Funds for Instrumentation Secured from the National Science Foundation

Paul Tomascak of the Earth Science Department and Webe Kadima of the Chemistry Department secured funding from the National Science Foundation for instrumentation. Other faculty involved are Richard Back (Biological Sciences), Karen Sime (Biological Sciences), Eric Hellquist (Biological Sciences), Diana Boyer (Earth Sciences), Casey Raymond (Chemistry), and Jeffrey Schneider (Chemistry).

Project Summary
A cross-disciplinary group of scientists from the Departments of Chemistry, Earth Sciences, and Biological Sciences at SUNY-Oswego, requested funds for an inductively-coupled plasma source quadrupole mass spectrometer (ICP-MS) for use in research and education. The instrumentation will become part of a mass spectrometry core facility, along with our NSF-funded proteomics laboratory, which will occupy specifically-designed space in new science facilities. This instrumentation is integral to the institutional foci on undergraduate research training and the creation of meaningful learning environments, as well as the continued high level of productivity for members of the faculty and the attraction of excellent new faculty.

Intellectual Merit
This instrumentation will provide trace element analytical capacity for a variety of research thrusts, many of them with strong interdisciplinary synergies, and will allow Bachelors and Masters degree students to participate in significant laboratory research experiences. NSF-sponsored research on granite genesis will use major and trace element data (alkalis, alkaline earths, lanthanides) to constrain petrogenetic models for migmatises and explore links with associated granites. Proxies for oxic conditions in sediments, recorded in organic-rich sedimentary rocks, will investigate redox-sensitive metal concentrations in stratigraphic microsamples. Elemental data (Li, Sr, lanthanides, Th, U) will supplement existing isotopic studies of hydrogeochemistry of (Continued on page 15)
Campus News—Nominations for Presidents & Provost’s Awards due in January

The President’s Award, in the amount of $1,000, shall be given annually by the President of Oswego State University to a member or members of the full-time faculty and staff on continuing appointment and with a minimum of five years of service at Oswego. This award, which is designed as a recognition of a career of significant accomplishment in scholarly or creative activity or research, may be received only once. Nominations for the award will be accepted from colleagues until January 31, 2009.

The Provost’s Award, in the amount of $500, shall be given annually by the Provost of Oswego State University to a junior member or members of the full-time faculty and staff on continuing appointment and with a minimum of three years of service at Oswego.

This award, which is designed as a recognition of a career of significant accomplishment in scholarly or creative activity or research, may be received only once. Nominations for the award will be accepted from colleagues until January 31, 2009.

See complete guidelines at http://www.oswego.edu/administration/ORSP/campus_grants_and_awards/faculty_grants/index.html

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Campus Grants Timeline

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

<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>Fourth Monday in October 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>
ARTS

Saltonstall (Constance) Foundation for the Arts, Individual Artists Grants [72054]
Deadline: 01/15/09
Synopsis: The sponsor annually awards grants to a limited number of writers and visual artists in the central and western counties of New York state.
Objectives: The sponsor annually awards grants to a limited number of writers and visual artists. Recipients have used these grants in a variety of ways, including buying materials, preparing works for exhibit, and taking time off from non-arts jobs to create new work. The sponsor is seeking applications for the following categories for 2009: fiction; poetry; painting; and sculpture.

Art Alliance for Contemporary Glass [94024]
Deadline: 03/01/09
Synopsis: The mission of the sponsor is to further the development and appreciation of art made from glass. Grants are made to arts organizations in support of specific educational purpose, with preference given for grants in which the focus is education of the public (as opposed to education of artists, curators, etc.).
Objectives: Typically, the sponsor's grants support exhibitions, catalogs, brochures, videos, curatorial stipends, and residencies for visiting artists.

Guitar Center Music Foundation [97797]
Deadline: Open
Synopsis: The Guitar Center Music Foundation provides funding and resources for music programs. Grants are awarded to music academies, schools, local music programs and national music programs across America.
Objectives: The Guitar Center Music Foundation's mission is to aid nonprofit music programs across America that offer music instruction.

Mockingbird Foundation [84013]
Deadline: 02/01/09
Synopsis: The sponsor offers competitive grants to schools and nonprofit organizations that effect improvements in the area of music education for children.
Objectives: Funding is provided for schools and nonprofit organizations in the following areas:
Music: The sponsor is particularly interested in projects that encourage and foster creative expression in any musical form (including composition, instrumentation, vocalization, or improvisation), but also recognizes broader and more basic needs within conventional instruction. Applications associated with diverse or unusual musical styles, genres, forms, and philosophies are encouraged.
Education: This program may include the provision of instruments, texts, and office materials and the support of learning space, practice space, performance space, and instructors/instruction. The sponsor is particularly interested in projects that foster self-esteem and free expression, but does not typically fund music therapy which is not education or music appreciation which does not include participation.
Children: The sponsor is interested in targeting children eighteen years or younger, but will consider projects benefiting college students, teachers, instructors, or adult students. Of particular interest are programs which benefit disenfranchised groups, including those with low skill levels, income, or education; with disabilities or terminal illnesses; and in foster homes, shelters, hospitals, prisons, or other remote or isolated situations.

HEALTH & WELLNESS

NIH / Advancing Novel Science in Women’s Health Research [93358]
Deadline: 01/07/09, 10/16/09
Synopsis: The sponsors provide support for innovative, interdisciplinary research that will advance new concepts in women’s health research and the study of sex/gender differences. Recent research reports have established the importance of studying issues specific to women, including the scientific and clinical importance of analyzing data separately for females and males. ORWH is particularly interested in encouraging extramural investigators to undertake new interdisciplinary research to advance studies on how sex and gender factors affect women’s health; however, applications in all areas of women’s health and/or sex/gender research are invited. This program will use the NIH Small Research Grant (R03) award mechanism.
Objectives: The overall purpose of ANSHWR is to stimulate and support innovative research that will advance new concepts in women’s health research and the study of sex/gender differences. ORWH and its scientific partners across the NIH are interested particularly in encouraging extramural investigators to undertake new interdisciplinary research to advance studies on how sex and gender factors affect women’s health. The following four overarching themes are important for addressing research on women’s health: Lifespan, Sex/Gender Determinants, Health Disparities/Differences and Diversity, and Interdisciplinary Research. Basic, clinical and translational research should be considered in addressing priority areas in women’s health research. Some examples may include, but are not limited to: diseases and conditions that affect women; methodological advances; education and career development of women in science; and quality of life. The NIH is interested especially in fostering research in women’s health in the high priority areas of prevention and treatment, and the biological and behavioral basis of sex and gender differences. In addition to the research guidelines stated above, the following NIH institutes and centers state the following: NLM is interested in topics related to
biomedical informatics and knowledge management.
OBSSR is interested in promoting research on the behavioral and social aspects of health and illness.

HUMANITIES

Saltonstall (Constance) Foundation for the Arts, Individual Artists Grants [72054]
Deadline: 01/15/09
Synopsis: The sponsor annually awards grants to a limited number of writers and visual artists in the central and western counties of New York state.
Objectives: The sponsor annually awards grants to a limited number of writers and visual artists. Recipients have used these grants in a variety of ways, including buying materials, preparing works for exhibit, and taking time off from non-arts jobs to create new work. The sponsor is seeking applications for the following categories for 2009: fiction; poetry; painting; and sculpture.

Earhart Foundation [00848]
Deadline: Open
Synopsis: Grants fund publicly supported educational and research institutions for a maximum of twelve months for specific projects or activities in the social sciences and humanities disciplines.
Objectives: The sponsor provides grants to publicly supported educational and research organizations for specific projects or activities in such disciplines from the social sciences and humanities as economics, philosophy, history, international affairs and government/politics.

INTERDISCIPLINARY

Brico Fund [80813]
Deadline: 01/01/09 for letter of intent
Synopsis: The sponsor offers support for programs which support its mission to effect systemic change to change attitudes, policies and societal patterns.
Objectives: The sponsor makes grants in pursuit of the following priorities: to secure full participation in society for women and girls; to restore and sustain the earth’s natural systems; to promote a just and equitable society; and to nourish the creative spirit.
WOMEN AND GIRLS--the sponsor's current focus is on reproductive rights, building strong leadership skills, and advocacy around relevant issues.
ENVIRONMENT--the sponsor's current focus is promoting policies and practices that improve and protect the water quality of Lake Michigan and surrounding waterways. (NOTE: the sponsor is currently not accepting unsolicited proposals in this area). The sponsor also makes limited grants in the area of sustainability (land ethic, land use, and sustainable agriculture).
JUST AND EQUITABLE SOCIETY--the sponsor supports programs designed to change attitudes, policies, laws and societal patterns that create or tolerate injustice.
CREATIVE SPIRIT--the sponsor seeks to encourage innovators by supporting pioneering approaches in a variety of program areas.

NSF / Science, Technology, and Society [96572]
Deadline: 02/01/09
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.

**USAID / International Observation of Sudan National Elections [98087]**
**Deadline:** 02/16/09

**Synopsis:** The sponsor is soliciting applications from eligible organizations for holistic international observation of the Sudan electoral process. The sponsor seeks observation applications covering the entirety of the electoral process, from establishment of the National Election Commission through resolution of post-polling disputes.

**Objectives:** Applicants are encouraged to develop joint observation applications covering multiple facets of the electoral process and enabling environment. USAID/Sudan is prepared to fund observation applications that cover several of the following aspects of electoral process: 1. Appointment of the National Election Commission (NEC); 2. Financial and political autonomy of the NEC; 3. Development and issuance of electoral regulations; 4. Constituency delimitation process; 5. Voter registration process; 6. Registration of candidates and political parties; 7. Campaign period; 8. Polling; 9. Counting and tabulation; 10. Dispute Resolution; 11. Participation of women, youth, IDPs, and other marginalized groups; 12. Role of Media; 12. Security/violence.

**American Arachnological Society, Arachnology Research Fund [75018]**
**Deadline:** 01/15/09

**Synopsis:** The sponsor awards grants that support arachnological research.

**Objectives:** The purpose of the fund is to provide research support for work relating to any aspect of the behavior, ecology, physiology, evolution or systematics of any of the arachnid groups (excluding Acari). Awards may be used for field work, museum research (including travel), expendable supplies, identification of specimens, and/or for preparation of figures and drawings for publication.

**Coors (Adolph) Foundation [75012]**
**Deadline:** 03/01/09, 07/01/09

**Synopsis:** The sponsor provides support to nonprofit organizations that promote self-sufficiency, leadership and independence.

**Objectives:** The sponsor considers grants in the following areas: HUMAN SERVICES: the sponsor is interested in helping people be independent and self supporting, with an emphasis on one or more of the following criteria: individual self-sufficiency and responsibility; job skills training and assistance; financial management and responsibility; and self reliance, especially for seniors and families. YOUTH: the sponsor has a strong focus on character and leadership development. It believes that most youth have the potential to be successful, given opportunity, knowledge and support. Requests with one or more of the following components will be given priority: one-on-one mentoring; year round programming; leadership opportunities; and character building and risk taking. EDUCATION: programs that are not part of the public schools will be considered, especially in the areas of: after school programs with an emphasis on academics; financial literacy; free enterprise; and science and technology. COMMUNITY: the sponsor will consider proposals that encourage volunteerism and philanthropy. Capital support is considered for civic institutions that serve an entire region.

**SCIENCES**

**NSF / Interdisciplinary Training for Undergraduates in Biological and Mathematical Sciences [73519]**
**Deadline:** 02/12/09

**Synopsis:** The sponsor provides support for projects designed to enhance undergraduate education and training at the intersection of the biological and mathematical sciences and to better prepare undergraduate biology or mathematics students to pursue graduate study and careers in fields that integrate the mathematical and biological sciences.

**Objectives:** The sponsor provides opportunities for funding of undergraduate education and training efforts that integrate the biological sciences and mathematical sciences. Such efforts are expected to: be grounded in research activities involving both mathematical and biological sciences; connect to regular academic studies, influencing the direction of academic programs for a broad range of students; involve stu-
dents from both areas in significant research experiences that connect to research at the intersection of the disciplines; and show commitment to joint mentorship by faculty in both fields. Projects should contribute substantially to an enhanced and sustainable undergraduate educational enterprise that strengthens mathematical training or education for those students studying biology and interdisciplinary training for those studying mathematics.

**NSF / Science of Learning Centers [7444]**
**Deadline:** 02/02/09
**Synopsis:** The sponsor offers awards for large-scale, long-term Centers that create the intellectual, organizational and physical infrastructure needed for the long-term advancement of Science of Learning research.

**Objectives:** The goals of the Science of Learning Centers Program are to advance the frontiers of all the sciences of learning through integrated research; to connect the research to specific scientific, technological, educational, and workforce challenges; to enable research communities to capitalize on new opportunities and discoveries; and to respond to new challenges.

The SLC Program construes learning broadly, including that of animals, humans and machines. The program is open to many possible approaches and topics that can be brought to examine what learning is, how it is affected, how it works at different levels, how biologically-derived learning principles can inform artificial systems and vice versa. The Program places high value on creativity, integration of theoretical and empirical work, innovative models of research and research transfer, and inventive uses of technology.

**NSF / Mathematical Sciences Research Institutes [97240]**
**Deadline:** 02/27/09
**Synopsis:** The sponsor seeks proposals for mathematical sciences research institutes that will advance research in the mathematical sciences, increase the impact of the mathematical sciences in other disciplines, enable the mathematical sciences to respond to national needs, and expand the talent base engaged in mathematical research in the United States.

**Objectives:** The sponsor is particularly interested in proposals that are creative, demonstrate vision, involve the fullest spectrum of the mathematical sciences appropriate to the proposed institute’s mission, and increase the potential to transform the mathematical sciences landscape.

The structure of a proposed institute is unspecified. An institute may have a single location in physical space, or it may have multiple locations including locations in cyberspace.

**NSF / Manufacturing and Construction Machines and Equipment [97486]**
**Deadline:** 02/15/09
**Synopsis:** The MCME program supports fundamental research leading to improved machines and applications for both manufacturing and construction.

**Objectives:** Key goals are to advance the transition of these industries from skill-based to knowledge-based activities and to develop them as activities with minimal environmental and societal impact. To accomplish these goals the program emphasizes research leading to a fundamental understanding of the relevant physical processes resulting in better predictive models and improved manufacturing and construction decision making. The program also supports research on solid freeform fabrication encompassing scales from microns to meters (nanometer scale additive manufacturing is supported under the Nanomanufacturing program).

Science and Mathematics is to strengthen the nation’s scientific competitiveness by increasing the numbers of well-prepared, successful U.S. undergraduate majors and minors in science and mathematics.

**Objectives:** The program will fund innovative, potentially transformational partnerships between the mathematical sciences and other science or engineering disciplines that widen the cross section of the mathematical sciences to which freshman and sophomore students are exposed and that provide these students increased opportunities for research experiences involving the mathematical sciences.

This program intends to support the development of activities that help students understand both the central role of the mathematical sciences in fostering progress in other scientific disciplines and the continuing active development of the mathematical sciences themselves. To this end, the program requires collaborative involvement, from proposal writing through award implementation, of a mathematical sciences department and at least one other science or engineering unit in the institution. Such a partnership could, for example, aim to increase the number of double majors or major/minor combinations between the mathematical sciences and the partner discipline(s), or the partnership might seek to significantly increase the mathematical sciences component of the degree program of the partner discipline(s). The Principal Investigator and co-Principal Investigators on each proposal must represent all of the academic units to be engaged in the proposed activity.

Because most undergraduate students do not declare majors before their sophomore year, funded projects will necessarily include strong plans to proactively identify and recruit capable lower-division students with realistic chances of success in science and mathematics majors. Proposals should outline specific mechanisms for identification and recruitment of student participants in the activity.
Since research activity fosters a student's early engagement with scientific subject material and understanding of the vitality of scientific disciplines, projects funded by this program must include opportunities for research experiences for lower-division students in the mathematical sciences and/or the partner discipline(s). Here, research is interpreted broadly to include all forms of discovery learning, at levels appropriate to the students, through which students are introduced to the excitement of the research process. For the purposes of this program, it is not necessary that research topics be original or that student research experiences lead to publishable results. Because students at all levels desire and profit from timely information -- necessarily obtained outside traditional coursework -- concerning professional development in the field, projects funded by this program will include careful attention to mentoring and other activities that foster students' sense of membership in the departmental community. Here, mentoring is understood to mean guidance in professional development, including improvement of communication skills for transmission of scientific ideas through writing and through presentations in a spectrum of venues, experiences in effective teamwork, and experiences in guiding the learning of others. Proposed activities should also include sound plans for providing students early exposure to information about a wide range of career options and higher education opportunities for mathematics and science majors.

DOE / National Geothermal Database [99552]
Deadline: 02/03/09
Synopsis: Funding is available to eligible organizations for the creation of a web-based National Geothermal Database that will serve as a central repository for all publically accessible geothermal data. While domestic geothermal resource, power plant, and institutional barrier data (such as transmission infrastructure access, risk mitigation mechanisms, and policy information) is the primary focus of data gathering, international data sources may also be included when such knowledge would contribute to the development of domestic geothermal resources.

Objectives: The National Geothermal Database will store critical geothermal site attribute information such as temperature at depth, seismicity/microseismicity, fracture maps, drilling data, permeability data, well logs, geophysical surveys, etc. The database should be inclusive of all types of geothermal resources such as hydrothermal, geopressured, Enhanced Geothermal Systems, geothermal fluids coproduced with oil and/or gas, etc. It should also utilize information from existing USGS geothermal resource assessments and DOE funded R&D projects. This standardized set of geothermal resource data will be made available to the public and serve to focus geothermal exploration activities, thereby mitigating investment risks. It is expected that wherever possible the recipient will collaborate with private companies to gain access to historical drilling information. The sponsor envisions creating an expansive, useful, user-friendly database that will continue to operate beyond the project period, even after all DOE funds have been expended.

DOE envisions that the project will include the following phases, at a minimum: Phase I - Data Collection Plan and Database Proof of Concept; Phase II - Database Prototype; Phase III - Working Database Establishment; Phase IV - Database Operation and Maintenance.

NSF / Broadening Participation Research Initiation Grants in Engineering [94393]
Deadline: 02/13/09
Synopsis: The sponsor offers a research initiation grant funding opportunity with the goal of broadening participation to all engineers including members from groups underrepresented in the engineering disciplines.

Objectives: These grants are intended to increase the diversity of researchers in engineering disciplines to initiate research programs early in their careers, including those from underrepresented groups, engineers at minority serving institutions, and persons with disabilities. By providing these funding opportunities, the sponsor intends to further broaden participation of engineering researchers who share NSF's commitment to diversity in the following ways: Expand the population of role models who will interact with an increasingly diverse student population, the workforce of the future; Increase the number of engineering researchers at minority serving institutions actively and competitively engaged in research as independent investigators, thereby creating new research opportunities for students from underrepresented groups; and Fund engineering research projects that use innovative ways to attract and retain members of underrepresented groups to careers in engineering.

NSF / Structural Materials and Mechanics [94761]
Deadline: 02/15/09
Synopsis: The SMM program supports fundamental research on the behavior of civil infrastructure materials and the mechanics of structural components in the built environment.

Objectives: Of particular interest is research on structural components consisting of natural and synthetic materials, their response to mechanical, hydrothermal and time-dependent loads, and their impact on life-cycle performance and sustainable development of the civil infrastructure.

NSF / Materials and Surface Engineering [95033]
Deadline: 02/15/09
Synopsis: The MSE program supports fundamental research leading to a better understanding of the effect of microstructure, surfaces and coatings on the properties and performance of engineering materials, and the ultimate con-
An Eye on Funding (Continued from page 7)

trol of these properties through material design.

Objectives: Of particular interest is materials service under conditions such as impact, temperature extremes, corrosion, oxidation, and friction. The program also supports research leading to biomedical applications of materials. Funded research includes both experimental and theoretical approaches.

NSF / Engineering Design and Innovation [95032]
Deadline: 02/15/09
Synopsis: The EDI program supports research leading to design theory and tools and methods that enable implementation of the principles of design theory in the practice of design across the full spectrum of engineered products.

Objectives: The program focus is on gaining an understanding of the basic processes and phenomena underlying a holistic, life-cycle view of design. The program funds advances in basic design theory, tools and software to implement design theory, and new design methods that span multiple domains, such as design for the environment and for manufacturability.

NSF / Control Systems Program [95034]
Deadline: 02/15/09
Synopsis: The CS program supports innovative research on control theory and control technology driven by real life applications.

Objectives: The program accepts proposals on transformative research in established topic areas such as model-based control. However, the program emphasis is on paradigm-shifting ideas for control strategies that may be inspired by nature, unconventional applications, and the combined role of feedback and uncertainty in systems that incorporate large numbers of sensors and actuators. New sensor and actuator concepts that integrate feedback and signal processing to achieve a sensing or actuation objective are also funded.

NSF / Geotechnical Engineering [95038]
Deadline: 02/15/09
Synopsis: The GTE program supports fundamental research on geotechnical aspects of the civil infrastructure, such as foundation engineering, site characterization, underground construction, tunneling, drilling, and mining engineering.

Objectives: Also included is research on geoenvironmental engineering, geotechnical earthquake engineering that does not involve the use of George E. Brown, Jr. Network for Earthquake Engineering Simulation (NEES) facilities, and geohazards such as tsunamis, landslides, mudslides and debris flows, scour, and erosion. Emphasis is on issues of sustainability and resilience.

Oak Ridge Institute for Science and Education / DOE Faculty and Student Teams Program at Oak Ridge National Laboratory [95647]
Deadline: 02/01/09
Synopsis: The sponsor provides opportunities to participate in research in a broad range of science and engineering activities related to basic sciences, energy, and the environment. Faculty and two to three undergraduate students must participate together.

Objectives: Eligible disciplines are: Computer Science; Earth, Environmental, and Marine Sciences; Engineering; Life, Health, and Medical Sciences; Mathematics; and Physical Sciences.

NSF / Mechanics of Materials [95039]
Deadline: 02/15/09
Synopsis: The MOM program supports fundamental research on solid mechanics including theoretical, analytical, and computational approaches, model-based simulation, and the development of constitutive models.

Objectives: It also supports research to link the nanostructure and microstructure mechanical behavior of materials across time and length scales, including experimental and analytical research on deformation, fatigue, and fracture, and the underlying molecular and microstructural states.

NSF / Cyber-Physical Systems [99574]
Deadline: 02/27/09
Synopsis: The CPS program aims to reveal cross-cutting fundamental scientific and engineering principles that underpin the integration of cyber and physical elements across all application sectors. The CPS program will also support the development of methods and tools as well as hardware and software components, run-time substrates, and systems based upon these principles to expedite and accelerate the realization of cyber-physical systems in a wide range of applications. Furthermore, the program aims to create a new research and education community committed to the study and application of cyber-physical system innovations, through the establishment of a CPS Virtual Organization (CPS-VO) and regular PI meetings.

Objectives: The CPS program is seeking proposals that address research challenges in three CPS themes: Foundations; Methods and Tools; and Components, Run-time Substrates, and Systems. Foundations research will develop new scientific and engineering principles, algorithms, models, and theories for the analysis and design of cyber-physical systems. Research on Methods and Tools will bridge the gaps between approaches to the cyber and physical elements of systems through innovations such as novel support for multiple views, new programming languages, and algorithms for reasoning about and formally verifying properties of complex integrations of cyber and physical resources. The third CPS theme concerns new hardware and software Components, Run-time Substrates (infrastructure and platforms), and (engineered) Systems motivated by grand challenge applications. Three sizes of research and education projects will be considered: Small Projects are individual or small-team ef-
forts that focus on one or more of the three defined CPS themes. Funding for Small Projects will be provided at levels of up to $200,000/year for up to three years; Medium Projects also span one or more CPS themes and may include one or more PIs and a research team of students and/or postdocs. Funding for Medium Projects will be provided at levels up to $500,000/year for up to three years; and Large Projects are multi-investigator projects involving teams of researchers and their students and/or postdocs representing the same or multiple disciplines in computer science, engineering, and physical application domains, who together address a coherent set of research issues that either cut across multiple CPS themes or that explore in great depth a particular theme. Funding for Large Projects will be provided at levels up to $1,000,000/year for up to five years.

**NSF / CubeSat-based Science Missions for Space Weather and Atmospheric Research [96604]**

**Deadline:** 02/10/09

**Synopsis:** The goal of the program is to execute small scientific satellite missions to advance space weather and atmospheric research. Equally important, it will provide essential opportunities to train the next generation of experimental space scientists and aerospace engineers. The program will support the development, construction, launch, and operation of small satellite systems as well as the distribution and analysis of the science data from the missions.

**Objectives:** Awards funded through this solicitation are for scientific missions to include design, construction, testing and operation of satellites as well as data distribution and scientific analysis. To be considered for an award, proposals must describe complete science missions, including all of the above components. Leverage of other funding sources is allowed and encouraged. In the case that only partial funding for a mission is sought through this solicitation, a complete description of the mission is still required for the proposal and the proposal will be evaluated based on the full mission. The forming of appropriate collaborations that cover all the necessary areas of expertise within space science as well as aerospace engineering is also strongly encouraged. Emphasis of this solicitation is on space weather research but proposals for missions within other areas of atmospheric sciences will also be considered.

**NOAA / A North Atlantic Regional Cooperative Institute [99710]**

**Deadline:** 01/05/09

**Synopsis:** The sponsor invites applications for the establishment of a cooperative institute (CI) that will focus on the themes of (1) Ecosystem Forecasting, (2) Ecosystem Monitoring, (3) Ecosystem Management, Protection and Restoration of Resources, (4) Sustained Ocean Observations and (5) Climate Research.

**Objectives:** The purpose of this announcement is to invite the submission of proposals to establish a North Atlantic Regional CI which will operate along the eastern U.S. Continental Shelf frontier to conduct exploration, research, and technology development. The new CI will perform the following types of research activities: Research on the linkages among productivity, fish and fisheries, pollution, climate change, and ecosystem health; Research to improve the integration and availability of ocean observations across spatial scales, from global to regional and local; Research to distinguish marine resource changes due to human impacts from those resulting from natural forcing, including climate variability and change; Development and application of new tools and approaches for monitoring ecosystem health and forecasting ecosystem change; Examination of the expected increases in socioeconomic benefits accrued from a better understanding of the effects of climate change, food webs, physical-chemical coupling, and ecosystem production dynamics; Collaborative research and education leading to closer linkages between scientific assessments and management actions.

**NOAA / Cooperative Institute to Investigate the Use of Satellite Applications for Regional and Global-Scale Forecast Systems [99707]**

**Deadline:** 01/05/09

**Synopsis:** The sponsor invites applications for a Cooperative Institute (CI) that will collaborate with NOAA scientists to improve weather forecast and warning accuracy; contribute to improvements in water resource forecasting capabilities; provide integrated weather information to meet future aviation and surface transportation needs; advance satellite sensor technology; develop high-performance computing, visualization, and scientific workstation technologies; and enhance environmental literacy to improve understanding. The CI would also conduct research needed to develop multiscale (global to local) data assimilation techniques with a strong satellite data emphasis, and provide the scientific expertise and the necessary computing infrastructure to help NOAA move forward on these issues.

**Objectives:** NOAA has identified five research themes that will address identified needs within the NOAA Weather and Water Goal that would benefit from collaborations with the CI. I. Satellite algorithm development, training and education--Research conducted under this theme is associated with development of satellite-based algorithms for weather forecasting, with emphasis on regional and mesoscale meteorological phenomena. This work includes applications of basic satellite products such as feature track winds, thermodynamic retrievals, sea surface temperature, etc., in combination with model analyses and forecasts, as well as in situ and other remote sensing observations. Applications can be for current or future satellites. Also under this theme, satellite
and related training material will be developed and delivered to a wide variety of users, with emphasis on operational forecasters. A variety of techniques can be used, including distance learning methods, Web-based demonstration projects and instructor-led training.

II. Regional to Global Scale Modeling Systems. Research conducted under this theme is associated with the improvement of weather/climate models (minutes to months) that simulate and predict changes in the Earth system. Topics include atmospheric and ocean dynamics, radiative forcing, clouds and moist convection, land surface modeling, hydrology, and coupled modeling of the earth system.

III. Data Assimilation. Research conducted under this theme will develop and improve techniques to assimilate environmental observations, including satellite, terrestrial, oceanic, and biological observations, to produce the best estimate of the environmental state at the time of the observations for use in analysis, modeling, and prediction activities associated with weather/climate predications (minutes to months) and analysis.

IV. Climate-Weather Processes. Research conducted under this theme will focus on using numerical models and environmental data, including satellite observations, to understand processes that are important to creating environmental changes on weather and short-term climate timescales (minutes to months) and the two-way interactions between weather systems and regional climate.

V. Data Distribution. Research conducted under this theme will focus on identifying effective and efficient methods of quickly distributing and displaying very large sets of environmental and model data using data networks, using web map services, data compression algorithms, and other techniques.

**NSF / Deep Underground Science and Engineering Laboratory [99674]**

**Deadline:** 01/09/09  
**Synopsis:** This solicitation invites proposals for development of technical designs for specific experiments to be located in the Deep Underground Science and Engineering Laboratory (DUSEL), currently under consideration by the sponsor for development at the Homestake Mine in South Dakota. The funds awarded for the proposals selected in S4 will allow the proposing team to complete the design phase(s) through Preliminary Design or beyond within the three year award period.

**Objectives:** Proposals to develop project plans at DUSEL submitted in response to this solicitation should include plans to develop designs for all phases of the proposed experiments. Specifically, in addition to addressing the two National Science Board-approved review criteria of intellectual merit of the scientific and/or engineering basis for the experiment and the quality of the broader impacts proposed, proposals should address the plans for the development of the design of the experiment through the level of the Preliminary Design or beyond, as defined in the LFM. The anticipated lifetime of the proposed experiment should be included, as well as a timeline of the proposed design work. Any existing preliminary information on project cost, risk analysis and its mitigation, environmental, health and safety considerations, or other topics relevant to the mounting of the experiment should be included as well. Potential for possible future upgrades of the experiment and expansion of its scientific goals, e.g., increasing sensitivity to certain phenomena, may also be included as part of the intellectual justification for the experiment. Proposed experiments are expected to be at the leading edge of research in their field of inquiry.

**EPA / Integrated Design, Modeling, and Monitoring of Geologic Sequestration of Anthropogenic Carbon Dioxide to Safeguard Sources of Drinking Water [99627]**

**Deadline:** 01/06/09  
**Synopsis:** The sponsor is seeking applications to conduct research to support the development of sound risk management strategies for the underground injection of anthropogenic carbon dioxide (CO2) in candidate subsurface geologic formations. To further the scientific understanding of this practice, research is needed to investigate how integrating approaches in design, siting, modeling and monitoring of CO2 in the subsurface can provide safe and effective storage, mitigate potential risks, and prevent endangerment of existing and potential sources of drinking water.

**Objectives:** The goals of this research solicitation are (1) to develop scientific support for design strategies that maximize the efficiency and decrease the risk of GS projects; (2) improve monitoring and modeling techniques that can be used to advance risk assessment; and (3) design risk management approaches for GS to prevent potential impacts to sources of drinking water, public health, and the environment.

Applications must propose research that does one or more of the following: Analyze interrelationships between injection project design and siting...
An Eye on Funding (Continued from page 10)

strategies and potential impacts on the quality and availability of underground sources of drinking water (USDWs) with a focus on regional-scale tools for protecting public health and safeguarding the environment; Develop integrated site characterization, monitoring and modeling techniques important for tracking the location of the CO2 plume, mobilized constituents, and associated areas of elevated pressure; and Advance methodologies for assessing and managing potential risks associated with GS with an emphasis on preventing endangerment of USDWs.

**NSF / Sensors and Sensing Systems [91007]**
**Deadline:** 02/15/09
**Synopsis:** The SSS program supports research on methods to acquire and use sensor data on civil, mechanical, and manufacturing systems.
**Objectives:** The program supports fundamental research on advanced actuators, sensors, wireless sensor networks, new materials and concepts for sensing applications, power generation and energy supply for sensors and sensing systems. Also of interest is research on the strategic incorporation of sensors into both natural and engineered systems to achieve effective data acquisition and on processing and transmission of sensor data.

**NSF / Control Systems Program [95034]**
**Deadline:** 02/15/09
**Synopsis:** The CS program supports innovative research on control theory and control technology driven by real life applications.
**Objectives:** The program accepts proposals on transformative research in established topic areas such as model-based control. However, the program emphasis is on paradigm-shifting ideas for control strategies that may be inspired by nature, unconventional applications, and the combined role of feedback and uncertainty in systems that incorporate large numbers of sensors and actuators. New sensor and actuator concepts that integrate feedback and signal processing to achieve a sensing or actuation objective are also funded.

**NSF / Operations Research Program [93835]**
**Deadline:** 02/15/09
**Synopsis:** The OR program supports research leading to advances in the science of models and algorithms that are applicable to the operation and optimization of large-scale systems.
**Objectives:** Topic areas include advances in the theory of optimization and heuristic approaches to NP-hard optimization problems, simulation and stochastic modeling, and on the development of novel, enterprise-wide models requiring advanced high-end computing.

**NSF / Physiological and Structural Systems [91741]**
**Deadline:** 01/12/09, 07/12/09
**Synopsis:** 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 affect organismal performance and interactions during routine changing, or stressful abiotic environmental conditions. The program seeks proposals aimed at understanding how interactions among genetic, biochemical, morphological and physiological processes result in integrated organismal responses. Increasing emphasis is placed on understanding how and why such interactions result in emergent properties such as adaptability, plasticity, and robustness (i.e., both resistance and resilience). Special emphasis is placed on projects that adopt systems approaches, including quantitative and
An Eye on Funding (Continued from page 11)

qualitative analysis, theoretical models and prediction to understand the dynamics and control of organismal responses to the environment from near term to evolutionary time frames.

**NSF / Sensors and Sensing Systems [91007]**

**Deadline:** 02/15/09  
**Synopsis:** The SSS program supports research on methods to acquire and use sensor data on civil, mechanical, and manufacturing systems.  
**Objectives:** The program supports fundamental research on advanced actuators, sensors, wireless sensor networks, new materials and concepts for sensing applications, power generation and energy supply for sensors and sensing systems. Also of interest is research on the strategic incorporation of sensors into both natural and engineered systems to achieve effective data acquisition and on processing and transmission of sensor data.

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

**Deadline:** 02/12/09  
**Synopsis:** The primary purpose of the Strategic Technologies for Cyberinfrastructure Program (STCI) is 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.  
**Objectives:** 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 / Discovery Research K-12 [89596]**

**Deadline:** 01/08/09  
**Synopsis:** The Discovery Research K-12 (DR-K12) program seeks to enable significant advances in preK-12 student and teacher learning of the STEM disciplines through the development, implementation, and study of resources, models, and technologies for use by students, teachers, and policymakers. Activities funded under this solicitation begin with a research question or hypothesis about effective preK-12 STEM learning and teaching; develop, adapt, or study innovative resources, models, or technologies; and demonstrate if, how, for whom, and why their implementation affects learning.  
**Objectives:** DR-K12 invites projects that meet a variety of educational needs, from those that address immediate and pressing challenges facing preK-12 STEM education to those that anticipate opportunities for the future. DR-K12 encourages proposals that challenge existing assumptions about learning and teaching within or across STEM fields, envision needs of learners in 10-15 years, and consider new and innovative ways to reach students and teachers. All projects should be informed by current research and broaden the boundaries of schools and disciplines. DR-K12 accepts research and development, exploratory, and synthesis projects, as well as conferences and workshops related to the mission of the DR-K12 program. Proposals for four types of projects are invited: research and development projects, exploratory projects, synthesis projects, and conferences/workshops. All projects are expected to produce publications. Research and development projects are likely to have an iterative research and development design. For example, projects that seek to study a learning or design question through the development of new resources, models, or technologies may focus on design, early development, and proof-of-concept testing in the first stage. Research and evaluation are likely to be formative in nature, providing information needed for the redesign of the resources, models, or technologies. Small, rigorous efficacy studies of student or teacher learning during this stage may be appropriate. Research proposals that examine the implementation and effects of previously developed resources, models and/or tools are likely to study larger populations of students or teachers in more diverse settings. The proposal should lay out the hypotheses about STEM learning or about materials design that are being tested and the project's stages, including the appropriate research questions for each stage.  
Exploratory projects are not simply smaller-scale full research and development projects. Their purpose is to allow researchers and developers an opportunity to undertake the preliminary work needed to clarify constructs, assemble theoretical or conceptual foundations, or perform analytic or empirical preparatory research about learning issues or characteristics of resources, models, or technologies. These explorations should produce empirical evidence that forms the basis of anticipated further research and development. Exploratory projects test the reasonableness of ideas and feasibility of methods and must begin with a research question or hypothesis about preK-12 STEM learning and teaching. Synthesis projects are small grants for the synthesis of existing knowledge on a topic of critical importance to preK-12 STEM education. Synthesis proposals should identify areas where the knowledge base is sufficiently robust to support strong scientific claims, identify areas of importance to education research and development, and propose rigorous methods for synthesizing findings and drawing conclusions from a range of relevant literatures. Proposals should also identify and defend the criteria to be used for including or excluding studies. Workshops and other meetings may be included as part of the synthesis process.
Conferences and workshops related to the mission of the DR-K12 program are supported. Budgets are expected to be consistent with the duration of the event and the number of participants, but the cost will normally not exceed a total of $100,000 for up to two years. Conferences or workshops should be well-focused and related to the goals of the program. Proposals may be submitted at any time, generally at least one year in advance of when the conference would be held. Proposers should contact a program officer before submitting proposals for such events. All conference proposals should provide for an evaluation of the impact of the conference done 12 months after the conference is completed.

SOCIAL / BEHAVIORAL

American Sociological Association, Teaching Enhancement Fund Small Grants Program [64933]

Deadline: 02/02/09

Synopsis: The sponsor provides support to an individual, a department, a program, or a committee of a state/regional association for projects that extend the quality of teaching within the discipline of sociology in the United States and Canada.

Objectives: These grants are intended to support projects that extend the quality of teaching sociology in the U.S. and Canada. The principal criteria for the award are that the project is likely to: enhance the teaching of sociology and student learning, and serve as a seed-project that will continue to have an impact in months and years to come.

NSF / Developmental and Learning Sciences (DLS)--Individual Investigator Research Projects [63399]

Deadline: 01/15/09, 07/15/09

Synopsis: DLS supports fundamental research that increases our understanding of cognitive, linguistic, social, cultural, and biological processes related to children's and adolescents' development and learning. Research supported by this program will add to our basic knowledge of how people learn and the underlying developmental processes that support learning, with the objective of leading to better educated children and adolescents who grow up to take productive roles as workers and as citizens.

Objectives: Among the many research topics supported by DLS are: developmental cognitive neuroscience; development of higher-order cognitive processes; transfer of knowledge from one domain or situation to another; use of molecular genetics to study continuities and discontinuities in development; development of peer relations and family interactions; multiple influences on development, including the impact of family, school, community, social institutions, and the media; adolescents’ preparation for entry into the workforce; cross-cultural research on development and learning; and the role of cultural influences and demographic characteristics on development. Additional priorities include research that: incorporates multidisciplinary, multi-method, microgenetic, and longitudinal approaches; develops new methods, models, and theories for studying learning and development; and integrates different processes (e.g., learning, memory, emotion), levels of analysis (e.g., behavioral, social, neural), and time scales (e.g. infancy, middle childhood, adolescence).

NSF / Discovery Research K-12 (DR-K12) [89596]

Deadline: 01/08/09

Synopsis: The Discovery Research K-12 (DR-K12) program seeks to enable significant advances in preK-12 student and teacher learning of the STEM disciplines through the development, implementation, and study of resources, models, and technologies for use by students, teachers, and policymakers. Activities funded under this solicitation begin with a research question or hypothesis about effective preK-12 STEM learning and teaching; develop, adapt, or study innovative resources, models, or technologies; and demonstrate if, how, for whom, and why their implementation affects learning.

Objectives: DR-K12 encourages proposals that challenge existing assumptions about learning and teaching within or across STEM fields, envision needs of learners in 10-15 years, and consider new and innovative ways to reach students and teachers. All projects should be informed by current research and broaden the boundaries of schools and disciplines. DR-K12 accepts research and development, exploratory, and synthesis projects, as well as conferences and workshops related to the mission of the DR-K12 program. Proposals for four types of projects are invited: research and development projects, exploratory projects, synthesis projects, and conferences/workshops. All projects are expected to produce publications.

Research and development projects are likely to have an iterative research and development design. Exploratory projects are not simply smaller-scale full research and development projects. Synthesis projects are small grants for the synthesis of existing knowledge on a topic of critical importance to preK-12 STEM education. Conferences and workshops related to the mission of the DR-K12 program are supported.
What’s on our Web Site — Guidelines for External Grants

SUNY Oswego prides itself on being a learning-centered institution, whose foundation is excellent teaching scholars. The most important faculty responsibility is to our students’ learning. We expect our faculty members to be dedicated to effective teaching and consistently engaged in scholarly and/or creative work. Because faculty members’ work is often advanced through external grants and reassigned time, the following guidelines were developed in support of the balance between teaching and research on our campus.

1. Because our primary mission is teaching, faculty members who “buy out” some of their teaching time with external grants are still expected to devote some of their work time to students in the classroom.

SUNY Oswego is committed to student learning and high quality teaching. We recruit, retain, and promote faculty members who are good teachers and who want to be involved in promoting student learning within and beyond the classroom. It is consistent with that philosophy to expect faculty members will teach regularly. Faculty members may be occasionally released fulltime from regular teaching through an agreement with the dean that the significance of the grant activity justifies absence from the classroom (though not from the expectation that they will continue to interact with students outside the classroom and contribute service in other ways). In most cases, a full-time release would not be a continuing situation, but rather might occur occasionally.

An exception to this policy on regular teaching would be granted for any person hired to be a full-time researcher. Even in this situation, faculty members are expected to interact with students and to participate in the life of the university.

2. Faculty members are encouraged to include students’ active participation in their research grants. Whenever possible, resources for student opportunities should be written into grant proposals.

This is important because engagement in undergraduate/graduate scholarly and creative work is a goal of the institution. This practice will help expand opportunities for students to have scholarly experiences, will promote student-faculty interactions, and will contribute to the greater success of our students.

3. When faculty members are “buying out” their time from teaching to do research, they will request 10% of their annual salary for each course reassignment requested.

This guideline is important to the institution because the College is continuing to pay the faculty member’s salary. This percentage recognizes that a salary pays not only for teaching but also for regular research and service responsibilities. All needed funding to hire adjuncts for the release time of the grant will be transferred from the Provost’s Office to the dean/department and can be used as a grant match.

By recognizing the true expense of faculty time in each grant, not just the cost of an adjunct replacement, we can create a pool of funding in support of a variety of important projects across the institution, such as new faculty start-up, grant matches, campus grant funding, and more assistantships. It is also important to note that indirect charges are returned to the College based on the salary dollars requested. If we ask only for adjunct dollars in external grants, the indirects returned to the College (and ultimately to the PI, department, and dean) are decreased.

Exceptions to this policy must be approved by the provost and director of ORSP several days before the budget is submitted for signatures by officers of the institution.
U.S. Great Basin lakes, and allow evaluation of paleocompositional proxies. Biochemistry and inorganic chemistry research projects focus on metal-insulin hexamers and the manufacture of novel metal-complexing ligands, where precise quantification of Cu, Zn and other transition metals is essential. Studies linking geology, environmental and ecological chemistry, and plant biology will synergistically examine metal transport linked to specific lithological substrates (e.g., plants that are found specifically on soils of ultramafic rocks) and to contaminants in soils and wetland sediments. Chemical ecology research focuses on incorporation of Mn and Zn in body parts of parasitic wasps. Finally, Great Lakes region limnological research emphasizes identification of anthropogenic trace element signatures in sediments.

**Broader Impacts**
This proposal continues a trend fostered by recent hires in the natural sciences toward collaborations interdisciplinary efforts. The primary user base for the instrumentation includes three female scientists and three faculty entering their first academic positions. The instrumentation will be an essential component of at least eleven mid/upper-level undergraduate courses in Chemistry, Geology and Biology, many of which are degree requirements. It will allow for the application of new, more interdisciplinary approaches to the instruction of current offerings. The equipment will give undergraduate students far greater possibilities for research thesis projects (required in Geology and Chemistry), and would make them better able to compete professionally and for positions in top graduate programs. The plan for instrument upkeep will involve students in the Chemistry M.S. program, further increasing the scope of their research training.

Written by Paul Tomascak
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) 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  
10) Review of final application  
11) Obtain administrative approvals  
12) Submit proposals by mail or electronically per sponsor specifications  
13) Negotiate grant awards and contracts  
14) 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.

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