



The Research Foundation of SUNY

OFFICE OF RESEARCH & SPONSORED PROGRAMS

SUNY Oswego GRANTS&SCENE

Appointment of Interim Director of Research & Sponsored Programs

Provost, Dr. Susan Coultrap-McQuin, has announced the appointment of Dr. Thomas Darvill as Interim Director of the Office of Research & Sponsored Programs. Dr. Darvill will serve in this position from October 15, 2004 until the appointment of a permanent director in the Fall of 2006.

Dr. Darvill comes to this position with many years of experience as a successful teaching scholar. He has served as director of the Center for Neuro-

behavioral Effects of Environmental Toxics and has received almost \$7,000,000 in external funding. His own research has received international recognition. On our campus he has provided leadership in many ways, including his work on the Scholarly and Creative Activities Committee and as Chair of the Department of Psychology. He has demonstrated a strong commitment to advancing the scholarly and creative ac-

tivities of both faculty members and students.



Chemical Study

Chemical Study

Grant to help Oswego continue landmark research.

More than \$900,000 in federal funding will help SUNY Oswego continue its landmark study on how an environmental toxicant affects growth and development. The three-year grant from the Center for Disease Control's Agency for

Toxic Substances and Disease Registry will support a study that began in 1990 monitoring newborns who had prenatal exposure to polychlorinated biphenyls (PCBs). Researchers will now be able to follow these subjects from about 13 to 15 years old, said Paul Stewart, director of the study through the Oswego's Center for Neurobehavioral Effects of Environmental Toxics.

"Children who have been exposed to high levels of PCBs have what we would call subtle behavioral deficits which limit their ability to inhibit their own behavior when appropriate," Stewart said. "In studies, children exposed to PCBs while in the womb tended to respond to stimuli impulsively, over-respond or respond to non-targets," he added.

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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

If you are interested in any of the following funding opportunities, send an e-Mail to lcook@oswego.edu with the program title and reference number if there is one.

ARTS

ArtsLink Projects [23815]

Scope: Support is provided for collaborative projects which allow U.S. artists to undertake projects in Central and Eastern Europe with overseas colleagues. In 2004, ArtsLink Projects accepted applications in the disciplines of dance, music, theater, and literature. Visual and media arts applications will be accepted in 2005.

Deadline: January 14, 2005

Funds: Awards will generally range from \$2,500 to \$10,000.

Areas: Applications are accepted from arts organizations that have been invited to pursue a project by an individual or organization in one of the eligible countries. Support is provided to: create new work that draws inspiration from interaction with artists and the community in the country visited; establish mutually beneficial exchange of ideas and expertise between artists, arts organizations, and the local community; and/or pursue artistic cooperation that will enrich creative or professional development, or has potential to expand the community's access to the art of other cultures.

Examples of eligible ArtsLink projects include: the creation of a site-specific installation; the collection of images for a book of photographs illustrating recent social change; participation in a workshop/residency; the development of a new video work at the invitation of a museum or artists' space; curatorial participation and lecture presentation at a multi-national exhibition of new media.

"Visual and media arts applications will be accepted in 2005."

Toms of Maine [71663]

Scope: They favor programs that address performing arts (music, drama, dance) and visual arts; programs and resources for the arts; and artistic cultural programs with interactive and educational components.

Deadline: January 31, 2005

Funds: Grants range from \$1,000 to \$10,000. Larger grant awards per year are rare.

Areas: Project Grants: Investing in Selected Projects for Programmatic Growth and Sustainability: Though no longer a requirement, Tom's of Maine will continue to accept proposals

around a specific project, be it the launch of a new program, a new population served, collaboration between two organizations with complementary missions, or any other discreet and restricted project with particular goals and a timeline for achieving such goals.

Graham (Elizabeth Firestone) Foundation (48257)

Scope: Support is provided to foster awareness and appreciation of contemporary visual art, particularly through catalogues and other publications that document art produced by emerging or under-recognized artists.

Deadline: April 1, 2005

Funds: Grant amounts typically range from \$5,000 to \$20,000.

Areas: The foundation is interested in projects that attempt to bring together artists and the community, support artists from marginalized populations, and provide exposure to contemporary art where it may not otherwise be seen. Funding is available for: exhibition catalogues and brochures; publications related to the grantee organization and its programs or collections; exhibitions and installations (on or off site); visiting artist programs, and film projects in their final



completion phase.

EDUCATION

HP Technology for Teaching Grant Program

Deadline: February 15, 2005

Scope: HP has announced its 2005 HP Technology for Teaching Grant Initiative, which will award grants totaling \$5 million in cash and HP equipment over two years to K-12 public schools and two- and four-year colleges and universities in the United States and Puerto Rico.

The initiative is designed to support K-16 educators who are using mobile technology in innovative ways, and to help identify K-12 schools and higher education institutions that HP might support with future grants. Based on the outcomes of the projects funded through the initiative in 2005, HP will offer grant recipients the opportunity to receive higher-value grants in 2006.

Bank One Corporation [74108]

Deadline: Open

Scope: Supporting Youth through Education -- supporting early childhood programs that help young learners develop the literacy skills they need to succeed as they enter elementary school; supporting programs that provide young people with financial literacy skills they need to succeed in work and in life; promoting partnerships among schools, parents, and community agencies in low-income areas to encourage community-based schools that provide enhanced programming and services for young people and community residents; and supporting education initiatives designed to help students from economically disadvantaged backgrounds prepare for and gain access to college.

Institute of Education Sciences (ED) [80645]

Deadline: Open

Scope: The sponsor announces its interest in considering unsolicited appli-

An Eye on Funding (continued from page 2)

cations for research, evaluation, statistics, and dissemination projects that would make significant contributions to the mission of the Institute. The Institute's mission is to conduct and

support rigorous education statistics, research, and evaluation in order to provide reliable information about the condition of education, education practices that improve academic achievement, and the effectiveness of federal and other education programs. Unsolicited applications are defined as those that are not eligible for funding under the Institute's current grant competitions.

As an example of a permissible unsolicited application, the Institute could consider a proposal to conduct research on statistical techniques and research methodologies to address specific problems in education research because none of the Institute's competitions for the current year covered this content. In contrast, the Institute could not consider an unsolicited application to conduct research on the effectiveness of a mentoring program for teachers because this content was solicited in the Institute's competition for Teacher Quality Research Grants. Potential applicants should be aware that the Institute does not provide funds to support program delivery or the provision of services. In addition, activities supported by the Institute must be relevant to U.S. schools.

HEALTH & WELLNESS

Health and the Workplace (NICHD) [2839]

Scope: The National Institutes of Health is inviting applications to develop a research network that will lay the groundwork for examining the health consequences of workplace policies and practices.

"...to provide reliable information about the condition of education, ..."

Deadline: Nov. 22 for letters of intent; Dec. 20 for applications.

Funds: \$1 million from the National Institute of Child Health and Human Development, \$480,000 from the National Institute on Alcohol Abuse and Alcoholism, and

\$300,000 from the Centers for Disease Control and Prevention's National Institute for Occupational Safety and Health to support six to nine new grants. Applicants may request up to \$350,000 a year each for up to three years for a developmental center and \$175,000 a year for one coordinating center.

Areas: Researchers will design model protocols for large multi-site intervention studies of the effects of workplace policies and practices on employees' health and well being, as well as outcomes for caregivers, spouses, children and other dependents. Policies and practices to be examined should be aimed at improving the ability of workers to meet both work and family demands. Such practices include changes in schedule flexibility and benefits. Initially, investigators will work together to: develop a common overall conceptual model to guide experimental or quasi-experimental studies; explore theoretical, research design and measurement issues involved in workplace interventions; identify important health outcomes to be studied and significant sources of work-family conflict; foster a partnership with a workplace site for exploratory research; conduct pilot studies to test the feasibility of implementing specific site-appropriate interventions; and design a model or models to measure employer return on investment for the implementation of interventions.



Energy Balance/Obesity (NIH) [2839]

Scope: The National Institutes of Health invites applications to develop and validate new and innovative bio-engineering technologies to address

clinical problems related to energy balance, intake and expenditure.

Deadline: Jan. 17 for letters of intent; Feb. 16 for applications.

Funds: \$4.8 million for eight to 12 awards, including research project grants of varying amounts for up to four years; and exploratory/development awards of up to \$275,000 each over two years.

Areas: Funders encourage basic and applied research with rigorous hypothesis-testing designs. Examples of interests are innovative technologies—including nanotechnologies—for miniaturized sensors, devices, imaging and other approaches to measuring and monitoring the component states of energy balance.

Sponsoring agencies are National Heart, Lung and Blood Institute, National Institute on Aging, National Institute of Biomedical Imaging and Bioengineering, National Institute of Diabetes and Digestive and Kidney Diseases and National Cancer Institute.

Children's Risk Behaviors (NIH) [2842]

Scope: The National Institutes of Health invites applications to deepen understanding of the factors and mechanisms that determine changes in health risk behaviors during childhood and adolescence.

Deadline: Feb, June 1, Oct. 1.

Funds: There is no specific dollar set-aside. Funding is via the regular research project grant (R01), which provides varying amounts for five years; and the exploratory developmental grant of \$275,000 each over two years.

Areas: Risk areas range from tobacco and alcohol use to unhealthy eating and physical inactivity.

HUMANITIES

Consultation Grants for Museums, Libraries & Special Projects (NEH)

Scope: Consultation grants help museums, libraries, historical organizations, or community organizations develop a new public humanities project or chart

Multi-pronged Effort Urged to Build Education Science

Federal agencies, grantees and their associations have their work cut out to make sure future government funded studies on education meet the mandate of No Child Left Behind act for evidence-based education practice, said a new report from the National Research Council.

NCLB puts a premium on grounding practice in science, but making sure education research meets the test of rigor and relevance takes more than legislation, said the NRC, the operating arm of the National Academies. The job entails building a community of scientists, according to the expert panel that authored the report.

Grant-making agencies, scientific and professional associations, journal publishers, and schools of education, especially, are in line for heavy lifting.

Those institutions wield the tools for promoting quality control in education research—for example, mechanisms such as peer review, publication mores and professional training—the report explained. Qual-

ity depends more on establishing common standards than championing a particular scientific approach, it argued. To ensure research excellence, the report recommended:

- **Federal agencies should:** define and enforce peer review quality through ensuring reviewer expertise—including in the review process—and diversity by involving multiple perspectives and groups; fund large-scale partnerships; and create infrastructure to foster data-sharing, which permits replication and knowledge accumulation.

- **Professional associations and publishers should:** set standards for data sharing; require authors to submit their data with their journal manuscripts; create infrastructure to promote data sharing and knowledge accumulation; develop standards for structured abstracts; and adopt manuscript review systems that support professional development.

- **Schools of education and universities should:** design quality training programs for individuals pursuing education research

careers that cultivate deep substantive and methodological knowledge and provide a range of meaningful research experiences.

Individual investigators may shoulder the heaviest burden, added the report, which is the third and final in a series. After all, it's up to them to take on the kind of research, training and professional activities called for, namely, secondary analyses and replications, interdisciplinary doctoral training and volunteer service on peer review committees.

Contact: *Advancing Scientific Research in Education* is available at <http://books.nap.edu/catalog/11112.html>.



An Eye on Funding (continued from page 3)

a new interpretive direction of an existing program. They support the costs of conferring with a team of advisors to help identify key humanities themes and questions during the early stages of a project's development.

Public humanities programs promote lifelong learning for broad public audiences in fields such as history, literature, comparative religion, and philosophy, and other fields of the humanities. They go beyond the presentation of factual information to encourage thought and conversation about humanities ideas and questions. Projects that offer new insights into familiar subjects and use innovative formats and non-traditional ways of engaging audiences are welcome, as are projects with interdisciplinary perspectives. Organizations that have never received an NEH grant are encouraged to apply.

Deadline: March 22, 2005

Funds: Awards of up to \$10,000 are

normally made for a period of 6-12 months.

Faculty Humanities Workshop (NEH)

Scope: Grants for Faculty Humanities Workshops support local and regional professional development programs for K-12 teachers and faculty at post-secondary institutions.

Deadline: April 19, 2005.

Funds: Successful applicants will be awarded a grant of up to \$30,000 in outright funds for projects serving a single institution; regional or multi-institutional programs may receive awards of up to \$75,000. The grant period may run between twelve and eighteen months, depending on the project. When two or more institutions or organizations collaborate on an application, one of them must serve as the lead applicant and administer the project on behalf of all participating units.

Areas: Workshops should:

- extend and deepen knowledge of the humanities by fostering collaborative study of significant topics, texts, and issues;
- provide faculty with the opportunity to engage in rigorous intellectual inquiry, including reading, reflection, and discussion;
- involve scholars from outside the institution(s) who are experts in the topic of the workshop;
- use creative formats and programs to engage faculty members; and
- advance the study and teaching of the humanities at the participating institution(s).

Proposals to provide workshops for teachers with limited access to professional development in the humanities are encouraged. These workshops may include teachers at charter schools, parents who homeschool, private license school faculty, and community college faculty. If the workshop is
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Campus News

No 'Solo' Effort

The original theatre production "No Such Thing As Solo" is coming together, word by word, writing by writing, night by night on the SUNY Oswego campus.

The creative collaboration by students and others, directed by community theatre performer and writer Peggy Shaw, will open Nov. 5 at the Frances Marion Brown Theatre in Oswego's Fort Ontario Park.

Shaw, a 30-year community theatre veteran who is half of the Split Britches performing troupe in New York City, came on invitation from SUNY Oswego theatre faculty

member Jonel Langenfeld-Rial to oversee a production about surviving domestic violence. It's a tricky tightrope act, they said, trying to shed light on a pervasive problem while not dwelling on the negative aspects of domestic violence.

"I work with something called 'creative truth,' where you take the truth and make it into poetry or into interesting writing of some kind," Shaw said. She also uses "impulse writing," which emphasizes spontaneous creativity over self-censorship and self-consciousness.

She has been working with a core of SUNY Oswego students as well as survivors of domestic violence at a safe house run by Oswego

County's Services to Aid Families.

"This is about empowerment, not exploitation," Shaw said of getting survivors' stories. For example, she may ask them to fantasize about what they would like to be or the life they would like to lead and write something that reflects it.

Much of the creative process also involves nightly meetings with students whose creative work helps forge the production's outline. Through "homework" assignments, creativity exercises and interactive collaboration under Shaw's guidance, the piece is coming together. "It's thrilling, really," Shaw said.

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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)

designed for K-12 educators, project directors are encouraged to make arrangements with the appropriate state agency for participants to receive continuing education units (CEUs) or in-service credit.

Funds may be used to pay for guest scholars and visiting consultants, books and other materials, logistical support, and appropriate release time for project staff.

Implementation Grants for Special Projects (NEH)

Scope: Special Project grants support a variety of public humanities program formats, including public discussion forums, hands-on learning experiences, discussion series based on reading or film-viewing, multi-faceted conferences, or symposia. Small exhibitions or interpretive publications might serve as common texts for such programs. Living history or historical impersonations might also be appropriate if they are deeply grounded in scholarship. Applicants for an implementation grant should have already identified their project's key humanities themes, relevant scholarship, and program formats. Most of the planning and consultation with scholars and programming advisors should already have taken place.

Special Projects may take place at diverse venues, including community centers, places of worship, 4-H clubs, neighborhoods, parks, visitor centers, workplaces, state fairs, or in fields under tents. Development of a content-rich website might also be a Special Project. The audiences might be the general public or non-academic groups, such as senior citizens, youth, members of civic organizations, members of a profession (i.e. journalism or medicine), history and heritage tourists, hobbyists, or local citizens.

NEH strongly encourages Special Projects that take place at multiple venues regionally or nationally. Organizations

or associations with regional or national distribution mechanisms are often best equipped to do this. Single-site projects are rarely competitive unless they are of exceptional scope and quality, hold unusual promise as models, or are conceived as pilots for larger-scale projects.

Deadline: February 3, 2005.

Funds: Awards of up to \$300,000 are usually made for a period of 24 to 36 months. Cost Sharing Implementation grants normally pay no more than 60% of a project's total cost. The balance must be met through cost sharing, such as cash contributions by the applicant and third parties (including gift money used to release federal matching funds) as well as third-party in-kind contributions, such as donated goods and services.

Areas: Public humanities programs support lifelong learning in history, literature, comparative religion, philosophy, and other fields of the humanities for broad public audiences. They go beyond the presentation of factual information and encourage thought and conversation about humanities ideas and questions. Applications for projects with interdisciplinary perspectives are welcome, as are applications for projects that offer new insights into familiar subjects and use innovative formats and non-traditional ways of engaging audiences.

Projects should:

- be based on sound humanities scholarship;
- involve humanities scholars in all phases of development and implementation;
- be of interest to broad audiences;
- deepen public understanding of significant humanities questions;
- approach the subject thematically, analytically, and interpretively through an appropriate variety of perspectives;
- employ appealing and accessible program formats that will actively engage the general public in learning; and
- expand the numbers of people reached by taking place at multiple venues, featuring creative collaborations, promoting outreach to new or underserved au-

diences, or serving as models that can be emulated.

INTERDISCIPLINARY

Nanotechnology and Human Health (EPA) [2839]

Scope: The Environmental Protection Agency invites applications for research on the potential implications of nanotechnology and manufactured nanomaterials on human health and the environment. This is a joint initiative with the National Science Foundation and the Centers for Disease Control and Prevention.

Deadline: Jan. 5.

Funds: \$7 million in 2005, including \$5 million in fiscal 2005 from EPA and \$1 million each from NSF and CDC. Funding mechanisms include standard research grants of up to \$400,000 each in total costs over three years; and developmental/exploratory grants of \$200,000 each over two years.

Areas: Proposals should address one of following interest areas, which vary by agency:

- EPA—research on the possible risks and exposure routes of newly produced chemicals and materials at the nano-scale;
- NSF—proposals focused on emerging and potentially transformative ideas, application of new expertise or new approaches to established research topics; and
- NIOSH—research on the relationships between hazardous working conditions and associated occupational diseases and injuries, ways to evaluate workplace hazards, development of new protective equipment, technologies and work practices to reduce the risks of occupational hazards and evaluation of new health and safety procedures.

Bioactive Food Components (USDA) [2839]

Scope: The Agriculture Department solicits proposals for fundamental and mission-linked research on the role of foods and their biologically active components, or phytochemicals, in promot-



No 'Solo' Effort *(Continued from page 5)*

"We're not worrying about a product as much as the process of getting people creative and telling them their stories are valid. It's up to us to make it theatrical."

Langenfeld-Rial said that while the production focuses on women because they are the most likely targets of domestic violence, the process notes that there are also men and children who survive abuse.

"The production is for everyone, even though we focus on women. It's for men and children, too," she said. "All we ask is for people to come with an open mind and not to expect the usual theatre production."

The production will preview at 8 p.m. Thursday, Nov. 4, with all seats \$5. The premiere of "No Such Thing as Solo" at 8 p.m. Friday, Nov. 5, is a Salute to Services to Aid Families, with all tickets \$20. The show also has an 8 p.m. curtain Nov. 6 and a 2:30 p.m. start Nov. 7. Tickets for those shows cost \$12, \$10 for seniors and students, \$7 for SUNY Oswego students.

This project is made possible in part by Artists and Communities, a program of Mid-Atlantic Arts Foundation, and by major funding from J. P. Morgan Chase Foundation. It is carried out in cooperation with Artswego, Services to Aid Families and the Oswego Players. The Tar-

get Corp. provided additional funding.

For reservations, call the Tyler Hall box office at 312-2141.



Courtesy of SUNY Oswego News

"The best way to predict the future is to invent it." -- Alan Kay

Eye on Funding (continued from page 6)

ing health.

Deadline: Nov. 3.

Funds: \$4.2 million for awards up to \$500,000 each for two to four years.

Areas: USDA seeks innovative research in the following areas: mechanistic studies of the bioavailability, function, efficacy and safety of physiologically active dietary components and neglected nutrients; interrelationships among dietary components in promoting health; and mechanisms underlying the relationship between diet and optimal health, e.g., the influence of bioactive food components on the immune, cardiovascular, gastrointestinal and central nervous systems. The program encourages interdisciplinary approaches.



Robert Wood Johnson Foundation Seeks Proposals for Active Living Research Program

Deadline: December 1, 2004

Scope: The Robert Wood Johnson Foundation (<http://rwjf.org/>) is engaged in multiple strategies to promote healthier

communities and lifestyles and to reduce the growing rate of obesity in the United States. As part of this effort, the foundation seeks proposals for Active Living Research, a \$12.5 million national program to stimulate and support research that will identify environmental factors and policies that influence physical activity.

In its fourth round of funding, the program is seeking case studies of community efforts to change environments or policies that are relevant for active living. Proposals must address either:

1) the policy change process, or 2) policy innovations. Proposals should demonstrate the ability to produce clear, systematic studies that will inform policy makers about promising approaches to making environmental and policy changes that increase physical activity in the U.S.

Funds: A total of up to \$500,000 is available in this funding round: up to \$30,000 for single-case studies, and up to \$60,000 for multiple-case studies.

National Geographic

Scope: The National Geographic Society awards grants for scientific field research and exploration through its Committee for Research and Exploration. All proposed projects must have both a geographical dimension and relevance to other scientific fields and be of broad scientific interest.

An Eye on Funding (Continued from page 7)

Applications are generally limited to the following disciplines: anthropology, archaeology, astronomy, biology, botany, geography, geology, oceanography, paleontology, and zoology. In addition the committee is emphasizing multidisciplinary projects that address environmental issues (e.g., loss of biodiversity and habitat, effects of human-population pressures).

Funding is not restricted to United States citizens. Researchers planning work in foreign

countries should include at least one local collaborator as part of their research teams. The committee will not

consider applications seeking support solely for laboratory work or archival research. While grants are awarded on the basis of scientific merit and exist independent of the Society's other divisions, grant recipients are expected to provide the Society with rights of first refusal for popular publication of their findings.

This grant program does not pay educational tuition, nor does it offer scholarships or fellowships of any kind.

Deadline: Open

Eligibility: Applicants are expected to have advanced degrees (Ph.D. or equivalent) and be associated with an educational organization or institution. Independent researchers or those pursuing a Ph.D.-level degree may apply, but awards to non-Ph.D. applicants are rare. As a general rule, all applicants are expected to have published a minimum of three articles in peer-reviewed scientific journals.

Funds: While grant amounts vary greatly, most range from U.S. \$15,000 to \$20,000. There is no set quantity of grants awarded, but budget constraints keep the number to approximately 250 per year.

As National Geographic Society funds are intended to function as complementary support, the committee strongly encourages applicants to seek addi-

tional, concurrent funding from other funding agencies. Committee grants tend to act as seed money and are given for one year's research.

Sometimes, but rarely, the committee will fund a maximum of two years of research. If the project director in your project feels that there are distinctive and substantive reasons for submitting a two-year application, he or she should understand that competition is keen, and awards for two years are scarce.

Superfund Research/Training (NIEHS) [2840]

Scope: The National Institute of Environmental Health Sciences invites applications for university based research and training projects focusing on the health risks and challenges posed by addressing Superfund hazardous waste sites.

Deadline: Feb. 14 for letters of intent; April 21 for applications.

Funds: \$24 million in fiscal 2006 for 7 to 10 grants of up to \$2.1 million in first-year funding. The project period is five years.

Areas: The program focuses on: methods and technologies to detect hazardous substances in the environment; advanced techniques to detect, assess and evaluate the effect on human health of hazardous substances; methods to assess the risks to human health presented by hazardous substances; and basic biological, chemical and physical methods to reduce the toxicity of hazardous substances. Broad categories of interest are: mechanism-based studies; susceptibility and predisposition research; exposure assessment research; remediation studies; ecosystems research; investigations of mixtures and simultaneous exposure to multiple hazardous substances; and risk assessment.

Alcohol Education (NIAAA) [2840]

Scope: The National Institute on Alcohol Abuse and Alcoholism for alcohol education projects at all levels, with emphasis on to K-12 school programs.

Deadline: Feb. 1, June 1.

Funds: There is no dollar set-aside. Funding is via the education project grant (R25), which provides up to \$250,000 a year each in direct costs. Indirect costs are limited to 8 percent of direct costs. NIAAA expects to make up to three grants a year.

Areas: Activities are geared to expanding the knowledge of primary/secondary school educators and/or students, as well as undergraduate and graduate students, on the science of alcohol and alcohol related problems.

Socio-Behavioral Data on Aging (NIA) [2842]

Scope: The National Institute on Aging seeks small grant applications to stimulate and facilitate data archiving and secondary analysis of data related to social and behavioral issues in aging research.

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

Funds: Up to \$50,000 a year each for two years.

Areas: Funds support: archiving involving data on care giving, cognition, demography, economics, epidemiology, behavioral genetics and other behavioral research on

aging; preliminary projects using secondary analysis that could lead to full-scale research projects; rapid analyses of new databases and experimental modules to inform the design and content of future studies; assembly of new databases from existing data; and pilot research on underutilized databases.



SCIENCES

Integrated Ocean Observing Systems (NOAA) [2841]

Scope: The Commerce Department's National Oceanic and Atmospheric Administration invites applications under a geographically broadened funding priority for projects to enhance the organization of regional coastal ocean observing systems (Sept. 24 Federal Register)



An Eye on Funding (Continued from page 8)

Deadline: Dec. 1.

Funds: \$5 million in total funding for eight to 11 grants of \$100,000 to \$400,000 each.

Areas: NOAA will consider proposals from additional geographical areas, including: southeastern, mid-Atlantic, Great Lakes, Pacific Northwest, Alaska and central and southern California regions.



University Nanosat Grants (AFOSR/NASA) [2839]

Scope: In concert with the National Aeronautics and Space Administration, the Air Force Office of Scientific Research announced a program to promote and sustain university research and education focused on small satellites and related technologies.

Deadline: Dec. 2.

Funds: \$55,000 a year each for two years.

Areas: The program will fund individual projects to design, fabricate and test small satellites (no more than 30 kg and 45 cm) and related technologies, including enabling technologies for nanosats, and for the design of experiments that can be performed by nanosats in orbit.

2010 Gene Project (NSF) [2839]

Scope: The National Science Foundation invites research to determine the function of all genes in the spinach-related model plant *Arabidopsis thaliana* before the 2010.

Deadline: Jan. 21.

Funds: \$13 million for 15 awards of up to \$1 million a year each for up to four years.

Areas: Under this ongoing project, NSF continues to seek proposals that will use high throughput methods to understand the gene circuitry underlying plant processes and proposals to determine the function of genes of unknown function. Investigators may focus on the genes of their choice but must identify them prior to the submission of their proposals.

tion of their proposals.

Environmental Student Intern (EPA) [2839]

Scope: The Environmental Protection Agency seeks applications to implement an internship program to provide on-the-job training and practical experience for undergraduate and/or graduate students interested in careers in the environmental sciences.

Deadline: Nov. 19.

Funds: \$700,000 for one award of \$135,000 a year.

Areas: The project will provide opportunities for student interns to participate in developmental activities and training assignments at EPA's Radiation and Indoor Environments National Laboratory in Las Vegas.

Neuroimaging Studies (NIA) [2839]

Scope: The National Institute on Aging and the National Institute of Biomedical Imaging and Bioengineering invite proposals for ancillary studies to the Alzheimer's Disease Neuroimaging Initiative (ADNI), a multi-site, longitudinal, naturalistic study of cognition in aging.

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

Funds: There is no specific funding setaside. Funding is via the research project grant, which provides varying amounts for up to four or five years; the small grant of up to \$50,000 a year for two years; and the exploratory development grant, which provides up to \$275,000 each over a two-year period.

Areas: Examples of interests are: studies for measuring potential biomarkers that use biological samples from ADNI; studies of data processing and analysis that use imaging collected from ADNI; and autopsy follow-up studies.

University-Industry Math Research (NSF) [2841]

Scope: The National Science Foundation seeks applications for university-industry research fellowships and assis-

tantships to enable mathematical scientists to conduct research in industry environments and industry scientists to return to academia.

Deadline: June 2, annually.

Funds: \$1 million for 10 awards in 2005. Awards vary in size according to the type of support: up to \$111,000 (\$71,000 from NSF and \$40,000 from industry) for two-year university-industry postdoctoral research fellowships; the equivalent of a six-month full-time salary up to \$50,000 for one year for university-industry senior research fellowships; and up to \$20,000 per student per year for industry based graduate research assistantships and cooperative fellowships.

Areas: The goal is to foster research experiences and relationships that may stimulate technological advances.

The program supports:

- University-industry postdoctoral fellowships, which permit recent doctoral recipients to split their time between academe and industry;
- University-industry senior research fellowships, which enable mid-career and senior scientists to take sabbaticals in industry or pursue collaborations;
- Industry-based graduate research assistantships, which permit graduate students to move between university and industrial settings and work under the joint supervision of faculty and industry scientists; and
- Industry-based graduate cooperative fellowships, which permit graduate students to participate fulltime in industrial research as interns for one year.



An Eye on Funding (continued from page 9)

taminant entering any waste stream or released into the environment prior to recycling, treatment or disposal. EPA will fund activities that encourage: environmentally preferable purchasing by state, tribal and local governments, as well as the private sector; or integration of pollution prevention into multimedia state, local or tribal regulator programs.

National Space Weather Program (NSF)

Deadline: January 16, annually

Scope: The Upper Atmosphere Research Section of the Division of Atmospheric Sciences of the National Science Foundation (NSF), in coordination with the Air Force Office of Scientific Research (AFOSR) and the Office of Naval Research (ONR), solicits proposals in support of the National Space Weather Program (NSWP). The NSWP is a multi-agency Federal program that promotes basic research focused on space weather.

Proposals are solicited for basic research aimed at promoting the NSWP goal to mitigate the adverse effects of space weather by providing timely, accurate, and reliable space environment observations, specifications, and forecasts. Further information about NSWP objectives can

be obtained from the National Space Weather Program Strategic Plan and Implementation Plan. Both of

these documents are available online through the Office of the Federal Coordinator for Meteorology at <http://www.ofcm.gov/homepage/text/pubs.htm>.

Funds: The maximum yearly award size of \$100,000 has been eliminated. However, even though the maximum award size is no longer specified, proposers should be aware that typical awards are still expected to be about \$100,000 per year.

Areas: The National Space Weather Program (NSWP) is a multi-agency

Federal research program seeking to mitigate the adverse effects of space weather. The NSWP goal is to ultimately achieve timely, accurate, and reliable space environment observations, specifications, and forecasts. Information about the NSWP can be obtained from the National Space Weather Program Strategic Plan and Implementation Plan. Both of these documents are available online through the Office of the Federal Coordinator for Meteorology at <http://www.ofcm.gov/homepage/text/pubs.htm>. Proposals may be submitted for basic research in solar, heliospheric, magnetospheric, ionospheric, and thermospheric physics aimed at meeting the goals of the NSWP.

Theoretical Foundations (NSF)

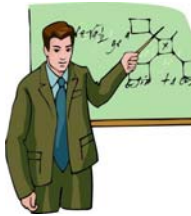
Scope: Projects supported in the Theoretical Foundations (TF) cluster seek to determine inherent limits of computation and communication, and to obtain optimal solutions within those limits. They address fundamental issues of information science and technology, both within computation and communications and at the interface between these and other disciplines. The cluster is broadly concerned with problems of information processing that fall within the extremes of purely theoretical studies and applications within disciplines. Research and education projects sponsored by the cluster bring advanced capabilities from computer science, scientific computing, communication theory, signal processing theory, mathematics, and application areas to bear on fundamental problems throughout science and engineering. The cluster also solicits proposals to produce innovative curricula or educational materials to help advance the training of new experts in theoretical foundations of computing and communication.

Deadline: January 5, 2005.

Funds: Anticipated Type of Award: Standard or Continuing Grant, Estimated Number of Awards: 90 to 120 - Average award of \$125,000 per year for 3 years, Anticipated Funding

Amount: \$42,000,000 in fiscal year 2005, pending the availability of funds.

Areas: The Theoretical Foundations (TF) cluster is the successor to the Formal and Mathematical Foundations cluster which was described in the solicitation, [NSF 04-520](#). Projects supported in the TF cluster seek to determine inherent limits of computation and communication, and to obtain optimal solutions within those limits. They address fundamental issues of information science and technology, both within computation and communications and at the interface between these and



other disciplines. The cluster is broadly concerned with problems of information processing that fall within the extremes of purely theoretical studies and applications within disciplines. Research and education projects sponsored by the cluster bring advanced capabilities from computer science, scientific computing, communication theory, signal processing theory, mathematics, and application areas to bear on fundamental problems throughout science and engineering. The cluster also solicits proposals to produce innovative curricula or educational materials to help advance the training of new experts in theoretical foundations of computing and communication.

Interagency Opportunities in Metabolic Engineering (NSF)

Scope: This solicitation describes a collaborative effort among the Department of Agriculture, Department of Commerce, Department of Defense, Department of Energy, Environmental Protection Agency, National Aeronautics and Space Administration, National Institute of General Medical Sciences (National Institutes of Health), and the National Science Foundation. The intent of this interagency solicitation is to: 1. Provide an opportunity for an interagency granting activity in the area of metabolic engineering (ME). Eight

An Eye on Funding (continued from page 10)

agencies or departments are to make available up to \$6,000,000 from current research funding, and possible additional agency in-kind support such as equipment, laboratory space, personnel time, and materials, in support of this solicitation. 2. Draw attention to Federal research and development (R&D) interests and opportunities in metabolic engineering, which is coordinated through the Metabolic Engineering Working Group (MEWG). In July 1995, the Biotechnology Research Subcommittee (BRS), an Interagency Coordinating Committee under the Office of Science and Technology Policy (OSTP), released the report *Biotechnology for the 21st Century: New Horizons* that identifies research priorities and opportunities in biotechnology. One of the research priorities included the need for a better understanding of metabolic pathways and metabolic engineering in living systems. To stimulate increased awareness and attention to this field, the Subcommittee on Biotechnology established MEWG. Among its various activities, MEWG has held five grant competitions (NSF 98-49, NSF 99-85, NSF 01-19, NSF 02-037, and NSF 03-516). The first competition resulted in 19 proposals with five awards totaling \$3,600,000, the second competition resulted in 29 proposals with six awards totaling \$3,100,000, the third competition resulted in 13 awards made from 33 proposals totaling \$7,500,000, the fourth competition resulted in 11 awards from 47 proposals totaling \$7,600,000, and the fifth competition resulted in 10 awards from 41 proposals totaling \$5,800,000. Participating agencies have varied research interests in metabolic engineering. Information on agency interests can be obtained at: <http://www.metabolicengineering.gov/>
Deadline: January 20, 2005
Funds: Estimated Number of Awards: 10, Anticipated Funding Amount: \$6,000,000. The total estimated amount

“...ASA track is intended to serve faculty, departments, administrators, and education officials interested in the measurement of student achievement...”

of funding available for interagency ME support is up to \$6,000,000 (up to \$2,000,000 for FY 2005 NSF support), subject to the availability of funds and quality of proposals. There may be additional in-kind support.
Areas: The solicitation describes a collaborative effort among the Department of Agriculture, Department of Commerce, Department of Defense, Department of Energy, Environmental Protection Agency, National Aeronautics and Space Administration, National Institute of General Medical Sciences (National Institutes of Health), and the National Science Foundation. The intent of this interagency solicitation is to provide an opportunity for an interagency granting activity in the area of metabolic engineering (ME). The eight participating agencies or departments are providing research funding and agency in-kind support such as equipment, laboratory space, personnel time, and materials, in support of this solicitation.

CCLI Adaptation & Implementation Track (NSF) [2837]

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.

CCLI Assessment of Student Achievement Track (NSF) [2837]

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.

Learning Science Centers (NSF) [2842]

Scope: The National Science Foundation invites applications to establish large-scale, long-term centers that will extend the frontiers of knowledge on all types of learning.
Deadline: Feb. 24 for required preliminary proposals for centers; Jan. 14 for full proposals for "catalyst" awards; June 29 for full invited proposals; and Jan. 15, 2006, for another catalyst grant competition.
Funds: \$3 million for catalyst awards in 2005 and \$20 million for center awards. NSF anticipates making 25 awards, including three to five center grants of \$3 million to \$5 million a

An Eye on Funding (continued from page 11)

year each for five years; and up to 20 catalyst awards of \$200,000 each over two years.

Areas: Centers are designed around a unifying research theme and provide a multidisciplinary environment and partnerships with academia, industry, education organizations at all levels and other key players in education. The centers program is open to varied approaches and emphasizes creativity, integrating theory and empiricism and inventive use of technology. For example, approaches may include: the biological foundations of learning—from the molecular to behavioral; the neural basis of learning; language, communication and symbol systems; learning of disciplinary content; learning technologies, such as intelligent tutoring systems, visualization tools and computer-supported; motivational, emotional and social contexts of learning; and development of new tools and technology to support the science of learning. Catalyst awards are shorter-term enabling grants designed to jumpstart partnerships and organize research activities to facilitate interdisciplinary work. Projects may include workshop and planning, as well as exploratory research aimed at establishing proof of concept.

Astrobiology Instrumentation (NASA) [2842]

Scope: The National Aeronautics and Space Administration invites proposals to develop instrumentation capabilities that will meet requirements for astrobiology research and experiments in connection with future space flight missions, as well as ground based science objectives.

Deadline: Dec. 3 for letters of intent; Feb. 4 for proposals.

Funds: \$6 million for awards of \$30,000 to \$300,000 a year each for three years. NASA also will fund up to seven mission concept studies at \$100,000 to \$150,000 each.

Areas: NASA expects activities to advance development of scientific instru-



ments or instrument components to the point where they could be proposed in response to future flight opportunity announcements, for example, for comet and Mars missions. The program also is interested in development of laboratory instruments to probe new areas of study for astrobiology. Mission concept studies develop ideas for mission planning and for capitalizing on mission opportunities.

Young Investigator Program (ONR) [2840]

Scope: The Office of Naval Research invites applications to support outstanding young academic faculty members to conduct creative research in areas of interest to the Navy.

Deadline: Jan. 13.

Funds: \$7.5 million for awards up to \$100,000 a year each for three years. In addition, the program provides for capital equipment to enhance proposed research during the first year.

Areas: ONR's interests are far-flung. Applicants may propose research in the following broad categories: mathematical, computer and information sciences; electronics; surveillance and communications; sensing and systems; processes and prediction; physical sciences; materials; mechanics and energy conversion; ship hull, mechanical and electrical systems; medicine and biology; cognitive, neural and social sciences; strike technology; and expeditionary warfare operations technology, including nanoscale technology.

Metabolic Engineering (NSF/EPA/USDA) [2840]

Scope: The National Science Foundation and partner agencies invites applications for under an interagency initiative to fund research that will improve understanding and use of metabolic processes. Participant agencies include the Defense Department, the Energy Department, the National Institutes of Health, Environmental Protection Agency, the Agriculture Department,



the National Aeronautics and Space Administration and the Commerce' Department's National Institute of Standards and Technology.

Deadline: Jan. 20.

Funds: \$6 million for 10 awards, including \$2 million in NSF support.

Areas: Agencies welcome projects in other areas but are particularly interested in proposals that address conceptual and technical approaches in four areas: - Instrumentation, sensors, new analytical tools and new experimental methods that facilitate the study of metabolic pathways, especially technologies that allow the examination of individual cells;- Quantitative and conceptual models integrated with experimental studies that better characterize the regulation and integration of complex, interacting metabolic pathways;

- Use of bioinformatics to deduce the structure, function and regulation of major metabolic pathways; and
- Engineering of metabolic pathways to produce novel substances or otherwise address novel problems in understanding or manipulating such pathways.

Theoretical Foundations (NSF) [2840]

Scope: The National Science Foundation seeks proposals that address fundamental issues of information science and technology within computation and communications and at the interface between disciplines.

Deadline: Jan. 5.

Funds: \$42 million in 2005 for 90 to 120 awards averaging \$125,000 a year each for three years.

Eligibility: For-profit and nonprofit organizations, including colleges, universities and other research organizations.

Areas: Projects seek to determine the inherent limits of computation and communication and obtain optimal solutions with the limits by bringing together advanced capabilities from multiple fields, such as computer science, signal processing theory and mathematics. Interests include: models that represent mathematical and scientific in-

An Eye on Funding (continued from page 12)

formation; models of computation; parallel and distributed computation; high-end application methodologies; advanced signal processing techniques for multiple media; and distributed sensor systems and networks.

Networking Technology, Systems (NSF) [2841]

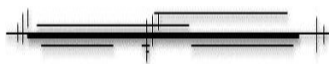
Scope: The National Science Foundation solicits proposals for high-impact proposals that address novel computer and communication network architectures and technologies.

Deadline: Jan. 21, Dec. 14, 2005, and the second Wednesday in December thereafter.

Funds: \$40 million for 60 to 80 awards, including: \$120,000 a year each for three years for single investigator or small group awards; \$500,000 a year each for four years for multi-investigator projects; and \$500,000 a year each for three years for instrument development. NSF also provides limited funding for planning and to conduct workshops.

Areas: NSF will fund the following areas:

- Networking broadly defined, including projects that balance theoretical and experimental research and/or education projects that target next-generation networks, expand understanding of large, complex, heterogeneous networks and continue the evolution of existing networks;
- Programmable wireless networks that involve projects to exploit the capabilities of programmable radios, make effective use of the frequency spectrum and improve wireless network connectivity; and
- Networking of sensor systems, which involves creation of architectures, tools, algorithms and systems that make it easy to assemble and configure networks of sensor systems.



Chemical Study

(Continued from page 1)

"In the tests, the children had trouble waiting or withholding their responses, even if it meant forgoing a larger reward in the long run," Stewart said.

"Exhaustive tests of other factors -- geographic, sociological, economic and others -- narrowed the response inhibition behavior down to PCB exposure," said Jackie Reihman, a co-project investigator.

"When the project began, it mirrored a smaller study conducted around Lake Michigan in the 1980s. The Oswego study began looking at 293 children of mothers who had eaten Lake Ontario fish during pregnancy. Initial findings were similar to the Lake Michigan study, but Oswego's has run longer and provided a more exhaustive examination," said Edward Lonky, one of the project's co-investigators.

The Oswego project's focus has moved from the fish-consumption angle to the broader effects of PCB exposure.

"This is no longer a fish-eating study," Stewart said. "The most likely predictor of the amount of exposure was how old the mother is because you accumulate PCBs in several ways over a number of years."

He stressed that the relatively low exposure amounts mean the subjects are indistinguishable from how other children seem and act, as the differences are only apparent through well-regulated tests.

The research showed that eating Lake Ontario fish was still a risk, but only one of many sources of PCB exposure.

"The grant represented a large portion of the money available through the awarding agency, showing how important reviewers considered Oswego's project," Reihman said. "Oswego will

instructional support, research assistants, supplies and other needed expenses."

Results appeared in such journals as "Environmental Research," "Neurotoxicology and Teratology," "Neurotoxicology" and the National Institutes of Health's "Environmental Health Perspectives." Researchers have presented at dozens of national and international conferences.

The investigating team at the college - which includes Tom Darvill, Brooks Gump, Lonky, Reihman and Stewart of the psychology department and Jim Pagano of the Environmental Research Center -- has also been a model of interdisciplinary cooperation and an opportunity for everyone to learn, researchers said.

"A lot of this wouldn't have been possible without both analytic assistance and PCB measurement from Jim Pagano," Stewart said. "He taught me most of what I know about PCBs. His contributions are a core component of this work."

Lonky added that Oswego's supportive environment has also helped the project succeed. "It all starts from a willingness from the beginning by the college to give us a laboratory, startup equipment and allow us the time necessary to pursue this important work," he said.

Courtesy of SUNY Oswego News





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.

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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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