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Office of Research, Awards & Recognition, March 26, 2008

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Awards & Recognition

THE UNIVERSITY of TENNESSEE KNOXVILLE

RESEARCH, SCHOLARSHIP, CREATIVE ACTIVITY

26 MARCH 08

Awards for UT Knoxville, 7-19 March 2008

INVESTIGATOR	TITLE	SPONSOR	AWARD
College of Arts & Sciences			
Xue, Ziling	Probing Novel Reactivities of Transition Metal Complexes and Mechanistic Pathways in the Formation of Microelectronic Materials	National Science Foundation	$322,000
Moersch, Jeffrey E. ; Macmaster, Samuel A.	Spectral Mapping and Thermophysical Characterization of the Martian Surface with the Mars Odyssey THEMIS Experiment	NASA - Jet Propulsion Laboratory-California Institute of Tec	$51,500
Musfeldt, Janice	Low Energy Optical Spectroscopy as a Probe of Structure-Property Relations in Organic Solids	National Science Foundation	$89,999
Mays, Jimmy W.	Poly (Cyclohexadiene) - Based Polymer Electrolyte Membranes for Fuel Cell Applications	US DEPARTMENT OF ENERGYGOLDEN FIELD OFFICE	$100,000
Thundat, Thomas G.	Novel Concepts in Molecular Recognition and Chemical Selectivity	University of California-Berkeley	$40,089
Grzywacz-Jones, Katherine Louise	RA Direct Reaction Studies Around 132Sn	Oak Ridge Associated Universities	$34,014
DECORSE, ELIZABETH KELLAR	Preparation of National Register Nomination for Maymead Farm, Mt. City, Johnson County, Tennessee	Other private non-specified	$11,996
Schweitzer, Jennifer Ann; Bailey Joseph Kenneth	Are There Evolutionary Consequences of Genetic-Based Feedbacks Between Plants and Soils?	National Science Foundation	$134,762
VAN DE MOORTEL, ALEYDIS	Mitrou Archaeological Project	Institute for Aegean Prehistory	$35,000
HOLLENBACH, KANDACE RENEE	Preliminary Analysis of Plant Remains from Taldy Bulak 2, Talga Region, Kazakhstan	Other private educational institution non-specified	$1,050
Jain, Nitin	Structure-Function Studies of Endotoxin Receptor CD14	NIH - National Institute of Allergy and Infectious Diseases	$269,748
Smith, Jeremy C.	Governor's Chair	UT-Battelle, LLC-Oak Ridge Nationa Laboratory	$115,921
College of Engineering			
Choo, Hahn	Joint Faculty	UT-Battelle, LLC-Oak Ridge Nationa Laboratory	$7,669
Huang, Jian	SciDAC Institute of Ultrascale Visualization	US Dept of EnergyEnergy and Technology	$100,000
Ma, Zhongguo	Cast-in-Place Reinforced Concrete Connections for Precast Deck Systems	University of Minnesota	$60,000
Everett, Jerry D.	NHI Highway Noise	TN Dept of Transportation	$100,000
JOY, DAVID C.; RACK, PHILLIP D.	Advancd Ion Microscopy for Metrology, Review, and Lithography	Semiconductor Research Corporation	$60,000
PADDISON, STEPHEN J.	Membranes and MEA's for Dry, Hot Operating Conditions	Other industry non-specified	$60,000
BLALOCK, BENJAMIN J.	Graduate Fellowship for Nanoscale Microelectronic Circuit Development	Washington State UniversityCollege of Engineering and	$12,000
DODDS, HAROLD L.	National Academy for Nuclear Training - Health Physics	National Academy for Nuclear Traini-Educational Assistance P	$25,000
DODDS, HAROLD L.	National Academy for Nuclear Training - Nuclear Engineering	National Academy for Nuclear Traini-Educational Assistance P	$25,000
NEWSOM, THEODORE J.	Statewide Van Transportation Project	Other Tennessee non-specified	$23,000
NEWSOM, THEODORE J.	Statewide Van Transportation Project	Buffalo River Services, Inc	$23,000
NEWSOM, THEODORE J.	Statewide Van Transportation Project	Creative Life, Inc.	$23,000
NEWSOM, THEODORE J.	Statewide Van Transportation Project	Skills Development Services, Inc.	$23,000
NEWSOM, THEODORE J.	Statewide Van Transportation Project	Pacesetters, Inc.	$23,000
NEWSOM, THEODORE J.	Statewidw Van Transportation Project	Sertoma Center, Inc.	$23,000
NEWSOM, THEODORE J.	Statewide Van Transportation Project	Other Tennessee non-specified	$23,000
NEWSOM, THEODORE J.	Statewidwide Van Transportation Project	Other Tennessee non-specified	$23,000
Urbanik, Thomas II; Alvic, Donald R.	DOE/EPA Fuel Economy Information	UT-Battelle, LLC-Oak Ridge Nationa Laboratory	$39,652
Alvic, Donald R.; Urbanik, Thomas II	DOE/EPA Fuel Economy Information Site	UT-Battelle, LLC-Oak Ridge Nationa Laboratory	$31,210
College of Education, Health and Human Sciences			
BUTTERWORTH, JENNIFER R.	Partnership for Ed Excellence External Evaluation	Tennessee Department of EducationTraining & Professional Dev	$211,369
MORROW, JENNIFER ANN	Expressive Writing and Behavioral Monitoring Interventions	Old Dominion Research Foundation	$61,468

Continued . . .

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Campus Centers and Joint Institutes			
Gangaware, Timothy R.	Beaver Creek Public Education and Awareness Initative	Tennessee Valley Authority	$20,000
Parker, John C.	Quantification of Hydrologic, Geochemical, and Mineralogical Processes	UT-Battelle, LLC-Oak Ridge Nationa Laboratory	$20,200
ARTHUR, ROY ALLEN	Beaver Creek Restoration Initiative: FY 2007 319 Proposal	TN Dept of Agriculture-Tennessee Nonpoint Source Program	$919,385
GANGAWARE, TIMOTHY R.	Beaver Creek Restoration Initiative: FY 2007 319 Proposal	TN Dept of Agriculture-Tennessee Nonpoint Source Program	$919,385
LOWE, ALAN C.; FITZGERALD, MICHAEL R.; FOLZ, DAVID H.; SCHEB, JOHN M.	Convenience Voting: A Model Program to Change the Way We Vote	Pew Charitable Trusts	$99,600
DAVIS, KIMBERLY L.	Verification of Simplicity Cleaning Product Environmental Claims	Other industry non-specified	$7,526
BRILL, DAVID C.	Cumberland Odyssey: A Journal in Pictures and Words Along Tennessee's Cumberland Trail	Other Tennessee non-specified	$12,500
BIGGERSTAFF, JOHN PATRICK	In Vivo Testing of Potential Therapeutic Soluable Fibrin Inhibitory Peptides in Cancer Metastasi	University of Tennessee Research Foundation	$15,000
Biggerstaff, John Patrick	Real Time Quantitative Phase-Constrast Biological Microscopy by Techniques of Digital Holography	UT-Battelle, LLC-Oak Ridge Nationa Laboratory	$20,000
INVESTIGATOR	TITLE	SPONSOR	AWARD

Writers on a roll . . .

At a recent "Writers in the Library" evening, **Michael Knight**, director of the English department's creative writing program, prefaced his reading with a quick recap of the program's latest accomplishments. They include
—inclusion of graduate student **Otis Haschemeyer**'s short story "The *Fantome* of Fatma" in the current *Best New American Voices*
—publication of Ph.D. candidate **Brad Tice**'s short story "Missionaries" in *The Atlantic Monthly* and its selection by Salman Rushdie for inclusion in the 2008 edition of *Best American Short Stories*.

Knight said the placement of Haschemeyer's short story is especially notable for the program, since *Best New American Voices* is considered a yearly showcase for the best talent in creative writing programs across the country.

The program's poetry students and graduates have been equally fruitful, said **Marilyn Kallet**, poet and program faculty member:
—two book-length collections of poetry by former students **Linda Parsons Marion** and **Kristi Maxwell**
—poetry chapbooks by program graduates **Donna Doyle, Connie Jordan Green, Judy Loest, Andrew Najberg, Matt Urmy, Alice Templeton,** and **Darius Antwan Stewart**
—two books forthcoming by **Karen Head.**

Nor have the progam's faculty been idle. Knight's two novellas were published as *The Holiday Season* in late 2007, as were three books by Kallet: *The Movable Nest, Jack the Healing Cat,* and *The Last Love Poems of Paul Eluard,* a translation with introduction. **Allen Wier**'s epic Western *Tehano,* was published in 2006, and **Arthur Smith**'s volume of poetry, *The Late World,* appeared in 2002.

. . . & other accomplishments

Narenda Dahotre, professor in materials science and engineering, has been elected to the 2008 class of Fellows of the American Society of Mechanical Engineers.

Dahotre was recognized for his contributions to the engineering of laser-materials interactions and the use of high-power lasers for materials processing and surface engineering.

Dahotre holds a joint appointment with UT and Oak Ridge National Laboratory. Prior to 2002, he was on the UT Space Institute faculty.

Terrell Strayhorn, assistant professor of higher education and special assistant to the provost, has received the 2008 Annuit Coeptis Emerging Professional Award from the American College Personnel Association. The honor follows his 2007 award as the association's Emerging Scholar.

Strayhorn's article, "Labor Market Influences of African American College Graduates: A National Study," appeared in a recent issue of *The Journal of Higher Education* and is his third article to appear in a major journal within a year.

Peiling Wang, associate professor in information science, delivered "Use of Internet-based Information Resources for Research" at East China Normal University in Shanghai. The university's department of informatics invited her visit and talk.

Kevin Kitt, associate professor in materials science and engineering will chair a conference on new approaches in polymer characterization in October for the Society of Plastics Engineers.

Patrick Mulholland and **Lee Cooper** are among the authors of a major study showing how local streams can filter out the nitrogen that causes red tide and other algal blooms along the seashore. Mulholland, who has a joint appointment with UT and ORNL, is the principal author of the article that appeared in a 13 March issue of Nature. Cooper, a UT research professor, also participated in the study, titled "Stream denitrification across biomes and its response to anthropogenic nitrate loading."

David Icove, adjunct assistant professor in electrical engineering and computer science, presented a paper, "Passive Microwave Fire Detection," at an international engineering conference sponsored by the Fire Protection Research Foundation on 13 March.

Wesley Hines, professor in nuclear engineering, and research collaborators were recognized for the best therapy paper by the Southeast chapter of the American Association of Physicists in Medicine for a paper titled "Verification of helical tomotherapy delivery using autoassociative kernal regression."

2nd 'Road Ahead' forum set

The second forum in the UT Research Council's "Research, Scholarship & Creative Activity: The Road Ahead" series will convene on Wednesday, 26 March, at 4 p.m. in room 307 of the Science, Engineering and Research Facility.

The panel discussion will focus on boundaries of UTK regarding intersecting entities such as ORNL, stakes for UTK faculty regarding properties such as Cherokee Farm, the degree to which communications systems' boundaries facilitate research/scholarship, and boundary-issue priorities and reasonable tradeoffs.

Panelists will include Glenn Graber, Ward Plummer, David Patterson, Rita Hagevik, and Bob Compton.

The forum is the second of four envisioned to provide a town-hall-styled meeting intended to empower UTK faculty. All faculty are invited.

WANTED: News, Nominations & Sundries

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

Send items for either *News & Opportunities* (the green newsletter) or *Awards & Recognition* (the gold newsletter) to Bill Dockery (dockeryb@utk.edu), preferably by the Wednesday preceding the expected publication date.

To nominate a colleague for "Scholar of the Week," send a note to Greg Reed (gdreed@utk.edu), associate vice chancellor for research.

Call Bill at 974-2187 with any questions.

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