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Office of Research, Awards & Recognition, October 29, 2008

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OCTOBER 29, 2008

AWARDS AND RECOGNITION

AWARDS FOR THE UNIVERSITY OF TENNESSEE, KNOXVILLE FOR OCTOBER 10–23, 2008

INVESTIGATOR	TITLE	SPONSOR	AWARD
COLLEGE OF ARTS & SCIENCES			
Becker, Jeffrey M.	Collaborative Research: RUI: The Role of Oligopeptide Transporters in Germinating Rice Seeds	National Science Foundation	\$38,857
Bingham, Carrol R.	Matching Funds - UT/ORNL Joint Institute	UT-Battelle, LLC-Oak Ridge National Laboratory	\$128,691
Burr, Devon Marjorie	Raised Curvilinear Features in the Western MFF	NASA - Headquarters Washington, DC	\$74,530
Cook, Kelsey D.	ASMS	American Society for Mass Spectrometry	\$2,550
Driskell, Boyce N.; Sullivan, Lynne P.	Archaeological Site Survey in the French Broad River Conservation Corridor	Tennessee Historical Commission	\$11,000
Emery, Joshua Patrick	IRS Spectra of Basaltic Asteroids: Vestoids, 1459 Magnya, Other Non-Vestoid Basaltic Asteroids	NASA - Jet Propulsion Laboratory - California Institute of Technology	\$42,435
Harrison, Robert J.; Peterson, Gregory D.; Hinde, Robert J.	Collaborative Research: Cyber-Infrastructure and Research Facilities: Chemical Computations on Future High-End Computers	National Science Foundation	\$169,300
Hollenbach, Kandace Renee	Identification of Wood Sample from 38BK815, Berkeley County, South Carolina	Brockington and Associates	\$185
Hollenbach, Kandace Renee	Paleoethnobotanical Analysis of 8ES1354, Escambia County, Florida	Brockington and Associates	\$2,164
Kah, Linda C.	Unusual Breccias in the Mesoproterozoic Atar Group, Mauritania: Tsunami Deposition Related to a Marine Extraterrestrial Impact	National Geographic Society-Committee for Research and Explo	\$24,250
Mckay, Larry D.; Layton, Alice Camille	EID Collaborative Research: Does Arsenic Mitigation in Bangladesh Raise Exposure to Bacterial and Viral Pathogens	Columbia University	\$90,925
Peterson, Cynthia B.	Research Associate-David Durtschi	UT-Battelle, LLC-Oak Ridge National Laboratory	\$17,847
Peterson, Cynthia B.	Mammalian Research - Beckmann, Spence, Shaw, Easter	UT-Battelle, LLC-Oak Ridge National Laboratory	\$104,258
Plummer, Earl Ward	Enhanced Electron-Phonon Coupling at Metal Surfaces	National Science Foundation	\$60,000
Xue, Ziling; Djouadi, Mohamed Seddik	Synthesis, Characterization and Physical Properties of Inorganic Materials	UT-Battelle, LLC-Oak Ridge National Laboratory	\$4,261
Zhu, Wenguang	Theoretical Studies of Optical Properties of Novel Nano-materials	UT-Battelle, LLC-Oak Ridge National Laboratory	\$50,000
COLLEGE OF BUSINESS ADMINISTRATION			
Swift, Glenn D.; Murphy, Daniel P.	Graduate Student Support to DOE/ORO	US Dept of Energy - Energy and Technology	\$23,733
COLLEGE OF EDUCATION, HEALTH & HUMAN SCIENCES			
Bingman, Mary Beth	Ensuring Quality Mathematics Instruction for GED Students: A Professional Development Model	National Science Foundation	\$291,061
Dunn, Patrick Lee; Skinner, Amy L.	Enhancing Capacity for Training Rehabilitation Counselors through Distance Education in Tennessee & Surrounding States	US Department of Education - Other Office of Education	\$150,000
White, Connie L.	Technical Assistance and Training to State Improvement Grant (SIG)	TN Department of Education - Division of Special Education	\$221,003
White, Connie L.	Early Reading First Evaluation	Knox County Schools	\$74,087
COLLEGE OF ENGINEERING			
Besmann, Theodore M.	Adhesion of Alumina Thermal Oxidation Barriers to Bond-Coat Alloys for Use in Turbine Blades	US-Israel Binalational Science Foundation	\$65,450
Blalock, Benjamin J.	Georgia Institute of Technology	Georgia Institute of Technology-Electrical and Computer Engr	\$155,833
Bosilca, George Martin; Luszczyk, Piotr R.; Dongarra, Jack	Collaborative Research: CSR - AES: Automatic Turning MPI Software CAToMS	National Science Foundation	\$60,000

AWARDS FOR THE UNIVERSITY OF TENNESSEE, KNOXVILLE FOR OCTOBER 10–23, 2008 (CONT.)

INVESTIGATOR	TITLE	SPONSOR	AWARD
Counce, Robert M.	Development of Acetic Acid Removal Technology for the UREX+ Process	US Dept of EnergyEnergy and Technology	\$108,874
Heilbronn, Lawrence Harvey	Combined Ion and Neutron Spectrometer (CINS)	Johns Hopkins University	\$28,000
Hines, J Wesley; Upadhyaya, Belle R.	Advanced Instrumentation and Control Methods for Small and Medium Export Reactors with IRIS Demonstration	US Dept of Energy - Energy and Technology	\$175,673
Hu, Bin	CAREER: Research and Education in Development of Organic Spintronics Based on Spin Injection and Modicication of Spin-Orbital Coupling in Magnetic Org	National Science Foundation	\$6,000
Kalyanaraman, Ramakrishnan	Magnetic Anisotropy in Nanoscale Systems Produced by Fast Laser Processing: Fundamental Mechanism	National Science Foundation	\$83,115
Kalyanaraman, Ramakrishnan	Coll Res: Novel 3D Nanocomposites for Optical and Solar Applications: A First Principles Approach to Cost-Effective Design	National Science Foundation	\$317,203
Lee, Ida	Surface Morphology/Potential Mapping And Microbial Adhesion Force Measurements	Georgia Institute of Technology - Electrical and Computer Engr	\$139,977
Mchargue, Carl J; Barabash, Rozaliya I.	X-Ray Diffuse Scattering- 2	UT-Battelle, LLC-Oak Ridge National Laboratory	\$501
Melcher, Charles L.; Hu, Bin; Eriksson, Lars Aldon	Wavelength Shifting Phoswich Detectors for Superior Depth of Interaction Resolution	US Department of Energy - Golden Field Office	\$452,000
CAMPUS CENTERS & JOINT INSTITUTES			
Henry, Theodore B.; Wilhelm, Steven W.; Strange, Richard J.; Saylor, Gary S.	Investigating Chronic Toxicity and Bioaccumulation of Microcystins in Freshwater Fishes Using Toxicogeonomics	National Oceanic & Atmospheric Administration	\$289,523
Pfiffner, Susan M.; White, David C.; Davis, Kimberly L.	Detection of Biosustainable Energy and Nutrient Cycling in the Deep-Subsurface of Earth and Mars	Indiana University	\$11,448
Plechac, Petr	CDI-Type II: Hierarchical Stochastic Algorithms for Materials Engineering	National Science Foundation	\$357,385
Schexnayder, Susan M.; League, Brandon L.; Burley, Thomas Edward	National Biological Information Infrastructure-Southern Appalachian Information Node (NBII-SAIN)	US Geological Survey, BRD	\$238,000
Zacharia, Thomas	Data Integration of Large-scale Heterogeneous Biological Data	UT-Battelle, LLC-Oak Ridge National Laboratory	\$65,530

RECOGNITIONS

On October 20th, seven UT Knoxville senior faculty members were named Chancellor's Professors—the university's highest permanent academic honor. **Joy T. DeSensi**, professor of exercise, sport and leisure studies, and associate dean of the Graduate School; **Charles Glisson**, professor of social work; **Sally Horn**, professor of geography; **Harry "Hap" McSween**, distinguished professor and head of the department of earth and planetary sciences; **John T. "Tom" Mentzer**, professor of marketing and logistics; **George Pharr**, head of the materials science and engineering department; and **Carol Tenopir**, professor of information sciences, were each honored and received a one-time research stipend of \$20,000.

Thomas Heffernan, Kenneth Curry professor of English, recently received an honorary Doctor of Humane Letters at Manhattan College, his alma mater.

At the 12th meeting of the International Association for Computer Methods and Advances in Geomechanics (IACMAG) meeting in Goa, India, **Feng Chen**, **Eric Drumm** and **Georges Guiochon** received an award for their paper "Prediction/Verification of Particle Motion in One Dimension with the Discrete-Element Method." The paper was published in the *International Journal of Geomechanics*. Chen is a PhD candidate and graduate research assistant in civil and environmental engineering, Drumm is a professor and head of biosystems engineering and soil science and Guiochon is a distinguished professor of chemistry.

Nagraj Kulkarni, research assistant professor of materials science and engineering, recently presented an invited talk titled "Assessment of Diffusion Formalisms for Databases" and chaired a session at the Materials Science & Technology 2008 Conference in Pittsburgh, Pa.

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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 & Recognition* (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).