SPIN (Sponsored Program Information Network) currently contains information from more than 6,200 different sponsoring agencies, which together fund over 25,000 separate funding opportunities. All of the information on SPIN is obtained directly from the sponsoring agencies to ensure the integrity of the information. Each funding opportunity is updated on SPIN as the sponsoring agency comes out with updated or revised information, which is typically on an annual basis. The SPIN database is provided through annual subscription to over 500 colleges, universities, and industry clients worldwide. It is a computer database with detailed and up-to-the-minute information about thousands of federal, non-federal, and international funding opportunities.

SPIN supplies all of the information necessary to make an informed decision whether or not to pursue a funding opportunity. Programs are summarized in helpful abstracts and links are provided to the detail. The flexible search engine allows users to customize their queries and design their own reports on programs in ways that are meaningful to them.

SPIN supplies all of the information necessary to make an informed decision whether or not to pursue a funding opportunity. Programs are summarized in helpful abstracts and links are provided to the detail. The flexible search engine allows users to customize their queries and design their own reports on programs in ways that are meaningful to them.

SPIN provides one click access to new funding opportunities based on predefined queries. In addition, Quick Searches enable spontaneous freetext queries against the SPIN database.

The Advanced Search function allows users to intricately refine their queries to ensure a high degree of program relevance. The Advanced Search page supports Boolean logic and enables users to specify the database fields to be queried.

Users can save an unlimited number of queries and run them on-demand. In addition, users can automate their queries and set them to run at a preset frequency - daily, weekly, monthly. Saved queries can be edited at any time.

Search results can be browsed on the web, printed, and saved to hard drives. Individual programs can be deleted from search results and the remaining items can be reformatted for reports. SPIN includes an opportunities report layout tool that allows users to customize their reports to show only the fields they are interested in and display them in any specific order.

SPIN can be accessed from the ORSP web site under ‘Searching for Funding’. Contact Linda Cook if you would like help using the program yourself.
This program is to support and foster graduate and undergraduate student scholarly and creative activities done in collaboration with a SUNY Oswego faculty or staff sponsor.

**FUNDS:** The maximum award will be $1,000. Funds may be used for expenses directly related to the proposed scholarly and creative activity (supplies, books, software, equipment, postage, etc.).

**FACULTY SPONSORSHIP:** Immediately secure a faculty sponsor, and provide that person with the faculty sponsor form. Students must secure a faculty or staff sponsor who will assist in designing and carrying out an appropriate project. The signed faculty sponsor form should be sent to Linda Cook, Room #4, Penfield Library by the deadline.

Any proposal that also meets the criteria for the Helen Bohmer Daly Memorial Research Grant will also be considered under these criteria.

For complete guidelines visit our web site at: http://www.oswego.edu/administration/ORSP/ (look under “Campus Grants and Awards”)

---

**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>November 5, 2007</td>
</tr>
<tr>
<td>FACULTY—President’s Award for Scholarly &amp; Creativity and Research</td>
<td>January 31, 2008</td>
</tr>
<tr>
<td>FACULTY—Provost’s Award for Scholarly &amp; Creativity and Research</td>
<td>January 31, 2008</td>
</tr>
<tr>
<td>FACULTY &amp; STUDENTS—Student/Faculty Collaborative Challenge Grants</td>
<td>February 4, 2008</td>
</tr>
</tbody>
</table>
Human Subject’s and Research

This month I am going to briefly introduce the topic of doing research with human subjects. This type of research is performed by many faculty members on campus for a variety of reasons. For example, psychologists may assess the role of various factors in perception or social interactions. Researchers in the School of Education may want to understand what factors are important in the effectiveness of various instructional techniques. These departments have methods courses and seminars to inform their members on how to proceed with their research. I am writing this principally for the others who may be interested in human subject research but do not have any knowledge of how it is done. I will review a few points about human subject research here this month and, if you are interested, there will be a workshop on Getting Started in Human Subjects Research on Friday, October 26, in Penfield 123. Professors Andrew Smiler and Jacqueline Reihman from the Psychology Department will discuss the approval process for human subjects research and also give you some pointers on designing questionnaires and other survey techniques.

Federal guidelines have been developed for experiments on human subjects. These same rules and procedures apply to medical, psychological and social science investigations. They are mostly concerned with ethical issues about fairness and risk. Legally these rules only apply to federally funded research, but they have become the standard for designing experimental protocols, subject recruiting methods, and publication practices. Each institution performing research with human subjects must have a Human Subjects Committee that approves proposed experiments. The committee must assure that the risks to the subject are minimized. These risks could be bodily or emotional harm to the subject and must be reasonable in relation to the possible benefits to humanity. Subjects must be selected in an equitable fashion and must consent to the research in an informed manner. Finally the data gathered must be processed in a way that preserves the confidentiality of the subject.

Our Human Subjects Committee is co-chaired by Kristen Link in the Psychology Department and Barry Friedman the Department of Marketing and Management. You may find a complete description of the procedures for making a request to the committee at http://www.oswego.edu/administration/ORSP/research_committee/human_subjects/index.html

A Word From the Director

Upcoming Workshops

| Title: Creating and Understanding Budgets |
| Date: Friday, October 5, 2007 |
| Time: 3:00 P.M. |
| Location: Penfield Library, Room 123 |

| Title: White Papers and Elevator Talks |
| Date: Friday, November 16, 2007 |
| Time: 3:00 P.M. |
| Location: Penfield Library, Room 123 |

| Title: Getting Started in Human Subject Research |
| Date: Friday, October 26, 2007 |
| Time: 3:00 P.M. |
| Location: Penfield Library, Room 123 |
Michael Milligan and James Pagano submitted a collaborative grant for Major Research Instrumentation to the National Science Foundation.

This work augments a cross-campus collaboration at two primarily undergraduate institutions, the State University of New York at Fredonia (PI, Michael S. Milligan, Department of Chemistry and Biochemistry) and SUNY at Oswego (Co-PI, James J. Pagano, Department of Chemistry and the Environmental Research Center). Through the acquisition of three gas chromatographs: one with updated and modernized mass selective detection (including electron impact, positive ion chemical ionization, and negative ion chemical ionization sources) and two with electron capture detection capabilities, the PI and Co-PI will further enhance their expertise in the analysis of new and emerging chemical compounds of concern, endocrine system disrupting compounds such as chlorinated dioxins/furans (PCDD/Fs) and co-planar polychlorinated biphenyls (PCBs), and legacy pollutants such as PCBs, polybrominated diphenyl ethers (PBDEs), and organochlorine pesticides found in atmospheric samples, Great Lakes fish, and other environmental media.

The intellectual merit of this project involves the development, advancement, and refinement of trace analytical techniques used for the detection and quantification of organic contaminants. These types of analytical challenges often demand sub-picogram and sub-part per billion (ppb) detection limits, and require sophisticated instrumentation for success.

The broader impacts of this project will serve to promote fundamental research and discovery, cross-campus collaborations, improvement of laboratory technology, education of university students, and training of aspiring scientists. Undergraduate and master’s level research students will gain valuable field, laboratory, analytical, and interpretive experience while working under the supervision of the PI and Co-PI, leading to post-graduate positions in industry, governmental laboratories, and graduate school. These students will be exposed to state-of-the-art analytical techniques required for trace analytical procedures, and they will take the skills and lessons learned from these experiences with them as they advance in their careers. Students will be co-authors of journal articles derived from this work, will aid in manuscript preparation, and present at scientific conferences. Improved laboratory facilities for the PI and Co-PI will attract many prospective students for the future years, and allow these laboratories to remain competitive in pursuits for extramural funding.
ARTS

Frances Blakemore Asian Art Grants [53569]
Deadline: 11/01/07
Scope: Support is provided to tax-exempt organizations in the U.S., such as museums, universities and other educational or art-related institutions, for programs or activities to improve the understanding of Asian fine arts in the U.S. 
Objectives: The program is designed for institutions which have programs, exhibits or publications dealing with the fine arts of Asia. Asia is limited to the countries of China, Japan, Korea, Burma, Cambodia, Indonesia, Laos, Thailand, Malaysia, Vietnam, Philippines, Mongolia and Tibet. Fine arts refer to paintings, graphic arts, ceramics, sculpture and textiles.

Weill (Kurt) Foundation for Music, College/University Performance and Production Grants [67348]
Deadline: 11/01/07
Scope: The sponsor will make two types of grants: stage works and concert works.
Funding: For stage works grants, the sponsor will award up to ten grants, of a maximum $5,000 each, to colleges and universities in support of general production expenses for performances of Kurt Weill's stage works. For concert works, assistance is available in grants of up to $3,000 to cover expenses including, but not limited to increased rehearsal time, guest artist fees and promotion.
Objectives: The sponsor offers grants for stage works and concert works. Stage Works--the sponsor supports general production expenses for performances of Kurt Weill's stage works (including "The Threepenny Opera"). All works must be presented in fully staged versions using Weill's original orchestrations.
Concert works--assistance for performances of concert works is available to cover expenses including, but not limited to increased rehearsal time, guest artist fees and promotion.

Weill (Kurt) Foundation for Music, Symposia Grants [67343]
Deadline: 11/01/07
Scope: Performing and educational organizations may apply for support of direct expenses, including speakers' honoraria and travel expenses.

COMMUNITY

TD Banknorth Charitable Foundation [93327]
Deadline: 10/31/07, 01/31/08, 04/30/08
Scope: Community Support--this includes the support of programs and organizations which have proven records of arts and cultural enrichment programs, the development and expansion of programs which foster civic enhancement and address issues related to cultural diversity, and a commitment to programs that promote improvements to community health and human services efforts.

Staples Foundation for Learning [70111]
Deadline: 12/07/07
Scope: The sponsor funds non-profit, tax-exempt organizations for programs that support or provide job skills and/or education for all people, with a special emphasis on disadvantaged youth.
Funding: The requested amount of each grant can be up to $25,000. Most grants awarded by the sponsor are in the $5,000-$25,000 range.

EDUCATION

Sun Microsystems, Inc., Academic Excellence Grant Program [61268]
Deadline: 11/05/07, 02/04/08, 05/05/08
Scope: The sponsor grants equipment to eligible organizations who have developed creative projects that address the sponsor's investment priorities and create partnerships for success. The primary investment priorities are higher education and kindergarten through twelve education.
Funding: Grants are in the form of hardware donations only.
Objectives: The sponsor grants equipment to eligible organizations who have developed creative projects that address the sponsor's investment priorities and create partnerships for success. Grants are awarded under the following priorities:
Higher Education: including the teaching of SUN technologies, web-based learning, scientific and engineering computing, and business collaborations.
Primary and Secondary (K-12) Education: including primary and secondary education and university outreach.

DHHS, Head Start University Partnership Research Grants: Strategies for Developing Head Start Teacher Effectiveness [94216]
Deadline: 11/20/07 for letter of intent, 12/19/07 for proposal
Scope: The sponsor provides funding for research activities to identify and assess effective strategies/interventions that develop and sustain the Head Start teacher behaviors likely to improve child outcomes.
Funding: Approximately $1.5 million is available to fund one to ten awards. Awards shall not exceed $150,000 for the first twelve-month budget period, inclusive of indirect costs, and shall not exceed $250,000 per year for the second through third twelve-month budget periods.
Objectives: The purpose of the program is to report the availability of funds to support research grant projects to identify and assess strategies/interventions that develop and sustain the Head Start teacher behaviors likely to improve outcomes in children three to five years of age. Grantees will be required to establish researcher/program partnerships with Head Start programs.
An Eye on Funding (Continued from page 5)

HEALTH & WELLNESS

General Electric Healthcare [69908]
Deadline: 69908
Scope: The sponsor provides funding to registered, non-profit, tax-exempt organizations focused on youth education and/or promoting healthy lives.
Funding: Grants are made in three levels:
Funding up to $5,000: the funding request focuses on a local community; the program reaches twenty or more clients in providing its services; and the program provides possible opportunities to engage local GE employees in volunteerism.
Funding between $5,000-$25,000: the program engages the community and, if appropriate, a GE Healthcare facility in an integrated and meaningful way on a metropolitan wide or regional basis; and the program delivers services, disseminates information, provides training/outreach and/or builds networks broadly in a major metropolitan area or region.
Funding between $25,000-$50,000: the funding request focuses on a national/global community issue.
Objectives: Areas of Impact include:
Youth Education Program Areas: underserved communities with low graduation rates; focus on youth from birth – 18; support core competencies (such as math, science, reading, writing); arts in education—programs must focus on developing student’s life skills and/or support core competencies to increase testing scores and graduation rates; and early childhood development programs that integrate learning and life skills into everyday learning.
Healthy Lives Program Areas: childhood obesity; cardiac care (such as heart disease, etc.); oncology (such as general and specific cancers); neurology (such as Stroke, Parkinson’s disease, Alzheimer’s Disease, etc.); women’s healthcare; diabetes; and other health related issues that address a need for increased awareness and/or community outreach.
Diversity and Service Programs: programs that impact minority populations; and programs that address local community issues (such as poverty, homelessness, the disadvantaged, food programs, training).

HUMANITIES

Delmas (Gladys Krieble) Foundation, Humanities Program [19023]
Deadline: Open
Scope: The sponsor intends to further the humanities along a broad front, supporting projects which address the concerns of the historical studia humanitatis: a humanistic education rooted in the great traditions of the past; the formation of human beings according to cultural, moral, and aesthetic ideals derived from that past; and the ongoing debate over how these ideals may best be conceived and realized.
Objectives: Programs in the following areas are eligible: history; archaeology; literature; languages, both classical and modern; philosophy, ethics; comparative religion; the history, criticism, and theory of the arts; and those aspects of the social sciences which share the content and methods of humanistic disciplines. The Foundation welcomes projects which address the content and methods of humanistic disciplines. The Foundation welcomes projects which address the content and methods of humanistic disciplines. The Foundation welcomes projects which address the content and methods of humanistic disciplines. The Foundation welcomes projects which address the content and methods of humanistic disciplines. The Foundation welcomes projects which address the content and methods of humanistic disciplines. The Foundation welcomes projects which address the content and methods of humanistic disciplines.

Objectives:

Scope: The sponsor intends to further the humanities along a broad front, supporting projects which address the concerns of the historical studia humanitatis: a humanistic education rooted in the great traditions of the past; the formation of human beings according to cultural, moral, and aesthetic ideals derived from that past; and the ongoing debate over how these ideals may best be conceived and realized.
Objectives: Programs in the following areas are eligible: history; archaeology; literature; languages, both classical and modern; philosophy, ethics; comparative religion; the history, criticism, and theory of the arts; and those aspects of the social sciences which share the content and methods of humanistic disciplines. The Foundation welcomes projects which address the content and methods of humanistic disciplines. The Foundation welcomes projects which address the content and methods of humanistic disciplines. The Foundation welcomes projects which address the content and methods of humanistic disciplines. The Foundation welcomes projects which address the content and methods of humanistic disciplines. The Foundation welcomes projects which address the content and methods of humanistic disciplines. The Foundation welcomes projects which address the content and methods of humanistic disciplines. The Foundation welcomes projects which address the content and methods of humanistic disciplines. The Foundation welcomes projects which address the content and methods of humanistic disciplines. The Foundation welcomes projects which address the content and methods of humanistic disciplines. The Foundation welcomes projects which address the content and methods of humanistic disciplines.

NSF, Political Science [61372]
Deadline: 01/15/08
Scope: Support is provided to universities and colleges, nonprofit, non-academic organizations, for-profit organizations, state and local government, and unaffiliated individuals for research in political science.
Objectives: The sponsor supports scientific research that advances knowledge and understanding of citizenship, government, and politics. Research proposals are expected to be theoretically motivated, conceptually precise, methodologically rigorous, and empirically oriented. Substantive areas include, but are not limited to, American government and politics, comparative government and politics, international relations, political behavior, political economy, and political institutions.
In recent years, program awards have supported research projects on bargaining processes; campaigns and elections, electoral choice, and electoral systems; citizen support in emerging and established democracies; democratization, political change, and regime transitions; domestic and international conflict; international political economy; party activism; political psychology and political tolerance. The program also has supported research experiences for undergraduate students and infrastructural activities, including methodological innovations, in the discipline.

New York Council for the Humanities, Major Grants [02050]
Deadline: 11/01/07
Scope: The sponsor provides support of at least $2,500 to New York nonprofit, tax-exempt organizations for humanities projects.
Funding: Major Grants are for project requests of $2,500 or more. While there is no upper limit on the amount that can be requested, grants awarded rarely exceed $10,000. Appropriate project formats include: lectures; conferences, symposia, and panel discussions intended for the general public; planning or implementation of exhibitions; film screenings combined with interpretive discussion; exhibition brochures; exhibition catalogues with significant humanities scholarship; museum docent scripts or talking points.
An Eye on Funding (Continued from page 6)

developed through scholarly consultation; readings combined with interpretive discussion; walking tours; radio programs; and internet presentations such as online exhibitions and open dialogues moderated by humanities scholars.

**Objectives:** This program is designed to provide financial support for humanities programming, conceived and implemented by not-for-profit organizations across New York State, that brings humanities scholars and scholarship to a general public audience. Special consideration is given to projects that reach underserved populations; to projects that, without our funding, might not happen; and to organizations that need financial seed money so that they may secure long-term support from other sources.

As branches of learning, the humanities include history, literature, philosophy, ethics, jurisprudence, linguistics, comparative religion, and the history, theory, and criticism of the arts. Social sciences that employ qualitative approaches such as cultural anthropology, archaeology, political science, and interdisciplin ary areas such as folklore, women’s studies, and American studies also are considered humanities disciplines.

**Wenner-Gren Foundation, International Collaborative Research Grants [18004]**

**Deadline:** 12/01/07

**Scope:** Awards of up to $30,000 each are available to assist anthropological research projects undertaken jointly by two or more investigators from different countries.

**Funding:** Grants cover research expenses such as: travel, living expenses during fieldwork, childcare costs research assistance, expenses of communication between the researchers, and other relevant expenditures. If a training element is also included in the application, the maximum amount of the requested funds can be increased to $35,000. Of this amount, a maximum of $10,000 can be used towards technical and methodological training of academic project personnel (co-applicant/s, students, and other professional colleagues). The training can be of any type that will build the skill and knowledge base of the collaborating personnel.

**Objectives:** The sponsor supports anthropological research projects undertaken jointly by two or more investigators from different countries, where the principal investigators bring different and complementary perspectives, knowledge, and/or skills to the project. By encouraging international collaborations, the grant contributes to the development of an international anthropology that values and incorporates different national perspectives and resources.

**INTERDISCIPLINARY**

**Foundation for Managed Derivatives Research [94367]**

**Deadline:** Open

**Scope:** The sponsor provides grants for economic, business and financial research on the use of derivatives as an essential investment management tool.

**Funding:** Typical grants under this program will range from $5,000 to $25,000. FMDR’s Board of Directors will determine funding priorities each year. Funded activities should be completed within 12 months.

**Objectives:** The sponsor has approved grants for programs in areas related to managed derivatives. Managed derivatives research is the field of economic, business and financial research that examines on a scholarly basis the use of derivative instruments as an investment vehicle. Derivative instruments may include, but would not be limited to, futures contracts, options and futures contracts, forward contracts and swaps. The growth of these markets has led to increasing involvement by institutions and individuals for investment purposes. As a result, there is demand for academic research considering advantages and disadvantages of including managed derivatives in investors’ portfolios. We are particularly interested in funding activities and projects that enrich the body of knowledge in the field of managed futures and that will have far-reaching application or impact on managed futures.

The sponsor is particularly interested in funding research that will enrich the body of knowledge in the field of managed derivatives and which will have far-reaching application or impact on managed futures. Key areas of interest include:

1) The role of hedge funds, funds-of-funds, commodity trading advisors, managed futures funds, commodity pools, managers of portfolios within the overall investment mix: return/risk characteristics; correlation with other asset classes; efficient, etc.
2) The source of returns from managed futures/derivatives: inherent returns; risk premia; business cycle; inflation or other economic factors.
3) Performance persistence for hedge funds or managed futures advisors; criteria for selection of funds or advisors based on past performance.
4) Portfolio issues: fully diversified vs. sector specific managed derivatives portfolios; multi-manager funds vs. single advisor funds; discretionary vs. systematic trading; the impact of size on performance.

The sponsor is generally not seeking proposals that examine specific aspects of trading in the derivatives markets, e.g., price distributional assumptions of futures markets; options trading strategies; volatility measurement of options; hedging strategies. While these topics may be of interest to some individual practitioners in the managed futures industry they are not of general interest to the industry as a whole.

**PEN American Center, Translation Fund Grants [94489]**

**Deadline:** 01/14/08

**Scope:** The sponsor provides support to promote the publication and reception of translated world literature in English.

**Funding:** The sponsor Awards provides grants between $2,000 and
Eye on Funding (Continued from page 7)

$10,000. The Fund has given grants of $2,000-$3,000 to a total of 32 translations from 22 languages.

Objectives: The PEN Translation Fund provides grants to support the translation of book-length works of fiction, creative nonfiction, poetry, or drama that have not previously appeared in English or have appeared only in an egregiously flawed translation. The Fund seeks to encourage translators to undertake projects they might not otherwise have had the means to attempt.

Rockefeller Brothers Fund, Inc., Democratic Practice Program [03587]
Deadline: Open, send letter of intent anytime
Scope: The Fund's Democratic Practice program will focus on four goals, two of which will be pursued largely within the United States, and two of which will focus primarily on transnational institutions. A prospective grantee in the United States must be either a tax-exempt organization or an organization seeking support for a project that would qualify as educational or charitable. A prospective foreign grantee must satisfy an RBF determination that it would qualify, if incorporated in the United States, as a tax-exempt organization or that a project for which support is sought would qualify in the United States as educational or charitable.
Funding: The average grant size is $75,000 often payable over more than one year but typically not more than three.
Objectives: Areas of interest are: ENCOURAGING CIVIC ENGAGEMENT—in the United States, the Fund seeks to empower individuals and encourage nonprofit and other civil society organizations, including philanthropy, to advance constructive social change through participation in democratic decision making and social movements.

FOSTERING EFFECTIVE GOVERNANCE—to foster effective governance—the use of governing authority to promote the will of the governed in a fair, accountable, responsive, and efficient manner—the sponsor works to strengthen the practices and institutions of democratic governance, including a free, principled, and vigorous press, through the following strategies.

INCREASING ACCESS TO, AND PARTICIPATION IN GLOBAL GOVERNANCE—globally, the Fund aims to expand participation and effective representation in the political and policy-making processes of transnational institutions.

ENSURING TRANSPARENCY AND ACCOUNTABILITY—globally, the RBF seeks to increase transparency and accountability in transnational decision-making processes of global governance that affects the quality of people's lives and the integrity of the natural environment.

Goldman Sachs Foundation, Promoting Entrepreneurship and Business Education
Deadline: Open
Scope: The Foundation's mission is to promote innovation and excellence in education worldwide. Funding priorities are determined by a periodic assessment of needs and opportunities in the field of education. Current priorities are to enhance academic performance and prospects for life achievement of students at the secondary school level, to develop the abilities of promising high potential youth worldwide, and to support high quality education for young people in business and entrepreneurship.

The Foundation is able to respond favorably to an extremely small fraction of the requests that it receives. Rarely will a grant be made in response to an unsolicited proposal. Therefore, prospective applicants are invited to explain their ideas informally by submitting the Foundation a short letter (of about two pages) describing the program or organization for which a grant is sought, its mission, accomplishments, budget size, and current funding needs.

Objectives: The Foundation supports programs that provide high-quality instruction in the related subjects of entrepreneurship, business, financial literacy, economics, and leadership to equip young people with the skills to lead productive lives. The program also funds efforts to prepare and support a new generation of innovators whose organizations address pressing social problems.

Keck (W. M.) Foundation, Science and Engineering, Medical Research, and Liberal Arts [01692]
Deadline: 11/01/07, 05/01/08
Scope: Grants are provided for studies and programs in the areas of science, engineering and medical research.
Funding: Requests for more than $5.0 million will be designated as a Special Project and considered separately from other inquiries. The review period for Special Projects does not necessarily conform to the established grant cycle.

Objectives: The sponsor makes grants designed to provide far-reaching benefits for humanity in the fields of science, engineering, and medical research. The sponsor is particularly interested in significant programs and projects that: focus on emerging areas of research at the forefront of science, engineering and medicine, or have the potential to lead to breakthrough technologies in these areas; or establish new directions and utilize creative approaches in education and research for the liberal arts and sciences at predominantly undergraduate institutions.

Staples Foundation for Learning [70111]
Deadline: 12/07/07
Scope: The sponsor funds non-profit, tax-exempt organizations for programs that support or provide job skills and/or education for all people, with a special emphasis on disadvantaged youth.

Funding: The requested amount of each grant can be up to $25,000. Most grants awarded by the sponsor are in the $5,000-$25,000 range.

NSF, Economics [70160]
Deadline: 01/18/08
An Eye on Funding (Continued from page 8)

Scope: The sponsor supports research designed to improve the understanding of the processes and institutions of the US economy and of the world system of which it is a part.

Objectives: This program strengthens both empirical and theoretical economic analysis as well as the methods for rigorous research on economic behavior. It supports research in almost every area of economics, including econometrics, economic history, environmental economics, finance, industrial organization, international economics, labor economics, macroeconomics, mathematical economics, and public finance.

The sponsor welcomes proposals for individual or multi-investigator research projects, doctoral dissertation improvement awards, conferences, workshops, symposia, experimental research, data collection and dissemination, computer equipment and other instrumentation, and research experience for undergraduates. The program places a high priority on interdisciplinary research. The program also funds conferences and interdisciplinary research that strengthens links among economics and the other social and behavioral sciences as well as mathematics and statistics.

NSF, Scientific Computing Research Environments for the Mathematical Sciences [58868]
Deadline: 01/24/08
Scope: Support is provided to U.S. educational institutions with ongoing research programs in mathematics, applied mathematics, or statistics for the support of computing environments for research in the mathematical sciences.
Funding: Estimated program budget, number of awards, and average award size duration are subject to the availability of funds. The net costs (after discounts) of the equipment portion should be at least $50,000. Requests to the program may be as high as $200,000 provided a case is made for substantial impact and cost-effectiveness.

Objectives: The sponsor plans a limited number of awards for the support of computing environments for research in the mathematical sciences. SCREMS proposals are for computing environments dedicated to research in the mathematical sciences. Proposals may request support for purchase of computing equipment, and limited support for professional systems administrators or programmer personnel for research computing needs. These grants are intended to support research projects of high quality that require access to advanced computing resources. Requests for routine upgrades of standard desk-environment workstations or laptop computers are not appropriate for this program. Awards are made to provide support for specific research projects rather than to provide general computing capacity. Proposers are encouraged to include projects involving symbolic and algebraic computations and graphical representations (visualization) in aid of the research.

America Honda Fd. [09372]
Deadline: 11/01/07, 02/01/08, 05/01/08
Scope: The sponsor provides grant support for projects in the areas of youth and scientific education.
Funding: 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.

Jackson (Henry M.) Foundation [59173]
Deadline: 12/1/07
Scope: The sponsor provides grants which are intended as support and seed funding for new initiatives that offer promising models for replication and address critical issues in international affairs; human rights; public service; and environment and natural resources management.
Objectives: The sponsor focuses its grantmaking in the following four areas: international affairs education; public service; environment and natural resource management; and human rights.

DOEd, Grants to Support Education Research -- National Center for Special Education Research (NCSER) [87354]
Deadline: 11/01/07
Scope: A central purpose of the sponsor is to provide parents, educators, students, researchers, policymakers, and the general public with reliable and valid information about education practices that support learning and improve academic achievement and access to education opportunities for all students.
In carrying out its mission, the sponsor provides support for programs of research in areas of demonstrated national need.
Funding: The sponsor estimates the range of awards to be $200,000 to $2,000,000 for a project period of up to five years.
Objectives: The National Center for Special Education Research (NCSER) will hold four competitions: two competitions for special education research; one competition for special education research training; and one competition for special education research and development centers.
Under the first special education research competition, NCSER will consider only applications that address one of the following special education research topics: Early Intervention, Early Childhood Special Education, and Assessment for Young Children with Disabilities; Mathematics and Science Special Education; Reading, Writing, and Language Development; Serious Behavior Disorders; Individualized
An Eye on Funding (Continued from page 9)

Education Programs and Individualized Family Service Plans.
Under the second special education research competition, NCSER will consider only applications that address one of the following special education research topics: Secondary and Transition Services; Autism Spectrum Disorders; Response to Intervention; and Related Services.
Under the special education research training competition, NCSER will consider only applications for Postdoctoral Research Training.
Under the special education research and development centers competition, NCSER will consider only applications that address one of the following special education research topics: Serious Behavior Disorders at the Secondary Level; Response to Intervention in Early Childhood Special Education.

**NSF, Office of Special Programs [93920]**
**Deadline:** 11/02/07
**Scope:** The sponsor provides funding to coordinate and support crosscutting activities in DMR and in conjunction with NSF-wide programs, including enhanced international collaborations in materials research and education.
**Objectives:** Funding is provided to coordinate and support crosscutting activities in DMR and in conjunction with NSF-wide programs, including enhanced international collaborations in materials research and education. OSP activities are often co-funded with other NSF units, such as the Office of International Science and Engineering and the MPS Office for Multidisciplinary Activities. Examples of OSP activities include:
- International Materials Institutes (IMI): The IMIs advance fundamental materials research by coordinating international research and education projects. Their long-term goal is the creation of a worldwide network in materials research and the development of a generation of scientists and engineers with international leadership capabilities. Opportunities for International Coop-
- National Science Foundation [17714]
**Deadline:** Open
**Scope:** Support is provided for projects devoted to the conservation of nature and the amelioration of human distress. The sponsor focuses on projects in developing countries and the United States.
**Objectives:** The sponsor seeks to redress the breakdown in the processes linking nature and humanity. It concerns itself particularly with matters of species extinction, habitat destruction and fragmentation, resource depletion and resource waste. It favors solutions which directly benefit local communities and serve as exemplars for saving species and wildlands. It recognizes the imperative to reconcile nature preservation with human needs and aspirations. The sponsor devotes a substantial portion of its funding to developing countries. It therefore recognizes the destructive connection between poverty, over-population, high infant mortality, cultural traditions that dehumanize women, inequitable land distribution and the subsequent degradation of the land and the systems the land supports. The sponsor is also actively involved in conservation in the United States, particularly Montana and those Western states historically dependent upon extractive industries and agriculture. It encourages local initiatives addressing the problems of diminishing natural resources, technological change and job loss. It emphasizes conservation through cooperation, persuasion and the development of sustainable economic alternatives to resource depletion.

**SCIENCEs**

**Sun Microsystems, Inc., Academic Excellence Grant Program [61268]**
**Deadline:** 11/05/07, 02/04/08, 05/05/08
**Scope:** The sponsor grants equipment to eligible organizations who have developed creative projects that address the sponsor's investment priorities and create partnerships for success. The primary investment priorities are higher education and kindergarten through twelve education.
**Funding:** Grants are in the form of hardware donations only.
**Objectives:** The sponsor grants equipment to eligible organizations who have developed creative projects that address the sponsor's investment priorities and create partnerships for success. Grants are awarded under the following priorities:
- Higher Education: including the teaching of SUN technologies, web-based learning, scientific and engineering computing, and business collaborations.
- Primary and Secondary (K-12) Education: including primary and secondary education and university outreach.

**Claiiborne (Liz) and Art Ortenberg Foundation [17714]**
**Deadline:** Open
**Scope:** Support is provided for projects devoted to the conservation of nature and the amelioration of human distress. The sponsor focuses on projects in developing countries and the United States.
**Objectives:** The sponsor seeks to redress the breakdown in the processes linking nature and humanity. It concerns itself particularly with matters of species extinction, habitat destruction and fragmentation, resource depletion and resource waste. It favors solutions which directly benefit local communities and serve as exemplars for saving species and wildlands. It recognizes the imperative to reconcile nature preservation with human needs and aspirations. The sponsor devotes a substantial portion of its funding to developing countries. It therefore recognizes the destructive connection between poverty, over-population, high infant mortality, cultural traditions that dehumanize women, inequitable land distribution and the subsequent degradation of the land and the systems the land supports. The sponsor is also actively involved in conservation in the United States, particularly Montana and those Western states historically dependent upon extractive industries and agriculture. It encourages local initiatives addressing the problems of diminishing natural resources, technological change and job loss. It emphasizes conservation through cooperation, persuasion and the development of sustainable economic alternatives to resource depletion.

**NSF, Chemistry Research Instrumentation and Facilities: Instrument Development (CRIF:ID) [77819]**
**Deadline:** 01/22/08
**Scope:** The sponsor provides funds for the design and construction of instruments that will enable new chemical measurements or will significantly broaden the use of chemical instrumentation. It is anticipated that $1 million will be available to fund five to six awards with durations of up to three years.
**Objectives:** The sponsor encourages proposals for the design and construction of instruments of importance to the chemistry community. Specifically, the program supports the development of two categories of instrumentation: (a) innovative, state-of-the-art instrumentation that permits new kinds of measurements; and (b) new versions of instrumentation that substantially broaden
access to measurement capabilities. Examples of instrument development in the first category might include ultrafast diffraction or spectroscopic measurements. In the second category the instrumentation might advance capabilities in real-time reaction monitoring, use of cyberinfrastructure, or chemistry education, as through the development of miniaturized and/or networked spectrometers. In all cases, the major effort must focus on instrument development; simply combining off-the-shelf instrumentation does not constitute a significant development project. Although the focus should be on development or construction, research projects that utilize the finished product may be described in the final year of the proposal as a means of demonstrating wide potential impact.

**NSF, Developmental Systems [91742]**
**Deadline:** 01/12/08  
**Scope:** The sponsor supports research aimed at understanding how interacting developmental processes give rise to the emergent properties of organisms.  
**Objectives:** The sponsor supports research aimed at understanding how interacting developmental processes give rise to the emergent properties of organisms. A systems level approach to understanding these processes, at the molecular, cellular, and organismal levels of organization, requires the use of molecular, genetic, biochemical, and physiological techniques as well as techniques from outside biology. The Developmental Systems Cluster is also particularly interested in understanding how emergent properties result in the development of complex phenotypes and lead to the evolution of developmental mechanisms. Funding is provided in the following areas: Plant, Fungal and Microbial Developmental Systems—this programmatic area supports research that addresses developmental processes in plants from algae to angiosperms, microbes and fungi. Animal Developmental Systems—this programmatic area supports research that seeks to understand the processes that result in the complex phenotype of animals. Because different organisms may be more amenable to certain approaches than others, analyses of development in a wide range of different species are encouraged. Evolution of Developmental Systems—this programmatic area supports research to discover the developmental processes shared by all organisms and those singular ones that produce diversity (phenotypic variation within a species and/or between species). What developmental changes have given rise to new phenotypes? How are gene networks modified to generate different phenotypic outcomes? To answer these and other evolutionary questions will likely require inter-disciplinary and collaborative approaches using a wide range of model systems.

**NSF, Perception, Action and Cognition [61300]**
**Deadline:** 01/15/08  
**Scope:** Support is provided for research in perception, action and cognition.  
**Objectives:** The sponsor supports research on perception, action and cognition including the development of these capacities. Emphasis is on research strongly grounded in theory. Research topics include vision, audition, haptics, attention, memory, reasoning, written and spoken discourse, motor control, and developmental issues in all topic areas. The program encompasses a wide range of theoretical perspectives, such as symbolic computation, connectionism, ecological, nonlinear dynamics, and complex systems, and a variety of methodologies including both experimental studies and modeling. Research involving acquired or developmental deficits is appropriate if the results speak to basic issues of perception, action, and cognition.

**NSF, Geography and Regional Science [61299]**
**Deadline:** 01/15/08, 02/15/08  
**Scope:** Support is provided for research in geography and regional science.  
**Objectives:** The sponsor supports basic research on the geographic distributions and interactions of human, physical, and biotic systems on the Earth's surface. Investigations are encouraged into the nature, causes, and consequences of human activity and natural environmental processes across a range of scales. Projects on a variety of topics (both domestic and international) qualify for support if they offer promise of contributing to scholarship by enhancing geographical knowledge, concepts, theories, methods, and their application to societal problems and concerns. Support also is provided for projects that explicitly integrate undergraduate and graduate education into the overall research agenda.

**NRC, Research Associateship Programs—U.S. Army Research Laboratory [58604]**
**Deadline:** 11/01/07  
**Scope:** The sponsor provides opportunities to outstanding scientists and engineers at recent postdoctoral and experienced senior levels for tenure as guest researchers. Awardees must hold the PhD, ScD, or other earned research doctoral degree recognized in US academic circles as equivalent to the PhD. An annual stipend is awarded.  
**Funding:** Postdoctoral Research Associateships are made initially for one year. Although awards to Senior Research Associates are usually for one year, awards for periods of three months or longer may be considered. The current annual stipend for a Postdoctoral Research Associate varies by directorate, as follows: Computational and Information Sciences Directorate—$62,000-$65,000; Human Research and Engineering—$55,000; Sensors and Electron Devices—$65,000; US Military Academy Teaching/Research $68,000; US Military Academy Photonics Research $68,000; Weapons and Materials Research $61,000. Some directorates provide a $5,000 supplement for doctorates in engineering and computer science. An appropriately
higher stipend will be offered to Senior Research Associates. A suitable relocation reimbursement is determined for each awardee. Funds are also available for limited professional travel during tenure.  

Objectives: The sponsor provides opportunities to outstanding scientists and engineers at recent postdoctoral and experienced senior levels for tenure as guest researchers. The objectives of the program are to provide postdoctoral scientists and engineers of unusual promise and ability opportunities for research on problems, largely of their own choice that are compatible with the interests of the U.S. Army Laboratory (ARL) and to contribute thereby to the overall efforts of the federal laboratories.  

ARL’s primary business is research and technology development; its second major function is the independent analysis of weapon-system performance in survivability and lethality, human factors, and battlefield-environmental effects. In short, ARL’s mission is to provide America’s soldiers the technological edge through scientific research, technology development, and analysis.

NSF, Geophysics [61287]  
Deadline: 12/01/07  
Scope: This program supports basic research in the physics of the solid earth to explore its composition, structure, and processes.  
Funding: Approximately $14.6 million is available to fund seventy to eighty standard or continuing grants.  
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.

NSF, Petrology and Geochemistry [61274]  
Deadline: 12/01/07  
Scope: The sponsor supports basic research on the formation and chemical composition of Earth materials in the crust, mantle, and core.  
Funding: Approximately $13.9 million is available to fund fifty to sixty awards annually.  
Objectives: Proposals in this program generally address the petrology and geochemistry of igneous and metamorphic rocks, mineral physics, and volcanology. This program also supports projects that study chemical properties of natural minerals at high pressures and temperatures. Most projects will use methods such as major and trace element geochemistry; stable and radiogenic isotope geochemistry and geochronology; experimental mineralogy, petrology, and volcanology; thermodynamic modeling of high temperature geochemical and mineral-forming processes; spectroscopy and crystallography; physical and chemical volcanology. Proposals to study extraterrestrial materials will be considered only if applicable to understanding processes that led to the formation and evolution of Planet Earth.

NSF, Physiological and Structural Systems [91741]  
Deadline: 01/12/08  
Scope: The sponsor supports research aimed at furthering the understanding of organisms as integrated units of biological organization.  
Objectives: The sponsor supports research aimed at furthering the understanding of organisms as integrated units of biological organization. The Cluster considers proposals focused on interacting physiological and structural systems, their environmental and evolutionary contexts, and how these components are constrained by their integration into the whole organism. Projects that use systems approaches to understand why particular patterns of architecture and regulatory control have emerged as general organismal properties are particularly encouraged. Understanding how and why emergent organismal properties such as robustness, adaptability and resilience arise in the context of environmental, genetic, biochemical and morphological variation are of interest. The Cluster encourages model building to augment traditional experimental approaches in order to guide research on complex functional networks. Multidisciplinary approaches to the study of organismal systems including research at the interfaces of biology, physics, chemistry, mathematics, computer science and engineering are encouraged in each of the following areas: Symbiosis, Defense and Self-Recognition--This programmatic area supports research on the processes and structures that mediate intimate interactions between two or more organisms. Proposals are encouraged that focus on the dynamics of initiation, dissolution and stability of these complex associations through studies of underlying processes of communication, immunological recognition and signaling, feedbacks, and reciprocal responses between interactors. All aspects of symbiosis, including commensalisms, mutualisms, parasitism and host-pathogen interactions are included.  
Processes, Structures and Integrity--The focus of this programmatic area is on understanding the unity of organisms as complex systems through studies of coherent, structural and functional properties and interactions. Systems approaches that predict or reveal the nature of coordination among functional processes and/or structural components as a means to further the understanding of organismal integrity and emergent properties are particularly encouraged.  
Organism-Environment Interactions--The focus of this programmatic area is on the structures and processes that af-
ffect organismal performance and inter-
actions during routine changing, or stress-
ful abiotic environmental condi-
tions. The program seeks proposals
aimed at understanding how interactions
among genetic, biochemical, morpho-
logical and physiological processes result
in integrated organismal re-
sponses. Increasing emphasis is placed
on understanding how and why such
interactions result in emergent proper-
ties such as adaptability, plasticity, and
robustness (i.e., both resistance and resil-
ience). Special emphasis is placed
on projects that adopt systems ap-
proaches, including quantitative and
qualitative analysis, theoretical models
and prediction to understand the dy-
namics and control of organismal re-
sponses to the environment from near
term to evolutionary time frames.

NSF, Research Initiation Grants and
Career Advancement Awards to
Broaden Participation in the Biologi-
Sciences [82929]
Deadline: 1/12/08
Scope: The sponsor offers Research
Initiation Grants and Career Advance-
ment Awards for the purpose of broad-
ening the participation of scientists and
groups underrepresented in the biologi-
ical sciences in the U.S. Up to $7 mil-
ion is available to fund twenty-five to
forty awards.
Funding: The sponsor expects to in-
vest from $4,000,000 to $7,000,000
beginning in FY 2008. The duration for
these awards is twenty-four months.
They are limited to a maximum of
$150,000 in total (direct plus indirect)
costs with a possible addition of up to
$25,000 for equipment. Durations may
be longer, if circumstances warrant and
are justified.
Objectives: The purpose of each pro-
gram is to increase opportunities for
scientists and engineers who are mem-
ers of groups underrepresented in bi-
ology to become actively and competi-
tively engaged in research as independ-
ent investigators, and, by doing so, to
create new research opportunities for
students from underrepresented groups.
These grants are intended to increase
the diversity of researchers who apply
for and receive BIO funding to: initiate
research programs early in their ca-
reers, and advance their careers by add-
ing new approaches or directions to
their on-going research programs.
By providing these funding opportuni-
ties, the sponsor intends to further
broaden participation of biological re-
searchers who share NSF's commit-
tment to diversity in the following
ways: expand the population of role
models who will interact with an in-
creasingly diverse student population,
the workforce of the future; increase
the number of scientists at minority
serving institutions actively and com-
petitively engaged in research as inde-
pendent investigators, thereby creating
new research opportunities for students
from under-represented groups; and
fund biological research projects that
use innovative ways to attract and re-
tain members of under-represented
groups to careers in biology.

NSF, Cyber Trust [63149]
Deadline: 11/14/07
Scope: The sponsor provides funding to
promote a vision of a society in which
people can justifiably rely on: computer
systems to perform critical functions
securely; computer systems to process,
store and communicate sensitive infor-
mation securely; and, a diverse, well-
trained workforce able to use, develop,
configure, modify and operate com-
puter-based systems. It is anticipated
that $34 million will be available to
fund eighty awards.
Funding: Up to fifteen team awards,
and up to fifty single investigator and
small team awards, and up to twenty
exploratory research awards will be
made. Exploratory Research awards
last up to two years and do not exceed
$250,000 total. Single Investigator and
Small Group awards last up to three
years and do not exceed $500,000 total.
Team awards last up to four years and
do not exceed $2,000,000 total.
Objectives: The program promotes a
vision of a society in which people can
justifiably rely on: computer systems to
perform critical functions securely;
computer systems to process, store and
communicate sensitive information se-
curely; and, a diverse, well-trained
workforce able to use, develop, config-
ure, modify and operate computer-
based systems.
To achieve the CT vision and simulta-
nceously improve the Nation's cyberse-
curity posture, CT will support a port-
folio of projects that: contribute to the
cybersecurity knowledge base and ad-
vance cybersecurity technologies; ad-
dress trustworthiness at all levels of
system design, implementation and use;
consider the social, economic, organ-
izational and legal factors influencing
the successful adoption of new cyberse-
curity approaches and technologies;
and build national education and work-
force capacity, addressing undergradu-
ate, graduate, and faculty development
and training. Proposals funded will
cover a broad range of disciplines con-
tributing to the CT vision. Three types
of CT projects will be supported: Ex-
ploratory Research projects; Single In-
vester or Small Group projects; and
Team projects.

NSF, Scholarships in Science, Tech-
nology, Engineering, and Mathemat-
ics (S-STEM) [49644]
Deadline: 11/13/07
Scope: Grants of up to $125,000 per
year are awarded to U.S. institutions of
higher education to support scholar-
ships for academically talented, finan-
cially needy students, enabling them to
enter the workforce following comple-
tion of an associate, baccalaureate, or
graduate level degree in science and
engineering disciplines.
Funding: Approximately $70 million
is expected to be available to support
up to one-hundred and thirty new
awards. Awards are normally not ex-
pected to exceed $600,000 in total. An-
nual budgets are limited to $225,000.
The award duration may be up to five
years (four scholarship years and an
optional initial period for planning).
within the annual and overall budget
An Eye on Funding (Continued from page 13)

limits. The limits include the funds for administrative and support functions as well as the scholarship funds. S-STEM grants may be made for up to five years (four scholarship years and an optional initial planning period) and may provide individual scholarships of up to $10,000 per year, depending on financial need.

Objectives: This program emphasizes the importance of recruiting students to high technology disciplines, mentoring and supporting students through degree completion, and partnering with employees to facilitate student career placement in the high technology workforce. Participating institutions are expected to support the goals of the CSEMS program including: improved educational opportunities for students; increased retention of students to degree achievement; improved student support programs at institutions of higher education; and increased numbers of well educated and skilled employees in technical areas of national need.

NSF, Geoscience Education (GeoEd) [36732]
Deadline: 11/15/07
Scope: The sponsor provides funding to improve the quality of geoscience education through one of two tracks: Pilot Projects and Integrative Collaborations.

Funding: It is anticipated that approximately forty-five awards will be made in FY 2008. Forty of the awards per competition are anticipated to be made to Track 1 proposals and five are anticipated to be made to Track 2 proposals. The maximum amount that can be requested by a Track 1 proposal is $150,000, but the average award size is anticipated to be on the order of $75,000. The maximum amount that can be requested by a Track 2 proposal is $500,000, but the average award size is anticipated to be on the order of $400,000. Track 1 projects can have a maximum duration of two years. Track 2 projects can have a maximum duration of four years.

Objectives: The goals of the program are to: improve the quality of geoscience education at all educational levels; increase the number and competency of Earth and Space Science teachers at K-12 levels; demonstrate the relevance of the geosciences by identifying and promoting traditional and non-traditional career opportunities in the field; increase the number of students enrolling in geoscience courses and degree programs at all educational levels; increase the number of students drawn from groups underrepresented in science, technology, engineering and mathematics (STEM) fields in geoscience courses and degree programs; and increase the public’s understanding of geoscience-related issues.

Track 1 Pilot Projects: Proposals should describe a plan to initiate or pilot innovative geoscience education activities. Track 1 projects should integrate research and education. Proposals for projects that will make use of current geoscience research results and/or methods are sought, as are proposals that will promote the geosciences and geoscience careers as highly relevant to modern society. Projects that are informed by the results of current education-related research or will conduct new educational research within a geoscience education venue will be considered under this solicitation. Awards are intended to provide start-up or proof-of-concept funding to enable projects to reach a level of maturity that will allow them to compete for longer-term funding from other sources or become self-sustaining. All proposed projects should have strong evaluation and dissemination plans. Proposals should describe a plan to integrate geoscience research and education activities into existing Louis Stokes Alliances for Minority Participation (LSAMP), Alliances for Graduate Education and the Professoriate (AGEP), and/or Centers of Research Excellence in Science and Technology (CREST) projects. Track 2 proposals must provide documentation of collaboration between the proposed GeoEd project and the associated LSAMP, AGEP, and/or CREST project(s).

NSF, Division of Environmental Biology--Population and Evolutionary Processes [70421]
Deadline: 01/09/08
Scope: The sponsor provides support to researchers for projects that are focused on measures of population properties and understanding processes that lead to variation within and between populations.

Objectives: The sponsor provides support to researchers for projects that are focused on measures of population properties and understanding processes that lead to variation within and among populations. Approaches include empirical and theoretical studies of micro-evolution, organismal adaptation, geographical differentiation, natural hybridization and speciation, as well as processes that lead to macroevolutionary patterns of trait evolution. Research areas include:

Population Dynamics: Studies of the demography of age- and stage-structured populations and of changes in populations, using analytic, stochastic, or statistical approaches.

Evolutionary Ecology: Studies of single species from an ecological and evolutionary perspective including: life history and life cycle phenomena of terrestrial, freshwater, and wetland organisms; patterns of natural and sexual selection; causes and consequences of reproductive isolation; phyleography; and single-lineage phyletic evolution.

Evolutionary Genetics: Studies of population and quantitative genetics; how micro- and macro-evolutionary processes, including epigenetics and development, explain the evolution of complex phenotypes.

Molecular Population Biology: Studies of the causes and consequences of variation, change, selection, and evolution of biochemical characteristics, RNA and DNA sequences, and mobile elements; how the properties of genes (number, arrangement, and pattern) and
their interactions determine evolutionary processes; the evolution of genetic architecture; and evolutionary genomics.

**NSF, Division of Materials Research [00740]**

**Deadline:** 11/02/07  
**Scope:** Support is provided for materials research in the areas of metals, ceramics, and electronic materials; condensed matter and materials theory; solid-state chemistry; and polymers.  
**Objectives:** Support is provided for materials research in the following areas:  
- **Metals:** Supports research to increase understanding and predictive capabilities for relating synthesis, processing, alloy chemistry, and microstructure of metals to their physical and structural properties and performance in various applications and environments. Metals research encompasses the broad areas of physical and mechanical metallurgy. Topics supported include phase transformations and equilibria; morphology; solidification; surface modification; structure, and properties; interfaces and grain boundary structure; nanostructures; corrosion and oxidation; defects; deformation and fracture; and welding and joining.
- **Ceramics:** Supports basic research and education in ceramics (e.g., oxides, carbides, nitrides and borides) as well as diamond and inorganic carbon-based materials. The objective of the program is to increase fundamental understanding and develop predictive capabilities for relating synthesis, processing, and microstructure of these materials to their properties and ultimate performance in various applications and environments. Topics supported include phase transformations and equilibria; morphology; surface modification; structure, and properties; interfaces and grain boundary structure; defects; and the interrelationship among experimental conditions, phenomena, and properties. The microstructures investigated range from crystalline, polycrystalline, and amorphous to composite and nanostructured.
- **Electronic Materials:** Supports research that investigates the fundamental phenomena associated with the synthesis and processing of electronic and photonic materials. The objective is to increase fundamental understanding and develop predictive capabilities for relating synthesis, processing, and microstructure of these materials to their properties and performance in various applications and environments. Topics supported include basic processes and mechanisms associated with nucleation and growth of thin films; nanostructure definition and etching processes; bulk crystal growth; and the interrelationship among experimental conditions, phenomena, and properties.
- **Condensed Matter Physics:** Supports fundamental, experimental, and combined experiment and theory projects on the physics of solid, liquid, and amorphous systems. Phenomena of interest include phase transitions; localization; electronic, magnetic, and lattice structure; superconductivity; elementary excitations, including electronic, magnetic, plasma, and lattice; transport, magnetic, and optical properties; and nonlinear dynamics. Low-temperature physics is represented by research on quantum fluids and solids as well as two-dimensional electron systems. Soft condensed matter research includes partially ordered fluids and colloid physics. Characterization and analysis of new materials by novel methods and research on condensed matter under extreme conditions such as low temperatures, high pressures, and high magnetic fields are of interest. Development of new experimental techniques may be appropriate where necessary to carry out the proposed research.
- **Solid State Chemistry:** Supports basic research that includes understanding the atomic and molecular basis for synthesis, structure-composition-property relationships, and the processing of materials. The program is largely multidisciplinary with strong components of chemistry, physics, biology, and materials science. Special attention is given to the creation of new classes of materials exhibiting new phenomena, and discovering specific materials with superior properties. Current research areas include innovative synthetic routes to new materials; characterization of materials displaying new phenomena or superior behavior; the relationships among structure, composition, and properties such as chemisorption, cooperative-assembly, transport, and reactivity; and materials preparation, processing, and optimization by chemical means. The current materials emphasis is on hybrid materials, complex materials, environmental materials, and advanced materials optimization and processing.
- **Polymers:** Supports basic research and education on polymeric materials. The program portfolio is mainly experimental and highly diverse with components of materials science, chemistry, physics, and related disciplines. Polymers are studied across the nano-to-macro continuum through fundamental materials-focused scientific approaches. Areas addressed include synthesis, molecular assembly, characterization, phase behavior, structure, morphology, and properties. Particular focus is on new materials or materials with novel and/or superior properties, as well as on fundamental understanding of structure-property relationships. Proposals of high potential impact for research and education in the above areas are welcome.
- **National Facilities:** Supports the operation of National User Facilities, which are research facilities with specialized instrumentation available to the scientific research community in general and the materials research community in particular. These facilities provide unique research capabilities that can be located at only a few highly specialized laboratories in the Nation. They include facilities and resources for research using high magnetic fields, ultraviolet and x-ray synchrotron radiation, neu-
tron materials: The focus of the Biomaterials Program is the study of biologically related materials and phenomena, including biological pathways to new materials. The materials and systems of interest include biomolecules, biomolecular assemblies (systems of strongly interacting biomolecules), biomolecular systems (vesicles, membranes, and various other assemblies and networks of biomolecules), and biomimetic, biospired, or biocompatible materials. The methods of materials research may be applied to biological systems to discover or understand phenomena and to create or optimize materials. Consistent with DMR’s mission, awards will be in the general areas of biological condensed matter physics and chemistry, and biologically related materials science. Materials-focused proposals for research and education in these areas are encouraged.

**NSF, Strategic Technologies for Cyberinfrastructure [90318]**

**Deadline: 02/14/08**

**Scope:** The sponsor provides funding to support work leading to the development and/or demonstration of innovative cyberinfrastructure services for science and engineering research and education that fill gaps left by more targeted funding opportunities. In addition, it will consider highly innovative cyberinfrastructure education, outreach and training proposals that lie outside the scope of targeted solicitations.

**Funding:** Proposals for workshops, symposia and Small Grants for Exploratory Research clearly related to the scope of the Program described above, may be submitted.

**Objectives:** The program will accept proposals for cyberinfrastructure development, demonstration, education, outreach and training activities that are not aligned with the specific goals of other existing cyberinfrastructure funding opportunities and which have the potential to transform multiple areas of research or education. Projects appropriate for this program should: be activities that include a demonstration of the potential impact on science or engineering research or education; generate outcomes not currently under development elsewhere; meet a clearly described cyberinfrastructure need not met elsewhere; and generate outcomes that will be of interest to a range of science and engineering communities.

**NSF, Course, Curriculum, and Laboratory Improvement (CCLI) [82348]**

**Deadline: 01/10/08**

**Scope:** The program seeks to improve the quality of science, technology, engineering, and mathematics (STEM) education for all undergraduate students. The program supports efforts to create new learning materials and teaching strategies, develop faculty expertise, implement educational innovations, assess learning and evaluate innovations, and conduct research on STEM teaching and learning. The program supports three types of projects representing three different phases of development, ranging from small, exploratory investigations to large, comprehensive projects.

**Funding:** Phase 1 Exploratory Projects are awarded up to $150,000 ($200,000 when four-year colleges and universities collaborate with two-year colleges) for one to three years. Phase 2 Expansion Projects are awarded up to $500,000 for two to four years. Phase 3 Comprehensive Projects are provided up to $2.0 million for three to five years.

**Objectives:** All proposals must contribute to the development of exemplary undergraduate STEM education. Proposals may focus on one or more of the components of this cycle.

Creating Learning Materials and Teaching Strategies: Guided by research on teaching and learning, by evaluations of previous efforts, and by advances within the disciplines, projects should develop new learning materials and tools, or create new and innovative teaching methods and strategies. Projects may also revise or enhance existing educational materials and teaching strategies, based on prior results. All projects should lead to exemplary models that address the varied needs of the Nation’s diverse undergraduate student population. They may include activities that help faculty develop expertise in adapting these innovations and incorporating them effectively into their courses, the next step in the cycle.

Developing Faculty Expertise: Using new learning materials and teaching strategies often requires faculty to acquire new knowledge and skills and to revise their curricula and teaching practices. Projects should design and implement methods that enable faculty to gain such expertise. These can range from short-term workshops to sustained activities that foster new communities or networks of practicing educators. Successful projects should provide professional development for a diverse group of faculty so that new materials and teaching strategies can be widely implemented.

Implementing Educational Innovations. To ensure their broad based adoption, successful educational innovations (such as learning materials, teaching strategies, faculty development materials, assessment and evaluation tools) and the research relating to them should be widely disseminated. These innovations may come from CCLI projects or from other sources in the STEM community. Funds may be requested for local adaptation and implementation projects, including instrumentation to support such projects. Results from implementation projects should illuminate the challenges to and opportunities for adapting innovations in diverse educational settings, and may provide a foundation for the development of new tools and processes for dissemination. They also may provide a foundation for assessments of learning and teaching.

Assessing Student Achievement: Implementing educational innovations will create new needs to assess student learning. Projects for designing tools to measure the effectiveness of new mate-
materials and instructional methods are appropriate. Some projects may develop and share valid and reliable tests of STEM knowledge; other projects may collect, synthesize, and interpret information about student reasoning, practical skills, interests, or other valued outcomes. Projects that apply new and existing tools to conduct broad-based evaluations of educational programs or practices are appropriate if they span multiple institutions and are of general interest. Projects should carefully document population characteristics and context for abstracting what can be generalized. Results obtained using these tools and processes should provide a foundation that leads to new questions for conducting research on teaching and learning. Assessment projects likely to have only a local impact are discouraged.

Conducting Research on Undergraduate STEM Teaching and Learning: Results from assessments of learning and teaching as well as from projects emphasizing other components in the cyclic model 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 is appropriate. Some research results may compel faculty to rethink STEM education for the future. Other projects will have a practical focus. All projects should lead to testable new ideas for creating learning materials and teaching strategies that have the potential for a direct impact on STEM educational practices.

SOCIAL / BEHAVIORAL

NSF, Behavioral Systems [91747]
Deadline: 01/12/08
Scope: The sponsor supports research on the development, function, mechanisms and evolutionary history of behavior, with emphasis on a vertically integrated understanding of the behavioral phenotype. To foster this integrative goal, the sponsor specifically encourages projects that seek to understand how combinations of neural, hormonal, physiological, and developmental mechanisms act synergistically as a system from which behavior emerges.

NSF, Methodology, Measurement and Infrastructure Activities [76933]
Deadline: 01/16/08
Scope: The sponsor supports innovative methods and models for the social and behavioral sciences.
Objectives: The sponsor supports a broad portfolio of research and infrastructure activities that fall within the following areas:
- The development, application, and extension of formal models and methodology for social and behavioral research, including methods for improving measurement. The proposed research must have implications for one or more of the social and behavioral sciences.
- The development of formal models that cross traditional disciplinary boundaries, including research on statistical methodology or statistical modeling having direct implications for one or more of the social and behavioral sciences.
- Research on methodological aspects of new or existing procedures for data collection, including methodology for survey research, and research to evaluate or compare existing data bases and data collection procedures.
- The collection of unique databases with cross disciplinary implications, especially when paired with developments in measurement or methodology.
- The organizational infrastructure of social and behavioral research.

NSF, Methodology, Measurement and Statistics—Research on Survey and Statistical Methodology [46024]
Deadline: 01/16/08
Scope: The sponsor supports research to further the development of new and innovative approaches to surveys and the analysis of survey data.
Objectives: The sponsor invites research proposals that further the development of new and innovative approaches to surveys and to the analysis of survey data. Although proposals submitted in response to this announcement may address any aspect of survey methodology, priority will be given to basic research proposals that are interdisciplinary in nature, have broad implications for the field in general, and have the greatest potential for creating fundamental knowledge of value to the Federal Statistical System. Because methodological problems often require knowledge and expertise from multiple disciplines, collaborations are especially encouraged among the relevant sciences, including the social sciences, linguistics, cognitive science, statistics, computer science, and economics.

NSF, Behavioral Systems [91747]
Deadline: 01/12/07
Scope: The sponsor supports research on the development, function, mechanisms and evolutionary history of behavior, with emphasis on a vertically integrated understanding of the behavioral phenotype.
Objectives: To foster this integrative goal, the sponsor specifically encourages projects that seek to understand how combinations of neural, hormonal, physiological and developmental mechanisms act synergistically as a system from which behavior emerges. Laboratory work or the study of animals in captivity is encouraged, to the extent that it contributes to the understanding of behavior in natural systems.
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  
13) Submit proposals by mail or electronically per sponsor specifications  
14) Negotiate grant awards and contracts  
15) Establish a Research Foundation project account

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.

**ORSP Contact Information**

**PRE AWARD**

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Email</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maria Nakamura</td>
<td>Associate Director</td>
<td><a href="mailto:Nakamura@oswego.edu">Nakamura@oswego.edu</a></td>
<td>(315)312-2884</td>
</tr>
<tr>
<td>Linda Cook</td>
<td>Administrative Assistant</td>
<td><a href="mailto:Lcook@oswego.edu">Lcook@oswego.edu</a></td>
<td>(315)312-2561</td>
</tr>
</tbody>
</table>

**POST AWARD**

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Email</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maria Nakamura</td>
<td>Associate Director</td>
<td><a href="mailto:Nakamura@oswego.edu">Nakamura@oswego.edu</a></td>
<td>(315)312-2884</td>
</tr>
<tr>
<td>Michele Frazier</td>
<td>Staff Associate</td>
<td><a href="mailto:Mfrazier@oswego.edu">Mfrazier@oswego.edu</a></td>
<td>(315)312-2886</td>
</tr>
<tr>
<td>Lorie Robert</td>
<td>Secretary 1</td>
<td><a href="mailto:Lrobert@oswego.edu">Lrobert@oswego.edu</a></td>
<td>(315)312-2888</td>
</tr>
<tr>
<td>Andrea Ross</td>
<td>Administrative Assistant</td>
<td><a href="mailto:Ross@oswego.edu">Ross@oswego.edu</a></td>
<td>(315)312-2890</td>
</tr>
</tbody>
</table>