The following is the summary that was submitted to NSF (National Science Foundation) requesting funds from their MRI (Major Research Instrumentation) program.

PROJECT SUMMARY
This proposal requests $156,072 from the Major Research Instrumentation (MRI) program to acquire surface and upper-air meteorological equipment. Current meteorological instrumentation at SUNY Oswego is inadequate for the lake-effect research that we are otherwise well-positioned and qualified to conduct. The SUNY Oswego campus, with its proximity to Lake Ontario, is an ideal location to carry out research on the effects of lake-land-air interactions as it experiences many interesting lake-induced phenomena. The mobile upper-air facilities will allow us to study the structure and evolution of these mesoscale meteorological systems. Since there is a lack of surface weather stations in the immediate vicinity of the Great Lakes, the SUNY Oswego site, about 30 meters from the shoreline, will provide a robust database for sampling lake-land-air interactions.

(Continued on page 17)

Dr. Scott Steiger launching a weather balloon with student Ted Letcher, December 2008.
Campus News— Conversations in the Disciplines

Academic Year 2009-2010 A Program of Financial Support for Intercampus Scholarly Conferences

Funded by
State University of New York

The Program

The State University of New York, through the State University Faculty Senate’s University Programs and Awards Committee, sponsors intercampus faculty conferences within and across academic disciplines known as "Conversations in the Disciplines." These conferences bring together State University members and visiting scholars to examine new trends, review promising research findings, and become acquainted with professional developments in their fields and on other campuses.

The emphasis of the program is scholarly and creative development rather than administrative, curricular, or instructional matters. Through such interchange, both the professional and personal growth of individuals and the programs of instruction and research at participating campuses are enhanced. The campus hosting the conference administers these intercampus gatherings. No formula is applied in determining the number of colleges that should participate in the "Conversation."

Amount to be Awarded

A sum not to exceed $5,000 may be made available to help support each approved conference. Since 1965, nearly 456 "Conversations" have been held on various campuses in numerous disciplines. Conversations normally occur between September 1 and June 30.

Deadline is Friday, April 3, 2009.

Complete information can be found at http://www.brockport.edu/cid/#closing

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.

<table>
<thead>
<tr>
<th>PROGRAM</th>
<th>DEADLINE</th>
</tr>
</thead>
<tbody>
<tr>
<td>STUDENTS—Graduate &amp; Undergraduate Scholarly &amp; Creative Activity Grants</td>
<td>First Monday in November annually</td>
</tr>
<tr>
<td>FACULTY—President’s Award for Scholarly &amp; Creativity and Research</td>
<td>January 31 annually</td>
</tr>
<tr>
<td>FACULTY—Provost’s Award for Scholarly &amp; Creativity and Research</td>
<td>January 31 annually</td>
</tr>
<tr>
<td>FACULTY—Scholarly &amp; Creative Activity Grants</td>
<td>Second Monday in February annually</td>
</tr>
<tr>
<td>FACULTY—Curriculum Innovation Grants</td>
<td>First Monday in March annually</td>
</tr>
<tr>
<td>FACULTY &amp; STUDENTS—Student/Faculty Collaborative Challenge Grants</td>
<td>Second Monday in February annually</td>
</tr>
</tbody>
</table>
2009 Special Projects Fund

New York State Health Foundation

The New York State Health Foundation (NYSHealth) has a broad mission to improve the health of New York State residents. In order to have a tangible impact, most of the Foundation’s grantmaking is focused on three priority areas: expanding health insurance coverage, improving the management and prevention of diabetes, and encouraging the integration of substance use and mental health services. The Foundation also recognizes that it can be an important resource if it is responsive to opportunities that fit its mission, but are outside the three priority areas. For this purpose, NYSHealth expects to award grants as part of the 2009 Special Projects Fund. Special Projects Fund awards replace what were previously known as special opportunities grants, and should be considered one-time, non-renewable funding opportunities. Applicant organizations must show that proposed projects further the charitable mission of the New York State Health Foundation. Potential applicants are encouraged to contact the Foundation to determine whether a proposed project fits the funding criteria prior to completing and submitting a full application. Such inquiries should be one page in length and must use the inquiry outline provided.

ELIGIBILITY: Existing not-for-profit and for-profit organizations with a significant presence in New York State.

FUNDING: A total of $6 million in grants is available.

DEADLINE: Applications accepted on an ongoing basis.

FOR MORE INFORMATION: Contact The New York State Health Foundation at 1412 Broadway, Suite 2304, New York, NY 10018; by phone: 212-664-7656; or e-mail: specialprojects-fund@nyshealth.org.

Workshops

Come join us this semester for an open house forum to discuss your research and scholarly ideas, answer questions and talk about potential funding opportunities.

This semester, in lieu of organized workshop presentations, ORSP staff will be available on the first Friday of each month from 12:00 to 1:00 (or later, if additional time is needed). This will be a chance for us to learn more about what your specific interests are and how we can facilitate support for you.

Please feel free to drop in and bring your ideas. We will help you focus your ideas and develop an externally fundable project. The grantsmanship process is not as challenging as it may seem when you put many hands and heads together.

When: February 6, March 6, April 3 and May 1.

Time: 12:00 to 1:00
Place: Room 4, Penfield Library (lower level)
No RSVP necessary!
ARTS

French American Cultural Exchange, Project Grants (etant donnees: The French-American Fund for Contemporary Art) [82429]
Deadline: 04/15/09
Synopsis: The Fund offers financial support in the form of grants to American nonprofit institutions organizing exhibitions, installations, artist residencies, publications, or other projects by living French artists or to French nonprofit institutions presenting the same types of projects involving American artists.
Objectives: Qualifying exhibitions may be in the fields of painting, drawing, sculpture, architecture and design, as well as video art or any form of artistic endeavor applying new technologies. American institutions must be presenting a French artist or artists (or legal residents of France for more than five years) in the project submitted. French institutions must be presenting an American artist or artists (or legal residents of the United States for more than five years) in the project submitted.

From the Heart Productions, New York Film Grant [83073]
Deadline: 04/30/09
Synopsis: The sponsor provides funding to filmmakers to create films that are "unique and make a contribution to society."
Objectives: Funding is provided for filmmakers to create short films, low-budget independent films, and documentaries.

Mid Atlantic Arts Foundation, USAartists International Program [83727]
Deadline: 05/04/09
Synopsis: The sponsor is committed to ensuring that the impressive range of expression of the performing arts in the United States is represented abroad, and that the creative and professional development of American artists is enhanced through participation at significant international festivals.
Objectives: Performances at important festivals provide American artists with opportunities for the exchange of ideas and practices with their colleagues in other countries, as well as exposure to new and larger audiences. It is the sponsor's hope that participation of exemplary artists from the United States in international festivals will help develop audiences for, and greater appreciation of, the excellence, diversity and vitality of the American performing arts.
Eligible festivals must: be sponsored or organized primarily by a non-U.S. based organization; be international in scope with representation from at least two countries outside the host country, or have a U.S. theme with representation from at least three U.S. performing artists/ensembles; reach a wide audience and be open and marketed to the general public; provide the applicant with a signed letter of invitation or signed contract to perform at the festival; and provide some support to the invited artists/ensembles in the form of cash remuneration, paid travel-related expenses, or in-kind contributions.

American Composers Forum, Common Ground Grant Program [94849]
Deadline: 04/01/09, 10/01/09
Synopsis: The sponsor seeks applications from Indigenous makers of new music from the U.S. and Canada for its program to support "creation, performance, and audience/community building" activities involving Native musical artists.
Objectives: The goal of the program is to support activities that boost Indigenous creative musicians, such as commissions, residencies, performance and production, travel/study, and outreach. The program also: provides Native musical artists with the opportunity to enrich their work through contact with a variety of communities; makes Native musical artists more visible to underserved communities and/or larger non-Native cultural institutions; and assists Native artists in collaboration with non-Native arts organizations in building audiences; thereby increasing demand for their work.
Grants are designed to give an immediate financial boost to composers, performers, and other makers of new music at a time when this help would have a significant career-enhancing effect. Common Ground is designed to fill the gap in funding for artists who are particularly interested in creating work without the burden of artistic compromise. Common Ground aims to give timely aid to those Indigenous musicians who are strongly dedicated to their art, who show artistic merit, and who propose an excellent project.
Common Ground gives priority to projects that promote the sponsor's goal of getting the work of Native Composers and Musicians into the broader community via partnership with the following four constituencies: Native musicians, Native communities, non-Native communities and non-Native cultural institutions.

EDUCATION

Longview Foundation for Education in World Affairs & International Understanding [63189]
Deadline: 06/12/09
Synopsis: The sponsor makes grants to promote learning about world regions, cultures, and global issues and to develop students' world language and inter-cultural skills in pre-school through high school in the United States. Grants typically range from $15,000 to $30,000
Objectives: The foundation has identified the following priorities for its current grantmaking:
Internationalizing Teacher Preparation- The program to internationalize pre-service teacher education supports activities that help future teachers develop the knowledge and skills to teach the global dimensions of their subject matter and develop intercultural skills. Though study and/or student teaching
abroad may be part of an institution's internationalization strategy, the Longview foundation is interested in supporting strategies on the home campus. These strategies might include curriculum adaptation and faculty development to ensure that: Courses offered in colleges of education include international content. Internationally themed courses offered by colleges of arts and sciences meet the needs of prospective teachers. Future teachers have opportunities to do field work in internationally themed schools or classrooms. Advisors have the information and skills needed to encourage future teachers to take internationally themed courses, learn world languages, and study abroad. Projects will be reviewed with particular attention to: How they help teachers learn to teach the global dimensions of their subject matter and develop intercultural skills; The level of leadership and financial support for the continuation of activities beyond the grant period; The number of teacher preparation candidates the project will reach; Participation of both the college of education and the college arts and sciences; Plans to work closely with the relevant state education agency and/or local school districts; Dissemination plans to encourage replication at other institutions.

Innovations in International Education: This program supports strategic, field-building activities that help address gaps in knowledge or capacity. Projects will also be reviewed for their potential to have a broad impact and remain sustainability beyond the grant period. The foundation is particularly interested in the following areas: Bringing international knowledge and skills to out-of-school time programming; Using technology in innovative ways to reach students and teachers. Including international children’s literature in literacy building initiatives; Connecting the study of world languages with internationalization efforts in other curriculum areas; Promoting system-wide reforms in international curriculum and assessment; Bringing global education to large numbers of students and teachers, especially those in low-income communities; Other activities strategically important for the field.

NEA Foundation for the Improvement of Education [81624]
Deadline: 06/01/09, 10/15/09
Synopsis: The sponsor provides grants to support public school teachers, public education support professionals, and/or faculty and staff in public institutions of higher education in either Learning & Leadership or Student Achievement.

Objectives: Grants are awarded in the following categories: Learning & Leadership: Grants to individuals fund participation in high-quality professional development experiences, such as summer institutes or action research. Grants to groups fund collegial study, including study groups, action research, lesson study, or mentoring experiences for faculty or staff new to an assignment. All professional development must improve practice, curriculum, and student achievement. Student Achievement: The sponsor provides grants to improve the academic achievement of students in U.S. public schools and public higher education institutions in any subject area(s). The proposed work should engage students in critical thinking and problem solving that deepen their knowledge of standards-based subject matter. The work should also improve students’ habits of inquiry, self-directed learning, and critical reflection. Proposals for work resulting in low-income and minority student success with honors, advanced placement, or other challenging curricula are particularly encouraged. Grant funds may be used for resource materials, supplies, equipment, transportation, software, or scholars-in-residence. Although some funds may be used to support the professional development necessary to implement the project, the majority of grant funds must be spent on materials or educational experiences for students.

American Psychological Foundation, Pre-College Grant Program [92078]
Deadline: 05/01/09
Synopsis: The sponsor is seeking proposals for programs that support the science and application of psychological science among talented high school students. More than 200,000 students are currently enrolled in high school psychology, and the sponsor wants to support high quality education in psychology and to nurture the next generation of psychologists.

Objectives: The sponsor has identified the following goals for this program: reinforce the discipline of psychology as a science in secondary school curriculum; expand the profile of psychology as a science to attract talented high school students to pursue the discipline; convey to high school students that psychological science is a tool to improve society; and teach students about career options that apply psychology outside of an academic setting (e.g. NASA, organizational development). Preference will be given to proposals for programs focused on supporting the education of talented high school students.

Entertainment Software Association Foundation [92412]
Deadline: 04/15/09
Synopsis: The sponsor offers support for positive programs and opportunities that make a difference in the quality of life, health and welfare of today’s youth. The sponsor seeks to harness the collective power of the interactive entertainment industry to create positive social impact in our communities. The interactive entertainment industry supports geographically diverse projects and programs that benefit American youth of all races and denominations and both genders.

Objectives: The sponsor is limited in the number of projects that it can support. To receive funding, an organization making a grant request must meet the following criteria: Be tax-exempt under Section 501 (c) (3) of the Internal Revenue Service Code, Seek funding
for a specific project or program that is or will be in two or more states and serves youths ages 7-18, and that provides youth programs in one or more of the following areas: Skills & Personal Development; General Health & Welfare; Risk Behavior Prevention; Education; and Multimedia arts/technology related or applied.

**Best Buy Children's Foundation, National Grants Program [74029]**
**Deadline:** 05/01/09, 08/01/09, 11/01/09
**Synopsis:** The sponsor supports and strengthens communities by funding nonprofit organizations and programs that provide opportunities for youth.
**Objectives:** The sponsor supports programs that enhance kids’ learning experiences through the use of innovative interactive technology. The sponsor’s goal is to create positive experiences that will empower youth to excel in school, engage in their communities, and develop leadership skills.

**HEALTH & WELLNESS**

**Johnson (Robert Wood) Foundation, Health Games Research [95206]**
**Deadline:** 04/08/09
**Synopsis:** The sponsor provides support for research to enhance the quality and impact of interactive games that are used to improve health. A total of up to $2.0 million is available to fund up to fifteen awards under this announcement.
**Objectives:** The goal of the program is to advance the innovation, design and effectiveness of health games and game technologies so that they help people improve their health-related behaviors and, as a result, achieve significantly better health outcomes. Health Games Research will award grants for research that has the potential to advance the design and effectiveness of interactive games and game technologies aimed at improving health. To build this emerging field, the program also contributes to national conferences, presentations at professional meetings, and the widespread dissemination of research findings and resources related to health games. The program focuses on interactive games that are delivered or supported by digital technology. Game platforms and formats of interest to the program range from traditional video games on game consoles, handheld game players, arcade machines, computers, Web sites and multiplayer online worlds, to new kinds of games delivered, for example, by mobile networked computing, exertion interfaces (dance pads, cameras pointed at players, motion-detecting remote controllers), robots, interactive television, virtual environments, electronic toys, context-sensitive programs (using sensors, physiological and health monitors, global positioning systems), or other emerging technologies that are becoming more affordable and accessible.
A major goal of the program is to gain deeper understanding of fundamental social, emotional and cognitive processing of game play experiences related to health, in order to develop theoretically grounded, evidence-based strategies, or principles, for designing and implementing health games successfully.

**HUMANITIES**

**National Historical Publications & Records Commission, Electronic Records Projects [83379]**
**Deadline:** 04/01/09, 06/05/09
**Synopsis:** The Commission seeks ways to ensure that records created today will be usable with tomorrow’s technology. As society moves recordkeeping from paper to electronic records, it is essential that electronic records retain their authenticity and are preserved.
The NHPRC supports efforts by archivists and other records managers to meet the challenges of a proliferation of electronic records.
**Objectives:** The NHPRC especially welcomes projects that build institutional capacity, promote professional development and education in the field, and help create and support consortia and other cooperative programs. Eligible Activities Include: Program Evaluation and Planning Projects; Program Start-Up Projects; Program Expansion Projects; and Cooperative Networks and Service Providers Projects.

**National Historical Publications & Records Commission, Digitizing Historical Records Projects [88471]**
**Deadline:** 06/05/09
**Synopsis:** The Commission seeks proposals that use cost-effective methods to digitize nationally-significant historical record collections and make the digital versions freely available on the Internet.
**Objectives:** Projects must make use of existing holdings of historical repositories and be made up of entire collections or series. The materials should already be available to the public at the archives and described so that projects can re-use existing information to create metadata for the digitized collection. Applicants must have the permission of all relevant copyright holders, where possible.

**NEH, Digital Humanities Start-Up Grants [89821]**
**Deadline:** 04/08/09
**Synopsis:** The sponsor invites proposals for the planning or initial stages of digital initiatives in all areas of the humanities. Digital Humanities Start-Up Grants should result in plans, prototypes or proofs of concept for long-term digital humanities projects prior to implementation. Applications may be submitted by individuals or institutions.
**Objectives:** Digital Humanities Start-Up Grants may involve: research that brings new approaches or documents best practices in the study of the digital humanities; planning and prototyping new digital tools for preserving, analyzing and making accessible digital resources, including libraries' and museums' digital assets; scholarship that examines the philosophical implication of digital humanities projects; and the creation of digital humanities tools.
tions and impact of the use of emerging technologies; innovative uses of technology for public programming and education utilizing both traditional and/or new media; and new digital modes of publication facilitating the dissemination of humanities scholarship in advanced academic as well as informal or formal educational settings at all academic levels.

**National Historical Publications & Records Commission, Strategies and Tools for Archives and Historical Publishing Projects [93232]**

**Deadline:** 04/01/09, 06/05/09, 08/01/09, 10/05/09

**Synopsis:** The sponsor seeks proposals to develop new strategies and tools that can improve the preservation, public discovery, or use of historical records.

**Objectives:** Project may also focus on techniques and tools that will improve the professional performance and effectiveness of those who work with such records, such as archivists, documentary editors, and records managers.

Applications must: Present evidence for the need for improvement in current methods; Demonstrate that the project staff has the skills, educational background, and experience appropriate to the project; Describe which reliable research-and-development methodologies and techniques will be used to produce practical outcomes; Describe how the applicant will test the outcomes with practitioners; Describe how the outcomes will be evaluated; Indicate that the applicant will document the costs and benefits of employing the new strategies or tools; and Describe how the project will publicize the results and make them available to the appropriate professions at minimal or no cost.

**National Historical Publications & Records Commission, Professional Development Grants for Archives and Historical Publishing [93197]**

**Deadline:** 04/01/09, 06/05/09, 08/01/09, 10/05/09

**Synopsis:** The sponsor seeks proposals designed to improve the training and education of professionals in the archival and historical publishing communities.

**Objectives:** Projects can be for professional education curriculum development; for basic and advanced institutes; or research seminars. Surveys, focus groups, and other activities to understand these professions and their educational and training needs are also eligible.

**INTERDISCIPLINARY**

**Compton Foundation, Inc. [59517]**

**Deadlines:** 09/07/09

**Synopsis:** The Compton Foundation seeks to foster human and ecological security by addressing contemporary threats to these inalienable rights. The sponsor supports responsible stewardship that respects the rights of future generations to a balanced and healthy ecology, both personal and global, allowing for the full richness of human experience. The Foundation envisions a world in which humans live in harmony with each other, and in sustainable balance with the earth. To realize this vision, the Compton Foundation focuses most of its grantmaking in the areas of Peace & Security, Environment & Sustainability, and Population & Reproductive Health, with a special emphasis on projects that explore the interconnections between these categories.

**Objectives:** Grants are made in the fields of Peace & Security, Population and Reproductive Health, and the Environment and Sustainability. Areas of interest are as follows:

- **Peace and Security:** The Peace and Security program seeks to promote peace by addressing the need for new policies and practices to provide for human safety in regions of armed conflict. Achieving this goal will involve the military, local police, international defense forces, diplomats, humanitarian relief organizations, private firms, and others. It will also involve establishing new working relationships and better coordination among them to provide for more effective human security. Grants are made primarily to organizations based in the United States, Canada, and Mexico, although proceeds from these grants can be used for work conducted in other countries.
- **Population & Reproductive Health:** In its Population and Reproductive Health grantmaking, the Foundation links population stabilization with peace and environment issues, and as such with broader social development and environmental goals. The primary focus is U.S. national reproductive health policy. The sponsor will also support state-level or regional activities with direct implications for national policy. In addition, the Foundation funds a small number of projects that strengthen service delivery systems in the following areas: Colorado, and the San Francisco Bay Area.
- **Environment and Sustainability:** In its Environment and Sustainability grantmaking, the Compton Foundation seeks a balanced and healthy relationship between humans, other life, and the planet. The Foundation believes it is possible to pursue a holistic and sustainable vision that blends concern for environmental conservation and economic viability, links urban and rural priorities, and views humans as one part of the natural world. The Foundation has chosen three focus areas in which we feel we can make a meaningful contribution to realizing this vision in the United States. Grants in the field of Environment and Sustainability will be made to organizations based in the United States for domestic programs. The Foundation prioritizes projects in the following order:
  1. Regional or statewide projects in the three Pacific Coast states: California, Oregon, Washington; (2) Regional or statewide projects in the eleven western states: California, Oregon, Washington, Colorado, Utah, Idaho, Montana, Arizona, New Mexico, Nevada, Wyoming; (3) Projects of national significance in the United States.
Eye on Funding (Continued from page 7)

Keck (W. M.) Foundation, Grants Program--Science and Engineering, Medical Research, and Liberal Arts [01692]
Deadline: 05/01/09, 11/01/09
Synopsis: Grants are provided for high-risk/high-impact projects that are distinctive and novel in their approach to intractable problems, push the edge of their field, or question the prevailing paradigm. Past grants have been awarded to major universities and independent research institutions to support pioneering science and engineering research and the development of promising new technologies, and to facilitate the purchase of advanced instruments where such instruments would further research ideas.

Objectives: Eligible projects are those for which one or more of the following applies: focus on emerging areas of research at the forefront of science, engineering and/or medicine; have the potential to lead to breakthrough technologies that are innovative, distinctive and interdisciplinary; demonstrate a high level of risk in that the research pushes the edge of its field, represents unconventional approaches to intractable problems, or challenges the prevailing paradigm; have the potential for transformative impact, such as creation of a new field of research, development of new instrumentation enabling observations not previously possible, or discovery of new knowledge that challenges prevailing perspectives.

Grant (William T.) Foundation, Field-Initiated Grants [09020]
Deadline: 04/01/09, 09/09/09
Synopsis: The sponsor provides support for research on how contexts such as families and programs affect youth, how these contexts can be improved, and how scientific evidence affects influential adults. It also funnels various capacity-building activities to develop the infrastructure necessary to do this work. The sponsor also funds activities that encourage communication among influential policymakers, practitioners, scholars and members of the media.

Objectives: The sponsor’s grantmaking is for research, program evaluation studies, policy analysis studies, communications.dissemination and capacity building which will improve the lives of young people ages eight to twenty-five. The sponsor’s current research priorities are: understanding and improving how social settings affect youth ages 8 to 25 in the U.S.; understanding and improving social settings; and understanding and improving the use of scientific evidence.

American Honda Foundation [09372]
Deadline: 05/01/09
Synopsis: The sponsor provides grant support for projects in the areas of youth and scientific education. Average grants range from $10,000 to $100,000 per year.

Objectives: Programs related to youth and scientific education should be: dedicated to improving the human condition of all mankind; soundly managed and administered by enthusiastic and dedicated individuals who approach their jobs in a youthful way; look to the future or foresightful programs; and innovative and creative programs that propose untried methods which ultimately may result in providing solutions to the complex cultural, educational, scientific and social concerns currently facing the American society.

Lawrence Foundation [68740]
Deadline: 04/30/09, 10/31/09
Synopsis: The sponsor is focused on making grants to support environmental, education and human services. The sponsor makes both program and operating grants and does not have any geographic restrictions on grants.

Objectives: The initial focus of the sponsor’s contributions and grants will be education, environment, human services, disaster relief and health although their interests are fairly diverse and may lead into other areas on an occasional basis.

National Endowment for Financial Education [71994]
Deadline: 06/04/09
Synopsis: The sponsor is dedicated to the mission of helping Americans acquire the information and gain the skills necessary to take control of their financial lives. The grants program seeks innovative research and research-based development projects that can make a profound contribution to the field of financial literacy.

Objectives: The sponsor seeks innovative research and research-based development projects that can make a profound contribution to the field of financial literacy. Inquiries from disciplines in fields as diverse as behavior, economics, neuroscience, sociology, psychology, marketing, finance, education, change theory, decision sciences, and others are encouraged. Project outcomes should be actionable in the field of financial literacy, directly relevant to the financial well-being of the public and have the ability to be applied broadly. The sponsor seeks projects whose outcomes can improve the public’s ability to achieve personal and household financial well-being. Of particular interest are pro-active research projects initiated from one of a broad spectrum of scholarly disciplines whose findings may cultivate critical thinking in the financial literacy community. Also of interest are development projects that actuate research recommendations. Project outcomes must be capable of achieving traction and measurable impact with audiences such as financial education intermediaries, researchers, practitioners, decision makers, and others who can achieve effective outreach to a target population with an unmet financial literacy need or to the general public.

NYSERDA, Building Products and Systems [75660]
Deadline: 05/04/09
Synopsis: The sponsor seeks proposals to support the development of innovative products and systems for residential, commercial, and institutional buildings in New York State. These products and systems will improve the...
An Eye on Funding (Continued from page 8)

safety, energy, and environmental performance of buildings. Two rounds are scheduled for this PON and total available NYSERDA funding is $1,500,000. All, or none, of the available funding could be awarded in either round. **Objectives:** Technologies eligible for funding include (but are not limited to): building products of systems; indoor air quality strategies; productivity gains in the manufacture of building products; integrated building systems; green products and systems; and water conservation and reuse. Eligible project types include: development of new technologies or substantial improvements to commercially available technologies; demonstration of eligible technologies; and commercialization of eligible technologies. Lighting systems, electric or fossil fuel heating and cooling equipment, and controls and sensing technologies that do not control or involve indoor air quality are not eligible for support under this program. Proposed projects must be innovative and provide quantifiable energy and environmental benefits for New York State. Technologies whose primary advantage is being green (e.g., environmentally preferred) must also provide a benefit the buildings industry can readily quantify, such as reduced construction costs, lower operating expenses, or greater durability.

**Sparkplug Foundation [78937]**
**Deadline:** 04/24/09
**Synopsis:** The sponsor supports projects primarily in three areas of focus: music, education and community organizing.
**Objectives:** The sponsor supports projects primarily in three areas of focus: Music--The sponsor aims to support the development of music by helping to launch new voices and ideas. The sponsor funds emerging professional musicians or music-development programs. The funding is intended to help them gain a foothold that makes their work sustainable. Education--The sponsor aims to support projects dealing with "the whole student" and with learning as a community activity. The sponsor values critical and investigative thinking, and supports projects which address class disparities in educational access. Grassroots Organizing--The sponsor aims to support individuals and grassroots groups to address institutional injustices, and to build a reasoned, just society.

**FINRA Investor Education Foundation [82341]**
**Deadline:** 05/06/09
**Synopsis:** Through its general grant program, the sponsor funds research and/or educational projects that support its mission of providing underserved Americans with the knowledge, skills and tools necessary for financial success throughout life.
**Objectives:** In 2009, the sponsor is especially interested in applications that focus on the following areas: using behavioral finance to improve saving and investing; meeting the financial and investor education needs of underserved audiences; creating new marketing and distribution channels for financial and investor education; and helping Americans manage their finances and investments in retirement. The sponsor places high priority on reaching and engaging a well-defined target audience, and encourages collaboration and strategic partnerships that facilitate effective marketing and distribution efforts. Successful education projects will have measurable impact and reach large audiences in a cost-effective manner. Preference will be given to projects that can be replicated and sustained beyond the term of grant funding. For research projects, the sponsor is especially interested in work that has practical applications in the financial and investor education field.

**Searle Freedom Trust [93787]**
**Deadline:** 05/01/09, 09/04/09
**Synopsis:** The sponsor provides funding for new media grants to foster research and encourage public policies that promote individual freedom and economic liberty.
**Objectives:** The sponsor aims to foster research and encourage public policies that promote individual freedom and economic liberty. The sponsor supports research and education on a wide range of U.S. domestic policy issues, including tax and budget issues; cost-benefit analysis of regulatory practices and proposals; welfare policy; K-12 and higher education reform; environmental policy; and legal reform.

**Johnson (Robert Wood) Foundation, Health Games Research [95206]**
**Deadline:** 04/08/09
**Synopsis:** The sponsor provides support for research to enhance the quality and impact of interactive games that are used to improve health. A total of up to $2.0 million is available to fund up to fifteen awards under this announcement.
**Objectives:** The goal of the program is to advance the innovation, design and effectiveness of health games and game technologies so that they help people improve their health-related behaviors and, as a result, achieve significantly better health outcomes. Health Games Research will award grants for research that has the potential to advance the
design and effectiveness of interactive games and game technologies aimed at improving health. To build this emerging field, the program also contributes to national conferences, presentations at professional meetings, and the widespread dissemination of research findings and resources related to health games. The program focuses on interactive games that are delivered or supported by digital technology. Game platforms and formats of interest to the program range from traditional video games on game consoles, handheld game players, arcade machines, computers, Web sites and multiplayer online worlds, to new kinds of games delivered, for example, by mobile networked computing, excitement interfaces (dance pads, cameras pointed at players, motion-detecting remote controllers), robots, interactive television, virtual environments, electronic toys, context-sensitive programs (using sensors, physiological and health monitors, global positioning systems), or other emerging technologies that are becoming more affordable and accessible.

A major goal of the program is to gain deeper understanding of fundamental social, emotional and cognitive processing of game play experiences related to health, in order to develop theoretically grounded, evidence-based strategies, or principles, for designing and implementing health games successfully.

National Fish and Wildlife Foundation, Wildlife Links [95869]
 Deadline: 04/01/09

Synopsis: The sponsor provides support for research, management, and education projects that will enhance wildlife management on golf courses on at least a state-wide, and preferably a region-wide or national basis.

Objectives: Research projects must be applied in nature and hold the promise of practical outcomes that will benefit wildlife conservation through golf course design and management. Native pollinators, aquatic invertebrates, reptiles and amphibians, birds, and small mammals are all priorities for Wildlife Links.

Archaeological Institute of America, Site Preservation Grant [98175]
 Deadline: 04/01/2009

Synopsis: The sponsor will provide support for the conservation of ancient monuments and the preparation of management plans for long-term maintenance of the cultural and physical landscapes of sites.

Objectives: The program will provide the project director or legal authority of a site with grants that can be used to assist with repairs, conservation, and restoration, and for improvements to enhance the experience of visitors (for example, development and installation of signage, or stairs and railings that keep tourists away from delicate surfaces and help to assure their safe passage through the site). Strong consideration will be given to projects with local economic and social benefits that enhance the probability of successful and sustainable preservation and conservation.

Department of Foreign Affairs and International Trade [98498]
 Deadline: 05/15/09, 06/02/09

Synopsis: The Program Development Grant is designed to encourage scholarly inquiry and multidisciplinary professional academic activities that contribute to the development or expansion of a program dedicated to the study of Canada or Canada bilateral and multilateral relations.

Objectives: The sponsor is particularly interested in innovative projects that promote awareness among students and the public about Canada and Canada bilateral and multilateral relations. The sponsor strongly encourages projects that lead to institutional linkages and research collaboration in priority areas with Canadian institutions as well as student mobility. Issues of importance for Canada include: Peace and Security; North America Partnership (including key Canada-US bilateral issues); Economic Development and Competitiveness; Democracy, Rule of Law, Human Rights; Managing Diversity; and Environment / Energy.

SCiences

NSF, Science, Technology, and Society [96572]
 Deadlines: 08/01/09

Synopsis: The sponsor provides a range of funding opportunities designed to support the full spectrum of research, educational, and scholarly activities undertaken by scholars working on science, technology and society. This program solicitation covers the eight modes of support detailed below: Scholars Awards; Standard Research Grants and Grants for Collaborative Research; Postdoctoral Fellowships; Professional Development Fellowships; Doctoral Dissertation Research Improvement Grants; Small Grants for Training and Research; Conference and Workshop Awards; and other funding opportunities.

Objectives: Scholars Awards are the usual awards for individual investigators who are undertaking research projects and need full-time release for an academic year or an academic year and a summer. Additional support may be requested through two more years (up to three years in total), although full-time support normally is provided for only one year.

Standard and Collaborative awards include proposals for research, infrastructure or education projects. These proposals ordinarily do not require full-time investigator support like that for Scholars Awards. These grants can also support projects that require several investigators, advisors, or collaboration among Principal Investigators, including investigators at different institutions. They may also involve postdoctoral researchers, or graduate or undergraduate student assistants.

The Fellowships enhance the methodological skills and research competence of researchers in STS fields. Consequently, proposals must describe both a training and a research component, and
the site for the Fellowship must be different from the institution where the Fellow received the PhD degree. The proposal should justify the choices of the venue for the Fellowship and the host faculty member, in terms of the Fellow’s research and training goals. Professional Development Fellowships are available for researchers trained in all areas of Science, Technology, and Society who wish to improve and expand their skills in the areas of science or engineering, and conversely for physical and natural scientists and engineers who desire training in STS disciplines. For example, historians, philosophers, ethicists, and others in fields of the social, behavioral and economic sciences may use this award to work with a scientist or engineer to learn the technical aspects of research in their area. Alternatively, scientists or engineers may use this award to work with a historian, philosopher or social scientist to learn the research methods, analytical tools and approaches current in STS fields.

Doctoral Dissertation Research Improvement Grants provide funds for dissertation research expenses not normally available through the student's university. The dissertation advisor is the principal investigator on these proposals; the doctoral student should be listed as co-principal investigator.

Small Grants for Training and Research (SGTR) are intended to provide sustained research opportunities for graduate students and post-doctoral fellows on important issues in STS. Senior investigators at an institution may propose a sustained course of study, research and training for these students (for from one to three years) on a subject that is significant and innovative. These training programs should have a specific research theme (e.g., ethics and computers in education; logic, rhetoric, and policy; science, technology, and business).

The sponsor can help to support national and international conferences, symposia, and research workshops that enable scientists, engineers, researchers in STS areas of support, policy makers, and representatives of interested groups to develop, evaluate, and share new research findings. STS also supports projects on the interactions of engineering, science, technology and society that emphasize capacity building. Such activities can include national summer workshops for graduate students or faculty, or projects by professional societies to develop concentrations in the ethical, philosophical, historical and social context of science and engineering for undergraduate or graduate level science and engineering students.

**Dreyfus (Camille and Henry) Foundation, Inc., Special Grant Program in the Chemical Sciences [03727]**

**Deadline:** 06/04/09

**Synopsis:** The sponsor offers support to eligible institutions projects that propose to advance the science of chemistry in innovative ways. Proposals are invited in any area consistent with the sponsor's broad objective of advancing the chemical sciences.

**Objectives:** The sponsor encourages proposals that are judged likely to significantly advance the chemical sciences. Examples of areas of interest include (but are not limited to): the increase in public awareness, understanding, and appreciation of the chemical sciences; innovative approaches to chemistry education at all levels (K-12, undergraduate, and graduate); and efforts to make chemistry careers more attractive. Research proposals are not customarily considered.

**Gloeckner (Fred C.) Foundation, Inc. [02734]**

**Deadline:** 04/01/09

**Synopsis:** The sponsor awards grants for research and educational projects in floriculture and related fields at universities, colleges and Federal research institutions in the U.S.

**Objectives:** Support is provided for research and educational projects in floriculture and related fields, such as plant pathology, plant breeding, agricultural engineering, agricultural economics, entomology, and plant physiology, as they relate to floriculture and ornamental horticulture.

**NSF, Enhancing the Mathematical Sciences Workforce in the 21st Century [36024]**

**Deadline:** 06/02/09

**Synopsis:** The sponsor supports projects designed to increase the number of U.S. citizens, nationals, and permanent residents who are well-prepared in the mathematical sciences and who pursue careers in the mathematical sciences and in other disciplines supported by the sponsor.

**Objectives:** This program is intended to help stimulate and implement permanent positive changes in education and training within the mathematical sciences in the U.S. Support is provided under the following components:

- Grants for Vertical Integration of Research and Education (VIGRE): The focus of this component is enhancing the educational experience of all students and postdoctoral associates in a department (or departments). Broad faculty commitment and a team approach to enhancing learning are necessary. A principal element of VIGRE activity is increasing the interaction among undergraduates, graduate students, postdoctoral associates, and faculty members. Integrating research and education for graduate students and postdoctoral associates, involving undergraduates in substantial learning by discovery, and developing a team approach are keys to successful VIGRE projects.

- Research Training Groups in the Mathematical Sciences (RTG): This component will provide groups of researchers with related research goals in the mathematical sciences with funds to foster research-based training and education. The groups may include researchers and students from different departments and institutions, but the research-based training and education activities must be based in the mathematical sciences. The RTGs are ex-
An Eye on Funding (Continued from page 11)

expected to vary in size, scope, proposed activities and in their plans for organization, participation, and operation, but will all have the following characteristics: based in a U.S. academic institution that grants the Ph.D. in the mathematical sciences (faculty and students from a predominately undergraduate institution may participate); focused on a major research theme in the mathematical sciences; have a realistic plan showing how the proposed activity would create new or enhanced research-based training and education experiences in the mathematical sciences for the students and post-doctoral investigators; and be directed by a principal investigator, with at least two other faculty members, who will assist in management and participate fully in the educational and research plans of the RTG.

Mentoring through Critical Transition Points in the Mathematical Sciences (MCTP): This component will provide a system of mentoring devoted to points of transitions in a mathematical sciences career path that are critical for success from undergraduate studies to the early years in a tenure track position. The goal is to encourage the participation of research oriented mathematicians in the nurturing of students and those new to research as they change the intensity of their involvement in university mathematics. The range of activities can vary from preparing postdocs for an academic or industrial career to preparing talented high school students to begin the study of serious mathematics at a university.

**NSF, Research Coordination Networks (RCN) in Biological Sciences [55509]**
**Deadline:** 06/29/09
**Synopsis:** The goal of this program is to encourage and foster interactions among scientists to create new research directions or advance a field. Innovative ideas for implementing novel networking strategies are especially encouraged.
**Objectives:** Groups of investigators will be supported to communicate and coordinate their research, training and educational activities across disciplinary, organizational, institutional, and geographical boundaries. The proposed networking activities should have a theme as a focus of its collaboration. The focus could be on a broad research question, a specific group of organisms, or particular technologies or approaches.

**NSF, Petrology and Geochemistry [61274]**
**Deadline:** 06/01/09
**Synopsis:** The sponsor supports basic research on the formation and chemical composition of Earth materials in the crust, mantle, and core.
**Objectives:** Proposals in this program generally address the petrology and high-temperature geochemistry of igneous and metamorphic rocks (including mantle samples), mineral physics, and volcanology. Proposals that bridge disciplinary boundaries or that include development of analytical tools for potential use by the broad community are also encouraged.

**NSF, Geophysics [61287]**
**Deadline:** 06/01/09
**Synopsis:** This program supports basic research in the physics of the solid earth to explore its composition, structure, and processes.
**Objectives:** The sponsor supports basic research in the physics of the solid earth to explore its composition, structure, and processes. Laboratory, field, theoretical, and computational studies are supported. Topics include seismicity, seismic wave propagation, and the nature and occurrence of earthquakes; the earth’s magnetic, gravity, and electrical fields; the earth’s thermal structure; and geodynamics. Supported research also includes geophysical studies of active deformation, including GPS-based geodesy, and studies of the properties and behavior of earth materials in support of geophysical observation and theory.

**CSREES, Agriculture and Food Research Initiative Competitive Grants Program—Plant Biosecurity [77417]**
**Deadline:** 04/13/09
**Synopsis:** The sponsor supports integrated projects aimed at ensuring a continued supply of safe, high-quality, affordable food and fiber for consumers in the U.S. and international trade partners. The goal of the program is to harness our Nation’s scientific and technological resources to help agricultural producers and professionals implement strategies to safeguard agriculture in the U.S. from high-consequence plant diseases. To accomplish this, the program will focus on integrated research, education and extension projects that counter threats to the agriculture system in the U.S., both by stepwise improvements to current responses and by development of innovative new capabilities.
**Objectives:** To meet these identified needs of agriculture, the long-term (10-year) goals for this program are: provide the understanding and technologies needed to anticipate, deter, protect against, detect, mitigate, and recover from threats to the Nation’s agricultural plant security; provide decision makers and responders with knowledge and decision support tools needed to anticipate, prevent, prepare for, and respond to agricultural threats of high-consequence plant pathogens; and enable strategies for control and elimination of high-risk plant pathogens.
**FY 2009 Priority for Integrated Activities**
1. Development of rapid detection/diagnostic procedures to facilitate monitoring and mitigation of plant pathogens and arthropods of high consequence and importance. If genomic sequences are available for the organisms of interest, investigators are encouraged to utilize these data. The application must contain a compelling case for the proposed work relative to plant biosecurity as outlined in the “Background” section of the project description. Education and/or extension activities must be included in the pro-
j ect.

2. Monitoring and mitigation of diseases caused by high consequence plant pathogens and arthropods through extension/education programs to implement strategies resulting from, or developed in conjunction with, etiological and epidemiological investigations. The application must contain a compelling case for the proposed work relative to plant biosecurity as outlined in the “Background” section of the program description.

FY 2009 Priority for Extension Projects—1. Identification and prioritization of common training and extension needs for first detectors for multiple agencies, such as the Animal and Plant Health Inspection Service, Federal Parks (Department of Interior), State Departments of Agriculture, and Forest Service, and development of curriculum and certification programs to meet these needs. Project may involve the development of Web-based modules and delivery strategies as well as assessment instruments that are valid and reliable for use in certification. Inclusion of strategies for logistics of deployment and curriculum maintenance once the developmental phase is completed will strengthen the proposal. Certification programs and grower education may be delivered through outlets relevant to the target audience, which may include eXtension. The program should focus on high-consequence plant pathogens or arthropod pests that are relevant to plant biosecurity as outlined in the “Background” section of the program description.

**NSF, High End Computing University Research Activity [79033]**

**Deadline:** 04/15/09

**Synopsis:** The High-End Computing University Research Activity (HECURA) program invites research and education proposals in the areas of I/O, file and storage systems design for efficient, high-throughput data storage, retrieval and management in cases where HEC systems comprise hundreds-of-thousands to millions of processors.

**Objectives:** Research areas of interest include, but are not limited to: I/O architectures and I/O middleware; archives/backups as extensions to file systems; file systems research and file systems-related protocols; metadata research; access methods; data management systems; security; novel storage devices for the I/O stack; Quality of Service; management, and reliability and availability at scale (RAS); hardware and software tools for design and simulation of I/O, file and storage systems; and efficient benchmarking, tracing, performance measurement and tuning tools of I/O, file and storage systems.

**NSF, International Research and Education: Planning Visits and Workshops [79941]**

**Deadline:** 05/20/09, 09/20/09

**Synopsis:** The sponsor supports the early phases of developing and coordinating a research and education activity with a foreign partner(s).

**Objectives:** Support is provided for the following:
- Planning visits to assess foreign facilities, equipment, or subjects of research, and to have detailed discussions with prospective foreign partners to finalize plans for cooperative research. Visits typically range from seven to fourteen days.
- Joint workshops designed to identify common research priorities, focused on a specific, well-defined area of research collaboration. U.S. and international co-organizers collaboratively design the agenda around a disciplinary or inter-disciplinary theme, and invite individuals who will uniquely contribute to the workshop’s objectives.
- Workshops may be held at either a U.S. or foreign location. Workshop results should include recommendations to the research community about possible areas for future collaboration and should be broadly disseminated. The pool of U.S. participants should include senior researchers, women and members of underrepresented groups, and, where appropriate, graduate and/or undergraduate students.

**American Institute of Physics, Grants-in-Aid for History of Modern Physics and Allied Fields [84996]**

**Deadline:** 04/15/09

**Synopsis:** The sponsor provides grants-in-aid for research in the history of modern physics and allied sciences (such as astronomy, geophysics and optics) and their social interactions.

**Objectives:** The sponsor provides grants-in-aid for research in the history of modern physics and allied sciences (such as astronomy, geophysics and optics) and their social interactions. Grants will be given to reimburse expenses to use the resources of the sponsor’s Neils Bohr Library in College Park, Maryland, or expenses to tape-record oral history interviews or microfilm archival materials.

**NSF, Nanotechnology Undergraduate Education (NUE) in Engineering [86913]**

**Deadline:** 04/29/09

**Synopsis:** This solicitation aims at introducing nanoscale science, engineering, and technology through a variety of interdisciplinary approaches into undergraduate engineering education. The focus of this year’s competition is on nanoscale engineering education with relevance to devices and systems and/or on the societal, ethical, economic and/or environmental issues relevant to nanotechnology.

**Objectives:** The Nanotechnology Undergraduate Education (NUE) in Engineering program aims to integrate nanoscale science, engineering, and technology into the undergraduate engineering curricula. The NUE program provides funding for projects that will address the educational challenges of these emerging fields and generate practical ways of introducing nanotechnology into undergraduate engineering education with a focus on devices and systems and/or on social, economic, and ethical issues relevant to nanotechnology. Given the worldwide expan-
An Eye on Funding (Continued from page 13)

sion of research and education in nanoscale science and engineering, international collaborations that advance underlying nanoscale science and engineering education goals and strengthen U.S. activities are encouraged.

NUE projects are intended to enable individuals, departments, programs, or campuses to integrate nanoscale engineering into their curricula. Integration could take the form of a new course or courses, or modification of existing courses so that a substantial portion of the course content is based on nanoscale engineering. Integration could include a module or modules in courses that focus on issues of environmental or social change and new developments in nanoscale engineering, or a new course or series of courses that include those focuses. Proposals involving any part of the undergraduate engineering curriculum are eligible. International collaborations that advance the underlying NUE goals and strengthen U.S. activities are encouraged.

NUE emphasizes new approaches to undergraduate engineering education through interdisciplinary collaborations. These collaborations could lead to, but are not limited to: A freshman course introducing the basic phenomena and processes at the nanoscale, the unifying principle of matter at the nanoscale, connections to other disciplines, and application areas of societal relevance; New examples of undergraduate nanoscale engineering courses that are presented through the development of laboratory and demonstration experiments, manuals and other written materials, software, and web-based resources; Development and dissemination of new teaching modules for nanoscale engineering of relevance to engineering education that can be used in existing undergraduate courses; Incorporation of undergraduate research opportunities in nanoscale engineering into the curriculum at any level; and Development of courses or curricular enhancements related to nanoscale engineering and technology and environmental or social change.

NSF, Foundations of Data and Visual Analytics [94206]
Deadline: 04/02/09, 01/20/10
Synopsis: The sponsors invite research proposals whose outcomes will enable data stakeholders to detect the expected and discover the unexpected in massive data sets. Research outcomes will be applicable across broad application areas, establishing a solid scientific foundation for visual analytics systems of the future.

Objectives: Through this solicitation, the FODAVA program will make four to five new FODAVA-Partner awards in each of FYs 2009, 2010, 2011 and 2012, pending the availability of funds. These new FODAVA-Partner projects will explore novel algorithms and methods that will: fundamentally advance the theory and practice of transforming discrete data into new scalable representations suitable for computer manipulation that faithfully represent the content of the underlying data; and synthesize information of different types and from different sources into a unified data representation. Competitive research proposals will also contain a research component taken from a topic area such as, but not limited to, visualization, human-computer interaction, and perceptual psychology that explore how novel algorithms and methods will enhance future visual analytics systems.

Topics of interest include: Synergistic combinations of data transformation techniques to create more meaningful representations with semantic richness and validity; Iterative approaches that will tightly couple novel data transformations with visualization systems, including methods to capture and represent information quality and uncertainty; Novel transformations to facilitate dynamic identification of new or unanticipated events which may also include measures of usefulness; Computational and mathematical algorithms that will enable the unified representation of dynamic data of multiple types and sources; and Fundamentally new approaches to identifying changes in massive data sets.

This solicitation seeks proposals that will develop data transformation algorithms for Data and Visual Analytics that will be applicable across broad application areas of science, engineering, health, commerce, and homeland security, and will lay the scientific base for visual analytics systems of the future. While testbed data from specific application areas will likely be needed, proposals should focus on fundamental research advances and not specific application domains.

Cactus and Succulent Society of America, Research Grants [90632]
Deadline: 04/01/09
Synopsis: The sponsor provides small facilitation grants in support of research on succulent plants. Typical awards range up to $1,200 to $1,500.

Objectives: Many of the grants funded by the Society are for research that increases the level of knowledge and understanding of the members about succulent plants. General types of research supported by the CSSA include, but are not limited to, studies: to discover new species or forms; of ecological associations; to increase knowledge of taxonomy, nomenclature, and biogeography; relating to all aspects of cultivation, artificial propagation and mass production; relating to conservation of threatened or endangered species; and of basic biology, such as morphology and physiology, especially as these relate to the needs and interests of hobbyists.

Gloeckner (Fred C.) Foundation, Inc. [02734]
Deadline: 04/01/09
Synopsis: The sponsor awards grants for research and educational projects in floriculture and related fields at universities, colleges and Federal research institutions in the U.S.

Objectives: Support is provided for research and educational projects in floriculture and related fields, such as plant pathology, plant breeding, agri-
An Eye on Funding (Continued from page 14)

cultural engineering, agricultural economics, entomology, and plant physiology, as they relate to floriculture and ornamental horticulture.

**Optical Society of America [88629]**

**Deadlines:** 06/01/09

**Synopsis:** The sponsor provides support for programs that advance youth science education, support optics and photonics in developing nations and provide career and professional development resources to students around the world. The sponsor is accepting applications for programs taking place in 2010 or later.

**Objectives:** The sponsor focuses on programs that:
- Advance youth science education by providing young children with access to science educators and learning materials. Special emphasis is given to programs that provide resources to underserved communities. The sponsor will support programs where optics and photonics are the primary or enabling technology.
- Support optics and photonics education in developing nations by providing students and educators with learning and financial resources.
- Provide career and professional development resources to help students from around the world build successful and rewarding careers in optics and photonics.

**NSF, Undergraduate Research and Mentoring in the Biological Sciences [44697]**

**Deadlines:** 09/15/09

**Synopsis:** Funds are provided to increase the number and diversity of individuals pursuing graduate studies in all areas of biological research supported by the sponsor.

**Objectives:** The Undergraduate Research and Mentoring in the Biological Sciences (URM) program will fund projects that provide year-round support for undergraduate students to engage in exciting and contemporary research activities that are potentially publishable. Research can be in any area of biology supported by the NSF Directorate for Biological Sciences or in interdisciplinary areas supported by BIO. Research conducted by URM students should not have medical or veterinary goals and should involve modern biological tools and methods. Students participating in URM projects should experience the excitement of creating new knowledge in the course of conducting research. Projects must include a strong mentoring component and emphasize strategies that encourage and enable members of underrepresented groups to enter, and remain in, graduate programs in biology. URM projects must address building the skills needed for full participation in graduate research.

**NSF, Course, Curriculum, and Laboratory Improvement [82348]**

**Deadlines:** 05/21/09, 05/22/09, 01/13/10

**Synopsis:** The Course, Curriculum, and Laboratory Improvement (CCLI) program seeks to improve the quality of science, technology, engineering, and mathematics (STEM) education for all undergraduate students. It especially welcomes proposals that have the potential to transform undergraduate education in science, technology, engineering, and mathematics (STEM) for all students.

**Objectives:** All proposals must contribute to the development of exemplary undergraduate STEM education. Typically projects include one or more of the components described below and they build on prior knowledge, both in the STEM fields and in undergraduate education. In addition, CCLI welcomes proposals describing untested, forward-looking, and unconventional activities that could have a high impact and contribute to transforming undergraduate STEM education. Prospective principal investigators for this kind of project should discuss their ideas with a CCLI Program Officer in advance of proposal submission to help gauge the appropriate scope and scale of the proposal.

Creating Learning Materials and Strategies: Projects developing new learning materials and strategies for improving courses, curriculum, and laboratories should be guided by research on teaching and learning and should incorporate and be inspired by advances within the disciplines. Instrumentation and equipment requests are appropriate but must be based on their impact on student learning. Early stage projects typically carry the development of materials, and assessment of learning, to the stage where judgments can be made about whether further investment in the new materials or approaches is justified. Later stage projects should yield evaluation results sufficiently conclusive and descriptive so that successful products and processes can be adopted, distributed widely or, when appropriate, commercialized.

Implementing New Instructional Strategies: To ensure their broad based adoption, successful instructional strategies should be widely practiced. Therefore, CCLI welcomes proposals to change undergraduate STEM courses, curricula and laboratories by implementing strategies to reflect proven or promising pedagogical techniques in ways that encourage widespread adoption. These strategies may come from previous CCLI projects or from other sources in the STEM community. Instrumentation and equipment requests are appropriate in implementation projects, based on their impact on student learning, and provided a convincing case is made that the planned acquisition contributes to understanding how to achieve widespread adoption of the approach they support. Implementation projects should contribute to the community’s understanding about how new strategies are transferred to diverse settings and about how they impact student learning. Evaluation plans for implementation projects should explore the challenges and opportunities for adapting new strategies in diverse educational settings. Projects that specifically address the challenges to achieving widespread adoption of proven practice are especially welcome.
Developing Faculty Expertise: Using new learning materials and teaching strategies often requires faculty to acquire new knowledge and skills in order to revise their curricula and teaching practices. Projects focused on developing faculty expertise can range from short-term workshops to sustained activities. They should include evaluation efforts to describe the impact on the faculty participants, and in large, later stage projects, on student learning in classes taught by these faculty. Projects should provide professional development for a diverse group of faculty so that new materials and teaching strategies can be widely implemented. Assessing and Evaluating Student Achievement: Proposals for designing processes and instruments to measure the effectiveness of new materials and instructional methods are responsive to this solicitation. Some projects may develop and disseminate valid and reliable tests of STEM knowledge; other projects may collect, synthesize, and interpret information about student understanding, reasoning, practical skills, interests, attitudes or other valued outcomes. Projects that apply new and existing processes and instruments to conduct broad-based evaluations of educational programs or practices are appropriate if they span multiple institutions and are of general interest. In discussing these aspects of curricular change, projects should carefully document institutional demographics and characteristics. Projects using established instruments and strategies and likely to have only a local impact are discouraged.

Conducting Research on Undergraduate STEM Education: Results from assessments of learning and teaching as well as from projects emphasizing other programmatic components provide a foundation for developing new and revised models of how undergraduate STEM students learn. Research to explore how effective teaching strategies and curricula enhance learning and attitudes, how widespread practices have diffused through the community, and how faculty and programs implement changes in their curriculum are appropriate. Research results should provide a foundation for creating learning materials, teaching strategies, faculty development approaches, and evaluation methodologies that have the potential for a direct impact on STEM educational practices.

**NSF, Fluid Dynamics [93844]**
**Deadline:** 09/15/09

**Synopsis:** The sponsor provides funding to support fundamental research and education on mechanisms and phenomena governing fluid flow.

**Objectives:** Funding is provided to support fundamental research and education on mechanisms and phenomena governing fluid flow. Topics include: hydrodynamic stability; transitional flows and turbulence; Newtonian and non-Newtonian fluid mechanics; sediment transport; waves and coastal engineering; hydraulics; multi-scale, multi-phenomena models and computations; micro- and nano-scale flow phenomena; and biofluid mechanics. Proposed research should contribute to basic understanding, thus enabling the better design, predictability, efficiency, and control of systems that involve fluids. Proposals addressing innovative uses of fluids in materials development, manufacturing, biotechnology, nanotechnology, clinical diagnostics and drug delivery, sensors development and integration, energy and the environment, are encouraged.

**SOCIAL / BEHAVIORAL**

**American Sociological Association, Fund for the Advancement of the Discipline [02419]**
**Deadline:** 06/15/09

**Synopsis:** The sponsor provides support to nurture the development of scientific knowledge by funding small, groundbreaking research initiatives and other important scientific research activities in sociology. The awards are limited to individuals with PhD degrees or the equivalent.

**Objectives:** The awards provide scholars with small grants for innovative research that has the potential for challenging the discipline, stimulating new lines of research, and creating new networks of scientific collaboration. The award is intended to provide opportunities for substantive and methodological breakthroughs, broaden the dissemination of scientific knowledge, and provide leverage for acquisition of additional research funds.

**Whitehall Foundation, Inc., Research Grants [01018]**
**Deadline:** 04/15/09, 10/01/09

**Synopsis:** The sponsor will provide awards ranging from $30,000 to $75,000 annually for scholarly research in the life sciences. The sponsor emphasizes the support of young scientists at the beginning of their careers and productive senior scientists who wish to move into new fields of interest. Consideration is given, however, to applicants of all ages.

**Objectives:** It is the sponsor’s policy to assist those dynamic areas of basic biological research that are not heavily supported by Federal agencies or other foundations with specialized missions. The sponsor is currently interested in basic research in neurobiology, defined as follows: invertebrate and vertebrate (excluding clinical) neurobiology, specifically investigations of neural mechanisms involved in sensory, motor, and other complex functions of the whole organism as these relate to behavior. The overall goal should be to better understand behavioral output or brain mechanisms of behavior.
modified air. These facilities will allow SUNY Oswego faculty and students to engage in a nearly continuous, low-cost field project around Lake Ontario and enable researchers at Oswego and other institutions to compare model output with observations near Oswego. Students participating in research projects as well as meteorology majors enrolled in our required experimentation lab will benefit by learning how to operate modern meteorological observing systems and perform quality control of the data.

**Intellectual merit:**

Lake-effect snow bands form as the result of complex interactions between processes ranging from the cloud scale to the synoptic scale. Numerical models have provided some insight into the structure and evolution of these snow bands, but direct observations have been greatly limited. With the observing systems requested, we expect to identify where mesoscale models succeed or fail to represent important details of the thermodynamic structure and circulation patterns in and around these bands. This will help modelers evaluate the many boundary layer and microphysics schemes available, and identify those which best reproduce the observed structure and evolution of lake-effect snow bands. Improvement in model physics should result in more accurate simulations of snow band location, inland extent and precipitation rate. We hypothesize that the upper-air soundings at Oswego during lake-effect conditions will result in more accurate snow band simulations. To test this hypothesis, sensitivity experiments using mesoscale models will be conducted to determine the impact of assimilating the Oswego data. With the new facilities at SUNY Oswego, we expect to sample close to the core of at least 50 snow bands over the next decade. In late spring or summer, the radiosonde equipment will be used to obtain proximity soundings near Great Plains thunderstorms as part of our Storm Observation and Forecasting course. At other times during the year, our lakeside location will allow us to sample the atmospheric environment around other interesting phenomena such as waterspouts, thunderstorms, frontal passages, lake and land breezes, and nocturnal low-level jets. Some of these phenomena can influence transport and dispersion in the vicinity of the nearby nuclear power plants on the shore of Lake Ontario. Our findings for Lake Ontario will likely extend to other large bodies of water.

Drs. Alfred Stamm and Scott Steiger have multiple experiences launching weather balloons, and previous studies have shown the feasibility of collecting upper-air data in lake-effect snow conditions (Byrd et al. 1991, Reinking et al. 1993, Kristovich et al. 2000). Dr. Robert Ballentine has modeled lake-effect storms since the 1980’s, and more recently Dr. Steven Skubis has used mesoscale models to study snow band structure.

**Broader impacts:**

Since the facilities at SUNY Oswego are outdated and limited, acquisition of the proposed equipment will strengthen our ability to conduct research on weather phenomena around Lake Ontario and improve our teaching about these phenomena. The increased understanding of these important mesoscale weather phenomena should result in improved forecasting of hazardous weather conditions. Data and results will be shared with interested scientists. We plan to collaborate with researchers from other institutions who wish to use the Oswego facilities for short-term, low-cost field studies near Lake Ontario. The SUNY Oswego meteorology program has involved undergraduates in research since its inception. Interesting phenomena, especially lake-effect snowstorms and Great Plains thunderstorms, excite and attract students including those from diverse backgrounds. Many students engage in independent study projects and are eager to participate in internally and externally-funded grants. The equipment we are requesting will increase our ability to obtain external funding and provide more research opportunities for these students.
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.

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

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