

# Spirit of INNOVATION

Research, Creativity and Commercialization News

OFFICE OF RESEARCH ADMINISTRATION NEWSLETTER April 2007 (Volume VI, No. 10)

The **Office of Research Administration** supports and advocates research and technology transfer by faculty, graduate students and staff. The ORA provides services in conjunction with external and internal sources of funding for research, along with services related to commercializing discoveries through technology transfer. The goal of this newsletter is to inform the campus community of grants received, to highlight the accomplishments of our faculty, graduate students and staff, and to share with you a calendar of important events and deadlines. Please direct any comments or questions regarding the newsletter to Tamara Wilgers ([wilgerst@umsl.edu](mailto:wilgerst@umsl.edu)).

## RECENT AWARDS

February 2007 External Funding Where it Came From	
Association	\$9,990
Corporation	\$121,898
Federal	\$115,898
Foundation	\$99,006
Other University	\$115,875
State of Missouri	\$984
<b>TOTAL</b>	<b>\$463,262</b>

February 2007 External Funding Where it's Going	
Instruction	\$97,875
Other Sponsored Activity	\$66,381
Research	\$299,006
<b>TOTAL</b>	<b>\$463,262</b>

### EXTERNALLY FUNDED AWARDS, February 2007

**Marvin Berkowitz**, Educational Psychology, awarded \$55,407 for "A Proposal for the Social & Character Development (SACD)" by Mathematica Policy Research Incorporated.

**Marvin Berkowitz and Victor Battistich**, Educational Psychology, awarded \$99,006 for "National Schools of Character Evaluation" by the Suzanne and Richard Peiper Family Foundation.

**James Campbell**, Center for Transportation Studies, awarded \$66,491 for "Tanker Deployment Planning" by L-3 Communications.

**Deborah Clark and David Clark**, Biology, awarded \$85,509 for "Long-term annual performance of tropical rainforest trees: a cross-scale analysis" by the National Science Foundation.

**Jerry Dunn**, Child Advocacy Center, awarded \$984 for "Sexual Assault Victim Services for Child Sexual Abuse Victims" by the Missouri Department of Health and Senior Services.

**Hal Harris**, Chemistry and Teaching & Learning, awarded \$9,990 for "Chemistry Textbooks in Print-On-Line" by the Journal of Chemical Education.

**Ray Mundy**, Center for Transportation Studies, awarded \$97,875 for "The Midwest Consortium" by Iowa State University.

**Martin Pelikan**, Mathematics & Computer Science, awarded \$18,000 for "Supermultiplicative Speedups from Integrated Probabilistic Model Building and Multimodal Efficiency Enhancement" by the University of Illinois at Urbana-Champaign.

**Daniel Rust**, Center for Transportation Studies, awarded \$30,000 for "Transportation Survey" by the U.S. Department of Transportation.

**Total Awarded: \$463,262**

**UM-St. LOUIS SMALL GRANTS, Spring 2007**

**Godfrey Bourne**, Biology (Conference/Travel)  
**Wilma Calvert**, Nursing (Professional Development)  
**Joseph Carroll**, English (Conference/Travel)  
**Cody Ding**, Psychology (Conference/Travel)  
**Suellyn Duffey**, English (Conference/Travel)  
**Sally Ebest**, English (Conference/Travel)  
**Yael Even**, Art and Art History (Conference/Travel)  
**Thomas Fletcher**, Psychology (Conference/Travel)  
**Frank Fu**, Marketing (Conference/Travel)  
**Kathy Gentile**, English (Conference/Travel)  
**Michael Harris**, Management (Conference/Travel)  
**Andrew Hurley**, History (Conference/Travel)  
**Cezary Janikow**, Mathematics/Computer Science (Conference/Travel)  
**Marius Janson**, Information System (Conference/Travel)  
**Gooyeon Kim**, Teaching and Learning (Conference/Travel)  
**David Kimball**, Political Science (Conference/Travel)  
**Robert Marquis**, Biology (Conference/Travel)  
**Carole Murphy**, Educational Leadership (Conference/Travel)  
**Michael Nichols**, Chemistry/Biochemistry (Conference/Travel)  
**Robert Northcott**, Philosophy (Conference/Travel)  
**Michael Ohnersorgen**, Anthropology (Conference/Travel)  
**Wendy Olivas**, Biology (Conference/Travel)  
**Martin Pelikan**, Mathematics/Computer Science (Conference/Travel)  
**Shirley Porterfield**, Social Work (Conference/Travel)  
**Stephanie Ross**, Philosophy (Conference/Travel)  
**Joseph Rottman**, Information Systems (Conference/Travel)  
**Lisa Schechter**, Biology (Conference/Travel)  
**Uma Segal**, Social Work (Conference/Travel)  
**Susan Waller**, Art and Art History (Conference/Travel)  
**Timothy Wingert**, Optometry (Conference/Travel)  
**Chung Wong**, Chemistry/Biochemistry (Conference/Travel)  
**Gaiyan Zhang**, Finance (Conference/Travel)

**Total Awarded: \$14,970**

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## FUNDING OPPORTUNITIES

Opportunities listed are a sampling only. For additional opportunities, visit [Grants.gov](http://www.grants.gov) (<http://www.grants.gov>), [Grant Advisor Plus](http://www.grantadvisor.com/tgaplus/) (<http://www.grantadvisor.com/tgaplus/>), [InfoEd](http://www.infoed.org/new_spin/spinmain.asp) ([http://www.infoed.org/new\\_spin/spinmain.asp](http://www.infoed.org/new_spin/spinmain.asp)) and the RFP Bulletin of the [Foundation Center](http://www.fdncenter.org/pnd/rfp/index.jhtml) (<http://www.fdncenter.org/pnd/rfp/index.jhtml>), or contact [Tamara Kratochvil](mailto:kratochvilt@umsl.edu) ([kratochvilt@umsl.edu](mailto:kratochvilt@umsl.edu)) for a customized database search.

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**FOR HELP GETTING SET UP TO RECEIVE CUSTOM EMAIL ALERTS FOR FEDERAL GRANT OPPORTUNITIES, CONTACT BRENDA STUTTE AT 516-5897 OR [STUTTE@UMSL.EDU](mailto:STUTTE@UMSL.EDU).**

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### EXTERNAL FUNDING OPPORTUNITIES

#### Agency for International Development (USAID)

- Pakistan USAID-Islamabad, LINKS TO LEARNING: Education Support to Pakistan (ED-LINKS) Grant  
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=13090>
- Sudan USAID-Khartoum, Gender Equity through Education Grant  
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=13208>

#### Department of Agriculture (USDA)

- Animal and Plant Health Inspection Service Cooperative Agreement for a Benefit Cost Analysis of the National Animal Identification System (NAIS) Grant  
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=13141>
- CSREES National Needs Graduate Fellowships Grants Program Grant  
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=12860>
- Program of Research on the Economics of Invasive Species Management Grant  
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=13111>

#### Department of Commerce (DOC)

- Public Telecommunications Facilities Program Grant  
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=12821>

#### Department of Defense (DOD)

Air Force – Research Lab

- Advanced Component Technology for Sensor Systems (ACTSS)  
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=13077>
- Armament Technology Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=12769>
- Revolutionary Guidance and Ordnance Technology Grant  
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=12766>

Defense Advanced Research Projects Agency (DARPA)

- Information Processing Technology Office Cognitive Information Processing Technology Grant  
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=13215>
- Innovative Tactical Technologies Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=12886>

Department of the Army

- Neurofibromatosis Research Program (NFRP) Investigator Initiated Research Award  
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=12762>
- Neurofibromatosis Research Program (NFRP) New Investigator Award  
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=12763>
- Orthopaedic Trauma Research Program-2007 Supplement to BAA 06-1 Grant  
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=13218>
- U.S. Army Research Office Broad Agency Announcement for Improvised Explosive Devices (IEDs) Grant  
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=12923>

National Geospatial Intelligence Agency

- FY 2007 NURI Program Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=13129>

Office of Naval Research

- Acquisition Research Program Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=13034>
- Communications and Networking Technology  
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=12359>

**WHEN PREPARING A GRANT PROPOSAL, YOU MUST SUBMIT YOUR BUDGET TO GINNY SCHODROSKI AT LEAST **2 WEEKS BEFORE** THE PROPOSAL SUBMISSION DEADLINE. ANY EXCEPTION MUST BE APPROVED BY VICE PROVOST NASSER ARSHADI.**

[ginny@umsl.edu](mailto:ginny@umsl.edu) or x.5284

- Consolidated Satellite Communication (SATCOM) Apertures Grant  
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=12906>
- FY 08 Basic and Applied Research in Under Sea Medicine Broad Agency Announcement Grant  
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=13209>
- Research on Edge Organizations in the Context of Network-Centric Operations  
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=13024>

#### **Department of Education (ED)**

- Children with disabilities; technical assistance and dissemination to improve services and results CFDA 84.326E Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=13115>
- Personnel Development to Improve Services and Results for Children with Disabilities Program CFDA 84.325J Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=12822>
- Rehabilitation Short-Term Training Program CFDA 84.246D Grant  
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=12937>
- School-Based Student Drug-Testing Programs CFDA 84.184D  
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=12915>
- Technical Assistance and Dissemination to Improve Services and Results for Children with Disabilities Program CFDA 84.326M <http://www.grants.gov/search/search.do?mode=VIEW&oppld=13158>
- Technology and Media Services for Individuals with Disabilities Program CFDA 84.327C  
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=13113>

#### **Department of Energy (DOE)**

- Atmospheric Science Program Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=13122>
- Operating and Runtime Systems for Extreme Scale Scientific Computation Grant  
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=12881>
- Scientific Discovery through Advanced Computing: Plasma Turbulence and Transport Grant  
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=12871>
- Scientific Discovery Through Advanced Computing: Computational Magnetohydrodynamics Grant  
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=12861>
- Scientific Discovery Through Advanced Computing: Computational Physics of Energetic Particles in Plasmas Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=12874>
- Scientific Discovery Through Advanced Computing: Electromagnetic Waves in Plasmas, Computational Physics and Applications Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=12859>

#### **Department of Health and Human Services (HHS)**

##### Administration for Children and Families

- Community-Based Abstinence Education Program Grant  
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=12942>
- Compassion Capital Fund (CCF) Demonstration Program Grant  
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=12772>
- Head Start Graduate Student Research Grants  
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=12469>
- Transitional Living Program and Maternity Group Homes Grant  
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=12943>

##### Agency for Healthcare Research and Quality

- Health Services Research (R01) Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=12916>
- Health Services Research Demonstration and Dissemination Grants (R18) Grant  
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=12917>

##### Centers for Disease Control and Prevention

- Applied Research in Antimicrobial Resistance: Studies of Susceptibility Testing on Gram-negative Multidrug Resistant Organisms Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=12753>
- Assessment of Proposed Revisions to the Youth Tobacco Survey: Impact Measures of Youth Tobacco Use Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=13041>
- CDC Grants for Public Health Research Dissertation (R36) Grant  
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=12745>
- Racial and Ethnic Approaches to Community Health Across the US (REACH US) Grant  
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=12909>

##### National Institutes of Health

- 2007 NIH Director's New Innovator Award Program (DP2) Grant  
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=12913>
- Development of Assays for High-Throughput Drug Screening (R01) Grant  
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=13092>
- Epidemiology Of Drug Abuse (R03) <http://www.grants.gov/search/search.do?mode=VIEW&oppld=8923>

- Global Research Initiative Program, Basic/Biomedical Sciences (R01) Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=12773>
- High-Priority Phenotype and Exposure Measures for Cross-Study Analysis in Genome-Wide Association Studies (U01) Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=13110>
- MARC Undergraduate Student Training in Academic Research, Institutional National Research Service Award (NRSA) Research Training Grant (T34) Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=13210>
- NLM Grants for Scholarly Works in Biomedicine and Health (G13) Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=12768>
- NLM Knowledge Management and Applied Informatics Grants (G08) Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=12767>
- Non-Biodefense Emerging Infectious Diseases Research Opportunities (R01) Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=12852>
- Planning Grant for Integrated Advanced Information Management Systems (IAIMS)(G08) Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=12770>
- Technologies and Software to Support Integrative Cancer Biology Research (SBIR) [R43/R44] Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=12844>
- Technology Development for the Detection and Evaluation of Chemical and Biological Carcinogens (SBIR) [R43/R44] Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=12840>
- Technology for the Detection and Characterization of Low Abundance Proteins, Peptides, or micro RNAs (SBIR) [R43/R44] Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=12841>

#### Substance Abuse & Mental Health Services Administration

- Addiction Technology Transfer Centers (Short title: ATTC) Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=12946>
- National Child Traumatic Stress Initiative Community Treatment and Services Center Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=13103>

#### Department of Homeland Security (DHS)

- University Research in Homeland Security Science & Technology Mission Areas Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=13125>

#### Department of Housing and Urban Development (HUD)

- Operation Lead Elimination Action Grant Program Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=13014>
- OVC FY 07 State Victim Assistance Academy (SVAA) New Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=13030>

#### Department of State (DOS)

##### Bureau of Educational and Cultural Affairs

- Faith and Community: A Dialogue Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=12924>
- Youth Leadership Program for Indonesia Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=12793>
- Youth Leadership Program for Venezuela, Ecuador, Peru, Bolivia, and Nicaragua Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=12792>

#### Department of the Interior (DOI)

##### U. S. Geological Survey

- 2008 National Earthquake Hazards Reduction Program Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=12783>

#### Department of Transportation (DOT)

- Highways for LIFE Technology Partnerships Program <http://www.grants.gov/search/search.do?mode=VIEW&oppld=12801>
- Integrating Transportation and Resource Planning to Develop Ecosystem Based Infrastructure Projects Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=13223>

#### Environmental Protection Agency (EPA)

- Building Capacity to Address Environmental Health Issues During Pregnancy <http://www.grants.gov/search/search.do?mode=VIEW&oppld=12774>
- Development and Evaluation of Innovative Approaches for the Quantitative Assessment of Pathogens and Cyanobacteria and Their Toxins in Drinking Water Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=13091>

### **Institute of Museum and Library Services (IMLS)**

- Conservation Bookshelf Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=12930>

### **National Aeronautics and Space Administration (NASA)**

- National Aeronautics and Space Administration NASA Headquarters ROA 2006: Airspace Systems - NGATS ATM: Airspace Project 2 <http://www.grants.gov/search/search.do?mode=VIEW&oppld=13193>
- ROSES 2007: Astrophysics Theory and Fundamental Physics Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=12944>
- ROSES 2007: Atmospheric Composition: Science Advisory Group for the Glory Science Mission Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=12907>
- ROSES 2007: Carbon Cycle Science Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=13028>
- ROSES 2007: Cassini Data Analysis Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=12945>
- ROSES 2007: Discovery Data Analysis Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=12869>
- ROSES 2007: Fellowships for Early Career Researchers Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=12908>
- ROSES 2007: Physical Oceanography Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=13029>
- ROSES 2007: Planetary Astronomy Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=13095>
- ROSES 2007: Planetary Atmospheres Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=13151>
- ROSES 2007: Planetary Geology and Geophysics <http://www.grants.gov/search/search.do?mode=VIEW&oppld=12663>
- ROSES 2007: Tropospheric Chemistry: Arctic Research of the Composition of the Troposphere from Aircraft and Satellites Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=13096>

### **National Archives and Records Administration (NARA)**

- Archives - Basic Projects <http://www.grants.gov/search/search.do?mode=VIEW&oppld=12736>
- Archives- Detailed Processing Projects Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=12738>

### **National Science Foundation (NSF)**

- Antarctic Artists and Writers Program Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=13023>
- Antarctic Research Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=12888>
- Biological Oceanography <http://www.grants.gov/search/search.do?mode=VIEW&oppld=7720>
- Broadening Participation in Computing Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=12876>
- Chemistry Research Instrumentation and Facilities: Departmental Multi-user Instrumentation Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=13022>
- Chemistry Research Instrumentation and Facilities: Instrument Development (CRIF:ID) <http://www.grants.gov/search/search.do?mode=VIEW&oppld=1315>
- Continental Dynamics <http://www.grants.gov/search/search.do?mode=VIEW&oppld=2354>
- Discovery Research K-12 <http://www.grants.gov/search/search.do?mode=VIEW&oppld=10548>
- Dynamical Systems <http://www.grants.gov/search/search.do?mode=VIEW&oppld=7633>
- Interdisciplinary Grants in the Mathematical Sciences <http://www.grants.gov/search/search.do?mode=VIEW&oppld=3705>
- Marine Geology and Geophysics <http://www.grants.gov/search/search.do?mode=VIEW&oppld=10646>
- Materials Processing and Manufacturing <http://www.grants.gov/search/search.do?mode=VIEW&oppld=7640>
- NanoManufacturing <http://www.grants.gov/search/search.do?mode=VIEW&oppld=7641>
- Nanotechnology Undergraduate Education (NUE) in Engineering Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=13027>
- NSF Astronomy and Astrophysics Postdoctoral Fellowships <http://www.grants.gov/search/search.do?mode=VIEW&oppld=3654>
- NSF Scholarships in Science, Technology, Engineering, and Mathematics (S-STEM) <http://www.grants.gov/search/search.do?mode=VIEW&oppld=11543>
- Ocean Drilling Program <http://www.grants.gov/search/search.do?mode=VIEW&oppld=10651>
- Physical Oceanography <http://www.grants.gov/search/search.do?mode=VIEW&oppld=10665>
- Program for Research and Education with Small Telescopes (PREST) <http://www.grants.gov/search/search.do?mode=VIEW&oppld=1309>

- Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) Programs Phase I Solicitation FY-2008 Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=13139>
- Sociology <http://www.grants.gov/search/search.do?mode=VIEW&oppld=3009>

**NEW ANNOUNCEMENTS: FOUNDATIONS & OTHER: DEADLINE MEMO**

<http://www.grantadvisor.com/tgaplus/drill.pdf>

**GRANT SUBMISSION POLICY**

**PeopleSoft Signature Routing Sheet (PSRS)**

Must be delivered to the Office of Research BEFORE the grant will be submitted. Applies to any grant being submitted to any agency. Must include ALL signatures (all PIs Co-PIs, Dept. Chairs, Deans of each person, dept, and/or school who has time/resources committed through direct costs or cost sharing/match).

**Budgets: SUBMIT YOUR BUDGET TO GINNY SCHODROSKI TWO WEEKS PRIOR TO SUBMISSION DEADLINE.** Large or complex budgets should be finalized a week before submission so that the PSRS can be prepared and routed for ALL required signatures. Proposal review time must be allowed before asking someone to commit their unit.

**Note:** If you are going to be away from the University at the time of submission, you must arrange before leaving to sign the PSRS signature page.

**Questions?** Contact Ginny Schodroski at 516-5284 or [ginny@umsl.edu](mailto:ginny@umsl.edu).

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## RESEARCH AND COMMERCIALIZATION NEWS

### UNIVERSITY OF MISSOURI NEWS

- UM-St. Louis Center Expands Scope by Going Nano
- Compliance Training RESCHEDULED for April 10 (OMB Circular A-133)
- The Scientist Survey Unveils Top 40 Postdoc Institutions (UM Jumps in Ranking)

### OTHER NEWS OF INTEREST

- MIT's Technology Review Releases Emerging Technologies Report
- NIH Issues Fiscal Policy for FY07
- NSF Releases Statistics on Women, Minorities and Persons with Disabilities
- NIH Director Launches Program for Innovative New Investigators
- PATENTS: Lawmakers Eye Incentives for Kids' Therapies
- U.S. Biotech Industry Faces Shortage of Qualified Scientists

### **UM-St. Louis Center Expands Scope by Going Nano**

To better reflect current and planned research, the Center for Molecular Electronics (CME) on the UM-St. Louis campus has been renamed the Center for NanoScience (CNS). The Center is located in the William L. Clay Building next to Benton Hall.

According to CNS Director, Dr. Jimmy Liu, and Associate Director, Dr. George Gokel, molecular electronics is a small subset of nano-electronics. Center research is more aptly described within the broader category of nanoscale science/nanotechnology.

Nanoscience, or science on a molecular and atomic scale that deals with dimensions and tolerances of 0.1 to 100 nanometers, is interdisciplinary and encompasses all branches of sciences. Liu and Gokel note that a successful nanoscience or nanotechnology research program will include chemists, biologists, materials scientists, physicists as well as engineers. The change from "Center for Molecular Electronics" to "Center for NanoScience" signifies the broader intellectual base of nanoscience.

The CNS will host an open house once renovations have been completed. Watch for more information.

#### Background Information

The William L. Clay Center for Molecular Electronics building was completed in early summer 1997. Congressman Clay had helped secure funding of \$10 million in 1991, of which approximately \$7.5 million was used for construction with the balance used to furnish the building and some research instruments. The building has approximately 16,000 square feet assignable space, (11,300 square feet for research laboratories; 2,700 square feet for research support space). In addition, there are 12 offices, two secretarial suites, a conference room, the Microscopy Image and Spectroscopy Technology (MIST) Lab and the X-ray Diffraction Facility. ●

### **Compliance Training RESCHEDULED for April 10 (OMB Circular A-133)**

The Office of Research Administration will host a training session on Tuesday, April 10, for all researchers who have a federally funded or flow-through grant and all faculty and staff who work administratively with grant funds (e.g., PIs, department assistants, fiscal officers, etc.).

Facilitated by Susan Eickhoff, Partner, KPMG (the University's external auditor), the training will focus on UM-St. Louis' FY 2005 A-133 audit of federal grants and related compliance issues. The A-21 also will be discussed as it relates to the audit.

By the end of the course, participants will be familiar with:

- The objectives and importance of an A-133 audit;
- The OMB compliance supplement;
- The 14 compliance requirements; and
- The findings related to the University's June 30, 2005, Single Audit Report.

WHAT:	<b>University of Missouri OMB Circular A-133 Training</b>
WHEN:	Tuesday, April 10, 2007 9 a.m. to 2:30 p.m. Lunch will be provided.
	An abridged session from 3 to 3:45 p.m. is available for faculty members with teaching schedule conflicts.
WHERE:	J.C. Penney Bldg., Summit Lounge
WHO SHOULD ATTEND:	EVERYONE who has a federally funded or flow-through grant or who works administratively with grant funds. (PIs, department assistants, fiscal officers, etc.)
RSVP:	By Wed., April 4, to <a href="#">Karen Boyd</a> (ext. 5923). (Accurate attendance count required for handouts and lunch.)

### ***The Scientist* Survey Unveils Top 40 Postdoc Institutions (UM Jumps in Ranking)**

*The Scientist's* fifth annual survey (March 2007, Vol. 21) names the top 40 institutions in North America, as ranked by postdocs. For the first time ever, a for-profit company made the top 15. The most sought-after qualities by postdocs included: mentors that would help, colleagues who knew their stuff, well-equipped research facilities, the ability to explore new research, and adequate compensation and benefits. The University of Missouri jumped from No. 42 in 2006 to No. 16 this year. ●

VIEW ENTIRE SURVEY RESULTS: [http://www.the-scientist.com/supplementary/pdf/52902/03\\_2007\\_51.pdf](http://www.the-scientist.com/supplementary/pdf/52902/03_2007_51.pdf)

READ "BEST PLACES TO WORK 2007: POSTDOCS": <http://www.the-scientist.com/2007/3/1/49/1/>

### **MIT's *Technology Review* Releases Emerging Technologies Report**

MIT's *Technology Review* has released its annual "10 Emerging Technologies" report, documenting innovations that are expected to make a lasting industrial impact on the future. ●

READ REPORT: <http://www.technologyreview.com/special/emerging/>

### **NIH Issues Fiscal Policy for FY07**

March 02, 2007

The National Institutes of Health (NIH) late last week announced its fiscal policy for FY07. The policy announcement was occasioned by the President's signing into law the FY07 continuing resolution that funds agencies and programs in the unfinished FY07 appropriations bills, including NIH.

Specifically, NIH announced that it will fund non-competing grants or "continuations" at 97.1 percent of their FY07 committed levels. This 2.9-percent cut is necessary, says the agency, because of a "markedly increased number of applications and applicants for grant support" and a commitment "to buttressing core areas of vulnerability, such as the ability of new investigators to compete for support in these difficult financial times, and protecting our investment in well-established investigators with little or no other significant support." NIH also announced that it will maintain the salary cap on grants at Executive Level I, or \$186,000, for FY07. ●

READ POLICIES AND RELATED DOCUMENTS: <http://grants.nih.gov/grants/guide/notice-files/NOT-OD-07-049.html>

### **NSF Releases Statistics on Women, Minorities and Persons with Disabilities**

The National Science Foundation (NSF) released the latest statistics on women, minorities and persons with disabilities in science and engineering. The report focuses on education and employment statistics for these groups. Figures and tables detail degrees earned, occupations, age, country of birth and salary. The latest figures are from 2004, and were updated in December 2006. A complete update of the report is issued by NSF every two years. NSF obtains the data from many sources, including NSF surveys, other federal agencies, and non-federal organizations. ●

VIEW REPORT: <http://www.nsf.gov/statistics/wmpd/>

### **NIH Director Launches Program for Innovative New Investigators**

From *NIH News*  
March 9, 2007

National Institutes of Health (NIH) Director Elias A. Zerhouni, M.D., today announced a special program to fund new investigators who propose highly innovative research projects that could have an exceptionally great impact on biomedical or behavioral science. The NIH Director's New Innovator Award offers grants of up to \$1.5 million in direct costs over five years.

"New investigators are the future of science, and innovative ideas are its lifeblood. This flagship program underscores NIH's commitment to supporting these two critical elements of the research enterprise. The New Innovator Award, funded through the NIH Roadmap Common Fund, complements longstanding activities in both areas at the NIH level and at its institutes and centers," said Zerhouni. The application period opens on April 25 and closes on May 22, 2007. NIH expects to make at least 14 awards in September 2007.

New investigators who have not yet obtained an NIH R01 or similar grant are eligible to apply.

Applicants must hold an independent research position at an institution in the United States and must have received a doctoral degree or completed a medical internship and residency in 1997 or later.

"We want proposals in a broad range of scientific areas relevant to the NIH mission and from a diverse pool of applicants," Zerhouni said. "We're shortening the application and emphasizing the significance of the research, what makes the approach exceptionally innovative, how the applicant will address challenges and risks, and the applicant's qualifications for the grant. We aren't requiring applicants to present preliminary data, although we'll allow it if they choose to do so," he added. ●

APPLICATION INSTRUCTIONS: <http://grants.nih.gov/grants/guide/rfa-files/RFA-RM-07-009.html>

MORE INFORMATION: [http://grants.nih.gov/grants/new\\_investigators/innovator\\_award/](http://grants.nih.gov/grants/new_investigators/innovator_award/)

### **PATENTS: Lawmakers Eye Incentives for Kids' Therapies**

Excerpted from Reuters

March 27, 2007

By SUSAN HEAVEY

Read Entire Article Online:

<http://www.reuters.com/article/governmentFilingsNews/idUSN2720631420070327>

WASHINGTON (Reuters) - Patent extensions for drug companies that test their medicines for use in children should be continued, U.S. lawmakers heard on Tuesday at a hearing that also considered incentives for devicemakers.

The provision, set to expire in September, allows pharmaceutical companies to receive a six-month patent extension in exchange for conducting clinical trials of their therapies for younger patients. Such studies are key for doctors and parents to choose the best and most effective treatments for children. Without them, physicians must decide what therapy to use and how much based only on data gathered on adults.

At a hearing of the Senate Health, Education, Labor and Pensions Committee, medical and industry experts urged lawmakers to renew the practice of allowing drugmakers to hold exclusive rights longer in return for the information.

"Children's differing metabolism, growth and development, and size have very large effects," Dr. Richard Gorman said on behalf of the American Academy of Pediatrics, adding that nearly two-thirds of medicines used in children are not specifically labeled for them.

Gorman, a Maryland pediatrician, told lawmakers the system had generated "a flood" of new data that has helped doctors avoid potentially harmful side effects.

Still, some critics say the protection not only gives companies an unnecessary windfall but also impedes access by delaying the introduction of cheaper generic drugs. READ MORE:  
<http://www.reuters.com/article/governmentFilingsNews/idUSN2720631420070327> ●

### **U.S. Biotech Industry Faces Shortage of Qualified Scientists *Genentech, Gilead Struggle to Hire as Biotech Booms***

Excerpted from Bloomberg.com

March 30, 2007

By LUKE TIMMERMAN

Biotechnology companies including Genentech Inc. and Gilead Sciences Inc. can't find enough scientists to hire, threatening to slow one of the industries bolstering U.S. job growth. Genentech's workforce doubled in the past four years to 10,500 and may rise 11 percent this year -- if managers can locate biomedical scientists. Gilead bought two companies last year, partly to get 200 skilled employees.

The biotech business, which generated \$51 billion in U.S. sales in 2005, is one of the fastest-growing U.S. industries, creating 40,000 jobs from 2001 to 2004, according to Battelle Memorial Institute in Columbus, Ohio. Genentech says the lack of qualified applicants means the company is "scrambling" to grow. A drop over the past decade in the percentage of U.S. college graduates pursuing science is making the task harder.

"The big failing is in education, not only post-grad but also undergraduate, and even K-12," said Robert Reich, the former U.S. Labor secretary who is a professor at the University of California, Berkeley, in an e-mail. "We do a lousy job of training our kids to be scientists." READ MORE:  
[http://www.bloomberg.com/apps/news?pid=20601103&sid=a\\_.GiV85q2bM&refer=news](http://www.bloomberg.com/apps/news?pid=20601103&sid=a_.GiV85q2bM&refer=news) ●

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