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RESEARCH MATTERS

Vol. 35, No. 12, Dec. 2008 ♦ Office of Research Development and Administration ♦ Editor: Joel Fritzler

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REMINDER

The deadline for REACH Award proposals is Friday, January 30. For more information, see www.siu.edu/~reach/awards.html.

Have a safe and happy semester break!

RESEARCH DIGEST

New NIH Policy Establishes Goals to Support Scientists Early in Their Careers

—excerpted from *NIH News*, Oct. 31, 2008

The National Institutes of Health (NIH) has announced a new policy to encourage funding for scientists new to NIH and those who are at an early stage in their careers. The involvement of new investigators is considered essential to the vitality of health-related research and has been the focus of several critically important NIH initiatives. NIH is hopeful that this policy will nurture a new cadre of scientists and provide the expertise needed to foster the next generation of biomedical research. Achievement of a comparable success rate should permit the NIH to support at least 1,650 New Investigators across all institutes and centers in FY09.

As a first step, NIH created a new “Early Stage Investigator” category designed to accelerate the early transition of new scientists to research independence. An Early Stage Investigator is defined as a new or first-time investigator who is within 10 years of completing his/her last research degree or is within 10 years of completing medical residency (or the equivalent). Beginning with R01 research grant applications received in February 2009, NIH will identify Early Stage Investigators and take into consideration their career stage at the time of review and award.

NIH strongly encourages Early Stage Investigators seeking funding for the first time to apply for traditional research project (R01) grant awards, instead of applying for small grants (R03) or Exploratory/Developmental Research Awards (R21). R03s and R21s are limited in scope and period of support, and may not be the most effective way to launch an independent research career.

This new policy is a continuation of NIH’s commitment to ensure the pipeline of promising scientists will be strong in the coming years. NIH established the New Innovator Award in 2007 with the goals of stimulating highly innovative research and supporting promising new investigators. In 2006, NIH launched the Pathway to Independence as an opportunity for promising postdoctoral scientists to receive mentored and independent research support from the same award.

The Graying of NIH Research

—excerpted from *Science*, Nov. 7, 2008

Many scientists who got their first grant in the 1950s or 60s are still going strong. How do they view affirmative action for first-time grantees?

Roger Unger found himself drawn to research as an internal medicine resident around 1950, when he was treating diabetes patients. He had a controversial idea—that glucagon, a biomolecule then thought to be a contaminant in insulin made from ground-up beef and pork pancreases, might actually be a key hormone

affecting blood sugar. Unger and colleagues had no direct evidence for this, but “we had the tools to answer the question, and we needed some money,” Unger says. So at age 32, Unger applied for and won a research grant from the National Institutes of Health (NIH).

It didn't seem hard, “because I didn't know what I was doing back then,” says Unger. Several years later, Unger's group published a landmark paper pinning down glucagon's role as a counter to insulin in regulating blood glucose levels: Glucagon tells cells to make more glucose, whereas insulin brings excess amounts down. Today, at 84, Unger still runs a lab with NIH support. Now he's motivated by a new health problem—the “meltdown” in Americans' health due to rising rates of obesity.

That researchers are going strong in their 70s and 80s—and pulling down grants—would have been unheard of 30 years ago. Because the biomedical enterprise was young and most universities had mandatory faculty retirement until 1994, there were few NIH-funded PIs older than 70 in 1980. But in 2007, there were at least 400 of them. NIH projects that grantees over 68 could outnumber scientists under 38 by 2020. The average age for obtaining a first NIH research grant is now 42. These data worry some research leaders, who have called for a reversal of the trend. They have also contributed to a sense of crisis at NIH, which is taking steps to bolster the number of new investigators and slow the rising age of the average NIH-funded scientist, now 51.

The NIH does not mean to discourage senior investigators from continuing in research. “It's not young against old,” says the NIH Director. Furthermore, peer review is supposed to winnow out any whose productivity has decreased.

At the same time, concerns about the aging biomedical work force have prompted NIH to deploy what amounts to an affirmative action plan, setting targets at each institute for newcomer grants. To sample views of this plan, a score of researchers 70 or older were

interviewed. Most were drawn from a list of NIH investigators who have had the same basic NIH research grant for at least 35 years. We asked: How does a senior scientist decide when to shut down their lab? And does the current plight of young investigators influence their thinking? Most praised the idea of introducing fresh blood, but only about half said that they're ready to relinquish their own lab. Most of those over 75 said they have cut back their research. Most say they are sympathetic to the funding difficulties faced by young investigators and support NIH's plans to target more grants to this group.

Some say that they're motivated by finding new research directions. The University of Pennsylvania's Robin Hochstrasser, 77, has a 14-person lab that is using lasers to study how protein structures change with time. “These techniques were only created eight years ago. Close to 100 people are using them, and they started here,” he says. But he praises NIH's new grants for young investigators and thinks setting targets for newcomer R01s is “reasonable ... to ensure the future of medical research.” John Dietschy of UT Southwestern, 76, says he has no plans to give up his R01 of 44 years on cholesterol metabolism, which ranked in the top 1% of proposals when it was last reviewed. “We're ahead of everybody in our field at the moment.”

Biochemist Carl Frieden, 79, of Washington University says he will let peer reviewers tell him when it's time to close his lab. He says that although he's sympathetic to the struggles of young scientists, funding should be based strictly on scientific merit, not age. “We're the only profession judged by our peers every three to five years. If older scientists can pass that trial, I'm comfortable with that,” he says.

Whatever their individual choices, the dilemma of how and when aging scientists should hang up their lab coats is only going to become more urgent.

Military Science, Reloaded

—from *Science*, Nov. 14, 2008

The U.S. Dept. of Defense (DOD) plans to award \$80 million in grants this fiscal year to academic scientists as part of a new \$400 million investment over five years in basic research. The five-year grants will fund work in emerging areas such as countering weapons of mass destruction, network sciences, energy and power management, quantum information sciences, and bio-inspired systems. The Pentagon's \$208 million increase for basic research in 2009 was a lone bright spot among science agencies, which otherwise saw their budgets frozen through at least March 2009. DOD also hopes to fund 40 additional researchers in the Presidential Early Career Award for Scientists and Engineers program, under which DOD currently gives out a few dozen three- to five-year grants of \$100,000 per year.

European Union and NIH Collaborate

—excerpted from letter from Elias Zerhouni, Former NIH Director, and Janez Potocnik, European Commissioner for Science and Research in *Science*, Nov. 14, 2008

The National Institutes of Health (NIH) and the European Commission (EC) recently decided to reinforce our mutual interest in scientific collaboration. We believe that greater trans-Atlantic cooperation and smarter competition in science will lead to faster breakthroughs in health research and ultimately to a better quality of life.

The NIH has a long tradition of funding collaborations between U.S. and European scientists. To this end, the NIH recently clarified its policies for funding global collaborations. And on Sept. 3, 2008, the EC published a new call for proposals within the health theme of its Seventh Framework Programme for Research and Development. For the first time, the EC has announced that researchers working in U.S. institutions are eligible not only to participate in EC-

supported research projects but also to receive funds from the EC if they are part of a consortium with EU investigators.

We live at a time of great scientific opportunity, where global collaborations are essential for facilitating scientific discoveries aimed at improving public health. While discovery increasingly depends on a new level of collaboration, it also depends on expertise, which may not reside within one country or even within one continent.

We hope that our initiative, aimed at opening our research programs, will serve as a launch pad for wider and more intense U.S.-EU cooperation in health as well as in other areas of research.

FUNDING OPPORTUNITIES

For more information about these programs, contact Joel Fritzler, ORDA Information Specialist, at 453-4530 or jcfritz@siu.edu.

U.S. Dept. of Education: Transition to Teaching

The U.S. Department of Education has issued three related solicitations to support the transition to teaching. The **Transition to Teaching** program encourages (1) the development and expansion of alternative routes to full state teacher certification, as well as (2) the recruitment and retention of highly qualified mid-career professionals, recent college graduates who have not majored in education, and highly qualified paraprofessionals as teachers in high-need schools operated by high-need local educational agencies (LEA). Eligibility is limited to state educational agencies (SEAs); high-need LEAs; a for-profit or nonprofit organization in partnership with a high-need LEA or an SEA; **an institution of higher education in partnership with a high-need LEA or an SEA**; a regional consortium of SEAs; or a consortium of

high-need LEAs.

For additional information about this program, see <http://tinyurl.com/5tleqs>.

DEADLINES: Letters of Intent—Dec. 15; Full Proposals—Jan. 21

NSF: Partnerships for International Research and Education

Limited Submission Note: *This program has a limited submission of three preproposals per institution. If you intend to submit a preproposal for this program, you must submit a **Notification of Intent to Apply to a Grant Program** (www.siu.edu/orda/rates/intent.pdf) to ORDA by **January 26**.*

This National Science Foundation program seeks to catalyze a higher level of international engagement in the U.S. science and engineering community by supporting international research and education collaborations. The program will enable U.S. scientists and engineers to establish relationships with international colleagues in order to advance new discoveries at the frontiers of science and engineering and to promote the development of a globally engaged U.S. scientific and engineering workforce. This program will support research whose successful outcome results from all partners. It is also intended to facilitate greater student participation in international research collaboration. The program aims to support partnerships that will strengthen the capacity of institutions, multi-institutional consortia, and networks to engage in and benefit from international collaborations.

It is estimated that 5 to 20 awards will be made from an anticipated funding amount of \$40 million. For more information about this program, see <http://tinyurl.com/3onz2d> or contact Elizabeth Lyons (703-292-7256, PIRE-info@nsf.gov).

DEADLINES: ORDA Notification of Intent—Jan. 26; Preliminary Proposals (**required**)—Feb. 26 (must be submitted via FastLane); Full Proposals (by invitation only)—Aug. 4

Dirksen Center: Research on U.S. Congress

The Dirksen Congressional Center, located in Pekin, Illinois, is inviting applications for grants to fund research on congressional leadership and the U.S. Congress. Up to \$30,000 will be available in 2009. Awards will range from \$200 to \$3,500.

The center, named for the late Senate Minority Leader Everett Dirksen, is a private, nonpartisan, nonprofit research and educational organization devoted to the study of Congress and its leaders. Since 1978, the Congressional Research Awards program has awarded \$747,465 to 369 projects.

Political scientists, historians, biographers, scholars of public administration or American studies, and journalists are among those eligible. The center encourages graduate students who have successfully defended their dissertation prospectus to apply and **awards a significant portion of the funds for dissertation research**.

Applicants must be U.S. citizens who reside in the United States. Research teams are eligible.

There is no standard application form. Applicants are responsible for showing the relationship between their work and the awards program guidelines. Complete information about eligibility and application procedures may be found at www.dirksencenter.org/print_grants_CRAs.htm. For more information, see www.dirksencenter.org, or contact Frank Mackaman (fmackaman@dirksencenter.org).

DEADLINE: Feb. 1

Knight Foundation: Freedom of the Press

Proposals are being accepted for grants from the John S. and James L. Knight Foundation to promote freedom of the press in the U.S. or abroad. Of particular interest are programs that educate current and future journalists, promote the defense of First Amendment rights, or support a free press in

the United States and worldwide. The foundation encourages interested organizations to send a one- to two-page letter of inquiry before submitting a proposal. Additional information is available at www.knightfdn.org, where applications can be downloaded and submitted as well, or contact the foundation (305-908-2600).

DEADLINE: Open

DOD: Neurofibromatosis and Tuberous Sclerosis Research

The U.S. Department of Defense's Program Announcements for the 2009 Neurofibromatosis Research Program (NFRP) and the 2009 Tuberous Sclerosis Research Program (TSCRCP) are expected to be released this month (December 2008).

NFRP grants are expected to be made using the following mechanisms: Clinical Trial Awards, Exploration-Hypothesis Development Awards, Investigator-Initiated Research Awards, New Investigator Awards, and Postdoctoral Traineeship Awards. Brief descriptions of each of these mechanisms are available at <http://cdmrp.army.mil/pubs/press/2008/09nfrppreann.htm>.

TSCRCP grants are expected to be made using the following mechanisms: Career Transition Awards, Clinical and Translational Research Awards, Exploration-Hypothesis Development Awards, and Idea Development Awards. Brief descriptions of each of these mechanisms are available at <http://cdmrp.army.mil/pubs/press/2008/09tscrppreann.htm>.

Blowitz-Ridgeway Foundation: Medicine/Psychology/Social Sciences/Education

The Blowitz-Ridgeway Foundation of Schaumburg, Illinois, is accepting applications for program and capital grants in support of but not limited to the following purposes: medical, psychiatric, psychological and/or residential care, and research programs in medicine, psychology, social science, and education.

SIUC had a BRF award for two years in 2001-03. For information about this program, see www.blowitzridgeway.org or contact Serena Moy (847-330-1020) or Laura Romero (laura@blowitzridgeway.org, 847-330-1020).

DEADLINE: Open

Heath Foundation: Public Health/Safety/Recreation/Education

Located in southern Illinois, the Mary Heath Foundation provides support primarily for organizations sponsoring projects in the areas of public health, safety, recreation, and education in Illinois. For information about the foundation and its programs, contact Jimmy Rogers (Mary Heath Foundation, c/o Old National Trust, Box 217, Robinson, IL 62454, 618-544-2960, jimmy_rogers@oldnational.com).

DEADLINE: Open

NIH: Planning Grants, Prevention & Control of Diabetes & Obesity

Through Planning Grants for Translational Research for the Prevention and Control of Diabetes and Obesity, the National Institute of Diabetes and Digestive and Kidney Diseases seeks to develop cost-effective and sustainable interventions that can be adopted in real world settings. Research should be based on interventions already proven efficacious in clinical trials to prevent and reverse obesity and type 2 diabetes, to improve care of type 1 and type 2 diabetes, and to prevent or delay its complications. The interventions proposed under this solicitation should have the potential to be widely disseminated to clinical practice, individuals, and communities at risk.

For additional information about this program, see <http://tinyurl.com/5uepp4>. For a list of agency contacts see <http://tinyurl.com/5bymjd>.

DEADLINE: Feb. 16

GRANT DEADLINES

January and February 2009

Information on many of the following programs is available from the Community of Science grants database at www.cos.com or from www.grants.gov. For web links to programs, contact Joel Fritzler (453-4530, jcfritz@siu.edu) or see the "External Funding" pages on ORDA's website.

January 2009

Federal Programs

Agriculture

Jan 17 CSREES: Water and Watersheds; Nanoscale Science and Engineering for Agriculture and Food Systems

Defense

Jan 08 SERDP: Advanced Technologies for Detection, Discrimination, and Remediation of Military Munitions; Improved Fundamental Understanding of Contaminant Bioavailability in Aquatic Sediments; Improvements in the Detection and Disposal of Underwater Military Munitions; Mechanisms of Contaminant Interaction with Soil Components and Its Impact on the Bioavailability of Contaminants; Predictive Techniques for Assessment of the Environmental Impact of New Munition Compounds; Understanding the Science Behind How Methylene Chloride/Phenolic Chemical Paint Strippers Remove Coatings

Jan 12 Office of Naval Research: Young Investigator Program (academic scientists & engineers)

DOD cont.

- Jan 23 Air Force Materiel Command: National Intelligence Community Enterprise Cyber Assurance
- Jan 30 Naval Air Warfare Center: Homeland Security; Asymmetric Warfare; Enhancements to Human Decision-Making Under Fire; Personnel Safety/Survivability Enhancements; Synthetic Natural Environment; Network Centric Warfare

Energy

- Jan 05 Sandia National Laboratory: Postdoctoral Research Fellowship in Computational Science
- Jan 07 Office of Energy Efficiency and Renewable Energy: Photovoltaic Supply Chain and Cross-Cutting Technologies
- Jan 15 National Energy Technology Laboratory: Clean Coal Power Initiative, Round 3
- Jan 15 Office of Science: Fundamental Research in Superconducting Radio Frequency—Cavity Design
- Jan 22 Office of Science: Environmental Remediation Science
- Jan 25 Office of Science: Experimental Program to Stimulate Competitive Research—Implementation Awards

EPA

- Jan 11 Small Growth Conference Request for Proposals

Health and Human Services

- Jan 02 NIH: Dissemination and Implementation Research in Health
- Jan 06 NHLBI: Characterizing the Blood Stem Cell Niche; Mechanisms of Adverse Drug Effects in Children
- Jan 07 NIH: Advancing Novel Science in Women's Health Research
- Jan 12 NHGRI: 100 Genomes Project Data Processing

DHHS cont.

- Jan 15 FDA: Small Scientific Conferences
- Jan 16 NHLBI: Elucidating Nature's Solutions to Heart, Lung, and Blood Diseases and Sleep Disorder Processes
- Jan 20 NIH: Enabling Technologies for Tissue Engineering and Regenerative Medicine; Mechanism for Time-Sensitive Research
- Jan 21 NHLBI: Immunomodulatory, Inflammatory, and Vasoregulatory Properties of Transfused Red Blood Cell Units as a Function of Preparation and Storage
- Jan 21 NIH: Mechanisms of Adverse Drug Effects in Children
- Jan 22 NIGMS: Postbaccalaureate Research Education
- Jan 25 AHRQ: Researching Implementation and Change While Improving Quality; Utilizing Health Information Technology to Improve Health Care Quality
- Jan 25 NCI: Cancer Education
- Jan 25 NCRR: Biomedical Technology Research Resources
- Jan 25 NIAAA: Alcohol Research Education Project Grants
- Jan 25 NICHD: Resource Program Grants in Bioinformatics; Adverse Outcomes of Assisted Reproductive Technologies; Developmental Mechanisms of Human Structural Birth Defects
- Jan 25 NIDA: Research Education Grants in Drug Abuse and Addiction
- Jan 25 NIH: Collaborative Neurological Sciences Award; Short Courses on Mathematical, Statistical, and Computational Tools for Studying Biological Systems; Translational Research for the Prevention and Control of Diabetes and Obesity; Educational Programs for Population Research

DHHS cont.

- Jan 25 NINDS: Cooperative Program in Translational Research—Multi-Component Research Projects; Diversity Research Education Grants in Neuroscience
- Jan 27 NCRR: Instrument Development for Biomedical Applications
- Jan 28 NCI: Etiology, Prevention, and Treatment of Hepatocellular Carcinoma
- Jan 28 NIDA: Interactions Between Physical Activity and Drug Abuse (R01 & R03)
- Jan 28 NIH: Mouse Models Containing Human Alleles: Novel Tools to Study Brain Function
- Jan 30 NHLBI: Data Coordinating Center for the NHLBI Asthma Network

NASA

- Jan 15 Specialized Centers of Research: Carcinogenesis and Central Nervous System Risks from Space Radiation

National Archives and Records Administration

- Jan 30 FDR Library: Grants-in-Aid

National Endowment for the Arts

- Jan 09 Literature Fellowships: Translation Projects

National Science Foundation

- Jan 02 ENG: Industry/University Cooperative Research Centers
- Jan 08 MPS: Instrumentation for Materials Research
- Jan 09 BIO: Ecology; Opportunities for Promoting Understanding Through Synthesis; Systematic Biology and Biodiversity Inventories Cluster; Ecosystem Science Cluster; Long-Term Research in Environmental Biology; Population and Evolutionary Processes

NSF cont.

- Jan 12 BIO: Behavioral Systems; Developmental Systems; Physiological and Structural Systems Cluster; Research Initiation Grants and Career Advancement Awards to Broaden Participation in the Biological Sciences
- Jan 12 EHR: Course, Curriculum, and Laboratory Improvement
- Jan 13 MPS: Mathematical Biology
- Jan 14 SBE: Cognitive Neuroscience
- Jan 15 SBE: Cultural Anthropology; Developmental and Learning Sciences; Geography and Regional Sciences; Law and Social Science; Linguistics; Perception, Action, and Cognition; Political Science; Social Psychology; Sociology
- Jan 16 GEO: Sedimentary Geology and Paleobiology; Geomorphology and Land Use Dynamics; Geobiology and Low-Temperature Geochemistry
- Jan 16 SBE: Methodology, Measurement, and Statistics
- Jan 18 SBE: Decision, Risk, and Management Science; Economics
- Jan 20 BIO: Plant Genome Research

Smithsonian Institution

- Jan 15 Office of Research Training and Services: Senior Fellowships
- Jan 15 American Art Museum: Fellowships in American Craft; 20th-Century American Realism; American Art
- Jan 15 Tropical Research Institute: Postdoctoral Fellowships

Other Programs**American Antiquarian Society**

- Jan 15 National Endowment for the Humanities Fellowships

American Association of Immunologists

- Jan 12 Minority Scientist Travel; Faculty Mentor–Minority Trainee Travel

American Council of Learned Societies

- Jan 16 Research on Heritage Speakers of East European Languages
- Jan 30 Eastern European Studies: Conference and Travel Grants

American Diabetes Association

- Jan 15 Various Awards: Career Development; Junior Faculty; Innovation; Young Investigator Innovation in Geriatric Endocrinology; Basic Science

American Otological Society

- Jan 31 Research Grants

American Research Center in Egypt

- Jan 09 NEH Fellowships for Professional and Postdoctoral Scholars; U.S. State Dept. Predoctoral & Postdoctoral Fellowships

American School of Classical Studies at Athens

- Jan 15 Fellowships: Environmental Studies; Faunal Studies; Geoarchaeology; Human Skeletal Studies

Association of Field Ornithologists

- Jan 07 Research Grants

British Association for American Studies

- Jan 30 Eccles Centre Fellowships

Goldhirsh Foundation

- Jan 13 Brain Tumor Research

Institute of International Education (Social & Physical Sciences and Technical Fields)

- Jan 16 Grassroots Development Fellowships for Graduate Students

McKnight Endowment Fund for Neuroscience

- Jan 02 Research Grants

Newberry Library (Chicago)

- Jan 12 NEH Fellowships

Research to Prevent Blindness

- Jan 01 Various Awards

West African Research Association

- Jan 02 Postdoctoral Fellowship

February 2009**Federal Programs****Energy**

- Feb 13 Sandia National Laboratories: Postdoctoral Position—Laser-Based Imaging Diagnostics for Combustion
- Feb 14 Sandia National Laboratories: Mechanical Engineering Summer Internship for Graduate Students
- Feb 15 Pacific NW National Laboratory: Summer Research Institute (SRI) in Interfacial and Condensed Phase Chemical Physics

Health and Human Services

- Feb 05 NCI: Immunoregulation of Gastrointestinal Carcinogenesis
- Feb 05 NIDCD: Epidemiological Research on Disorders of Hearing, Balance, Smell, Taste, Voice, Speech, and Language
- Feb 05 NIDDK: Identifying and Reducing Diabetes and Obesity-Related Health Disparities Within Healthcare Systems
- Feb 05 NIH: Bioengineering Research Partnerships; Community Participation in Research; Genetic Susceptibility and Variability of Human Structural Birth Defects
- Feb 05 NIMH: Deep Sequencing and Haplotype Profiling of Mental Disorders

DHHS cont.

- Feb 05 SAMHSA: Reducing Mental Illness Stigma and Discrimination
- Feb 08 CDC: Emerging Infectious Diseases Laboratory Fellowships
- Feb 12 CDC: Career Development Grants: Occupational Safety and Health Research
- Feb 12 NCI: Mentored Career Development Award to Promote Diversity; Established Investigator Award in Cancer Prevention and Control; Cancer Prevention, Control, Behavioral, and Population Sciences Career Development Awards
- Feb 12 NIH: Career Enhancement Award for Stem Cell Research; Mentored Quantitative Research Development Award; Senior Scientist Research and Mentorship Award
- Feb 15 NINDS: Research Supplements to Promote Re-Entry into Biomedical and Behavioral Research Careers
- Feb 16 AHRQ: Small Research Grants to Improve Health Care Quality Through Health Information Technology; Exploratory and Developmental Grants to Improve Health Care Quality Through Health Information Technology
- Feb 16 CDC: NIOSH Small Research Grant Program
- Feb 16 NIA: Aging Research Dissertation Awards to Increase Diversity; Human Biospecimen Resources for Aging Research
- Feb 16 NICHD: Contextual Approaches to Prevention of Unintended Pregnancy
- Feb 16 NIDA: Behavioral Science Track Award for Rapid Transition; Early Career Award in Chemistry of Drug Abuse and Addiction
- Feb 16 NIH: Planning Grants for Translational Research for the Prevention and Control of Diabetes and Obesity

DHHS cont.

- Feb 24 NICHD: Extramural Associates Research Development Award

NASA

- Feb 01 Earth and Space Science Fellowship; Graduate Student Researchers Program

National Science Foundation

- Feb 01 SBE: Science, Technology, and Society
- Feb 02 Innovation and Organizational Sciences; Science of Learning Centers
- Feb 11 GEO: Earth Sciences—Instrumentation and Facilities
- Feb 12 OCI: Strategic Technologies for Cyberinfrastructure
- Feb 13 ENG: Broadening Participation: Research Initiation Grants in Engineering
- Feb 15 ENG: Engineering Design and Innovation; Manufacturing and Construction Machines and Equipment; Materials Processing and Manufacturing; Hazard Mitigation and Structural Engineering; Operations Research; Nanomanufacturing
- Feb 15 GEO: Marine Geology and Geophysics; Biological Oceanography; Chemical Oceanography
- Feb 17 BIO: Advancing Theory in Biology
- Feb 19 MPS: Interdisciplinary Grants in Mathematical Sciences
- Feb 20 SBE: International Research and Education: Planning Visits and Workshops
- Feb 23 SBE: Human Origins—Moving in New Directions
- Feb 26 ENG: Partnerships for International Research and Education

Other Programs**American Chemical Society**

- Feb 15 Women Chemists Committee: Travel

American Society of Nephrology

- Feb 06 Various Research Grants

Ash Charitable Foundation

- Feb 13 Cancer Research

Columbia University

- Feb 01 Dept of Psychiatry: Behavioral Sciences Fellowship in HIV
- Feb 01 School of Public Health: Behavioral Sciences Research in HIV Infection

Feldstein Medical Foundation

- Feb 15 Support to Advance Previously Neglected Areas of Medical Research

Greenwall Foundation

- Feb 01 Interdisciplinary Program in Bioethics

National Trust for Historic Preservation

- Feb 01 Favrot Fund for Historic Preservation

Oak Ridge Associated Universities

- Feb 01 Student Research Participation at the Agency for Toxic Substances and Disease Registry (graduate & undergraduate students)
- Feb 02 Office of Biological and Environmental Research: Global Change Education Program

RAND Corporation

- Feb 09 Postdoctoral Research Program in the Study of Aging

Rocky Mountain Nature Association

- Feb 01 Graduate Student Fellowship

SIR Foundation

- Feb 01 Graduate Student Research: Interventional Radiology or Patient Care

AWARDS PROCESSED

Externally funded grants and contracts processed during November 2008

Title	Investigator(s)	Department(s)	Agency	Award
Research Awards				
*Dissecting the Regulatory Mechanisms of Eukaryotic Transcription-Coupled DNA Repair in Vivo	S. Bhaumik	Biochemistry and Molecular Biology	Edward Mallinckrodt, Jr. Foundation	\$60,000
*Proof-of-Concept: Coal-Based Algae Biodiesel	Y. Gao	Chemistry	IDCEO/ICCI	\$40,000
Virginia Black Duck Study	M. Eichholz	Cooperative Wildlife	Ducks Unlimited	\$48,500
*Effective Dust Control in Coal Mines	F. Pourboghraat R. Viswanathan M. Daneshdoost	Electrical and Computer Engineering Electrical and Computer Engineering Electrical and Computer Engineering	IDCEO/ICCI	\$115,291
*Problem-Based Learning of Multithreaded Programming for Multi-Core Processors	W. Zhang	Electrical and Computer Engineering	NSF	\$95,285
Development of Single Nucleotide Polymorphism (SNP) Markers for Identification of Pallid and Shovelnose Sturgeon Larvae	E. Heist	Fisheries Center	USDI/USGS	\$33,338
Fate and Effects of Sediment-Associated Pyrethroid Insecticides in Central Valley, California	M. Lydy A. Trimble	Fisheries Center Fisheries Center	USEPA	\$13,061
*A Study of Southern Illinois Boaters' Awareness, Knowledge, and Practices Associated with Aquatic Nuisance Species	M. Davenport	Forestry	Mississippi River Basin Panel on Aquatic Nuisance Species	\$5,010
*Wet Scrubber for Carbon Dioxide Capture from Flue Gas	K. Anderson T. Wiltowski K. Mondal	Geology Mechanical Engineering Mechanical Engineering	IDCEO/ICCI	\$28,600
*Integrated Study of Mercury and Other Trace Elements Distribution in Illinois Coal	L. Leticariu	Geology	IDCEO/ICCI	\$84,995
ICCI Coal Research Administration	K. Tucker	Illinois Clean Coal Institute	IDCEO/ICCI	\$679,280
ICCI Coal Research Program	K. Tucker	Illinois Clean Coal Institute	IDCEO/ICCI	\$2,359,078

Title	Investigator(s)	Department(s)	Agency	Award
Dynamic Loading on Composite and Sandwich Structures	S. Abrate	Mechanical Engineering	U.S. Navy/ONR	\$20,000
*Supercritical Phase Fischer-Tropsch Synthesis from Boac Derived Syngas	K. Mondal T. Wiltowski	Mechanical Engineering Mechanical Engineering	IDCEO/ICCI	\$39,999
*Field Performance Studies of Coated Chains on Continuous Miners for Noise Control	M. Szary Y. Chugh	Mechanical Engineering Mining Engineering	IDCEO/ICCI	\$81,061
*Support Defined Novel Catalyst for Enhanced Fischer-Tropsch Activity	T. Wiltowski K. Mondal Q. Ge	Mechanical Engineering Mechanical Engineering Chemistry	IDCEO/ICCI	\$132,654
*Evaluation of Efficacy of Abraxane/ Avastin Combination in Aggressive Model Breast Cancer	S. Ran	Medical Microbiology and Immunology	American Bioscience Inc.	\$69,303
*Evaluation of Efficacy of Soluble SPARC, Avastin, Abraxane for Inhibition of Growth and Metastasis in Breast Carcinoma	S. Ran	Medical Microbiology and Immunology	American Bioscience Inc.	\$49,192
*Ubc9 Promotes Tumor Metastasis by Regulation of microRNAs in Breast Cancer	S. Zhu	Medical Microbiology and Immunology	IDPH	\$25,000
*Field Demonstration of Novel Dust Control Concept for Mine Roadways and Continuous Miners	Y. Chugh	Mining Engineering	IDCEO/ICCI	\$158,952
*Underground Performance Assessment of an Engineered Composite Wooden Crib for Tail Gate Entry Support in Longwall	Y. Chugh	Mining Engineering	IDCEO/ICCI	\$22,587
*Monitoring and Analysis of SIUC Engineered Wooden Cribs in Two Longwall Mining Areas	H. Gurley Y. Chugh	Mining Engineering Mining Engineering	IDCEO/ICCI	\$43,999
*Evaluation of FGX Dry Separator for Cleaning Illinois Basin Coal	M. Mohanty	Mining Engineering	IDCEO/ICCI	\$155,877
*Rock Anchor with Resin-Insertion Improvement	A. Spearing	Mining Engineering	IDCEO/ICCI	\$39,022
*Corrosion of Rock Anchors in Coal Mines	A. Spearing K. Mondal	Mining Engineering Mechanical Engineering	IDCEO/ICCI	\$108,754
IMDN/Child and Family Connections - Mason County	J. Joost	Pediatrics	IDHS	\$11,000
*Role of Adenosine A3 Receptor in Suppressing Prostate Cancer Metastasis	V. Ramkumar	Pharmacology	USDHHS/NIH	\$218,250

Title	Investigator(s)	Department(s)	Agency	Award
*Development of Carbon Nanotube Based Catalyst Support for Fischer-Tropsch Synthesis	S. Talapatra	Physics	IDCEO/ICCI	\$39,999
Soybean Cyst Nematode Managed Research Area FY 2008	J. Bond	Plant, Soil, and Agricultural Systems	U of I (ISA)	\$74,000
Soybean Cyst Nematode Managed Research Area FY 2008	K. Meksem	Plant, Soil, and Agricultural Systems	U of I (ISA)	\$22,000
*Rural Methamphetamine-Abusing Parents and Their Children	J. Black	Psychiatry	U of I (USDHHS/NIH)	\$18,950
*Mechanisms of Fatigue in a Chronic Viral Disease	L. Toth	Research and Faculty Affairs	USDHHS/NIH	\$380,710
*Cormet Post Approval Study 10-Year Follow-up for IDE Subjects	J. Milbrandt	Surgery	Corin USA	\$43,830

Training Awards

Illinois Breast and Cervical Cancer Program	A. Hamilton	Continuing Medical Education	IDPH	\$15,000
Southern Regional Professional Development Center	N. Mundschenk R. Foley	Educational Psychology and Special Education Educational Psychology and Special Education	SIUE (ISBE)	\$73,996

Other Awards

WSIU and WUSI FM State Grant FY 2009	D. Kerstein C. Isberner	Broadcasting Service Broadcasting Service	IAC (CPB)	\$23,380
WSIU and WUSI TV State Grant FY 2009	D. Kerstein C. Isberner	Broadcasting Service Broadcasting Service	IAC (CPB)	\$202,620
Illinois State Library for Illinois Radio Information Service Grant	J. Williams V. Devenport	Broadcasting Service Broadcasting Service	ISOS/ISL	\$21,352
31st Annual Big Muddy Film Festival	D. Tudor	Cinema and Photography	IAC	\$4,230
*HRSA Southern Illinois Rural Health Planning Grant	J. Teufel H. Hartung Y. Sheng	Community Development Community Development Educational Psychology and Special Education	Southern Illinois Healthcare (USDHHS/HRSA)	\$17,000
Evaluation Coordinated School Health	E. Vitello	Community Development	Southern Seven Health Department (IDHS)	\$600
<i>Crab Orchard Review</i>	A. Joseph J. Tribble	English English	IAC	\$5,610
Southwestern Illinois Regional Occupant Protection Resource Center FY 2009	R. Walker	Health Ed and Recreation	IDOT (USDOT)	\$103,197

Title	Investigator(s)	Department(s)	Agency	Award
*Southern Illinois Symphony and Music Festival	E. Benyas	Music	IAC	\$12,070
Altgeld Performing Artist Series	K. Ginther	Music	IAC	\$4,000
Southern Illinois Children's Choir, 2008-2009 Season	J. Wagner	Music	IAC	\$2,470
*Addictions Disability Specialist (ADS) Certification Module	S. Koch	Rehabilitation Institute	Cerebral Palsy of New Jersey	\$3,600
*Co-Existing Disabilities Conference	S. Koch	Rehabilitation Institute	Cerebral Palsy of New Jersey	\$2,500
*Model Training Program	S. Koch	Rehabilitation Institute	Cerebral Palsy of New Jersey	\$7,500
Legal Services for Older Persons	M. Rudasill	School of Law	Egyptian Area Agency on Aging (USDHHS)	\$49,710
HIV/AIDS Awareness Week	S. Coriasco C. Hamilton	Student Center Student Health Programs	IDPH	\$5,000
Playground Renovation	E. Murray	Student Development	USED	\$167,615
*Boost IL - Child Passenger Safety Program	M. Reed	Surgery	IDOT	\$7,000
Spectrum Wilderness FY 2008	G. Schropp	Touch of Nature	IDCFS	\$43,905

*indicates new award

Awards Processed During November 2008 (54) \$6,089,932

Summary of Fiscal Year 2009 Awards Received to Date

excludes Financial Aid Office awards

	Fiscal Year 2009 Awards as of November 2008		Fiscal Year 2008 Awards as of November 2007	
Research	(108)	\$13,224,921	(145)	\$17,052,622
Training	(20)	\$2,657,997	(22)	\$1,761,925
Other	(69)	\$13,852,012	(71)	\$19,575,897
Federal	(57)	\$11,385,824	(67)	\$13,517,079
State	(78)	\$10,179,433	(85)	\$16,032,362
Industry	(10)	\$455,364	(16)	\$769,526
Foundation	(12)	\$402,254	(24)	\$996,346
Other	(40)	\$7,312,055	(46)	\$7,075,130
TOTAL	(197)	\$29,734,930	(238)	\$38,390,443

ORDA DIRECTORY of ASSISTANCE

www.siu.edu/orda • Woody Hall C-206 • phone: 453-4540 • fax: 453-8038 • mailcode: 4709 • orda@siu.edu
Prudence M. Rice, Director, 453-4531, pmrice@siu.edu

FUNDING OPPORTUNITIES & RESEARCH MATTERS

- Joel Fritzler, 453-4530, jcfritz@siu.edu

ORDA PUBLICATIONS & WEB SITE

• Marilyn Davis, 453-4540, mdavis@siu.edu
See www.siu.edu/orda/reports for a list of print and electronic publications. A comprehensive Sponsored Project Guide is online at www.siu.edu/orda/guide.

PROPOSAL SUBMISSION & GRANT MANAGEMENT

(workshops, consultation on proposal writing and budget preparation, proposal review and submission, grant award negotiation, account set-up, time extensions, rebudgeting, etc.)

- **Affirmative Action, Applied Sciences, Ctr. for Rural Health, Education, Liberal Arts, Library Affairs, Mass Communications:** Meg Martin, 453-4538, mzmartin@siu.edu
- **Agriculture, Business, Continuing Ed., Grad. School, Law, Medicine, Student Affairs:** Joel Fritzler, 453-4530, jcfritz@siu.edu
- **Engineering:** Steve Banker, 453-4540, sbanker@siu.edu
- **Science, Fisheries, Wildlife:** Ashley Matzenbacher, 453-4542, acohoon@siu.edu

CONTRACTS & SUBCONTRACTS, AUDITS

- Sonjie Schwartz, 453-4541, sonjie@siu.edu

INTERNAL FUNDING PROGRAMS

See www.siu.edu/orda/internal for info about the Faculty Seed Grant Program, Interdisciplinary Research Seed Grant Program, Matching Funds Program, and Travel Support Program.

RESEARCH COMPLIANCES

Projects that will involve human subjects, human stem cells, vertebrate animals, or hazardous materials require prior approval.

- **Human Subjects Committee:** see www.siu.edu/orda/human or contact Karen Rowland, 453-4533, siuhsc@siu.edu.
- **Institutional Animal Care and Use Committee:** see www.siu.edu/~iacuc or contact Karen Rowland, 453-4533, iacuc@siu.edu.
- **Stem Cell Research Oversight Committee:** see www.siu.edu/orda/compliances/stemcells.html or contact Karen Rowland, 453-4533, escro@siu.edu.
- **Institutional Biosafety Committee:** contact Douglas Fix, Biological Safety Officer, 453-7180, dfix@cehs.siu.edu.
- **Radiological Control Committee:** contact Matt Barnstable, Radiation Safety Officer, 536-2015, mbarnstable@cehs.siu.edu.
- **Hazardous Chemical Oversight:** contact Paul Restivo, Director, Center for Environmental Health and Safety, 453-7180, restivo@cehs.siu.edu.

REACH (UNDERGRADUATE RESEARCH PROGRAM)

- Meg Martin, 453-4538, mzmartin@siu.edu, www.siu.edu/~reach

TECHNOLOGY TRANSFER (PATENTS/COPYRIGHTS)

- Jeff Myers, 453-4556, jmyers@siu.edu, www.siu.edu/~techtransfer

RESEARCH SUPPORT FACILITIES

The facilities provide services ranging from micro-imaging to equipment fabrication. See www.siu.edu/~ovcr/support.html.

Address changes or requests for electronic subscriptions: Joel Fritzler, MC 4709, 453-4530 or jcfritz@siu.edu.
Research Matters is on ORDA's web site at www.siu.edu/orda/rm.



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