara C.	Support For Computational Science and Engineering Division-UT-Battelle (Nelson)	UT-Battelle - ORNL	\$198,842
COLLEGE OF EDUCATION, HEALTH & HUMAN SCIENCES			
Benner, Susan Mclean	TN State Professional Development Project: Gearing Up for RTI	State of Tennessee	\$114,226
Brewer, Ernest W.	Educational Opportunity Center	US Department of Education	\$451,653
Brewer, Ernest W.	Academic Enrichment Upward Bound	US Department of Education	\$347,684
Cihak, David Francis	iSkills	University of Georgia	\$60,000
Dunn, Patrick; Skinner, Amy	Enhancing Capacity for Training Rehabilitation Counselors through Distance Education in Tennessee & Surrounding States	US Department of Education	\$144,411
Mulligan, Geraldine Ann	Adult Education Professional Development and Technical Assistance	TN Department of Labor and Workforce Development	\$61,506
Skolits, Gary; French, Russell	Drexel University Transition to Teaching Partnership Evaluation	Drexel University	\$85,503
White, Connie Loraine	Tennessee Reading First Professional Development and Data Support	TN Department of Education - Head Start Collaboration Office	\$2,000,000
White, Connie Loraine	SPDG: Professional Development and Technology Support for TN Special Education	TN Dept of Education	\$204,870
Wolbers, Kimberly; Dostal, Hannah; Stephenson, Brenda	Strategic and Interactive Writing Instruction (SIWI): A 2-Year Focus on Language and Literacy	Tennessee Higher Education Commission	\$167,000
COLLEGE OF ENGINEERING			
Abidi, M Al	Robotic Vision and Sensing	Department of Defense	\$2,580,000
Berry, Michael W.	Scenario/Plot Discovery Using Nonnegative Tensor Factorization	Information Int'l Associate	\$30,000
Cherry, Christopher Robin	Dwight David Eisenhower Transportation Fellowship	US Dept. of Transportation - Research and Innovative Tech.	\$5,000
Clarke, David	Updating and Upgrading the Oil Security Metrics Model (OSMM)	UT-Battelle - ORNL	\$32,927
Clarke, David	Support in Enhancing the www.fueleconomy.gov Web Site	UT-Battelle - ORNL	\$66,853
Clarke, David; Urbanik, Thomas	Support to Transportation Policy Analysis Research Program	UT-Battelle - ORNL	\$4,492
Fathy, Aly; El-Ghazaly, Samir	Simulation and Measurement Study for Spallation Neutron Source Project	UT-Battelle - ORNL	\$154,496
Frymier, Paul; Bruce, Barry; Keffer, David; Khomami, Bamin; Rawn, Claudia	IGERT: Stair - Sustainability Through Advanced Interdisciplinary Research	UT-Battelle - ORNL	\$592,830
Hayward, Jason	Alternative Detector System to Replace He-3 Detectors for Neutron Sciences	UT-Battelle - ORNL	\$25,000
Hayward, Jason; Dodds, Harold	Radiation Detection Research and Development	UT-Battelle - ORNL	\$23,322
Komistek, Richard David	In Depth Understanding of Knee Mechanics	Zimmer Orthopedics	\$42,463
Komistek, Richard David	In Vivo Mech Comparison of the Sigma Mobile Bearing Vs The Legacy High Flex Fixed Bearing TKA	Zimmer Orthopedics	\$20,938

AWARDS FOR JUNE 18–JULY 1, 2010 (CONT.)

INVESTIGATOR	TITLE	SPONSOR	AWARD
Komistek, Richard David	In Vivo Determination of Gender Kinematics in Total Knee Arthroplasty	Zimmer Orthopedics	\$27,799
Komistek, Richard David	In Vivo Determination of Knee Kinematics in Obese Patients	Zimmer Orthopedics	\$23,844
Komistek, Richard David	Theoretical Hip Range-Of-Motion	Zimmer Orthopedics	\$191
Komistek, Richard David	3D Mechanics Analysis of the Patellofemoral Joint	Zimmer Orthopedics	\$33,571
Komistek, Richard David	Develop & Implement of a Mathematical Model to Predict In vivo Contact Stresses in THA	Zimmer Orthopedics	\$17,881
Li, Fangxing	NSF Subcontract: System Modeling for Wind Generation Control to Damp Inter-Area Oscillation	University of South Florida	\$18,374
Liu, Yilu	ORNL GridEye Development	UT-Battelle - ORNL	\$247,450
Mahfouz, Mohamed R.	Pelvic Landmarking	Zimmer Orthopedics	\$119,488
Melcher, Charles L.; Hayward, Jason Peter	Enhancing Energy Migration and Proportionality in Scintillation Materials	US Department of Energy - Office of Science	\$250,000
Newsom, Theodore J.	Statewide Van Transportation Contract	English Mountain Recovery	\$28,000
Parker, Lynne E.	IEEE T-RO-Editorship	Univ. of Illinois	\$3,600
Plank, James S.	CSR-PDOS Exploring and Developing Improved Erasure Codes for Storage Systems	National Science Foundation	\$15,000
Townsend, Lawrence W.	Additional Improvements to the Hzetrn Code and the Nucfrg2 Database	NASA - Langley Research Center	\$175,000
Zhang, Mingjun; Stewart, Charles	Ivy Adhesive Nanoparticles for Bio-Medical Applications	National Science Foundation	\$326,792
COLLEGE OF NURSING			
Wyatt, Tami Hodges; Li, Xueping	Usability Testing Okay with Asthma V.2.0: An Interactive Narrative Asthma Program	NIH - Center for Scientific Review	\$70,195
COLLEGE OF SOCIAL WORK			
Campbell, Paul M.	Clear Wrap FY 2010	TN Dept of Human Services	\$179,458
Campbell, Paul M.; Cunningham, Maryanne Lynch	Child Care Research and Evaluation FY11	TN Dept of Human Services	\$659,793
Ellis, Rodney A.	North American Program for Social Work, Equity, and Social Welfare	US Department of Education - Bur Postsecondary Ed	\$56,667
Patterson, David A.	HMIS Matching Funds for HUD R01418334	Knox Area Rescue Ministries	\$2,000
CAMPUS CENTERS & INSTITUTES			
Cordea, Stephen	Provide Integration and flight Test, NASA Marshall Airborne Polarimetric Imaging Radiometer (MAPIR)	NASA - Marshall Space Flight Center	\$5,000
Deeken, Joanne; Caudill, Charles; Teeter, Dwight	Tennessee Newspaper Digitization Project	National Endowment for the Humanities	\$325,165
Bell, Larry L.	Administrative Support for East Tennessee Clean Fuels Coalition - 08	East Tennessee Clean Fuels Coalition	\$92,230
Fulkerson, William	Secretariat to the Laboratory Energy R&D Working Group (LERDWG)	Battelle Memorial Institute - Pacific Northwest National Lab	\$5,000
Fulkerson, William	Secretariat to the Laboratory Energy R&D Working Group (LERDWG)	DOE - Idaho National Laboratory	\$5,000
McKay, Larry D.	ARRA: Technical Support of Environmental Projects	UT-Battelle - ORNL	\$31,987
Moeller, Trevor Michael	UCDS to Predict the Combustion Stability of Fast Response Liquid Rockets	Gloyer-Taylor Laboratories LLC	\$39,992
Nichols, Jeffrey; Nichols, Jeffrey Alan; Zacharia, Thomas	Computational Investigation of the Formation of Self-Assembled Molecular Surfaces	UT-Battelle - ORNL	\$89,807
Zacharia, Thomas	High Performance Computing System Acquisition: Towards a Petascale Computing Environ	National Science Foundation	\$8,862,791

RECOGNITIONS

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Mike Best and **Jon Camden**, assistant professors in the Department of Chemistry, joined **Arthur (Sandy) Echernacht**, professor in the Department of Ecology and Evolutionary Biology, and **Ted Labotka**, professor in the Department of Earth and Planetary Sciences, to present a day-long professional development workshop to Knox County high school science teachers. The workshop featured lectures and discussions in chemistry and earth and life sciences.

The research of **Gajanan Bhat**, professor of materials science and engineering, was mentioned in a recent issue of *Forbes* magazine. The article featured information on Ingeo, a biodegradable plastic produced from corn starch. Bhat's research has proved the substance can be successfully meltblown to produce microfiber webs.

Donald Bruce, associate professor of economics and economist with the Center for Business and Economic Research, briefed the U.S. Congress on proposed legislation to establish a new Consumer Price Index (CPI) for seniors so Social Security benefits reflect the impact of inflation on seniors each year.

Zheng (Chori) Cao, a graduate student in the Department of Materials Science and Engineering, won the Best Student Poster Award for her poster "Neuronal Responses to Simply Prepared Chitosan Composite Gels" at the Biomedical Science and Engineering Center 2010 Conference held at ORNL.