



The  
Research Foundation  
of SUNY

# Introduction to the SUNY Oswego GRANTSCENE

Welcome to the first issue of the SUNY Oswego GRANTSCENE, an on-line publication dedicated to SUNY Oswego faculty and staff who are interested in research and scholarly activity.

The GRANTSCENE will be published monthly from September to April of each year.

Upcoming funding opportunities can be found in the "An Eye on Funding" section along with updates to current funding programs, news and trends. Funding opportunities will be listed under the headings of Arts, Education, Health & Well-

ness, Humanities, Interdisciplinary and Sciences. If you are interested in any of the funding opportunities, send Linda Cook (lcook@oswego.edu) an e-mail with the program name and reference number and she will send you more information.

The Campus News section is where you will find information about campus grants for faculty and students, award ceremonies and workshops on campus.

Information on the back page explains the relationship between the Office of Research & Sponsored Programs (ORSP) and SUNY

Oswego. There is also a list of services available to faculty and staff who are searching for funding and/or preparing to submit a proposal. Office hours and contact information can also be found on this page.

Future issues will feature externally funded projects awarded to faculty and staff on campus. If there is a particular project that you are interested in reading about or if you have had your own project funded and would like to share the experience, contact Linda to set up an interview.

## Welcome New Faculty

Welcome SUNY Oswego new faculty to the fall 2004 semester.

Those of you interested in pursuing research interests or scholarly activities should contact Linda Cook (lcook@oswego.edu) in the Office of Research & Sponsored Programs (ORSP). Linda needs to know what your interests

are so that she can send you appropriate funding information.

Maria Nakamura, Associate Director and Linda Cook, Administrative Assistant of ORSP will give a presentation on searching for funding and applying for grants Tuesday, October 12, 2004 from 4:00 to 5:00 p.m. in 34B Lanigan.

Let Linda know if you are unable to attend and would like to receive a handout.



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**ORSP**  
Penfield Library—Room #4  
**Office Hours**  
8:00 am to 12:30 pm  
1:30 pm to 4:30 pm



## An Eye on Funding—Current Funding Opportunities

### ARTS

#### George and Helen Segal Foundation Offers Funding for Painters [PND]

**Deadline:** October 15, 2004

**Scope:** The George and Helen Segal Foundation was created to exhibit and display the works of sculptor and artist George Segal, and to award grants to young artists in order to enable them to pursue their artistic endeavors.

The program will award grants of \$5,000 and \$10,000. Artists age 21 and over working in the medium of painting are eligible to apply. The program is not open to students.



#### Blakemore Foundation Asian Art Grants [PND]

**Deadline:** November 1, 2004

**Scope:** Established by Thomas and Frances Blakemore in 1990 to encourage the advanced study of Asian languages and to improve the understanding of Asian fine arts in the United States, the Seattle-based Blakemore Foundation is currently accepting applications for its Frances Blakemore Asian Art Grants program.

For the purposes of the program, Asia is limited to the countries of China, Japan, Korea, Burma, Cambodia, Indonesia, Laos, Thailand, Malaysia, Vietnam, Philippines, Mongolia, and Tibet. The term "fine arts" refers to paintings, graphic arts, ceramics, sculpture, and textiles.

### EDUCATION

#### Early Development (NIH) [2827]

**Scope:** The National Institute of Child Health and Human Development and the National Institute on Drug Abuse solicit research applications to develop a comprehensive program of research that focuses on the mechanisms by which social, economic, cultural and community influences and their interactions affect early childhood development. (June 18 *NIH Guide*)

**Deadline:** Oct. 1., Feb. 1 and June 1.

**Funds:** There is no specific dollar setaside. Funding is via the investigator-initiated research project grant (R01), which pro-

vides varying amounts for five years; and the small research grant (R03), which provides up to \$50,000 a year each in direct costs for up to two years.

**Areas:** The goal of the initiative is to develop knowledge that informs policies and programs, especially for children living in or near poverty. Such areas include child care, early childhood education, welfare reform, tax policy, social services and family/ work policies. Research should take into account children's cognitive, social, emotional and physical development in relation to such factors as: family income and resources; community level issues, for example, neighborhood and community resources, crime and school quality; and such contexts as ethnic, cultural and spiritual beliefs, attitudes, norms and expectations.

#### Research and Development Centers (ED) [2828]

**Scope:** The Education Department's Institute of Education Sciences invites applications for national research and development centers (July 1 Federal Register).

**Deadline:** Nov. 18.

**Funds:** \$2 million in fiscal 2005.

**Areas:** Education centers are intended to contribute significantly to the solution of education problems by developing, testing and disseminating new approaches to improve teaching and learning, and ultimately, student achievement. Centers will focus on assessment, education policy, early childhood education, and English language learners.

#### Reading Comprehension, Scale-Up (ED) [2828]

**Scope:** The Education Department solicits applications to develop and evaluate interventions to improve reading comprehension and take effective interventions to scale (July 1 Federal Register).

**Deadline:** Oct. 28.

**Funds:** \$150,000 to \$1.2 million a year each for up to five years.

**Areas:** The program supports projects that address the underlying causes of problems with reading comprehension; develop assessments for use in instructional settings to identify sources of comprehension difficulties; and provide evidence of the effectiveness of interventions taken to scale.

*"...systemic approaches to improving education at all administrative levels ..."*

#### Teacher Quality Research (ED) [2828]

**Scope:** The Education Department solicits applications for research to identify effective strategies for improving the performance of classroom teachers in ways that increase student learning and achievement in reading, mathematics and science. (July 1 Federal Register)

**Deadline:** Dec. 2.

**Funds:** \$150,000 to \$1.2 million a year per award under each of two competition announcements, one with a reading focus, the other with a math and science focus.

**Areas:** The program supports research on key issues of teacher quality that are likely to lead to substantial gains in academic achievement for all students and reduce the achievement gap between minority and non-minority students and economically disadvantaged students and their wealthier peers. The goal is to generate a complement of effective tools and strategies, including pre-service and in-service programs, policies and assessments to improve teacher training and performance.

#### Cognition and Student Learning (ED) [2828]

**Scope:** The Education Department invites applications for research to bring recent advances in cognitive science to bear on significant problems in education (July 1 Federal Register)

**Deadline:** Dec. 16. (Applications available Aug. 6.)

**Funds:** \$150,000 to \$350,000 a year each for up to three years.

**Areas:** The goal is to develop research-based approaches to instruction grounded in the principles of learning and information processing gained from cognitive science and offer evidence of their usefulness in education settings.

#### Education Finance, Management (ED) [2828]

**Scope:** The Education Department invites proposals for research on systemic approaches to improving education at all administrative levels that are likely to yield substantial gains in academic achievement for all students (July 1 Federal Register)

**Deadline:** Dec. 16.

**Funds:** \$100,000 to \$750,000 a year each for up to four years.

**Areas:** Issues of interest include tools and strategies for allocation of resources; pro-

# An Eye on Funding (continued)

fessional development of school and district administrators; alignment of standards, assessment and instruction known to enhance student achievement.

## Secondary Analysis of NAEP Data (ED) [2828]

**Scope:** The Education Department invites proposals for studies that perform secondary analysis of data from the National Assessment of Educational Progress (July 1 Federal Register).

**Deadline:** Oct. 28.

**Funds:** \$65,000 to \$100,000 for up to 18 months

## Field-Initiated Evaluations (ED) [2828]

**Scope:** The Education Department invites applications for investigator-initiated proposals to evaluate novel education interventions and other innovations (July 1 Federal Register)

**Deadline:** Dec. 16.

**Funds:** \$150,000 to \$1.2 million for up to five years.

## Teacher Quality-Reading; Math/Science [2833]

**Scope:** IES invites rigorous research on teacher quality in reading and writing under parallel programs focusing on reading/writing and math/science.

**Deadline:** Oct. 8 for letters of intent; Dec. 2 for applications.

**Funds:** Depending on the type of project, \$100,000 to more than \$1 million a year each for up to five years.

**Areas:** Both programs have the same five goals. Applicants must address one of the goals. Research should aim to: identify existing teacher professional development programs for instruction that show promise for changing teacher practices and improving student achievement; support creation of new professional development programs for teaching the subject matter for pre-K through 12th grade; establish the efficacy of existing professional development programs for teaching the subject matter for pre-K through 12th grade and for teaching the subject to adults with small-scale efficacy or replication trials; provide evidence of the effectiveness of such programs taken to scale; and validate new or existing assessments of teacher quality at any grade level

*"...research on teacher quality in reading and writing ..."*

against student achievement measures.

**Tip:** Research under the program must be relevant to U.S. schools.

## Cognition and Student Learning (ED) [2833]

**Scope:** The IES solicits research to improve student learning by bringing recent advances in cognitive science to bear on significant problems in education.

**Deadline:** Oct. 15 for letters of intent; Dec. 16 for applications.

**Funds:** Depending on the type of study, \$150,000 to \$500,000 a year each for up to three years.

**Areas:** The goal is to build a bridge from the laboratory to real-world educational practice settings Applicants must identify a significant education problem for which solutions are likely to be gained by applying principles derived from research in the cognitive sciences. Projects must include research conducted in an education setting but may include laboratory experiments. Therefore, researchers must establish relationships with schools or other education delivery settings and must document the availability and cooperation of the schools that will be involved in the project.

**Tip:** ED encourages cognitive researchers to collaborate with experts in teacher training, classroom instruction or curriculum development.



emphasizes methodological rigor and urges use of randomized trials. High-quality quasi-experimental designs will be considered "only in circumstances in which a randomized trial is not possible."

## Education, Finance, Leadership [2833]

**Scope:** The IES invites applications for research on systematic approaches related to education operations that will result in students' improved education gains and academic achievement.

**Deadline:** Nov. 4 for letters of intent; Dec. 16 for applications.

**Funds:** \$100,000 to \$750,000 a year each for up to, depending on the scope of the study, four years.

**Areas:** IES will fund projects that identify promising systemic finance, leadership, and management practices for improving the teaching and learning environment and thereby increase student learning; develop new systemic finance, leadership and management strategies; evaluate the efficacy of systemic strategies; and develop and test cost accounting tools and measurement systems that enable education administrators to link student-level resources to student achievement data.

## HEALTH & WELLNESS

### Diet Energy (NIH)

**Deadline:** Oct. 1 and Feb 1 and June 1

**Scope:** Nine National Institutes of Health funding components are seeking applications for research on the role of diet composition in energy balance. (Dec. 12 NIH Guide)

**Funds:** There is no specific funding set-aside. Funding is via the regular investigator-initiated research project grant (R01), which provides varying amounts for five years; and the exploratory developmental grant (R21), which provides up to \$275,000 a year over two years.

**Areas:** Short and long-term studies are appropriate, including animal and human research. Specific research interests vary by participating institute and range from basic studies investigating the impact of micro- or macronutrient composition on appetite, metabolism and energy expenditure to clinical studies evaluating the efficacy of diets differing in micro- or macronutrient composition, absorption, dietary variety or energy density for weight loss or maintenance. Specific interests vary by participating institutes, including the National Institute of Diabetes and Digestive and Kidney Dis-

# Proposed IRB Registration Requirements

The Office for Human Research Protections (OHRP) is proposing to require registration of institutional review boards (IRBs) that review human subjects research conducted or supported by the Department of Health and Human Services (HHS) and that are designated under an assurance of compliance approved for federal-wide use by OHRP. The proposed registration requirements will make it easier for OHRP to convey information to IRBs and will support the current IRB registration system operated by OHRP.

Under the current OHRP IRB registration system, the submission of certain information is required by the existing

HHS human subjects protection regulations, and certain other information may be submitted voluntarily. Under the proposed rule, all registration information will be required,

*Comments on the OHRP notice must be received on or before October 4, 2004.*

making the IRB registration system uniform with the proposed IRB registration requirements of the Food and Drug Administration (FDA), and creating a single HHS IRB registration system. FDA simultaneously is publishing a proposed rule regarding FDA IRB registration requirements.

Comments on the OHRP notice must

be received on or before October 4, 2004. That notice can be accessed as a pdf document at <http://www.hhs.gov/ohrp/news/irbnotice.pdf>

The FDA notice can be accessed at: <http://www.accessdata.fda.gov/scripts/oc/ohrms/dailylist.cfm?yr=2004&mn=7&dy=6>

The URL for viewing the current IRB registration form is <http://www.hhs.gov/ohrp/humansubjects/assurance/registrb.htm>



## An Eye on Funding (Continued from page 3)

ease, the National Cancer Institute, the National Center for Complementary and Alternative Medicine, the National Heart, Lung and Blood Institute, the National Institute on Aging, the National Institute on Alcohol Abuse and Alcoholism, the National Institute of Child Health and Human Development, the National Institute of Neurological Disorders and Stroke and the Office of Dietary Supplements.

### Promoting Health Literacy (AHRQ/NIH) [2828]

**Scope:** The Agency for Healthcare Research and the National Institutes of Health are inviting applications under two program announcements to support small grants and full-scale research project grants that explore the nature of health literacy and its role in the pursuit of health personal, societal and environmental actions (June 25 NIH Guide)

**Deadline:** Oct. 1, Feb. 1 and June 1.

**Funds:** There is no funding setaside. Funding is via the regular investigator-initiated research project grant (R01), which provides varying amounts for five years; and the small research grant (R03), which provides

up to \$50,000 a year each in direct costs for up to two years.

**Areas:** Research studies of interest focus on: modeling and measuring the nature and scope of health literacy; variation in health literacy over the lifetime among native and non-native English speakers; mediators and moderators of low health literacy; the impact of low health literacy on health outcomes, disease, behaviors and the identification of effective preventive and other interventions to improve health literacy amount populations.

### Energetics and Cancer (NCI) [2829]

**Scope:** The National Cancer Institute solicits grants to establish centers for transdisciplinary research on nutrition, energetics, energy balance and physical activity. (7/9)

**Deadline:** Oct. 15 for letters of intent; Nov. 16 for applications.

**Funds:** \$14 million in fiscal 2005 for four to five center awards of \$1.5 million a year

each for five years.

**Areas:** Activities must include an objective that will: delineate mechanisms by which diet and physical activity interact to influence weight, body composition, energy balance and cancer. Each center must include

three to five individual research projects that reflect hypothesis-driven research, plus common methods-based research projects and shared resource cores.

**Tip:** NCI also seeks a coordinating center to support the clinical research centers under separate announcement RFA-CA-05-011.

## HUMANITIES

### Teaching and Learning (NEH)

**Scope:** The National Endowment for the Humanities invites applications for grants for teaching and learning resources and curriculum development.

**Deadline:** Oct. 1.

**Funds:** Up to \$100,000 each for curriculum development projects of 12 to 18 months; up to \$200,000 each for materials development projects for up to three years. The grantee match is 20 percent of total project costs.

**Areas:** Projects may help schools, colleges and universities develop or revise and implement significant humanities programs, curricula, courses and materials; develop and apply technologies to integrate outstanding humanities scholarship into teaching and learning at all levels of K-12 and higher education; or provide materials and tools to ensure that future teachers acquire



# Campus News

## New Grants Aid Student-Faculty Collaboration

Four faculty-student pairs have received Challenge Grants to work on scholarly projects beginning as early as this summer. The campus grant program promotes collaborative scholarly and creative work by undergraduates and faculty.

Dr. Sharon Gabel, associate professor of earth sciences, invited Rob Venczel, a geology major, to join her in her 2-year-old project of monitoring changes in the shoreline of eastern Lake Ontario. Venczel hopes to pursue a career in environmental science.

Katie Miloski, a biology major and chemistry minor, will work with Dr. Kestas Bend-

inkas, assistant professor of chemistry, on her study of medicinal plants used by diabetics in the Republic of Congo. Miloski said she plans to attend medical school after graduating from Oswego.

Dr. Craig DeLancey, an assistant professor of philosophy and cognitive science, and John Callan, a junior majoring in computer science and cognitive science, will test hypotheses about the nature of the social and economic role of anger using a modeling technical called genetic algorithms. DeLancey is the author of the book *Passionate Engines: What Emotions Reveal About Mind and Artificial Intelligence*, published by Oxford University Press.

Courtney DeLosh's paper about the justice of the gender-structured family in Dr. Robert Card's public policy class was the

impetus for the project they will conduct. DeLosh is a psychology major, and Card an assistant professor of philosophy. "The possibility for this kind of collaborative work is really valuable," he said, adding that involvement in undergraduate research improves a student's prospects for graduate school.



## Campus Grants Timeline

For information and application materials for campus grants, visit our web site <<http://www.oswego.edu/administration/ORSP/index.html>> and look under Campus Grants & Awards.

PROGRAM	DEADLINE
Graduate & Undergraduate Scholarly & Creative Activity Grants	November 15, 2004
President's Award for Scholarly & Creativity and Research	January 31, 2005
Provost's Award for Scholarly & Creativity and Research	January 31, 2005
Faculty Enhancement Scholarly & Creative Activity Grants	February 4, 2005
Faculty Enhancement SCAC New Faculty Incentive Grants	February 4, 2005
Faculty Enhancement Course Development Grants	February 4, 2005
Faculty Enhancement Program Innovation Grants	February 4, 2005
Student/Faculty Collaborative Challenge Grants	February 4, 2005



## An Eye on Funding (Continued from page 4)

advanced knowledge and understanding of the humanities. Curriculum development projects typically unite faculty within an institution or from cooperating institutions to prepare new curricular materials that can serve as models. Materials development projects involve groups of teachers and scholars working in collaboration to create resources such as sourcebooks, and teaching guides on humanities topics and texts.

### INTERDISCIPLINARY

#### Women's Sports Foundation Accepting Applications for Homophobia in Sport Project Grant Program [PND]

**Deadline:** Open

**Scope:** The Women's Sports Foundation, a charitable educational organization dedicated to ensuring equal access to participation and leadership opportunities for all girls and women in sports and fitness, is accepting proposals for its Homophobia in Sport Project Grant program, which is designed to provide for the development of research, community outreach, and educational programs addressing the issue of homophobia and other barriers to women's participation in sports.

Any bona fide researcher, local, regional, or direct action outreach organization committed to providing opportunities to girls and women in sports and fitness is eligible to apply. Currently funds are only being administered to meet the needs of individuals and/or organizations addressing homophobia-related issues requiring immediate action such as employment, community health and safety, etc.

**Funds:** Grants of up to \$5,000 will be awarded to qualifying organizations.

#### International Research and Education: Planning, Workshops (NSF) [2827]

**Scope:** The National Science Foundation seeks proposals to support the early phases of developing and coordinating a research and education activity with a foreign partner.

**Deadline:** Any time for planning visits; Sept. 20, Feb. 20 and May 20 annually for workshop proposals.

**Funds:** \$1.5 million a year for 50 awards of up to \$20,000 for the duration of planning visits and \$60,000 each over two years for



workshops.

**Areas:** Planning visits—usually seven to 14 days—are conducted to assess foreign facilities, equipment, research subjects and undertake detailed discussions with prospective foreign partners to finalize plans for cooperative research. Joint workshops are designed to identify common research priorities and define an agenda around a discipline or multi-discipline theme and focus for the collaboration; visit local research and education sites and develop recommendations for areas of future collaboration.

*"...for research aimed at reducing mental illness and drug abuse in rural and frontier populations."*

#### Rural Research (NIMH/NIDA)

**Deadline:** Oct. 1 and Feb. 1 and June 1

**Scope:** The National Institute of Mental Health and National Institute on Drug Abuse are inviting applications for research aimed at reducing mental illness and drug abuse in rural and frontier populations. (Feb. 13 NIH Guide)

**Funds:** There is no specific funding set-aside. Funding is via the regular investigator-initiated research project grant (R01), which varies in size for up to five years; the small research grant (R03), which provides up to \$50,000 a year each in direct costs for up to two years; and the exploratory developmental grant (R21), which provides up to \$275,000 a year over two years.

**Areas:** The agencies seek research that will: enhance understanding of structural, cultural and individual factors—including community risk and resilience factors—that may limit availability of prevention and treatment services in rural areas; and generate knowledge to improve the organization, financing, delivery and effectiveness of mental health and drug abuse services. The focus may be mental disorders, drug disorders or their co-occurrence.

#### Hazmat Worker Training (NIEHS) [2829]

**Scope:** The National Institute of Environmental Health Sciences invites proposals to develop model programs to train individuals who work with hazardous materials and waste generation, removal, containment, transportation and emergency response.

**Deadline:** Oct. 22 for letters of intent; Nov. 22 for applications.

**Funds:** \$32 million in fiscal 2005 for 15 to 20 cooperative agreements. The project period is five years.

**Areas:** The program helps organizations develop institutional competency to provide appropriate model training in four distinct areas: hazardous waste worker training; minority worker training; Brownfields minority worker training; and hazmat disaster preparedness training, developed in response to recent national disasters, including terrorist attacks.

#### TransCoop Program

**Deadline:** April 30, 2005

**Scope:** The Alexander von Humboldt Foundation supports transatlantic research cooperation among German, American and/or Canadian scholars (Ph.D. required) in the humanities, social sciences, economics, and law by means of the TransCoop Programme. Joint research initiatives can receive up to EUR 45,000 (currently about US\$ 54,000) each over a three-year period. Prerequisite is that the amount granted by TransCoop is matched by funds from US and/or Canadian sources.

Funds can be used to finance short-term research visits, special conferences and workshops, material and equipment, printing costs, and research assistance. <http://www.humboldt-foundation.de/en/index.htm>

#### South Asia Professional Exchange (State) [2833]

**Scope:** The State Department's Bureau of Educational and Cultural Affairs invites applications for exchanges to build relationships between nonprofit organizations and civil society groups in Afghanistan, Bangladesh, India, Pakistan and Sri Lanka.

**Areas:** Of special interest are: innovative short-term, high-impact projects to pursue priority themes, including innovation in education. Projects include curriculum development, classroom pedagogy, parent/teacher/student associations and teacher and administration training in target schools. Other themes are economic skills promotion and conflict, prevention and mitigation.

### SCIENCES

#### Math, Science Education Research (ED) [2828]

**Scope:** The Education Department seeks

# House Bill Would Spare ED Grants, Add New Items

A House appropriations subcommittee last week approved a fiscal 2005 education spending bill that closely parallels President Bush's budget request, with increases of \$1 billion each for special education and Title I offset by the elimination of several smaller programs.

The bill would provide \$24.8 billion for federal K-12 programs—an increase of about \$325 million over last year, but a decrease of about \$100 million from President Bush's request (*see table, p. 8*).

The House Labor, Health and Human Services and Education Appropriations Subcommittee approved the measure unanimously, despite arguments from Democrats that the bill is inadequate for the demands placed on states and school districts by the No Child Left Behind Act. Subcommittee Chairman Ralph Regula, R-Ohio, noted that lawmakers were limited by budget allocations that precluded large increases.

"This is a fair, balanced, nonpartisan bill in response to the amount of money we have," he said. "We would all like to have more money."

## Rescuing Competitive Grants

*"Among the programs on the chopping block are the Enhanced Pell Grants program and the Teaching of Traditional American History competitive grant program."*

While similar overall, the House spending bill differs from President Bush's budget request in certain respects. For one thing, it would restore almost a dozen of the "ineffective" competitive grant programs that the Bush administration is seeking to eliminate, while axing a handful of others the administration backs.

Among the programs on the chopping block are the Enhanced Pell Grants program and the Teaching of Traditional American History competitive grant program. Backed by several senators, the latter may be used as a bargaining chip in eventual negotiations with the upper chamber.

## New Data Program Eyed

Also, the House bill would establish an entirely new, \$30 million competitive grant that would allow state education agencies to

"design, develop and implement statewide longitudinal data systems [to] manage, generalize, disaggregate and use individual student data consistent with [NCLB]."

Another difference is in the delivery of Title I funding. While Bush favors targeted grants, the House bill would funnel additional funds through Education Finance

Incentive Grants, which encourage states to establish more equitable systems of school finance.

Education advocates were disappointed in the bill. The National Education Association said the 1.3 percent increase for NCLB programs is "far less than inflation and the needs created by enrollment growth and federal testing mandates."

Edward Kealy, executive director of the Committee for Education Funding, said it's not too late for the public to influence the budget process, but cautioned that "it's going to take a lot of people weighing in ... to let [Congress] know that they're very concerned that education is being shortchanged and that we're heading in the wrong direction."

**Contact:** For details of the House panel's action, including recommendations for health and labor programs, visit the Web site at: <http://appropriations.house.gov/>. — **Michael Cardman**

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*"The most exciting phrase to hear in science, the one that heralds new discoveries, is not "Eureka!" ("I found it!") but rather "hmm....that's funny..." -- Isaac Asimov*

## Eye on Funding (Continued from page 6)

proposals for research to identify existing and new approaches to mathematics and science education aimed at effectively raising student achievement in those subjects (July 1 Federal Register).

**Deadline:** Oct. 28.

**Funds:** \$150,000 to \$1.2 million a year each for five years.

**Areas:** The program aims to develop new interventions; establish the efficacy of existing interventions through small-scale replication trials; and test their effectiveness at scale.

### K-16 and Informal Education (NASA) [2828]

**Scope:** The National Aeronautics and Atmospheric Administration plans to invite

applications to participate in Earth science enterprise research and development activities focused on Earth science education.

**Deadline:** Sept. 28.

**Funds:** About \$5 million a year for small awards for up to one year each.

**Areas:** Proposals are requested in three areas: increasing K-12 educator support for teaching Earth science and geography; strengthening undergraduate institutional capacity in Earth system science and applications; and enriching public scientific literacy about the Earth system and environment.

### Math Science Workforce (NSF) [2829]

**Scope:** The National Science Foundation

solicits proposals to increase the number of U.S. citizens, nationals and permanent residents equipped to pursue careers in the mathematical sciences.

**Deadline:** Oct. 12.

**Funds:** \$18.5 million for nine to 15 awards in fiscal 2005 and annually thereafter, depending on appropriations. The project period is up to three years.

**Areas:** Grants support three distinct categories:

-Modification of the existing VIGRE program (vertical integration of research and education), to integrate research and education for graduate students and postdoctoral associates, involving undergraduates in learning by discovery, including in international activities;

## An Eye on Funding (Continued from page 7)

-Mentoring students at transition points in a mathematical sciences career path that are critical for success from undergraduate studies to the early years in a tenure-track position, for example, the transition from talented high school student to the study of advanced mathematics at university; and  
-Use of research training groups in the mathematical sciences that focus on a major research theme as a way of providing enhanced research-based training and education experiences and collective mentoring.

### Frontiers in Integrative Biology (NSF) [2829]

**Scope:** The National Science Foundation invites applications for integrative research at the intersection of multiple disciplines that addresses major questions in the biological sciences, particularly in understudied areas.

**Deadline:** Oct. 4 for letters of intent; Feb. 16 for required preliminary proposals.

**Funds:** \$8 million for approximately eight awards.

**Areas:** NSF asks applicants to integrate scientific concepts and tools from across disciplines including biology, math and the physical sciences, engineering, from across disciplines including biology, math and the physical sciences, engineering, social sciences and information sciences.

Proposers should focus on the biological significance of the question and develop a research plan that is not limited by conceptual, disciplinary or organizational boundaries. NSF also encourages inclusion of young scientists and partnerships with underrepresented minority-serving and undergraduate institutions and community colleges.

**Tip:** Most NSF research programs support interdisciplinary projects, but this program supports larger and more integrative and interdisciplinary projects than are possible under single research programs.

### Cooperative Materials Research (NSF) [2829]

**Scope:** The National Science Foundation seeks materials science proposals involving investigators from the United States and participating countries.

**Deadline:** Oct. 14.

**Funds:** \$5 million initially for up to 40 grants.

**Areas:** Research should address such phenomena as synthesis, characterization, properties and/or processing of improved mate-

rials that may play an increasing role in fostering energy efficiency, environmental protection, development of information and communication systems and advances in transportation and civil infrastructure. NSF is especially interested in development and application of computational tools with predictive capabilities to study properties and phenomena that span multiple time and length scales and require multiscale modeling to compute the essential science.

### Earth History (NSF) [2829]

**Scope:** The National Science Foundation seeks proposals to encourage innovative



research on the natural variability of the Earth's climate system from records preserved in geobiologic archives.

**Deadline:** Oct. 13.

**Funds:** \$10 million for 30 awards. The project period is three or four years.

### Valuation for Environment (EPA) [2829]

**Scope:** The Environmental Protection Agency solicits proposals for economic valuation research that will enhance the ability of stakeholders to evaluate policies and actions to protect, restore and improve ecological resources.

**Deadline:** Sept. 28.

**Funds:** Up to \$2 million initially for one to three awards of up to \$400,000 each. The project period is two or three years.

**Areas:** Interest areas are studies that: address developing values, functions and models for estimating the economic value of policy-relevant changes to ecological benefits associated with aquatic resources; developing or improving benefit transfer methods for ecological resources; and improving primary economic valuation methods.

### Nanoscale Science, Engineering (EPA) [2830]

**Scope:** The Environmental Protection Agency seeks proposals for research on nanoscale science, engineering and technology related to the environment.

**Deadline:** Oct. 14.

**Funds:** \$1.2 million for 4 awards of \$150,000 to \$350,000 a year each for three years.

**Areas:** EPA seeks research on the applications of nanotechnology in three areas: benign manufacturing and processing or

"green" nanotechnology that eliminates or minimizes harmful emissions and material waste from industrial processes, or improves capability to reuse or recycle; environmental monitoring devices and sensors for pollutant and microbial detection; and environmental treatment and remediation technologies to effectively reduce contaminant levels from water and air or immobilize toxic compounds.

### Molecular Screening Tools [2829]

**Scope:** The National Institutes of Health seeks applications under a new Roadmap initiative to develop innovative instruments to speed the pace of molecular library high throughput screening. (7/16)

**Deadline:** Sept. 22 for letters of intent; Oct. 22 for proposals.

**Funds:** \$4 million. The project period is four years.

**Areas:** NIH is looking for HTS instrumentation that is faster, more efficient and substantially more sensitive and accurate than currently available systems.



### UPDATE

NSF Grant Proposal Guide (GPG) has been updated and supercedes all other publications effective September 1, 2004. Visit [www.nsf.gov/oubsys/ods/getpub.cfm?nsf0423](http://www.nsf.gov/oubsys/ods/getpub.cfm?nsf0423) to download a copy.

### Coral reef conservation (DoC/NOAA) [2832]

**Scope:** The Commerce Department's National Oceanic and Atmospheric Administration invites

**Deadline:** Dec. 10 for preapplications; March 4 for final applications.

**Funds:** \$5.6 million for 20 awards.

**Areas:** Funding categories are: state and territory coral reef management; state and territory coral reef ecosystem monitoring; coral reef ecosystem research; general coral reef conservation; projects to improve or amend coral reef fishery management plans; and international coral reef conservation.

### Leakey Foundation Offers Funding for Research into Human Origins [PND]

**Deadline:** January 5 and August 15, annually

**Scope:** The Leakey Foundation was formed to further research into human origins. Recent priorities include research into the environments, archeology, and human paleon-

## An Eye on Funding (Continued from page 8)

tology of the Miocene, Pliocene, and Pleistocene; into the behavior, morphology, and ecology of the great apes and other primate species; and into the behavioral ecology of contemporary hunter-gatherers.

**Funds:** The majority of the foundation's general research grants to doctoral students are in the \$3,000-\$12,000 range; however, larger grants, especially to post-doctoral students and senior scientists, may be funded up to \$20,000. Small grants cover research expenses directly related and essential to the project (i.e., travel, living expenses during fieldwork, supplies, research assistance, and other relevant expenditures). **Areas:** Priority for funding is given to the exploratory phases of promising new research projects that meet the stated purpose of the foundation.

Advanced doctoral students as well as established scientists are eligible to apply. Applicants must either: hold a Ph.D. or equivalent qualification in anthropology or a related discipline; or be enrolled in a doctoral program with all degree requirements fulfilled other than the dissertation. There are no citizenship restrictions. Qualified individuals are eligible without regard to nationality.

### NSF-CCLI Adaptation & Implementation Track

**Deadline:** December 2, 2004

**Scope:** The Adaptation and Implementation (A&I) track of the CCLI program promotes the improvement of STEM education in the funded organization(s) through the adaptation and implementation of specific exemplary materials, laboratory experiences, and/or educational practices that have been developed and proven successful at other institutions. CCLI-A&I projects should effect change within or across departments or other institutional units by having broad faculty and administrative support. The ultimate goal is the improvement of undergraduate STEM learning.

This track invites proposals for two types of projects that aim to achieve these goals: those that intend to undertake direct curriculum improvement (Type I projects), and those that enable a group of faculty to explore strategies for overcoming identified challenges and barriers to educational reform (Type II projects).

**Funds:** A&I: Type I projects: (up to 3 years) with a budget up to \$100,000 for a single course and \$200,000 for comprehensive projects involving more than one course. Type II projects: (up to 3 years)

with a budget up to \$75,000.

### NSF-CCLI Assessment of Student Achievement Track

**Deadline:** December 8, 2004

**Scope:** Assessment can promote student learning or provide evidence for accountability requirements through an evaluation of a program's strengths and weaknesses. The CCLI-ASA track supports both of these purposes. In broad terms the CCLI-ASA track is intended to serve faculty, departments, administrators, and education officials interested in the measurement of student achievement in courses, curricula, programs of study, and the cumulative undergraduate experience.

**Funds:** ASA: (up to 3 years) with a budget up to \$500,000.

### Centers for Learning and Teaching (NSF)

**Deadline:** February 20, 2005

**Scope:** The Centers for Learning and Teaching (CLT) program focuses on the advanced preparation of science, technology, engineering, and mathematics (STEM)

educators, as well as the establishment of meaningful partnerships among education stakeholders, especially Ph.D.-granting institutions, school systems, and informal education performers. Its goals are to renew and diversify the cadre of leaders in STEM education; to increase the number of K-16 educators capable of delivering high-quality STEM instruction and assessment; and to conduct research into STEM education issues of national import (e.g., the nature of learning, teaching strategies, and reform policies and outcomes).

**Funds:** \$4,000,000 in Fiscal Year 2004, pending availability of funding. Funding information for 2005 is not available yet.

### Multi-Scale Bio-Behavioral Modeling (NSF) [2833]

**Scope:** The National Science Foundation, the National Institutes of Health, the National Aeronautics and Atmospheric Administration and the Energy Department seek applications under a major interagency that will support collaborative projects advance multi-scale computational modeling of biological, biomedical and behavioral

sciences.

**Deadline:** Sept. 22 for letters of intent; Nov. 9 for full proposals.

**Funds:** \$15 million for 20 awards of \$100,000 to \$500,000 a year each for up to three years.

**Areas:** The program aims to develop and disseminate tools, techniques, algorithms and mathematical theory needed to integrate biomedical, biological and behavioral data—ranging from the molecular to population level in a seamless fashion. Collectively grantees will:

- \* Formulate and validate novel computational and statistical models and relationships for spanning multiple scales;
- \* Discover and/or investigate intermediate levels of organization above and below the currently established level of modeling expertise;

- \* Form novel collaborations among the research community focused on expanding the breadth of multiscale modeling expertise;
- \* Produce models applicable to biological processes, diseases, environmental exposures and human behavior patterns that can be tangibly demonstrated to be of practical utility to the community at large for research

or education purposes;

- \* Form a consortium for the purposes of information exchange and to encourage model interoperability; and form a platform for open-source software sharing.

### Taxonomy Partnerships (NSF) [2833]

**Scope:** The National Science Foundation seeks proposals to enhance taxonomic research and help prepare future generations of experts.

**Deadline:** March 7.

**Funds:** \$2.5 million for eight to 12 awards of up to \$150,000 a year each for five years.

**Areas:** NSF will support research on poorly known groups of organisms in monographic research, training and computer infrastructure. Applications must: have a taxonomic focus (all groups of organisms, aquatic and terrestrial are eligible but preference will be given to organisms designated as critical; address methods of study; training involving at least two collaborating experts in training, whether undergraduate, graduate or postgraduate in status; and make a case for the project's importance to the field.

*"...focuses on the advanced preparation of science, technology, engineering, and mathematics (STEM) educators..."*



**The Office of Research and Sponsored Programs (ORSP) is responsible for the development, coordination and financial management of all contracts and grants at the College. All externally sponsored projects for research, scholarly / creative activity, curriculum development or services utilizing SUNY Oswego facilities and / or personnel must be processed and administered through ORSP.**

A project is externally sponsored if a grant or contract is awarded to the College in support of a specific activity. For example, external sponsors consist of federal and state agencies, private foundations, business and industrial enterprises, local and state governments and professional organizations. Sponsored projects include, but are not limited to, research, conferences, curriculum development, workshops, meetings, special events and scholarly and creative activities.

## OFFICE OF RESEARCH & SPONSORED PROGRAMS

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Oswego, New York 13126

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## ORSP Pre-Award Services Available

- 1) Maintain a faculty/staff profile of research and special projects interests
- 2) Match faculty / staff projects with potential sponsors
- 3) Notify faculty/staff of funding opportunities appropriate to their interests
- 4) Maintain a current resource collection of funding sources
- 5) Obtain guidelines and application forms
- 6) Assist with interpret guidelines and preparation of agency forms
- 7) Provide technical and editorial critique of proposals
- 8) Discuss budget categories and provide assistance with the development of an appropriate inclusive budget
- 9) Assist with the development of competitive proposals
- 10) Submit assurance reports and policies to maintain an approved institutional animal care and use committee and human subject committee in compliance with state and federal procedures
- 11) Review of final application
- 12) Obtain administrative approvals
- 13) Submit proposals by mail or electronically per sponsor specifications
- 14) Negotiate grant awards and contracts
- 15) Establish a Research Foundation project account

*Visit our web site*

<http://www.oswego.edu/administration/ORSP/index.html>

ORSP Pre-Award works in conjunction with other campus resources such as Penfield Library, Instructional Computing Center, Learning Resources, Center for Excellence in Learning and Teaching to provide necessary services to project activity and appropriate reimbursements. It is essential that Project Directors discuss their anticipated needs during budget development prior to proposal submission to ensure adequate funds are allocated for these campus services.

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*The State University of New York*