

CALLING ALL READERS

The FY 2008 budget for *Research Matters* has been cut by more than 50%. We will soon be deciding which sections to shorten or cut, or whether to scrap the print newsletter and publish only online. **This newsletter is for you, and we'd like to get your input.** Please take a few moments to check which sections you read most often (and thus are most important to you); then tear off this page and mail it to Joel Fritzler at ORDA, mailcode 4709. For those of you reading this electronically, we'd still like your feedback about these sections; please drop an e-mail to jcfritz@siu.edu.

	Always Read	Sometimes Read	Seldom Read	Never Read
Of Special Note	_____	_____	_____	_____
Research Digest	_____	_____	_____	_____
Funding Opportunities	_____	_____	_____	_____
Grant Deadlines	_____	_____	_____	_____
Awards	_____	_____	_____	_____

In the meantime, *Research Matters* is available online at www.siu.edu/orda/rm. We maintain an e-mail notification list that alerts readers when each new issue of the newsletter is ready. If you'd like to help save costs (and trees), please ask Joel to add you to the e-mail list and remove you from the hard-copy mailing list.

covers only journal articles, whereas in many humanities fields and in some areas of social science, the emphasis is on individually authored books and monographs, rather than articles.

Nonetheless, the authors conclude that although "solo authors did produce the papers of singular distinction in science and engineering and social science in the 1950s, ... the mantle [*sic*] of extraordinarily cited work has passed to teams by 2000" (p. 3).

It has long been recognized that research and scholarship are increasingly emphasizing collaborative, and particularly interdisciplinary, inquiry, and this is even more important in the 21st century. Here at SIUC, the Office of the Vice Chancellor for Research has begun a program of annual interdisciplinary research seed grants to try to stimulate more team-based research on campus. We would welcome any ideas from faculty and staff as to other initiatives that might further encourage such collaboration.

OF SPECIAL NOTE

Jo Nast to Retire

Research project specialist and REACH coordinator Jo Nast will be retiring at the end of May and will be greatly missed. She is currently the ORDA contact for the Colleges of Liberal Arts and Mass Communication. As ORDA is still in the process of hiring a research project specialist to replace Erick Schwartz, the world of grant processing will get a bit more exciting in Woody Hall, so your assistance is greatly needed. ORDA currently requires that electronic proposals be submitted for signature at least 24 hours in advance, and that hard-copy proposals be submitted at least 48 hours in advance. **Researchers need to observe these deadlines and to allow even more lead time if possible. There have been a few close calls recently,** and it would be unfortunate if a proposal could not be submitted after taking several days to prepare.

Heads-Up on CAREER Awards

Faculty who are considering applying to the National Science Foundation's CAREER Awards Program (see p. 2; deadlines are in mid-July) should contact Steve Banker at ORDA as soon as possible (453-4540, sbanker@siu.edu).

ORDA typically receives a large volume of proposals for this program, which makes it challenging to get proposals submitted on time via FastLane. This year, with the current short staffing in ORDA, we are even more concerned that last-minute proposal preparation could cause problems in meeting the submission deadline.

In addition, CAREER Award proposals have different requirements from other types of NSF awards and can be more time-consuming to put together. We can help advise you on the process.

SIUC faculty have been very successful in this program; there have been eight CAREER Award recipients over the past several years. We'd like to continue that success!

Students Clean Up at StLAURS

SIUC students took half the prizes at this year's St. Louis Area Undergraduate Research Symposium (StLAURS), held on April 21. Washington University sponsored the two-year-old event.

During last year's inaugural competition SIUC students won three prizes, the most of any public institution. This year, SIUC won the most of any institution, public or private. The other universities competing in the symposium were Washington University, St. Louis University, Webster University, the University of Missouri-Rolla, and the University of Missouri-Columbia.

SIUC swept the poster competition: psychology student Jeremy Pierce took first place, plant biology student Dave Dalzotto took second place, and zoology student Brett Timmons took third place. In the oral presentations competition, physiology student Sean Goodin took first place. The mentors for these students were Michael Hoane, Sara Baer, Anita Kelly, and April Strader, respectively.

Congratulations to all!

Faculty Seed Grants Awarded

The following faculty received awards in the 2007 Seed Grant competition.

Ajuwon, Kolapo M.
Animal Science, Food and Nutrition
"Role of Oxidized Low-Density Lipoprotein Receptor (OLR1) in Obesity-Induced Insulin Resistance in Adipose Tissue"

Akkaya, Kemal
Computer Science
"Delay and Coverage Aware Operation of Wireless Actor and Sensor Networks"

Bender, Kelly S.
Microbiology
"Analysis of Viruses Associated with Biofuel-Producing Bacteria"

Bixby, Randy L.
Library Affairs
"Special Collections Research Center Theater Collections"

Davie, Judith K.
Medical Biochemistry and Molecular Biology
"Regulation of Skeletal Muscle Gene Expression by Myogenin"

Gertsman, Elina
School of Art and Design
"The Shrine Madonna in the Middle Ages: Gothic Art and the Discourse of Unveiling"

Hildreth, Roudy
Political Science
"Civic Engagement in Post-Conflict Societies: A Transnational Network Analysis"

Komaraju, Meera
Psychology
"Examining College Students' Implicit and Explicit Attitudes Toward Academic Motivation and Achievement"

Montoya Kirk, Celeste M.
Political Science
"Combating Violence Against Women in Europe: The European Union and Transnational Advocacy"

Mumba, Frackson
Curriculum and Instruction
"An Investigation of Instructional Practices of High School Teachers for Inclusive Science Classrooms"

Narayan, Prema
Physiology
"Proteomic Profiling of Sperm from a Mouse Model with Constitutive Luteinizing Hormone Receptor Activity"

Olson, Michael
Kinesiology
"Increased Lumbar Viscoelastic Tissue Compliance as a Function of Sustained Static Trunk Flexion"

Padovani, Cinzia
School of Journalism
"Mapping the Field of Public Debate on Digital Television in Italy"

Pérez-Alvarado, Gabriela
Chemistry and Biochemistry
"Characterization of the Interactions of the Pancreatic Cancer-Derived Protein-1 with the Cytoskeleton During Metastasis"

Prowse, Tracy
Anthropology
"Excavation and Isotopic Analysis of a Rural Roman Cemetery at Vagnari, South Italy"

Silbert, Leonardo
Physics
"Mechanical Stability and Stress Propagation in Granular Materials"

Webster, Anthony
Anthropology
"Navajo Translation Project"

Wang, Yu-Wei
Psychology
"A Qualitative Study of Sexual Assault and Abuse Survivors Coping in Cultural Context"

Walker, Rheeda
Psychology
"Combined Environmental and Genetic Factors in Suicide Risk"

Zhu, Mengxia
Computer Science
"Visualization and Analysis of Large-Scale DNA Microarray Data Using Ajax Web Technology"

RESEARCH DIGEST

Doris Duke Fund to Back Global Warming Research

—*excerpted from The Chronicle of Higher Education, Apr. 20, 2007*

The Doris Duke Charitable Foundation has pledged \$100 million over five years to speed the development of new energy technologies that can reduce the threat of global warming. "In our view the debate over global warming is settled," says Andrew Bowman, director of the new grant-making effort. "We now need to apply resources on how we are going to build a new, clean-energy economy."

Most of the grants will be used to explore ways that government policy can help spur the development and adoption of clean, climate-friendly energy sources, increase conservation, and lessen the demand for traditional fuels, such as coal. The foundation said it was increasing its spending to pay for the effort, not cutting the amount it awards to any of its other grant-making efforts, which focus on the performing arts, wildlife conservation, medical research, and the prevention of child abuse. The foundation has about \$1.9 billion in assets. It expects to start naming grant recipients in June.

NSF Revisits Cost-Sharing Policies

—*excerpted from Science, Apr. 13, 2007*

Cost sharing has long been a requirement for many types of National Science Foundation (NSF) grants. In 2001, institutions pledged more than \$500 million to supplement some 3,300 NSF-funded projects. But despite its value in leveraging federal dollars, cost sharing can also give wealthier institutions an advantage in vying for an award. So in 2004, NSF decided to eliminate the provision from future program announcements. Now NSF's oversight body, the National Science Board (NSB), wants to revisit the issue. Some board members worry that local and state governments, industry,

and other nonfederal research partners have lost interest in research collaborations since they don't have a financial stake in the project.

The decision to reopen a long-running debate disturbs some university administrators, who note that federal funding already falls short of paying for the full cost of academic research. Universities spent \$8 billion a year on academic research in 2005—more than either companies or state governments.

U.S. Agencies Quiz Universities on the Status of Women in Science

—*excerpted from Science, Mar. 30, 2007*

The U.S. government has begun questioning research universities to determine whether their treatment of women students in science and engineering violates federal law. *Science* has learned that officials from NSF, DOE, and NASA have visited three campuses (Columbia University, the University of Michigan, and the University of Maryland) to monitor their compliance with a 1972 law that prohibits sex discrimination in educational programs and activities receiving federal funds. The law's Title IX has traditionally been used to broaden women's participation in athletics; educators say it's the first time the government has applied it to long-standing gender imbalances in fields such as physical sciences and engineering.

Women are underrepresented in several areas of U.S. science. Only 22% of graduate students in engineering, and fewer than 10% of engineering professors, are women. Although some argue that such imbalances merely reflect personal preferences, others blame a male-oriented culture within many science and engineering departments. A 2004 report by the Government Accountability Office, which scolded NSF, DOE, and NASA for not checking to see whether their grantees are complying with Title IX, prompted the current round of reviews.

Chemistry Reports Warn of Eroding American Lead in Research

—*excerpted from Science, Apr. 6, 2007*

The outlook for U.S. scientific leadership remains cloudy. That's the gist of two new reports the National Research Council released in March on the future of U.S. research in chemistry and chemical engineering. The first report warned that American preeminence in chemistry research is slipping away as the country grapples with declining numbers of homegrown doctoral degrees in chemistry and the rise of competition from Europe and Asia. The second report predicted sunnier skies for U.S. leadership in broad areas of chemical engineering research, although it warned that the heavy emphasis on biology, nanotechnology, and other hot fields in research spending threatens to undermine less-sexy areas of the discipline.

Although the U.S. remains the single strongest country in a variety of measures of chemistry research, the trends are largely pointing in the wrong direction. For example, U.S. researchers are presently publishing only 18% of the papers in the field, down from 23% a decade ago. Over that same period, the output from Asian countries other than Japan tripled and is now on par with the U.S. output.

In education, the clouds appear even darker. The number of chemistry Ph.D.s awarded to native-born students has sunk roughly 25% since 1970. Universities have made up the difference with foreign students, who now earn nearly half of all chemistry Ph.D.s awarded by U.S. universities. But as industry jobs continue to move overseas and visas remain tight in the wake of the 9/11 attacks, the percentage of foreign-born Ph.D. chemists who have chosen to stay in the U.S. has declined over the past five years.

Although the new reports didn't offer solutions, the Bush Administration's competitiveness initiative, which aims to double U.S. physical sciences research over 10 years, is a step in the right direction.

Universities Make Case for Increased NIH Funding

—*excerpted from Report on Research Compliance, March 29, 2007*

A group of universities has produced a 22-page report (http://hms.harvard.edu/public/news/nih_funding.pdf) highlighting advances in medical research and making the case for increased funding for the National Institutes of Health (NIH). The report is called "Within Our Grasp or Slipping Away? Assuring a New Era of Scientific and Medical Progress." The NIH budget doubled between 1998 and 2003, enabling researchers to achieve historic progress. But after this great push forward, the budget stagnated. Some work has been frozen, and eight out of 10 grant applications now go unfunded. The effects of the flat budget have been exacerbated by inflation, and together account for an 8 percent loss in purchasing power for the NIH.

Proposed Biosecurity Review Plan Endorses Self-Regulation

—*excerpted from Science, Apr. 27, 2007*

A federal advisory group has finally come up with a plan for how the government should oversee biological research involving experiments that could potentially be used by bioterrorists to cause harm. The plan would let scientists decide whether their project raises concerns, which would then trigger a higher-level review. Many microbiologists like the idea of self-regulation, but even supporters are frustrated by the lack of details provided by the National Science Advisory Board for Biosecurity (NSABB). A 2004 National Research Council report warned that stringent regulations could impede legitimate research and called for a self-governing system of oversight.

It is not entirely clear how the plan might work. The report calls for a voluntary system yet suggests that funding agencies make compliance a condition of funding. The report will now go to an interagency committee, which will seek public comment.

FUNDING OPPORTUNITIES

For more information about these programs, contact Joel Fritzler, ORDA Information Specialist, at 3-4530 or jcfritz@siu.edu.

NSF: Faculty Early Career Development (CAREER) Program

The CAREER Program is a National Science Foundation-wide activity that offers the NSF's most prestigious awards in support of the early career-development activities of those teacher-scholars who most effectively integrate research and education within the context of the mission of their organization. Such activities should build a firm foundation for a lifetime of integrated contributions to research and education. NSF encourages submission of CAREER proposals from junior faculty members at all CAREER-eligible organizations and especially encourages women, members of underrepresented minority groups, and persons with disabilities to apply.

For information about this program, see <http://tinyurl.com/39xae>. General inquiries regarding the program should be made to the Division CAREER contacts listed on the CAREER web page, at <http://tinyurl.com/2lkdaq>.

ORDA is asking that faculty who contemplate submitting a CAREER proposal this year contact Steve Banker as soon as possible (sbanker@siu.edu, 453-4540). See the notice on page 2. Applicants also may want to talk with current CAREER Award holders at SIUC (in chemistry, physics, and electrical & computer engineering).

DEADLINES: Biological Sciences; Computer and Information Science and Engineering; Education and Human Resources—July 17; Engineering—July 18; Geosciences; Mathematical and Physical Sciences; Social, Behavioral, and Economic Sciences; Office of Polar Programs—July 19

NSF: Graduate Teaching Fellowships in K-12 Education

NSF is soliciting proposals for the Graduate Teaching Fellowships in K-12 Education (GK-12) program. This program provides funding to graduate students in NSF-supported science, technology, engineering, and mathematics (STEM) disciplines to acquire additional skills that will broadly prepare them for professional and scientific careers in the 21st century. During their tenure as fellows, they must be full-time graduate students pursuing master's or Ph.D. degrees in STEM disciplines.

Approximately \$16 million in FY 2008 funding is expected to be available for 25 new awards having a project period of up to five years. Awards of up to \$600,000 per year may be made. For more information about this program, see <http://tinyurl.com/2r47t7> or contact Sonia Ortega (703-292-8697, sortega@nsf.gov) or Umesh Thakkar (703-292-8697, uthakkar@nsf.gov).

SIUC currently has a major GK-12 program; see www.siu.edu/~heartlandGK12.

DEADLINES: Letters of Intent (required)—May 16; Proposals—July 7

NSF: Population and Evolutionary Processes

The National Science Foundation's Population and Evolutionary Processes Cluster focuses on population properties that lead to variation within and among populations. It funds research in the following areas: Population Dynamics, Evolutionary Ecology, Evolutionary Genetics, and Molecular Population Biology. Approaches include empirical and theoretical studies of microevolution, organismal adaptation, geographical differentiation, natural hybridization and speciation, and processes that lead to macroevolutionary patterns of trait evolution.

For information about this program, see <http://tinyurl.com/2mmvrk> or contact Mark Courtney (703-292-8481, mcourtne@nsf.gov).

DEADLINE: July 9

NSF: Advancing Theory in Biology

The National Science Foundation's Biological Sciences Directorate will fund grants to advance our conceptual and theoretical understanding of the dynamics of living systems. The emergence of complex biological phenomena from dynamic interactions among less complex elements is a central theme in modern biology, and it permeates inquiries at all levels of biological organization, from macromolecules to ecosystems. Such interactions are typically non-linear, distributed, and span many levels of biological organization. These properties limit the understanding that can be gained by traditional experimental analyses.

The NSF program is designed to develop new conceptualizations and theoretical approaches to identify fundamental principles that cross levels of biological complexity. Projects may vary in size (up to \$250,000 per year), in duration (up to three years), in the number of investigators involved, and in the nature of collaborations.

It is estimated that 20 to 25 awards will be made from an anticipated funding amount of \$3.5 million in FY07 and up to \$5 million in FY08 and in FY09. For additional information about this program, see <http://tinyurl.com/3bplsk> or contact Saran Twombly (703-292-8133, BioTheory@nsf.gov) or Paul Farel (703-292-8417, BioTheory@nsf.gov)

DEADLINE: July 3

Anheuser-Busch: Renewable Energy and Wildlife Conservation Research Prize

Anheuser-Busch and the National Fish and Wildlife Foundation are inviting applications for the **Budweiser Renewable Energy and Wildlife Conservation Research Prize**. This funding opportunity seeks to advance new technologies or practices that contribute to making renewable energy a more practical energy alternative. A \$100,000 prize will be awarded to one project that best

demonstrates collaborative research to advance the use of renewable energy for industrial applications while demonstrating the measurable benefits such practices have in advancing wildlife conservation.

Preference will be given to projects working collaboratively among different departments within a university and with public agencies and nonprofit organizations. For additional information about this program, see <http://tinyurl.com/2367o2>.

DEADLINE: June 29

DOE: Solar Energy Technologies

The U.S. Department of Energy's Solar Energy Technologies Program (SETP) supports the Solar America Initiative, which seeks to develop advanced photovoltaic technologies with the goal of making solar electricity generation cost-competitive with other forms of renewable electricity by 2015. The objective of SETP is to support the development of long-term technological advances. The program will fund grants for exploratory R&D toward the development of innovative, revolutionary, and highly disruptive future-generation solar-to-electric conversion technologies. The device and manufacturing process research that is targeted by this funding opportunity would be expected to produce prototype cells and/or processes by 2015, with full commercialization coming to fruition in the 2020-2030 time-frame.

It is estimated that 15 awards of up to \$300,000 per year for up to three years will be made from an anticipated funding amount of \$12 million. A 20% cost share is required. For more information about this program, see <http://tinyurl.com/2v8em> or contact Michael Schledorn (303-275-4994, FutureGen@go.doe.gov). Questions regarding the content of the announcement must be submitted through the "Submit Question" feature of the DOE Industry Interactive Procurement System at <http://e-center.doe.gov>.

DEADLINE: June 26

Organic Farming Research Foundation

The Organic Farming Research Foundation funds research on organic farming and food systems and the dissemination of these research results to the greater agricultural community. Proposals must involve farmers or ranchers in project design and implementation and take place on working organic farms or ranches whenever possible. Additionally, proposals should articulate how the proposed research project will foster the improvement or adoption of organic farming systems.

For more information about this program, see <http://tinyurl.com/2wtyry>, or contact the foundation at 831-426-6606 or jane@ofrf.org.

DEADLINE: July 16

Illinois Board of Higher Education: Innovation Grants

In accordance with the provisions of the Higher Education Cooperation Act (HECA), the IBHE is seeking applications for Innovation Grants. These grants are designed to support new projects that are innovative in both concept and methodology for implementation. Successful proposals will feature inter-institutional cooperation in higher education that promotes the efficient use of educational resources, an equitable distribution of educational services, the development of new and innovative educational concepts that effectively deliver educational programs, and involvement with the local community. Each proposal must clearly address an eligible funding category for consideration.

Cooperatives eligible to apply for a grant must include at least two public or private not-for-profit higher education institutions. Proposals **must be submitted online**. Application materials are available at www.ibhe.org; instructions for using the online application can be found in Appendix A. In addition, three cover pages with original signatures must be mailed to: FY2008 HECA Innovation

Grant, IBHE, 431 E. Adams St., 2nd Floor, Springfield, IL 62701-1404.

For more information about this program, see <http://tinyurl.com/yvttpp> or contact Rich Jachino (217-557-7339, Grants@ibhe.org).

DEADLINE: May 31

NIJ: Graduate Research Fellowships

The National Institute of Justice, part of the U.S. Department of Justice, is inviting applications for the Graduate Research Fellowship program. This program provides dissertation research support to outstanding doctoral students undertaking independent research on issues related to crime and justice. Students from any academic discipline may propose original research that has direct implications for criminal justice in the United States. Students must have completed all doctoral degree requirements except for the research, writing, and final defense of a dissertation.

Up to 10 research grants of up to \$20,000 will be awarded to successful applicants for costs associated with dissertation research. Awards are made to educational institutions on behalf of doctoral candidates.

For more information about this program, see <http://tinyurl.com/yyp49a> or contact Christine Crossland (202-616-5166, christine.crossland@usdoj.gov) or Stanley Erickson (202-305-4686, stanley.erickson@usdoj.gov).

DEADLINE: Nov. 28

Paul Simon Fellowship

The objective of this fellowship program, run by the state's Office of Lieutenant Governor, is to provide a highly motivated college graduate with an introduction to state government gained through immersion in issues championed by Paul Simon as Lt. Governor. Fellows will work full time for one year and are paid an annual salary of \$30,000 plus \$3,000 for health insurance.

Eligible applicants must have completed, at minimum, one bachelor's degree; have strong writing and communication skills; and have demonstrated leadership ability. For additional information about this program, see <http://tinyurl.com/34y44s> or contact Simone McNeil (312-814-5220).

DEADLINE: June 22

William T. Grant Foundation: Scholars Program

The William T. Grant Foundation supports research to understand and improve the settings of youth ages 8 to 25 in the United States. Important settings include schools, youth-serving organizations, neighborhoods, families, and peer groups.

The foundation's Scholars Program supports promising early-career researchers from various disciplines who contribute to this goal. Awards are intended to facilitate the professional development of early-career scholars who have demonstrated success in conducting high-quality research and are seeking to further develop their skills and research. Studies from these scholars contribute to theory and policy/practice for improving the lives of young people.

Four to six William T. Grant Scholars are selected each year, and each receives \$350,000 distributed over a five-year period. The program, now in its 27th year, has funded 124 scholars since its inception.

For more information about this program, see <http://tinyurl.com/4coqh>, or contact the foundation at 212-752-0071 or info@wtgrantfdn.org.

DEADLINE: July 11

American Heart Association

The AHA's National Established Investigator Program and Greater Midwest Affiliate Scientist Development Program support mid-term investigators with unusual promise and an established record of accomplishments. Candidates

must have a demonstrated commitment to cardiovascular or cerebrovascular science as indicated by prior publication history and scientific accomplishments. A candidate's career is expected to be in a rapid growth phase.

The AHA funds research broadly related to cardiovascular disease and stroke. It supports research in clinical and basic sciences, bioengineering, biotechnology, epidemiology, and public health. Applications related to obesity, women and heart disease, and resuscitation are particularly encouraged.

The maximum award amount for the **National Established Investigator Award** is \$100,000 per year (including 10% indirect costs) for up to five years. For information about this program, see <http://tinyurl.com/3bkic9> or contact the AHA at 214-360-6106 or affl@heart.org.

The maximum award amount for the **Greater Midwest Affiliate Scientist Development Grant** is \$71,500 per year (including 10% indirect costs) for a three-year period. For information about this program, see <http://tinyurl.com/3cn6t3> or contact the AHA (info above).

DEADLINES: National Established Investigator—July 11; Greater Midwest Affiliate Scientist Development—July 12

NCI: Cancer Prevention Research Small Grants

This National Cancer Institute program is designed to aid and facilitate the growth of a cadre of scientists with expertise in cancer prevention research. Small grants are short-term awards that provide support for pilot projects, development and testing of new methodologies, or innovative projects that provide a basis for more extended research.

The Division of Cancer Prevention will consider applications that address developmental research in chemoprevention agent development, biomarkers, early detection, and nutrition science, in addition to clinical studies that focus on specific target organs. This

program is not intended for the support of projects that are focused on treatment, etiology, and/or treatment-related general quality-of-life studies that are population-based.

For more information about this program, see <http://tinyurl.com/38pv6j> or contact Padma Maruvada for Early Detection (301-496-3893, maruvadp@mail.nih.gov), Harold Seifried for Nutrition (301-496-8573, hs41s@nih.gov), or Vernon Steele for Chemoprevention (301-594-0420, steelev@mail.nih.gov).

DEADLINE: July 20

Damon Runyon Cancer Research Foundation

Preliminary proposals are being accepted by the foundation for the Damon Runyon-Rachleff Innovation Award. Up to five awards of \$450,000 each over three years will be given to researchers in the early stages of their careers who have "high-risk/high-reward" ideas for the prevention, diagnosis, or treatment of cancer.

Eligible applicants include assistant professors, clinical instructors, or senior postdoctoral fellows who are conducting independent research. Nominees must devote at least 80 percent of their time to conducting research.

For more information about this program, see <http://drcrf.org/apinnovation.html> or contact the foundation (212-455-0520 or awards@drcrf.org).

DEADLINE: Preliminary Proposals—June 1; Full Proposals—Sept. 10

GRANT DEADLINES

June and July 2007

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 [Jbel Fritzler](mailto:Jbel.Fritzler@siu.edu) (453-4530 or jcfritz@siu.edu) or see the "External Funding" pages on ORDA's website.

June 2007

Federal

Agriculture

- Jun 01 CSREES: Plant Biosecurity; Research and Education; Professional Development
- Jun 05 CSREES: Animal Growth and Nutrition Utilization; Animal Genome; Agricultural Markets and Trade; Air Quality; Human Nutrition and Obesity; Plant Biology
- Jun 05 CSREES: Microbial Genomics (B)—Functional Genomics of Microorganisms
- Jun 05 CSREES: Arthropod and Nematode Biology and Management (B) and (C)—Suborganismal Biology and Tools, Resources, and Genomics

Defense

- Jun 05 DARPA: Cognitive Information Processing Technology
- Jun 15 USAF: Fuselet Production Environment
- Jun 21 DARPA: Cognitive Technology Threat Warning System
- Jun 30 ARI: Fundamental Research in Behavioral Science—Training, Leader Development, and Soldier/Personnel Issues

Energy

- Jun 26 Future-Generation Photovoltaic Devices and Processes

Health and Human Services

- Jun 01 NIOSH: Small Research Grants
- Jun 01 NIDA: Drug Abuse Dissertation Research—Epidemiology, Prevention, Treatment, Services, and Women and Sex/Gender Differences
- Jun 01 NIMH: Interventions and Practice Research Infrastructure
- Jun 05 CDC: Occupational Safety and Health Research
- Jun 05 NCI: Cancer Education Grants
- Jun 05 NCI: Immunoregulation of Gastrointestinal Carcinogenesis (R01)
- Jun 05 NIAAA: Epidemiological Research on Disorders of Hearing, Balance, Smell, Taste, Voice, Speech, and Language
- Jun 05 Complementary and Alternative Medicine for Substance and Alcohol-Related Disorders (R01, R03, & R21)
- Jun 05 Developmental Biology and Regeneration of the Liver
- Jun 05 Drug Discovery for Nervous System Disorders
- Jun 05 Reducing Mental Illness Stigma and Discrimination
- Jun 12 NINDS: Career Development Award to Promote Diversity in Neuroscience Research
- Jun 12 Career Enhancement Award for Stem Cell Research
- Jun 12 Mentored Quantitative Research Development
- Jun 12 Senior Scientist Research and Mentorship Award
- Jun 16 AHRQ: Small Research Grant Program
- Jun 16 Development and Application of PET and SPECT Imaging Ligands as Biomarkers for Drug Discovery and for Pathophysiological Studies of CNS Disorders
- Jun 16 Nutrition and Diet in the Causation, Prevention, and Management of Heart Failure
- Jun 16 NCI: Immunoregulation of Gastrointestinal Carcinogenesis (R21—exploratory)

HHS cont.

- Jun 16 NIDA: Early Career Award in Chemistry of Drug Abuse and Addiction
- Jun 22 NIDDK: Obesity Nutrition Research Centers
- Jun 23 NIAMS: Small Grant Program for New Investigators
- Jun 25 NIAID: HIV Interdisciplinary Network for Pathogenesis Research in Women

National Science Foundation

- Jun 01 GEO: Geophysics Tectonics Hydrologic Sciences Petrology and Geochemistry
- Jun 02 MPS: University-Industry Cooperative Research Programs in Mathematical Sciences
- Jun 05 MPS: Enhancing the Mathematical Sciences Workforce in the 21st Century
- Jun 06 Research Experiences for Undergraduates (REU)
- Jun 25 MPS: Chemistry Research Instrumentation and Facilities—Departmental Multi-User Instrumentation

Other**African American Success Foundation**
(Attitudinal Research)

- Jun 08 Tutt-Jones Grant

American Academy of Family Physicians

- Jun 01 Research Grants

American Association for Cancer Research

- Jun 12 Translational Research

American Lung Association

- Jun 01 Lung Cancer Discovery Award

American Psychological Association

- Jun 01 Violence and Intervention Grants

American Society for Biochemistry and Molecular Biology

- Jun 01 Research Grants

American Sociological Association

- Jun 15 Fund for the Advancement of the Discipline

American Tinnitus Association

- Jun 30 Research Grants

Anesthesia Patient Safety Foundation

- Jun 18 Research Grants

Angelman Syndrome Foundation

- Jun 15 Research Grants

Biomedical Engineering Society

- Jun 01 Research Grants

Children's Cancer Research Fund

- Jun 15 Research Grants

Christopher Reeve Foundation

- Jun 15 Research Grants in Neurology, Paralysis, and Spinal Cord Injury

College of American Pathologists Foundation

- Jun 01 Conference Travel Award

Gerda Henkel Foundation

- Jun 29 History Research

Hereditary Disease Foundation

- Jun 15 Postdoctoral Fellowships and Research Grants

International Rett Syndrome Association

- Jun 05 Research Grants

Juvenile Diabetes Research Foundation

- Jun 30 Research Grants

Lindbergh Foundation

- Jun 14 Research/Projects on the Advancement of Technology and Preservation of the Natural/Human Environment

Mineralogical Society of America

- Jun 01 Research in Crystallography

Missouri Historical Society

- Jun 30 Grants (no residency requirement)

Muscular Dystrophy Association

- Jun 15 Research Grants

Thrasher Research Fund

(Pediatrics)

- Jun 15 New Researcher Award

United Engineering Foundation

- Jun 01 Engineering Education Grants

July 2007**Federal****Defense**

- Jul 02 DARPA: Chemical Robots
- Jul 05 DARPA: BioFuels
- Jul 09 DARPA: Radiation Biondosimetry
- Jul 24 USAF: Young Investigator Research
- Jul 27 DARPA: Steep-Subthreshold-Slope Transistors for Electronics with Extremely Low Power
- Jul 31 Navy: Naval History Scholarship

Health and Human Services

- Jul 01 NCI: Established Investigator Award in Cancer Prevention and Control
- Jul 19 NHLBI: Short-Term Training Program to Increase Diversity in Health-Related Research
- Jul 20 Mechanism for Time-Sensitive Research Opportunities
- Jul 21 NCI: Cancer Prevention Research Small Grants
- Jul 24 Centers for Neurodegeneration Science

Interior

- Jul 27 FWS: North American Wetlands Conservation—Standard Grants

Justice

- Jul 16 OJP: DuBois Fellowship (Research on the Confluence of Crime, Justice, and Culture in Societal Contexts)
- Jul 16 OJP: Data Resources Program 2008—Funding for the Analysis of Existing Data

NASA

- Jul 06 ROSES: Mars Instrument Development Project
- Jul 18 ROSES: Mars Fundamental Research
- Jul 20 ROSES: Geospace Science
- Jul 25 ROSES: Earth Surface and Interior
- Jul 25 ROSES: Space Archaeology

National Endowment for the Humanities

- Jul 03 Preservation and Access Education and Training

National Science Foundation

- Jul 01 GEO: MARGINS
- Jul 01 SBE: Physical Anthropology
- Jul 06 ENG: Research Experiences for Teachers—Supplemental and Sites
- Jul 09 Quantitative Environmental and Integrative Biology
- Jul 09 BIO: Revisionary Syntheses in Systematics; Systematic Biology; Long-Term Research in Environmental Biology; Ecosystem Science; Population and Evolutionary Processes
- Jul 12 BIO: Environmental and Structural Systems; Functional and Regulatory Systems; Behavioral Systems; Developmental Systems; Cluster for Cellular Systems
- Jul 14 SBE: Cognitive Neuroscience
- Jul 15 SBE: Developmental and Learning Sciences—A Multidisciplinary Program of the Children's Research Initiative
- Jul 15 SBE: Social Psychology; Linguistics; Perception, Action, and Cognition

NSF cont.

- Jul 16 GEO: Sedimentary Geology and Paleobiology; Geomorphology and Land Use Dynamics; EarthScope: Science, Education, and Related Activities
- Jul 17 Faculty Early Career Development (CAREER) Program—Biological Sciences; Computer and Information Science and Engineering; Education and Human Resources
- Jul 18 Faculty Early Career Development (CAREER) Program—Engineering
- Jul 19 Faculty Early Career Development (CAREER) Program—Geosciences; Mathematical and Physical Sciences; Social, Behavioral, and Economic Sciences; Office of Polar Programs
- Jul 31 MPS: Biological Physics

Other**Alliance for Lupus Research**

- Jul 16 Target Identification in Lupus

American Association of Diabetes Educators

- Jul 01 Research Grants

American Diabetes Association

- Jul 15 Career Development Award

American Heart Association

- Jul 11 National Scientist Development Awards; National Established Investigator Awards
- Jul 12 Greater Midwest Affiliate: Grants-in-Aid; Scientist Development Awards

American Society for Cell Biology

- Jul 26 Postdoctoral Fellow Travel Award

Grant (William T.) Foundation

- (Improving Settings for Young People)
- Jul 11 Scholars Program (any discipline)

Juvenile Diabetes Research Foundation

- Jul 16 Various Grants

Lymphoma Research Foundation

- Jul 01 Postdoctoral Fellowship

Multiple Myeloma Research Foundation

- Jul 31 Validation of Novel Combination Awards

National Alliance for Research on Schizophrenia and Depression

- Jul 25 Young Investigator Awards

Organic Farming Research Foundation

- Jul 16 Grants

Physiological Society

- Jul 31 Non-Society Symposia Grant Scheme

Society for Neuroscience

- Jul 15 Committee on Women in Neuroscience Postdoctoral Fellow Travel Awards

Stroke Association

- Jul 20 Research Project Grants

Wellcome Trust

- Jul 16 Biomedical Science Research Grants

AWARDS PROCESSED

Externally funded grants and contracts processed during April 2007

Title	Investigator(s)	Department(s)	Agency	Award
Research Awards				
*Soy Nutrition and Food Sciences Managed Research Area - FY07	K. Ajuwon	Animal Science, Food and Nutrition	U of I (Illinois Soybean Association)	\$17,000
School Meals Initiative Review 2007	J. Endres P. Welch	Animal Science, Food and Nutrition ASFN	ISBE (USDA)	\$10,000
*Soy Nutrition and Food Sciences Managed Research Area - FY07	A. Higginbotham	Animal Science, Food and Nutrition	U of I (Illinois Soybean Association)	\$15,000
*Phase I Archaeological Survey, Raccoon Lake Restoration Project	M. Wagner	Archaeological Investigations	Hanson Professional Services	\$6,018
*Collaborative Research: Consortium for Embedded Systems	S. Tragoudas	Electrical and Computer Engineering	Arizona State U (NSF)	\$10,000
SGER: A VLIW/Superscalar Heterogeneous Multi-Core Architecture and the Compiler Support	W. Zhang	Electrical and Computer Engineering	NSF/Research Experience for Undergraduates	\$12,000
*Development of Single Nucleotide Polymorphism (SNP) Markers for Rapid, Inexpensive, and Standardized Identification of Pallid (<i>Scaphirhynchus albus</i>) and Shovelnose (<i>S. platyrhynchus</i>) Sturgeon Larvae	E. Heist	Fisheries Center	USDI/USGS	\$37,385
*Assessment of Otolith Chemistry as an Indicator of Fish Movement or Transfer Between the Illinois River System and Lake Michigan	G. Whitledge	Fisheries Center	Great Lakes Fishery Commission	\$9,120
McIntire-Stennis: Administration FY07	J. Phelps	Forestry	USDA/CSREES	\$57,978
*Development of Water-Demand Scenarios for 11-County Northeastern Illinois Region	B. Dziegielewski	Geography	Chicago Metropolitan Agency for Planning	\$93,496
ICCI Coal Research Program	K. Tucker	Illinois Clean Coal Institute	IDCEO/ICCI	\$824,573
*Analysis of Immunological Response to ACTH in Pediatric Opsoclonus-Myoclonus Syndrome	M. Pranzatelli	Pediatrics	Questcor Pharmaceuticals	\$144,386

Title	Investigator(s)	Department(s)	Agency	Award
Executive Function Development in Preschool Children	J. Huggenvik	Physiology	U of Nebraska - Lincoln	\$57,800
Constitutively Active LH Receptors in Transgenic Mice	P. Narayan	Physiology	USDHHS/NIH	\$43,432
*Feasibility Study of Gasification-Based Ultra-Clean Power Generation for Multi-User Clean Energy Delivery	P. Gatton	Plant & Service Operations	IDCEO	\$200,000
Soybean Cyst Nematode Managed Research Area	J. Bond K. Meksem	Plant, Soil, & Ag Systems Plant, Soil, & Ag Systems	U of I (Illinois Soybean Association)	\$95,500
*Empowering Leadership: Computing Scholars of Tomorrow	P. Lenear	Workforce Education	Rice University (NSF)	\$42,500
*Mine Safety and Bats	G. Feldhamer	Zoology	USDA/USFS/Shawnee National Forest	\$54,656

Training Awards

Development of a Hydrologic and Geospatial Data Repository for the Mississippi River System	N. Pinter	Geology	USDI/USGS	\$27,000
*Heartland Partnerships: Inquiry-Based Ecological and Environmental Education at SIUC	K. Renzaglia S. Sipes D. Gibson H. Henson F. Mumba	Plant Biology Plant Biology Plant Biology Geology Curriculum and Instruction	NSF	\$261,764
Illinois Louis Stokes Alliance for Minority Participation (ILSAMP)	K. Renzaglia J. Spears	Plant Biology Research Development and Administration	Chicago State U (NSF)	\$30,000

Other Awards

*School-Based Health Centers	K. Bruce T. Ford	Economic Development Economic Development	Illinois Maternal and Child Health Coalition	\$5,356
*Aquaculture Technical Assistance	S. Kohler	Economic Development	IDCEO	\$75,000
*Rural Medical Transportation Network	P. Davis	Medical Humanities	IDOT	\$32,750
*Incentive Support for Soy-Related Intellectual Property at SIUC	J. Russin	Plant, Soil, & Ag Systems	Illinois Soybean Association	\$10,000
Cooperative Working Agreement	D. Shelton	Rehabilitation Institute	IDHS	\$12,158
*Tales of Time (TOT)	D. Shelton K. Humphreys	Rehabilitation Institute Rehabilitation Institute	Illinois Secretary of State/Illinois State Library	\$4,750

Title	Investigator(s)	Department(s)	Agency	Award
Illinois Agriculture Mediation Program	M. Rudasill	School of Law	USDA/Farm Services Administration	\$50,470
Employer Training Investment Program (ETIP)	L. Lindberg	Small Business Development Center	IDCEO (USDOL)	\$225,000

*indicates new award

Awards Processed During April 2007 (29) \$2,465,092

Summary of Fiscal Year 2007 Awards Received to Date

excludes Financial Aid Office awards

	Fiscal Year 2007 Awards as of April 2007		Fiscal Year 2006 Awards as of April 2006	
Research	(248)	\$20,756,498	(293)	\$25,290,010
Training	(41)	\$3,414,453	(51)	\$3,662,240
Other	(136)	\$26,040,927	(148)	\$26,753,765
Federal	(82)	\$14,433,657	(104)	\$18,671,588
State	(154)	\$21,870,382	(153)	\$21,483,709
Industry	(38)	\$2,383,004	(54)	\$3,017,990
Foundation	(28)	\$1,042,975	(31)	\$1,910,706
Other	(123)	\$10,481,860	(150)	\$10,622,023
TOTAL	(425)	\$50,211,879	(492)	\$55,706,015

ORDA DIRECTORY of ASSISTANCE

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Prudence M. Rice, Director, 453-4531, pmrice@siu.edu

FUNDING OPPORTUNITIES & RESEARCH MATTERS

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

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, Ctr. for Rural Health, Liberal Arts, Library Affairs, Mass Communication and Media Arts**
Jo Nast, 453-4540, jonast@siu.edu
- **Agriculture, Incubator, Graduate School, Law, Medicine, Student Affairs**
Joel Fritzler, 453-4530, jcfritz@siu.edu
- **Applied Sciences, Business, Continuing Education, Education, Fisheries, Science, Wildlife:** TBA
- **Engineering:** Steve Banker, 453-4540, sbanker@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.

HUMAN SUBJECTS RESEARCH COMPLIANCE

Advance institutional approval is required for all research projects involving human subjects. See www.siu.edu/orda/human, or contact the Human Subjects Committee secretary, 453-4533.

OTHER RESEARCH COMPLIANCES

Projects involving vertebrate animals or hazardous materials (including recombinant DNA) require advance approval.

- **Institutional Animal Care and Use Committee:** see www.siu.edu/~iacuc or contact the committee secretary at 453-4533.
- **Institutional Biosafety Committee:** contact Douglas Fix, Biological Safety Officer, 453-7180, dfx@cehs.siu.edu.
- **Radiological Control Committee:** contact Richard Dyer, Radiation Safety Officer, 536-2015, rdyer@cehs.siu.edu.
- **Hazardous Chemical Oversight:** contact Paul Restivo, Director, Center for Environmental Health and Safety, 453-1632, restivo@cehs.siu.edu.

REACH (UNDERGRADUATE RESEARCH PROGRAM)

- Jo Nast, 453-4540, jonast@siu.edu, www.siu.edu/~reach

TECHNOLOGY TRANSFER (PATENTS/COPYRIGHTS)

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

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.

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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