

Spirit of INNOVATION

Research, Creativity and Commercialization News

OFFICE OF RESEARCH ADMINISTRATION NEWSLETTER November 2006 (Volume VI, No. 5)

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 Kratochvil (kratochvilt@umsl.edu).

VOTE ON NOV. 7

Several important issues are on the ballot, including **Constitutional Amendment 2**, which would:

- allow patients and researchers access to any method of stem cell research, therapies and cures permitted under federal law
- set limits on stem cell research, therapies, and cures;
- require expert and public oversight and annual reports on stem cell research
- ban human cloning or attempted cloning
- impose penalties for violations

For more information on this and other ballot measures, visit the Missouri Secretary of State's web site: <http://www.sos.mo.gov/elections/2006ballot/>

RECENT AWARDS

EXTERNALLY FUNDED AWARDS, September 2006

Jerry Dunn, Child Advocacy Center, awarded \$5,000 for "Services for Survivors of Child Victimization" by the Employees Community Fund of Boeing St. Louis.

Barbara Flowers and Mary Suiter, Continuing Education & Outreach, awarded \$42,000 for "The American Dream Youthpreneurship Program" by the Coleman Foundation.

Joel Glassman, Center for International Studies, awarded \$12,682 for "Host IREX Undergraduate Student AY2006-2007" by the International Research and Exchanges Board.

Joel Glassman, Center for International Studies, awarded \$19,298 for "To host IREX-Sponsored Graduate Muskie Fellows at UMSL, AY2006-2007" by the International Research and Exchanges Board.

Charles Granger, Biology, Teaching & Learning and Continuing Education & Outreach, awarded \$28,000 for "Missouri Regional Junior Science, Engineering and Humanities Symposium" by the Academy of Applied Science.

Deborah Henry, Continuing Education & Outreach, awarded \$6,552 for "28th Annual St. Louis Storytelling Festival" by the Missouri Arts Council.

John Hoover and Gregory Ames, Mercantile Library, awarded \$56,542 for "Bureau of Railway Economics (BRE) Collection" by the Missouri State Library.

John Hoover and Gregory Ames, Mercantile Library, awarded \$80,000 for "The West the Railroads Made" by the M. J. Murdock Charitable Trust.

Bette Loiselle, Biology, awarded \$113,751 for "Intergovernmental Personnel Act (IPA) Loiselle" by the National Science Foundation.

Robert Marquis, Biology, awarded \$254,871 for "Contingency and the Impact of Ecosystem Engineers: The Role of Plant Traits" by the National Science Foundation.

Robert Paul, Psychology, awarded \$226,500 for "Functional Neuroimaging of Cognitive Dysfunction in HIV-HCV Co-Infection" by the National Institute on Drug Abuse.

Joseph Polman, Teaching & Learning, awarded \$40,000 for "The Mediated Critique and Construction of Empirical Narratives" by the Spencer Foundation.

Mark Pope, Counseling-College of Education, awarded \$6,634 for "Counselor Tuition Reimbursement" by the Missouri Department of Elementary and Secondary Education.

Patricia Simmons and Charles Granger, Teaching & Learning, awarded \$116,574 for "St. Louis Center for Inquiry in Science Teaching and Learning" by Washington University.

Diane Toulaiatos, Center for the Humanities, awarded \$2,741 for "The Monday Noon Cultural Series" by the Missouri Arts Council.

Mark Tranel, Public Policy Research Centers, awarded \$230,000 for "Sales Ration Study of Commercial Properties" by the Joseph C. Sansone Company.

Patricia Wentz, KWMU FM Radio, awarded \$341,160 for "Radio Community Service Grant Agreement - FY06" by the Corporation for Public Broadcasting.

Patricia Wentz, KWMU FM Radio, awarded \$29,153 for "Cityscape" by the Missouri Arts Council.

Total: \$1,611,458

UM-ST. LOUIS SMALL GRANTS, FALL 2006

Kimberly Baldus, Honors College (Conference Expenses)

Berit Brogaard, Philosophy (Conference Expenses)

Adrian Clinger, Mathematics & Computer Science (Conference Expenses)

Deborah Cohen, Women's & Gender Studies (Conference Expenses)

Ronald Dotzel, Mathematics & Computer Science (Conference Expenses)

Brian Fogarty, Political Science (Conference Expenses)

Gerald Yong Gao, College of Business Administration (Conference Expenses)

Kuei Hsiang Hsueh, College of Nursing (Professional Development)

Farida Jalalzai, Political Science (Conference Expenses)

Su Ahn Jang, Communication (Conference Expenses)

Sharon Johnson, Social Work (Conference Expenses)

Minsoo Kang, History (Conference Expenses)

Hyung Kang, Mathematics & Computer Science (Conference Expenses)

Lea-Rachel Kosnick, Economics (Conference Expenses)

Haim Mano, College of Business Administration (Conference Expenses)

Jennifer McKnight, Art & Art History (Conference Expenses)

Thomas McPhail, Media Studies (Conference Expenses)

Maite Nunez-Betelu, Foreign Languages & Literature (Conference Expenses)

Amber Reinhart, Communication (Conference Expenses)

David Brian Robertson, Political Science (Conference Expenses)

William H. Rogers, Economics (Conference Expenses)

Jeffrey Sippel, Art & Art History (Conference Expenses)

Yan Tian, Communication (Conference Expenses)

Mary Troy, English (Conference Expenses)

Allon Uhlmann, Anthropology (Conference Expenses)

Eric Wiland, Philosophy (Conference Expenses)
 Anne Winkler, Economics (Conference Expenses)
 Jina Yoo, Communication (Conference Expenses)

Total: \$22,991

QUARTERLY EXTERNAL FUNDING REPORT, Q1 FY2007

CSD	Department	# of Awards	\$ Awarded
Center for the Humanities		1.00	2,741
	<i>Center for the Humanities</i>	1.00	2,741
Center for International Studies		3.00	48,481
	<i>Center for International Studies</i>	3.00	48,481
College of Arts & Sciences		25.84	5,608,641
	<i>Biology</i>	9.84	1,458,307
	<i>Chemistry</i>	5.00	743,110
	<i>Child Advocacy Center</i>	5.00	432,468
	<i>Criminology & Criminal Justice</i>	1.00	2,497,585
	<i>History</i>	1.00	52,703
	<i>Physics and Astronomy</i>	2.00	57,538
	<i>Psychology</i>	1.00	226,500
	<i>Social Work</i>	1.00	140,430
College of Education		5.83	1,326,098
	<i>Teaching & Learning</i>	4.83	1,319,464
	<i>Counseling-College of Education</i>	1.00	6,634
College of Nursing		1.00	64,906
	<i>College of Nursing</i>	1.00	64,906
Extension Division		5.33	134,820
	<i>Continuing Education & Outreach</i>	5.33	134,820
KWMU Radio		2.00	370,313
	<i>KWMU FM Radio</i>	2.00	370,313
Libraries		2.00	136,542
	<i>Mercantile Library</i>	2.00	136,542
Public Policy Research Centers		1.00	230,000
	<i>Public Policy Research Centers</i>	1.00	230,000
Vice Provost Student Affairs		4.00	5,712,298
	<i>Student Financial Aid</i>	3.00	5,478,069
	<i>Student Support Services</i>	1.00	234,229
VP Research		1.00	924,096
	<i>Missouri Enterprise</i>	1.00	924,096
Grand Total		52.00	14,558,936

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) 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) for a customized database search.

NEW ANNOUNCEMENTS: GOVERNMENT AGENCIES

Agency for International Development (USAID)

- Botswana USAID-Gaborone, HIV/AIDS Prevention, Care and Support Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppId=11243>
- Egypt USAID-Cairo Lebanon Education Assistance for Development Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppId=11206>
- Kazakhstan USAID-Almaty, Civic Advocacy Program in Kyrgyzstan Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppId=11242>
- Kazakhstan USAID-Almaty, Policy Dialogue Program in Kazakhstan Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppId=11241>

Department of Agriculture (USDA)

- Integrated Organic Program Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppId=11234>
- Integrated Research, Education, and Extension Competitive Grants Program: National Integrated Food Safety Initiative <http://www.grants.gov/search/search.do?mode=VIEW&oppId=11217>
- Secondary and Two-Year Postsecondary Agriculture Education Challenge Grants Program Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppId=11233>
- Special Research Grants Program - Potato Research Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppId=11186>

Department of Commerce (DOC)

- National Oceanic and Atmospheric Administration Environmental Literacy Grants for Free-Choice Learning <http://www.grants.gov/search/search.do?mode=VIEW&oppId=11257>
- National Oceanic and Atmospheric Administration Environmental Literacy Grants for Formal K-12 Education Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppId=11253>

Department of Defense (DOD)

- Air Force -- Research Lab Affordable Sensor Technology Development (ASTD) Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppId=11245>
- Air Force -- Research Lab Materials and Processes for Integrated High Payoff Rocket Propulsion Technology (IHRPT) <http://www.grants.gov/search/search.do?mode=VIEW&oppId=2634>
- Air Force Office of Scientific Research Centers for Biomedical Research with Free Electron Lasers Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppId=11249>
- Air Force Office of Scientific Research Fiscal Year 2007 Test and Evaluation (T&E) Research Program Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppId=11309>
- Air Force Office of Scientific Research free Electron Laser-Related Biomedical Research Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppId=11250>
- Defense Advanced Research Projects Agency DARPA - Microsystems Technology Office Micro-Sensors for Imaging (MISI) Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppId=11137>
- Office of Naval Research ONR's Young Investigator Program Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppId=11246>
- Proactive Intelligence (PAINT) Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppId=11263>
- Sensors As Robots Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppId=11264>

Department of Education (ED)

- Undergraduate International Studies and Foreign Language (UISFL) Program--84.016A Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppId=11191>

Department of Energy (DOE)

- Annual Notice Submission of Renewal and Supplemental Applications for Office of Science Grants and Cooperative Agreements Grant
<http://www.grants.gov/search/search.do?mode=VIEW&oppId=11136>
- Basic Research for Advanced Nuclear Energy Systems Grant
<http://www.grants.gov/search/search.do?mode=VIEW&oppId=11187>
- Continuation of Solicitation for the Office of Science Financial Assistance Program Grant
<http://www.grants.gov/search/search.do?mode=VIEW&oppId=11135>
- Plant Feedstock Genomics for Bioenergy: A Joint Research Solicitation - USDA, DOE Grant
<http://www.grants.gov/search/search.do?mode=VIEW&oppId=11165>

Department of Health and Human Services (HHS)

Agency for Healthcare Research and Quality

- Agency for Health Care Research and Quality Consumer Assessment of Healthcare Providers and Systems (CAHPS) III (U18) Grant
<http://www.grants.gov/search/search.do?mode=VIEW&oppId=11126>

Centers for Disease Control and Prevention

- Dissertation Grant Awards for Doctoral Candidates for Violence-Related Injury Prevention Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppId=11157>
- Public Health Conference Support Program
<http://www.grants.gov/search/search.do?mode=VIEW&oppId=1865>
- Research for Preventing Violence and Violence-Related Injury
<http://www.grants.gov/search/search.do?mode=VIEW&oppId=11167>

Health Resources & Services Administration

- Enhancing Access to Quality Information and Education in Genetics
<http://www.grants.gov/search/search.do?mode=VIEW&oppId=11170>
- Faculty Development: Integrated Technology into Nursing Education & Practice Initiative
<http://www.grants.gov/search/search.do?mode=VIEW&oppId=11171>
- HRSA-07-067 NEW ACCESS POINTS IN PROGRAMS FUNDED UNDER THE HEALTH CENTERS CONSOLIDATION ACT OF 1996 (NAP)
<http://www.grants.gov/search/search.do?mode=VIEW&oppId=11158>
- Integrated Services for Children with Special Health Care Needs Grant
<http://www.grants.gov/search/search.do?mode=VIEW&oppId=11262>
- Nurse Education, Practice and Retention
<http://www.grants.gov/search/search.do?mode=VIEW&oppId=11134>

National Institutes of Health

- Alcohol Education Project Grants (R25) Grant
<http://www.grants.gov/search/search.do?mode=VIEW&oppId=11123>
- Community-Based Participatory Research at NIMH (R21) Grant
<http://www.grants.gov/search/search.do?mode=VIEW&oppId=11141>
- Developing Integrated Economic Models of Health and Retirement (R01) Grant
<http://www.grants.gov/search/search.do?mode=VIEW&oppId=11163>
- Development of Immunotherapeutic Products for the Treatment of Methamphetamine Addiction (U01) Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppId=11229>
- Environmental Health Sciences Core Center Grants (P30) Grant
<http://www.grants.gov/search/search.do?mode=VIEW&oppId=11273>
- Mechanisms of Drug Abuse Interactions with HIV Neuropathogenesis (R21) Grant
<http://www.grants.gov/search/search.do?mode=VIEW&oppId=11190>
- NIDDK Mentored Clinical Scientist Award to Promote Diversity in Health-Related Research (K08) Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppId=11132>
- Point-of-Care Technologies Research Network (U54) Grant
<http://www.grants.gov/search/search.do?mode=VIEW&oppId=11128>
- Research Demonstration and Dissemination Grants (R18) Grant
<http://www.grants.gov/search/search.do?mode=VIEW&oppId=11308>
- Ruth L. Kirschstein National Research Service Awards for Individual Predoctoral Fellows (F31) Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppId=11139>
- Structural Interventions, Alcohol Use, and Risk of HIV/AIDS: (R03) Grant
<http://www.grants.gov/search/search.do?mode=VIEW&oppId=11147>; (R21) Grant
<http://www.grants.gov/search/search.do?mode=VIEW&oppId=11144>

- Technology Development for Biomedical Applications (R21) Grant
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=11129>
- The Bernard Osher Foundation/NCCAM CAM Practitioner Research Career Development Award (K01) Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=11130>
- Understanding and Promoting Health Literacy(R21) Grant
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=11310>

Department of Justice (USDOJ)

- Biometrics Technologies <http://www.grants.gov/search/search.do?mode=VIEW&oppld=11103>
- Body Armor for Law Enforcement and Corrections
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=11232>
- Crime and Justice Research Grant
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=11259>
- Electronic Crime and Digital Evidence Recovery Technology Grant
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=11231>
- Gang Resistance Education And Training (G.R.E.A.T.) Program Grant
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=11183>
- Geospatial Technology <http://www.grants.gov/search/search.do?mode=VIEW&oppld=11204>
- Information-Led Policing Research, Technology Development, Testing, and Evaluation Grant
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=11256>
- Less Lethal Technologies
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=11221>
- Research and Development in the Forensic Analysis of Fire and Arson Evidence
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=11182>
- Research and Development on Crime Scene Tools, Techniques, and Technologies
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=11235>
- Research and Development on Impression Evidence Grant
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=11244>
- Social Science Research on Terrorism Grant
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=11240>
- Transnational Crime Grant
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=11258>

Department of State (DOS)

- Middle East Partnership Initiative, Tomorrow's Leaders Scholarship Program
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=11248>

Department of the Interior (DOI)

- Region 3 Migratory Bird Conservation in the Upper Midwest Grant
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=11150>

Environmental Protection Agency (EPA)

- ACTIVITIES THAT ADVANCE METHANE RECOVERY AND USE AS A CLEAN ENERGY SOURCE Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=11145>
- CONFERENCES, WORKSHOPS, TRAINING, TRAVEL, AND MEETING SUPPORT ACTIVITIES FOR STATE CO-REGULATORS Grant
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=11153>
- Healthy Indoor Environments (2006) Grant
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=11220>
- Research on the Use of Panel-Based Internet Surveys, Research Support for Data Gathering for Dissertations on the Pollution Control Aspects of Environmental Economics, and Research for Assessing and Characterizing Uncertainty in Economic Analysis
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=11189>
- RESEARCH TO DEVELOP, ADAPT OR COMPARE TECHNOLOGIES TO DETECT LIVE VIRUSES AND OTHER ENTERIC PATHOGENS IN LARGE VOLUMES OF WATER Grant
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=11227>
- Resource Conservation Challenge (RCC) Grants (cooperative assistant agreements) Program Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppld=11149>

National Aeronautics and Space Administration (NASA)

- ROSES 2006: International Polar Year (IPY) Education and Public Outreach
<http://www.grants.gov/search/search.do?mode=VIEW&oppld=11169>

- ROSES2006: Stardust Sample Analysis
<http://www.grants.gov/search/search.do?mode=VIEW&oppId=11247>

National Endowment for the Humanities (NEH)

- Implementation Grants for Special Projects Grant
<http://www.grants.gov/search/search.do?mode=VIEW&oppId=11131>

National Science Foundation (NSF)

- Archaeology and Archaeometry
<http://www.grants.gov/search/search.do?mode=VIEW&oppId=10616>
- Behavioral Systems Cluster
<http://www.grants.gov/search/search.do?mode=VIEW&oppId=7625>
- Biochemical Engineering Grant
<http://www.grants.gov/search/search.do?mode=VIEW&oppId=11322>
- Biological Oceanography <http://www.grants.gov/search/search.do?mode=VIEW&oppId=7720>
- Biological Physics <http://www.grants.gov/search/search.do?mode=VIEW&oppId=3014>
- Biotechnology (BTEC) Grant
<http://www.grants.gov/search/search.do?mode=VIEW&oppId=11324>
- Catalysis and Biocatalysis
<http://www.grants.gov/search/search.do?mode=VIEW&oppId=10773>
- Chemical and Biological Separations
<http://www.grants.gov/search/search.do?mode=VIEW&oppId=1257>
- Chemical Bonding Centers (CBC), Phase I Chemistry as the Driver for Highly Innovative Research Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppId=11239>
- Computer Systems Research Grant
<http://www.grants.gov/search/search.do?mode=VIEW&oppId=11213>
- Cultural Anthropology <http://www.grants.gov/search/search.do?mode=VIEW&oppId=1258>
- Cyber Trust Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppId=11162>
- Developmental and Learning Sciences Grant
<http://www.grants.gov/search/search.do?mode=VIEW&oppId=11238>
- Developmental Systems Cluster
<http://www.grants.gov/search/search.do?mode=VIEW&oppId=7627>
- Dynamical Systems <http://www.grants.gov/search/search.do?mode=VIEW&oppId=7633>
- Ecology of Infectious Diseases (EID) Grant
<http://www.grants.gov/search/search.do?mode=VIEW&oppId=11318>
- Education and Interdisciplinary Research
<http://www.grants.gov/search/search.do?mode=VIEW&oppId=10748>
- Elementary Particle Physics
<http://www.grants.gov/search/search.do?mode=VIEW&oppId=10640>
- Environmental Engineering Grant
<http://www.grants.gov/search/search.do?mode=VIEW&oppId=11323>
- Environmental Technology Grant
<http://www.grants.gov/search/search.do?mode=VIEW&oppId=11320>
- Federal Cyber Service: Scholarship for Service (SFS) Grant
<http://www.grants.gov/search/search.do?mode=VIEW&oppId=11317>
- Functional and Regulatory Systems Cluster
<http://www.grants.gov/search/search.do?mode=VIEW&oppId=7629>
- Geography and Regional Science
<http://www.grants.gov/search/search.do?mode=VIEW&oppId=2996>
- George E. Brown, Jr. Network for Earthquake Engineering Simulation Research Grant
<http://www.grants.gov/search/search.do?mode=VIEW&oppId=11215>
- Grant Opportunities for Academic Liaison with Industry (GOALI) Grant
<http://www.grants.gov/search/search.do?mode=VIEW&oppId=11325>
- Information Technology and Infrastructure Systems
<http://www.grants.gov/search/search.do?mode=VIEW&oppId=7664>
- Major Research Instrumentation Program Grant
<http://www.grants.gov/search/search.do?mode=VIEW&oppId=11296>
- Manufacturing Machines and Equipment
<http://www.grants.gov/search/search.do?mode=VIEW&oppId=10772>
- Nano and Bio Mechanics <http://www.grants.gov/search/search.do?mode=VIEW&oppId=10649>
- Networking Technology and Systems (NeTS) Grant
<http://www.grants.gov/search/search.do?mode=VIEW&oppId=11216>

- NSF/DOE Partnership in Basic Plasma Science and Engineering Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppId=11236>
- Particle and Nuclear Astrophysics <http://www.grants.gov/search/search.do?mode=VIEW&oppId=6193>
- Physics at the Information Frontier <http://www.grants.gov/search/search.do?mode=VIEW&oppId=3015>
- Political Sciences (Program Description) <http://www.grants.gov/search/search.do?mode=VIEW&oppId=3016>
- Process and Reaction Engineering <http://www.grants.gov/search/search.do?mode=VIEW&oppId=7642>
- Research in Disabilities Education (RDE) Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppId=11316>
- Science of Design Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppId=11214>
- Social Psychology <http://www.grants.gov/search/search.do?mode=VIEW&oppId=7632>
- Strategic Technologies for Cyberinfrastructure Program (STCI) Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppId=11299>
- Theoretical Physics <http://www.grants.gov/search/search.do?mode=VIEW&oppId=10669>

Social Security Administration (SSA)

- SSA Work Incentives Planning and Assistance Projects Grant <http://www.grants.gov/search/search.do?mode=VIEW&oppId=11224>

NEW ANNOUNCEMENTS: FOUNDATIONS & OTHER and APPLICATION DEADLINES

Grant Advisor Plus, November Newsletter PDF Download:
<http://www.grantadvisor.com/tgaplus/lower.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: 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.

NEWS

UNIVERSITY OF MISSOURI NEWS

- UM-St. Louis Business School Ranked Among Best by Princeton Review
- Danforth Center and UMC Named Among Best Workplaces in Academia

OTHER NEWS OF INTEREST

- Researchers Make Major Gains in DNA-based Computers
- Nanotech Initiative Report Card
- Engineering Food at Levels of Molecules
- Biotech's Beef: Companies Say Grad Schools Aren't Stressing What Students Require in the Real World
- NIH's New Ethics Rules Lead Some to Ponder Jumping Ship
- Microsoft Pushes Biotech Project
- Online Journals Threaten Traditional Scientific Peer-Review System
- Lessons from the Campus: What is Ailing French Universities?

UM-St. Louis Business School Ranked Among Best by Princeton Review

The Princeton Review ranked UM-St. Louis' College of Business Administration among the nation's best business schools by The Princeton Review.

The college is one of 282 business schools featured in the guidebook "The Best 282 Business Schools," which was released Tuesday.

"The recognition by The Princeton Review is an honor and an extraordinary accomplishment for both the college and the university," said UMSL Chancellor Thomas George. "The college offers a variety of top ranking programs taught by nationally and internationally known faculty who are leaders in their fields."

UMSL's College of Business Administration is one of the St. Louis area's leading providers of business education, with bachelor's and master's degrees available in various area of study. The college offers two master's of business administration options -- a professional online MBA and a traditional MBA program.

Publishers of the guidebook surveyed students at the college. Several described UMSL professors as "top rate" and leaders in their fields. Students also mentioned that UMSL faculty have written several books, are easily accessible and willing to work with students.

Princeton researchers found the average starting salary for UMSL business graduates to be \$48,067, and the largest number of them are employed in the finance field.

The Princeton Review is a New York-based company known for its test preparation courses, education services and college and graduate school admission services. The "Best 282 Business Schools" is published by Random House. ●

Danforth Center and UMC Named Among Best Workplaces in Academia

Online at <http://www.the-scientist.com/article/display/24823/>

The Scientist magazine ranked the Donald Danforth Plant Science Center No. 15 (not ranked in 2005) and the University of Missouri-Columbia No. 33 (up from No. 44 in 2005) on its list of the best U.S. places to work in academia. UM-St. Louis has a joint endowed professorship with the Danforth Center.

According to the magazine's readers' Best Places to Work in Academia 2006 survey results, St. Jude Children's Research Hospital in Memphis, Tenn., took top honors. Washington University in St. Louis, the only other Missouri institution on the all-around best academic workplace list, was ranked No. 23, up from No. 45 in 2005).

To gather readers' input, The Scientist posted a Web-based questionnaire and invited responses from tenured or tenure-track life scientists working in academia or other noncommercial research

organizations. Respondents assessed their working conditions and environments by indicating their level of agreement with 39 criteria in eight different areas. Detailed information on the survey methodology is available on the magazine's web site at <http://www.the-scientist.com>.

The magazine also posted results for the Best Places to Work for Postdocs 2006. The Danforth Plant Science Center was ranked No. 14 in that survey.

The Scientist covers developments in the life sciences including research, technology, careers and business. ●

Researchers Make Major Gains in DNA-based Computers

Scientists have come up with a second-generation DNA-based computer, but getting nano-sized pieces of DNA to act as electrical circuits capable of problem solving like their silicon counterparts has remained a challenge.

Researchers from Columbia University have developed MAYA-II (Molecular Array of YES and AND logic gates), a computer that consists of DNA circuits instead of silicon. Composed of more than 100 DNA circuits, MAYA-II is four times the size of its predecessor, MAYA-I, which was developed by the research team three years ago.

The research team notes that DNA computers won't compete with the speed of silicon computing. However, DNA computers can be used in fluids, whether in the lab or in the body, and make decisions at the cellular level. They suggest that DNA computers could eventually be implanted in the body to diagnose and kill cancer cells and treat diabetes by dispensing insulin as needed.

The study is scheduled to appear in this month's issue of the American Chemical Society's Nano Letters. ●

Nanotech Initiative Report Card

The National Academy of Sciences' National Materials Advisory Board issued a report assessing the National Nanotechnology Initiative (NNI), which was created in 2000 to coordinate nanotechnology research and development activities funded by several federal agencies.

The report says the NNI is successfully generating new technologies and fostering innovative interdisciplinary research, but the initiative's economic impact on the U.S. economy is still unknown. It also calls for more research on environmental, health and safety effects of nanotechnology; continued government support of the initiative; the creation of an independent advisory panel; better reporting of how funds are used in order to assess economic impacts; and experimental data to determine the potential of molecular manufacturing. ●

See [A Matter of Size: Triennial Review of the National Nanotechnology Initiative \(Report in Brief\)](#), National Academy of Sciences, September 25, 2006.

About the National Nanotechnology Initiative (NNI):

The National Nanotechnology Initiative (NNI) is a federal R&D program established to coordinate the multi-agency efforts in nanoscale science, engineering, and technology. Twenty-three federal agencies participate in the Initiative, 11 of which have an [R&D budget](#) for nanotechnology. Other Federal organizations contribute with studies, applications of the results from those agencies performing R&D, and other collaborations.

The goals of the NNI are to:

- Maintain a world-class research and development program aimed at realizing the full potential of nanotechnology;
- Facilitate transfer of new technologies into products for economic growth, jobs, and other public benefit;
- Develop educational resources, a skilled workforce, and the supporting infrastructure and tools to advance nanotechnology; and,

- Support responsible development of nanotechnology

The NNI can be found on the web at www.nano.gov. The site contains links to the associated research centers, funding opportunities, and the latest information on press releases and discoveries. ●

Engineering Food at Levels of Molecules

BY BARNABY J. FEDER

Excerpted from the New York Times

October 10, 2006

Food companies remain wary of pushing (nano)technology — which is named for the nanometer, or a billionth of a meter — too far and too fast for safety-conscious consumers. But they are tantalized by nanotechnology's capacity to create valuable and sometimes novel forms of everyday substances, like food ingredients and packaging materials, simply by reducing them to sizes that once seemed unimaginable.

Most of the hoopla and a lot of the promise for nanotechnology lies in other industries, including electronics, energy and medicine. But the first generation of nanotechnology-based food industry products, including synthetic food colorings, frying oil preservatives and packaging coated with antimicrobial agents, has quietly entered the market.

The commercial uses of the technology now add up to a \$410 million sliver of the \$3 trillion global food market, according to Cientifica, a British market research firm that specializes in nanotechnology coverage. Cientifica forecasts that nanotechnology's share will grow to \$5.8 billion by 2012, as other uses for it are developed.

Mindful of the adverse reaction from some consumers over the introduction of genetically engineered crops, the food industry hopes regulators will come up with supportive guidelines that will also allay consumers' fears. That has put a spotlight on the [Food and Drug Administration's](#) first public hearing (Oct. 10) on how it should regulate nanotechnology, with a portion of the agenda specifically about food and food additives. No policy changes are expected this year. ●

Read Entire Article Online (available for a limited time):

<http://www.nytimes.com/2006/10/10/technology/10nano.html?ex=1162270800&en=ad2c18b9ec7ff0a6&ei=5070>

FDA Nanotechnology FAQs: <http://www.fda.gov/nanotechnology/faqs.html>

Biotech's Beef: Companies Say Grad Schools Aren't Stressing What Students Require in the Real World

BY NICHOLA SAMINATHER

Excerpted from BusinessWeek Online

November 6, 2006

In recent months biotech outfits have begun to complain that job applicants coming out of U.S. universities lack the know how companies seek. Left unresolved, the troubles could stifle growth in this booming sector, valued at \$48 billion last year by consultant Ernst & Young. The knowledge deficiencies could also force biotech companies to move more of their operations overseas, say executives and recruiters.

The problem is a disconnect between what universities are teaching and what biotech wants. "The focus of academia is getting basic and theoretical knowledge in place," says E. Dale Sevier, a director at the California State University Program for Education & Research in Biotechnology. "The skills needed to be successful in the industry are just not taught in universities."

There are several weaknesses. First, recent grads lack the technical knowledge to carry out applied research in areas that straddle engineering, math, and computers. Second, job candidates have little awareness of what the Food & Drug Administration is looking for when it considers whether or not to

approve a drug. Recent grads simply aren't familiar with issues such as quality control and regulatory affairs. Academic programs "don't train students to function in today's small-R, large-D environment," says Stephen Dahms, president and CEO of the Alfred E. Mann Foundation for Biomedical Engineering.

The California State University biotech program tried to identify what companies want from new hires in a 2000 report. Close to the top of the list are familiarity with FDA compliance, experience in clinical trial design, and quality control. All require knowledge of computing, statistics, and database management--pretty low priorities for most academic biotech programs.

As it happens, these are common credentials for foreign researchers in the U.S. who hold temporary work papers known as H-1B visas. U.S. Citizenship & Immigration Services reports that 3.6% of all H-1B visas for 2003, a total of 7,119, went to employees in scientific research and development. Some 80% of them have graduate degrees from U.S. universities, Dahms says, but "there's something special about the prior exposure of foreign nationals. They have a more applied R&D perspective." Of course, there are smart U.S.-born candidates with good math and computer skills. But they're rarely fluent in both math and life sciences. ●

Read Entire Article Online (available for a limited time):

http://www.businessweek.com/magazine/content/06_45/b4008083.htm?chan=rss_topEmailedStories_ssi_5%20

NIH's New Ethics Rules Lead Some to Ponder Jumping Ship

BY RITA BEAMISH

Excerpted from the Washington Post

October 30 , 2006

Nearly 40 percent of the scientists conducting hands-on research at the National Institutes of Health say they are looking for other jobs or are considering doing so to escape new ethics rules that have curtailed their opportunity to earn outside income.

Most scientists say the ethics crackdown is too severe, and nearly three-quarters of them think it will hinder the government's ability to attract and keep medical researchers, according to a survey commissioned by the government's premier medical research agency.

The tightened rules were established last year after NIH found that dozens of scientists had run afoul of existing restrictions with private consulting deals that had enriched them with money from drug and biotechnology companies. ●

Read Entire Article Online (available for a limited time): <http://www.washingtonpost.com/wp-dyn/content/article/2006/10/29/AR2006102900709.html>

Microsoft Pushes Biotech Project

Redmond Giant is Working with Biotech Firms on Collaborative Drug Discovery

BY M. COHN

October 19, 2006

Excerpted from Red Herring

Microsoft pushed forward its collaborative drug discovery initiative Thursday (Oct. 19) by inviting other members of the BioIT Alliance it formed earlier this year to join a biomarkers project that aims to better understand the relationship between genetic traits and clinical outcomes for drug testing.

The Redmond giant is teaming up with a group of scientists from the Scripps Research Institute, along with Applied Biosystems, Amylin Pharmaceuticals, Agilent Technologies, and Illumina, and about 30 other organizations.

The announcement (occurred) at a biotechnology executive forum organized by Microsoft in Cambridge, Massachusetts.

Microsoft formed the BioIT Alliance back in April with the aim of partnering with biotech and pharmaceutical companies on drug development (see Redmond Forms Biotech Alliance).

The company has been pushing the use of collaborative technologies like its SharePoint portal to get scientists and researchers to work together to develop new drugs and share their knowledge.

The new biomarkers project aims to look for genetic factors that could predispose individuals to specific diseases, so scientists can develop personalized medicines to treat them.

Microsoft is also making advances on its first proof-of-concept project, a collaborative molecular environment developed by InterKnowlogy and the Scripps Research Institute. It will use visualization and annotation technology so researchers can store their data in electronic format, view images, search and retrieve the information, and comment on it.

It too will rely on Microsoft products like SharePoint, Windows Vista, Windows Presentation Foundation, and Windows Media.

"Data sharing is very important in most industries, but critical in biotech and pharma," said Jonathan Spira, chief analyst at Basex, an IT research firm specializing in knowledge sharing and collaboration. "The BioIT Alliance is making great strides in ensuring that collaboration technology exists to share information. Although it's not for every bit of research, there are many types of research where knowledge sharing and collaboration are appropriate."

Shares of Microsoft fell \$0.23 to \$28.29 at the close of trading Thursday.

Microsoft is aiming to build a bigger presence in the biotech and pharmaceuticals segment through the BioIT Alliance by selling its software to more of the companies that are major players, in some cases through partnerships. ●

Read Entire Article Online (available for a limited time):

<http://www.redherring.com/Article.aspx?a=19283&hed=Microsoft+Pushes+Biotech+Project>

Online Journals Threaten Traditional Scientific Peer-Review System

BY ALICIA CHANG

Associated Press

October 1, 2006

Abstract

Researchers whose work appear in traditional journals are often more highly regarded. That attitude appears to be slowly changing. In 2002, the reclusive Russian mathematician Grigori Perelman created a buzz when he bypassed the peer-review system and posted a landmark paper to the online repository, arXiv. Perelman later won the Fields Medal this year for his contribution to the Poincare conjecture, one of mathematics' oldest and puzzling problems.

Editors of traditional, subscription-based journals say the peer-review system weeds out sloppy science. The traditional process isn't designed to detect fraud (referees rarely look at a researcher's raw data), and prestigious journals have unwittingly published bogus work. Last year, for example, Science retracted papers on embryonic stem cell research by a South Korean cloning scientist who admitted falsifying his results.

Even some mainstream journals are toying with a tame form of open peer review. This summer, Nature allowed authors whose papers were selected for traditional peer review to have their manuscripts judged by the public at the same time. Editors weigh both sides when deciding whether to publish a paper, and rejected research can be submitted elsewhere. ●

Lessons from the Campus: What is Ailing French Universities?

October 26, 2006

Excerpted from The Economist

In higher education, a free-for-all does not work

Each year, when Shanghai's Jiao Tong University publishes its world ranking of universities, France responds with a mix of indignation and consternation. Indignation, because French educators complain that the system favours "Anglo-Saxon" universities and makes no allowance for France's unusual division into elite *grandes écoles* and mass universities. Consternation, because not a single French university makes it into the world's top 40. Its best-placed institution—Paris VI—manages only 45th place.

France's university system encapsulates many of the drawbacks of its over-centralised, bureaucratic model. The country has 82 universities, catering to 1.5m students, twice the number of 25 years ago. All are public, and all the lecturers are civil servants. All the universities are barred from selecting undergraduates at entry. Enrolment fees amount to less than €200 a year, and all tuition is paid for by the state. Members of France's elite do their utmost to keep their children out of them and get them into the *grandes écoles*—for business, engineering or public administration—that cater to a lucky 4% of the student population.

To understand how France is tying its own hands with this system, consider two universities that lie just a few kilometres apart in the south-western city of Toulouse. Both are big: Toulouse I Sciences Sociales, a quick walk from the pink-brick Place du Capitole in the city centre, has 17,000 students; Toulouse II-Le Mirail, a short metro ride away on the city's outskirts, over 24,000. Both were spun off as separate universities after France's 1968 student riots, which led to the break-up of many of the country's giant universities. Both cover, broadly, the social sciences: Toulouse I offers economics, political science, law and management; Toulouse II-Le Mirail spans literature, philosophy, history, human sciences, arts and maths.

Toulouse II-Le Mirail, a low-rise 1960s campus of squat grey concrete blocks, looks like a demonstration model of most of France's difficulties with its university system. It has pockets of research excellence, such as in archaeology, and it has adapted to international standards by introducing the new Europe-wide bachelor and masters degree structure. But it concentrates on mass teaching in subjects—philosophy, psychology, sociology—that ill-prepare graduates for jobs.

Lecture halls are overcrowded. In one vast 800-seat amphitheatre, steeply banked rows of impassive students listen to a lecturer mumbling on a distant platform. Each year, 46% of all new students enrolled drop out. Daniel Filâtre, Toulouse II-Le Mirail's president, does not consider this to be his problem: "This is a left-wing university which has a social project," he explains. "It is not an institution designed for professional training."

Yet it is clearly a worry for the students. Fears about job insecurity prompted the countrywide university revolt earlier this year against Mr de Villepin's flexible contract for the under-26s. Two months of sit-ins, blockades and often violent skirmishes with riot police forced the prime minister to shelve his plan. But the malaise on French campuses such as Toulouse II-Le Mirail remains.

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Across the Garonne

On the other side of the river, at Toulouse I, bicycles lean against red-brick courtyards and students sit cross-legged in the shade of plane trees. Toulouse I has not found a solution to all the difficulties Le Mirail faces. All the same, across all disciplines, 82% of third-year undergraduates there get their degree at their first attempt, compared with 58% at Toulouse II-Le Mirail. During the student revolt the Toulouse I campus was shut only for a brief period, and student leaders were booed.

It helps that the university has an international reputation for economics. It ranks fifth in the world for research in business economics, after the universities of Harvard, Berkeley, Chicago and Stanford, according to a global ranking. This autumn it launched the Toulouse School of Economics (TSE), which offers a two-year masters programme, taught entirely in English and designed for the international market.

In the 1980s Toulouse I was a social-science university much like any other, unable to select its staff or its students and squeezed for funds. Instead of accepting its lot, however, it decided to work

around the rules. First, in order to help with finance, it sought private sponsorship for research. Various research centres were set up as associations, officially outside the university management structure and therefore not subject to civil-service rules. These were able to solicit research contracts directly with companies, such as France Telecom or Microsoft.

Second, it put research at the heart of the university structure. In general, universities in France concentrate on teaching, with research mostly organised by national public-research bodies. But international rankings put weight on research, which penalises the French. Toulouse I's Institute of Industrial Economics (IDEI), set up in 1990 by Jean-Jacques Laffont, a Harvard-trained economist, realised early on that it needed teachers and researchers to work and publish together in order to lift international rankings. This sounds simpler than it is. Even today, the institute's researchers are often employed not by the university but by the National Centre for Scientific Research—yet they also sign their papers in the university's name.

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Reorganisation 101

The three watchwords for French universities are autonomy, competition and selection. First, if universities are to create centres of excellence they will need greater freedom: for example, to recruit their staff, to set up experimental links with research bodies or to increase enrolment fees. But before they can be granted such autonomy, their governing structures will need to become more effective and less beholden to unions.

Second, unless France embraces the idea of competition, the creed of egalitarianism will drag down quality for everybody. Part of the answer is more autonomy, to make experimentation possible. But it also requires a cultural shift. Does France want its best universities rewarded? Does it want them to compete for staff? Does it want to recognise that some universities are better than others? International league tables are prompting some change. To boost rankings, the government is creating "research poles" for universities and research centres to publish their findings jointly. It is also beginning to publish comparative graduation rates and job prospects for all universities.

This leads to the third problem: selection. The government hopes that by making such information public, it will deter would-be undergraduates from enrolling in dead-end subjects. For example, France currently has 65,000 psychology students—a quarter of the European total for that subject. Unless universities also get some say in whom they accept, such numbers are unlikely to fall much. And selection remains taboo. Could France ever allow universities to pick undergraduates at entry? "Oh là là!" replies a top education official. "It's not in the French mentality." ●

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