A Grant Writing Workshop was held in the CELT (Center for Learning & Teaching) conference room in Penfield Library, Friday, January 20, 2006 from 9:30 a.m. until 3:30 p.m. as part of Winter Breakout 2006. Sponsored by: (CELT), The Office of the Provost, and Campus Technology Services (CTS), refreshments provided by Auxiliary Services.

Local campus grants were discussed.
- SFCCG (Student/Faculty Collaborative Challenge Grants) support true student/faculty collaborations and are due February 2, 2006.
- SCAC (Scholarly & Creative Activity) grants support faculty and staff in the development of their research or creative activity programs and are due on February 6, 2006.
- CI (Course Innovation) grants support the creation of new courses needed to keep our disciplinary, interdisciplinary and general education programs up-to-date in content, quality and delivery and are due March 6, 2006.

Major parts of a proposal were discussed;
- Cover Sheet—administrative and contact data.
- TOC
- Abstract—write this last. This is essential to ‘hooking’ the reviewer and will determine the interest the person will have to continue reading your proposal.
- Statement of Condition/Problem—support the need. What is your motivation to do this project?
- Goals—how your project will remediate and/or address the current condition.

(Continued on page 17)
ARTS

Rothschild (Judith) Foundation
Deadline: 04/15/06
Scope: Supports the presentation, preservation, or interpretation of painting, sculpture, and photography of the highest artistic merit by lesser known artists who have died after 9/12/76. Funds have supported exhibitions; acquisitions; development of public programs, films, or videos; publications; scholarly and critical pursuits; and conservation, cataloguing, and safekeeping of works of art.
Funding: Awards are up to $35,000.

Shelley and Donald Rubin Fd.
Deadline: Open
Scope: Supports inclusion of art from non-Western European cultures into the mainstream of scholarship and display. Foundation also interested in the study of the relationship between art, culture and humanity, in particular, the care, preservation, study and public display of the ancient art of the Himalaya. In addition, supports research, action and other projects designed to reveal & understand barriers to the full access of all people to American society and the larger international community.
Funding: The range of funding is between $5,000 - $60,000 maximum, with most grants falling between $5,000 and $15,000. Funding will not be provided for the following types of projects: grants to individuals, building funds, endowment funds, general support, funding for the delivery of direct services, scholarships, fellowships, and fund-raising activities.

Research Assistance Grants, Sinfonia Foundation [00495]
Deadline: 03/01/06
Scope: Grants of up to $1,000 each support individuals conducting scholarly research related to American music or to music in America. Eligible applicants must show evidence of previous successful writing and research, or show evidence of unusual knowledge or competence in the field to be researched.

Graham (Elizabeth Firestone) Foundation [48257]
Deadline: 03/15/06
Scope: Support is provided to foster awareness and appreciation of contemporary visual art, particularly through catalogues and other publications that document art produced by emerging or under-recognized artists.
Funding: Grant amounts typically range from $5,000 to $20,000.
Objectives: The foundation is interested in projects that attempt to bring together artists and the community, support artists from marginalized populations, and provide exposure to contemporary art where it may not otherwise be seen. Funding is available for: exhibition catalogues and brochures; publications related to the grantee organization and its programs or collections; exhibitions and installations (on or off site); visiting artist programs, and film projects in their final completion phase.

Grants for Public Art Projects, Gunk Foundation
Deadline: 04/30/06
Scope: Supports art projects that are displayed in the spaces of ordinary life, as opposed to museums and galleries. Projects may include art that is shown in spaces of public transportation, city streets, or work places. Priority is for non-traditional and thought-provoking public work.
Funding: Awards range from $1,000 to $5,000 each. Of 200 applications received each year, the foundation normally makes about six awards.

EDUCATION

American Mobility in Higher Education, US DOE [86204]
Deadline: 04/17/06
Scope: Support is provided to provide grants or enter into cooperative agreements to improve postsecondary education opportunities by focusing on problem areas or improvement approaches in postsecondary education.
Funding: The sponsor has requested $300,000 for this program for FY 2006. The actual level of funding, if any, depends on final congressional action. However, we are inviting applications to allow enough time to complete the grant process if Congress appropriates funds for this program. Awards are estimated to range from $25,000 to $30,000 for the first year only; and the estimated average size of awards is $30,000 for the first year only. The sponsor expects to fund ten awards for a project period of up to forty-eight months.
Objectives: This priority is designed to support the formation of educational consortia of American, Canadian, and Mexican institutions to encourage cooperation in the coordination of curricula, the exchange of students, and the opening of educational opportunities among the United States, Canada, and Mexico. The invitational priority is issued in cooperation with Canada and Mexico. These awards support only the participation of U.S. institutions and students in these consortia of American, Canadian, and Mexican institutions. Canadian and Mexican institutions participating in any consortium proposal responding to the invitational priority may apply, respectively, to Human Resources and Skills Development Canada (HRSDC) or the Mexican Secretariat for Public Education (SEP), for additional funding under separate but parallel Canadian and Mexican competitions.

Robert Noyce Scholarship Program, NSF [72754]
Deadline: 04/03/06
Scope: The sponsor seeks to encourage talented science, technology, engineer-
An Eye on Funding (continued)

ing, and mathematics majors and professionals to become K-12 mathematics and science teachers. The program provides funds to institutions of higher education to support scholarships, stipends, and programs for students who commit to teaching in high need K-12 schools.

Funding: Scholarship amounts must be at least $7,500 per year but no more than $10,000 per year; however, no individual may receive a scholarship for any year that exceeds the yearly cost of attendance. Stipends for STEM professionals may be up to $10,000. Up to fifteen percent of the proposed budget may be allocated for administrative and program costs associated with recruiting and preparing the teachers, providing support for the teachers as they begin teaching, and conducting monitoring and evaluation activities. Award durations may be three to four years.

Objectives: The sponsor awards grants to institutions of higher education (or consortia of such institutions) to provide scholarships for juniors and seniors who are majoring in science, technology, engineering, or mathematics (STEM) and stipends for STEM professionals seeking to become teachers. A goal of the program is to recruit individuals with strong STEM backgrounds who might otherwise not have considered a career in K-12 teaching. Proposals may address either the scholarship or the stipend program or both programs. Program activities for scholarship and stipend recipients may include serving as resources for science and mathematics instruction in K-12 classrooms.

Research Grants Program, American Educational Research Association [72520]
Deadline: 03/01/06
Scope: The sponsor awards research grants intended to: stimulate research on issues related to U.S. education policy and practice using NCES and NSF data sets; improve the educational research community's firsthand knowledge of the range of data available at the two agencies and how to use them; and increase the number of educational researchers using the data sets.

Funding: Awards for Research Grants are up to $20,000 for one-year projects, or up to $35,000 for two-year projects.

Objectives: Research topics may cover a wide range of policy- or practice-related issues that include but are not limited to: school persistence and career entry; teachers and teaching, including supply, quality, and demand; policies and practices related to student achievement and assessment; policies and practices that influence student and parental attitudes; contextual factors (individual, curricular, and school related) in education; education in middle schools; educational participation and persistence (kindergarten through graduate school); at-risk students; early childhood education; US education in an international context; school finance; materials (curriculum) development, research and informal science education; undergraduate science, engineering, and mathematics education; the supply (pipeline) of students taking mathematics and science courses from K-12; research career development; the quality of educational institutions; and methodological studies. Researchers must include the analysis of data from at least one NSF or NCES data set in the proposed study. Additional large-scale nationally representative data sets may be used in conjunction with the obligatory NSF or NCES data set. If international data sets are used, the study must include U.S. education.

National Endowment for Financial Education [71994]
Deadline: 04/04/06, 08/01/06 for letters of intent.
Scope: The sponsor is dedicated to the mission of helping Americans acquire the information and gain the skills necessary to take control of their financial lives. The sponsor accomplishes its mission by partnering with other concerned organizations and individuals to provide financial education to young people; underserved segments of society whose financial concerns are not being addressed by others, or who have special needs; and the general public. The sponsor awards grants each year in varying amounts.

Funding: The average grant is in the range of $60,750, and the median grant in the range of $51,216.

Objectives: The sponsor's outreach efforts are structured around four distinct action areas:

Education Programs: Programs that focus on the general public and youth. Collaborative Programs: Programs in which the foundation partners with other nonprofit organizations to develop financial materials for segments of the public in special circumstances. Multimedia Access: Basic personal finance information developed by the sponsor and distributed to the general public through various channels, such as the Foundation's Web site. Innovative Thinking: Programs that support Research and Strategy activities, the sponsor's Fellows Program, and the sponsor's Grants Program. All of the sponsor's activities, including those funded by the Grants Program, must bear a clear and relevant link to one or more of the sponsor's initiatives: to empower America's citizens to achieve their life goals through the prudent and informed management of their financial resources; to help instill in all Americans the commitment to save toward the realization of their financial goals and their future financial security; to assist consumers in understanding and actively participating in the management of their investments; to better prepare all Americans for their retirement years; to encourage in the nation's young people an understanding of personal financial planning and the acquisition of sound money management skills; and to effect the financial education of individuals in special circumstances and to support the development and delivery of programs and materials related to their unique needs.
An Eye on Funding (continued from page 3)

**HEALTH & WELLNESS**

**Healthy Eating Research: Building Evidence to Prevent Childhood Obesity—Round 1: School Food Policies and Environments, Robert Wood Johnson Foundation [86379]**

**Deadline:** 03/07/06

**Scope:** The sponsor offers support for research to identify, analyze and evaluate environmental and policy strategies that can promote healthy eating among children and prevent childhood obesity. Special emphasis will be given to research projects that will benefit children in the low-income and racial/ethnic populations at highest risk for obesity. This first round of funding focuses on school food policies and environments.

**Funding:** The sponsor intends to commit approximately $3.0 million to fund awards under this announcement for two types of research grants: Studies to identify and/or evaluate promising school food environment and policy changes (twelve to eighteen-month awards of up to $100,000, and eighteen to thirty-six-month awards of up to $400,000); and Analyses of macro-level policy or system determinants of school food environments and policies (twelve to eighteen-month awards of up to $75,000). Grant funds may be used for project staff salaries, training, consultant fees, data collection and analysis, dataset procurement, meeting costs, project related travel and other direct expenses essential to the proposed project, including a limited amount of equipment. However, with the exception of funds for low-cost experimental studies, it is expected that grant funds awarded in this round of funding will be used to cover the costs of evaluation, and not the costs of the school policy or environmental changes per se (e.g., foods, training and implementation efforts). Additional in-kind or external funding is welcome and should be described in the proposal.

**Objectives:** The goals of Healthy Eating Research are to: establish a strong research base on policy and environmental determinants of healthy eating and body weight in children, and effective policy and environmental strategies for curbing childhood obesity; build a vibrant, multidisciplinary field of research and a diverse network of researchers; and ensure that findings are effectively communicated to inform policy debates and guide the development of effective solutions. This first round of funding focuses on school food policies and environments. The program aims to explore the potential influence of changes in school food policies and environments and take advantage of the opportunity to learn from the wave of state and local school policy and environmental changes that are currently under way. The program also seeks to identify macro-level policy approaches to improving school food environments and dietary intake in order to curb obesity levels. The program’s overall aim is to provide key decision and policy-makers in many sectors with empirical evidence to guide and accelerate effective action. The sponsor will fund rigorous, policy-relevant research grants in two major categories: small- and large-scale studies to identify and/or evaluate promising school food environment and policy changes; and analyses of macro-level policy or system determinants of school food environments and policies. Grants in both categories should focus on identifying policy and environmental strategies in schools and, if appropriate, in the vicinities immediately surrounding them. They should demonstrate potential to improve healthy eating and help children achieve the energy balance required for a healthy body weight, especially in the low-income and racial/ethnic populations at highest risk for obesity. Target populations can include children in grades K-12 from elementary, middle or high schools.

**Basic and Translational Research in Emotion, NIH [PA-03-169]**

**Deadline:** 06/01/06

**Scope:** The National Institute of Mental Health, National Institute on Aging, National Institute on Alcohol Abuse and Alcoholism, National Cancer Institute, National Institute of Child Health and Human Development, National Institute on Drug Abuse, and the National Institute of Neurological Disorders and Stroke invite research grant applications to expand basic and translational research on the processes and mechanisms involved in the experience and expression of emotion.

**Objectives:** The study of emotion encompasses a wide range of psychological, social, cognitive, developmental, and biological phenomena. Central and peripheral nervous system (CNS, PNS) activity in the origins, expression, regulation and modulation of emotion are important objects of study, as is the contribution of emotional and motivational systems to cognitive faculties such as perception, attention, learning, memory, and motor control. The study of emotion includes investigations of overt behaviors (such as aggression or withdrawal), interpersonal relationships, communication and decision making, and the environmental circumstances and experiences that shape and elicit emotions. Emotion research can also include the study of licit and illicit psychoactive substances that alter mood states, and conversely, the study of how emotional and mood states can predispose to, or modulate the effects of, pain or alcohol and psychoactive substances. This PA also encourages research on emotional reactions in the context of the diagnosis and treatment of cancer, and the study of emotion as it relates to this disease or increased risk of this disease, including outcomes such as social relationships, health care provider relationships, adherence and others. These investigations may use human or other animals.
In addition to these opportunities, our student SCAC awards and Student-Faculty Collaboration Challenge Grants remain in place as usual. See the web site for current information on these and other opportunities. Please contact Michael Ameigh, Assistant Provost, if you require additional information.

Campus Grants Timeline

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

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An Eye on Funding (Continued from page 4)

HUMANITIES

Major Grants, NY Council for the Humanities [02050]
Deadline: 03/31/06, 11/01/06
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 catalogs with significant humanities scholarship; museum docent scripts or talking points 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 interdisciplinary areas such as folklore, women’s studies, and American studies also are considered humanities disciplines.

Ethics and Excellence in Journalism Foundation
Deadline: 05/15/06, 11/15/06
Scope: The Ethics and Excellence in Journalism Foundation was established in 1982 for charitable, scientific and educational purposes, including the improvement of the quality of the practice of journalism among various media. This support includes funding for creative projects and research that promotes excellence in journalism and instills and encourages high ethical standards in journalism. Funding is not available to individuals, but is available to formal organizations via an application and review process.
Objectives: Grants are made on a selective basis for broad general purposes in the following areas: Training and Education of Journalists; Educating Students; Freedom of Information; Investigative Reporting; Diversity in the Newsroom and News; First Amendment Issues; Electronic and New Media; Public Interest/Policy.

21st Century Museum Professionals, IMLS [86214]
Deadline: 03/15/06
Scope: The 21st Century Museum Professionals program supports a range of activities, including professional training in all areas of museum operations and leadership development.
Funding: Grants may range from $15,000 to $500,000 for up to three years. The sponsor requires a one to one match for all requested funds.
Objectives: This program provides the museum community with support for a variety of training and personnel development activities for museum staff members across all types of museums, as well as the collection and dissemination of information to museum professionals and the public. Project design could include direct dissemination of information through workshops, seminars, and courses or indirect communication through publications and Web sites. Projects should benefit multiple institutions or diverse constituencies. A successful proposal will have one or more of the following characteristics: reflects an understanding of museum service needs in the communities served by the applicants and addresses issues facing museums of similar size and type; collects, assesses, or develops information that leads to better museum operations, such as a needs assessment to plan an association’s services to its members; delivers information on how to improve staff practices in operating museums; and develops, documents, and disseminates programs that address the interests of small museums.

Summer Seminars and Institutes for College and University Teachers, NEH – NFAH [85949]
Deadline: 03/01/06
Scope: The sponsor offers teachers opportunities to study humanities topics in a variety of Summer Seminars and Institutes.
Funding: All teachers selected to participate in a seminar or institute will be awarded a fixed stipend based on the length of the seminar or institute to help cover travel costs, books and other research expenses, and living expenses: $1,800 (two weeks), $2,400 (three weeks), $3,000 (four weeks), $3,600 (five weeks), or $4,200 (six weeks).
Objectives: Each seminar includes fifteen participants working in collaboration with one or two leading scholars. Participants will have access to a major library collection, with time reserved to pursue individual research and study projects. Institutes provide intensive collaborative study of texts, topics, and ideas central to undergraduate teaching in the humanities under the guidance of faculty distinguished in their fields of scholarship. Institutes aim to prepare participants to return to their classrooms with a deeper knowledge of current scholarship in key fields of the humanities.
WHO WE ARE
The State University of New York (SUNY) is the nation’s largest comprehensive system of public higher education. Its 64 unique institutions offer more than 7,669 fields of study to over 412,000 students. SUNY conducts nearly $900 million in sponsored research annually and ranks in the top 15 U.S institutions in patents issued each year.

WHAT WE ARE DOING
SUNY, with its cutting edge research, state-of-the-art facilities and strategic partnerships, is enhancing the nation’s ability to prepare for, deter, and, if necessary, respond to a host of security threats. Collaborating with academic, government and industry partners, SUNY faculty work on new, innovative approaches to cyber security, biodefense, infrastructure protection, sensor technologies, and education and training.

CYBER SECURITY
The State University of New York has top-flight facilities, including the Center for Computational Research at the University at Buffalo – one of the top 10 academic super computer facilities in the U.S., for advanced research on all facets of information assurance and global computer/communication networks.

Cyber attack and recognition systems – Creating a system that generates profiles of network users to provide protection for military installations and government agencies.

Contact: Kenneth M. Tramposch, Ph. D., University at Buffalo, 716-645-3321, tramposch@research.buffalo.edu

Computer network forensics – Methods to identify infected machines, sources of attacks and other anomalies.

Contact: Lynn Videka, Ph.D., SUNY Albany, 518-437-4960, lvideka@albany.edu

Detecting computer system vulnerabilities – Developing techniques and tools to identify and monitor weaknesses in computer systems that can be exploited to compromise system security.

Contact: Lynn Videka, Ph.D., SUNY Albany, 518-437-4960, lvideka@albany.edu
Ann-Marie Scheidt, Ph.D., SUNY Stony Brook, (631) 632-7006, am-scheidt@notes.cc.sunysb.edu

Information assurance – Ongoing study of the vulnerability of U. S. public and private information (Continued on page 14)

“Every path to a new understanding begins in confusion.” Mason Cooley

Eye on Funding (Continued from page 6)

Summer Seminars and Institutes for School Teachers, NEH – NFAH [85947]
Deadline: 03/01/06
Scope: The sponsor offers teachers opportunities to study humanities topics in a variety of Summer Seminars and Institutes.
Funding: All teachers selected to participate in a seminar or institute will be awarded a fixed stipend based on the length of the seminar or institute to help cover travel costs, books and other research expenses, and living expenses: $1,800 (two weeks), $2,400 (three weeks), $3,000 (four weeks), $3,600 (five weeks), or $4,200 (six weeks).

Objectives: A seminar for school teachers enables fifteen participants to explore a topic or set of readings with a scholar having special interest and expertise in the field. The core material of the seminar need not relate directly to the school curriculum; the principal goal of the seminar is to engage teachers in the scholarly enterprise and to expand and deepen their understanding of the humanities through reading, discussion, writing, and reflection.

An institute for school teachers, typically led by a team of core faculty and visiting scholars, is designed to present the best available scholarship on important humanities issues and works taught in the nation's schools. The twenty-five to thirty-five participating teachers compare and synthesize the various perspectives offered by the faculty, make connections between the institute content and classroom applications, and often develop improved teaching materials for their classrooms.

Partnership for a Nation of Learners Community Collaboration Grants, IMLS [84632]
Deadline: 03/01/06
Scope: The purpose of this grant pro-
program is to build and strengthen working relationships among libraries, museums, and public broadcasting licensees that enhance their roles within their communities. Each project should show how such collaboration and shared resources enable partners to meet clearly defined needs for one or more audience segments within their local communities. Eligible projects will include collaborations between a public broadcasting licensee (radio or television) and a museum or library, or among all three types of organizations. Projects that involve all three types of organizations—museums, libraries, and public broadcasting licensees (and, where appropriate, collaboration with other community organizations)—will generally be considered more competitive for funding.

**Funding:** Award amounts may range from $25,000 to $250,000 and are generally for a period of up to two years.

**Objectives:** The program will fund ongoing or new collaborative projects that use the organizations’ resources and core competencies—such as, but not limited to, collections, broadcast content, exhibitions and programs, and staff expertise—to address community civic and educational needs; increase the organizations’ capacity to serve as effective venues and resources for learning; or enhance infrastructure and technology in order to serve audiences more effectively.

This program particularly encourages projects that: build or strengthen long-term relationships among the partners and with other community organizations with an emphasis on how the project meets the documented needs of the community; enhance lifelong learning across the potential audience spectrum through innovative programs or services; develop or adapt innovative applications of technology for education; and reach new or underserved audiences and communities.

**Faculty Humanities Workshop, NEH**

**Deadline:** 04/07/06

**Scope:** Supports local & regional professional development programs for K-12 teachers and faculty at postsecondary institutions. Proposals providing workshops for teachers with limited access to professional development in the humanities are encouraged. Successful applications will be awarded a grant of up to $30,000 in outright funds for projects serving a single institution; regional or multi-institutional programs may receive awards up to $75,000. Program replaces Humanities Focus Grants program.

**Funding:** Faculty Humanities Workshops can be funded up to $30,000 in outright funds for projects serving a single institution; regional or multi-institutional programs may receive awards of up to $75,000. The grant period may run between twelve and eighteen months, depending on the project.

**INTERDISCIPLINARY**

**Bay and Paul Foundations [18331]**

**Deadline:** 03/01/06, 09/01/06

**Scope:** Support is provided to nonprofit, tax-exempt organizations for programs in pre-collegiate education, collections care and conservation, conserving biodiversity, music, and programs to support Native Americans.

**Funding:** Typical first-time grants range from $3,000 to $10,000. The sponsor generally limits grant approvals to three in a five year period for any one organization or for a continuing project. With rare exceptions, the sponsor does not accept proposals or provide funding for endowments, building construction or maintenance, sectarian religious projects, books or studies, individual scholarships or fellowships, loans, travel, film, television or video productions, programs consisting primarily of conferences, or for annual fund appeals.

**Objectives:** The sponsor provides both general operating support and project support for the following:

- **CONSERVING BIODIVERSITY**—supports research and intervention efforts on behalf of endangered species, both in the U.S. and internationally.
- **PRE-COLLEGIATE EDUCATION**—grants in this category support a variety of efforts to empower students and teachers by promoting the practice of democracy in schools, encouraging student voice, advancing an ethic of environmental stewardship, and integrating academic course work with meaningful community service. In addition, the sponsor supports math and science projects and projects that seek to strengthen the developmentally critical role of the arts.
- **COLLECTIONS CARE AND CONSERVATION**—supports conservation and preservation projects for archives, museums, libraries, botanical gardens and historic sites, and has helped to strengthen these efforts nationwide through support of not-for-profit regional conservation centers, manuals, publications and collections care training programs.
- **NATIVE AMERICANS**—supports projects of” Native Americans.
- **MUSIC**—grants are made to chamber ensembles and orchestras in support of professional development, recordings and--less often--performances.

**Starbucks Foundation [63538]**

**Deadline:** 03/01/06

**Scope:** The sponsor supports programs for youth, ages 6-18, that integrate literacy with personal and civic action in the communities where they live. The sponsor invites letters of inquiry from qualifying tax-exempt organizations that work with underserved youth in the fields of literacy (reading, writing and creative/media arts) and environmental literacy.

**Funding:** Grants awarded range from $5,000 to $20,000, the average grant in this program is $10,000.

**Objectives:** The sponsor invites letters of inquiry from organizations that work with youth (ages 6-18) in the fields of arts and literacy and/or environmental literacy.

- **Arts and Literacy** -- The sponsor sup-
ports programs that: innovatively address literacy for the 21st century and provide high standards of excellence for the mastery of basic skills; encourage reading, writing, the arts, and critical thinking as powerful communication tools in commitment to important social issues: social equity, justice and environmental awareness; provide opportunities for youth voices in print, electronic, digital, video/audio media and/or spoken word performances; encourage partnerships among formal and informal education systems; and, embrace diversity and build bridges of understanding among youth of diverse ethnic, racial and socio-economic backgrounds.

Environmental Literacy -- The sponsor supports programs that: offer innovative, place-based approaches to addressing environmental literacy in communities; have strong educational programming with follow-up opportunities for learning; create new ways of thinking or acting; empower youth to be heroes (educators/stewards/advocates) for a sustainable environment in their own communities; encourage partnerships among formal and informal education systems; and embrace diversity and build bridges of understanding among youth of diverse ethnic, racial and socio-economic backgrounds.

Mini Grants, Upjohn (W.E.) Institute for Employment Research [53354]
Deadline: 04/11/06, 10/17/06
Scope: The sponsor will consider proposals for funds to conduct research and write papers on innovative research topics relative to employment issues.
Funding: Funds up to $5,000 could be used as summer compensation or to acquire special data sets, meet unusual computer processing or programming needs, or to cover travel to collect primary data.
Objectives: The purpose of this program is to provide flexibility to meet special funding needs that, without support, would prevent researchers from pursuing the project.

Orchard Foundation [64502]
Deadline: 03/01/06
Scope: The sponsor provides support for projects in New England and New York in the following areas: environment; children, youth and families; and campaign finance reform.
Funding: Total funding available for these three program areas is approximately $400,000 annually.
Objectives: Generally the foundation makes only restricted grants favoring requests supporting specific projects and programs. The foundation will very occasionally provide seed money, operating support, and start-up capital to smaller organizations. Funds are provided in the following areas: Environment: air quality, biodiversity, fresh and coastal waters, forests, toxic substances and pollution prevention. Advocacy, principally legal, governmental agencies, and administrative process participation advocacy projects are strongly encouraged and given preference.
Children, Youth and Families: the sponsor funds in two primary areas: child and family advocacy and literacy. Campaign Finance Reform: statewide efforts to implement effective campaign finance reform.

Materials Use: Science, Engineering, and Society (MUSES), NSF [86246]
Deadline: 03/13/06
Scope: The sponsor is soliciting new multidisciplinary activities that encourage researchers in engineering, physical and life sciences, social and behavioral sciences, economics, mathematics, and education to reach beyond their disciplinary boundaries in order to address complex issues related to materials use in the environment. There are two challenges: to propose exploratory research issues that are viable and to create new teams of researchers with the necessary expertise who can work together. Quantitative approaches and education activities must be incorporated in all projects.
Funding: Approximately $6.45 million is expected to be available in FY 2006.

The funding will support three to five research and education awards each year conducted by multidisciplinary teams of researchers who may request up to $400,000 per year for three to five years duration. In FY 2006, up to five small awards (not to exceed $100,000 and up to a one year duration) may be funded in response to proposals for developmental activities such as proof of concept studies that can include meetings to build international and/or interdisciplinary teams or high-risk exploratory research.

Objectives: Studies in the Materials Use: Science, Engineering, & Society (MUSES) topical area are aimed at understanding these interactions in order to reduce adverse human impact on the total, interactive system of resource use, and maximize the efficient use of individual materials throughout their life cycles. MUSES includes fundamental research on: global budgets and cycles of key materials; means and methods for carefully assessing a material’s impact at every stage of its entire life cycle; design for sustainability addressing materials, processes, systems, and supporting social structures that optimize the use of materials throughout their total life cycle, and modeling the impact of materials substitutions or modifications on a total materials use basis.

MUSES projects include three integrative elements: an integrated, quantitative, systems-level method of inquiry is essential in biocomplexity studies; education must be addressed and integrated effectively with all research plans. Educational activities provide learning opportunities for students at appropriate levels (ranging from grades K-12 through graduate school), and the general public; and a global perspective is expected in all proposals. Wherever appropriate and practical, specific international collaborations and networks for research and education are strongly encouraged.

Research in this topical area must stress the fundamental understanding of comprehensive materials flows that extend
from natural resource (physical and biota) materials extraction; through processing and manufacturing, assembly, and distribution and consumer use; and on through recycling, disposal, and reuse. In some cases, the synthesis and characterization of new classes of materials with desired properties may be involved. Models should include relationships among constructed, natural, and social systems and consider continuous materials use in addition to life cycle practice. Energy consumption during life cycle is relevant. Materials use at widely ranging scales is within the scope of MUSES, from niche specialty markets to major construction projects - highways, bridges, large buildings, etc.

Specific areas of interest include, but are not limited to: spatially and temporally explicit budgets for key materials, including ways in which human activities define, perturb, dominate or limit materials flow and supply; acquisition, comprehension, and integration of data sets and models from engineering, environmental, economic, and social spheres, and the development of robust ways to utilize potential data intersections and model interoperability to predict materials flows; patterns and driving forces of human consumption of resources, for example, the role of incentives in encouraging less wasteful materials use or the redesign of markets to provide more accurate signals of the societal costs associated with the use of materials; metrics and assessment models for forecasting the results of substituting materials made from renewable resources for those made from non-renewable resources, including trade-offs such as land use and water consumption; design and synthesis of desirable materials with predictable properties while evaluating environmental friendly impacts on biocomplex systems at each stage of their development as useful materials; viz. processing and fabrication, assembly and manufacture, and eventual recycling of spent materials; development of "intrinsically secure" chemistries and processes such that the vulnerability to the threat of terrorism is reduced by reductions in the quantities or toxicities of intermediates and end products.

**Evaluation of Technologies, NIJ – DOJ [86296]**

**Deadline:** 03/07/06

**Scope:** The sponsor seeks evaluations of technologies designed to increase the effectiveness of State and local law enforcement, corrections, and other criminal justice agencies. NIJ is interested in evaluations that measure how technologies improve criminal justice policy and practice. Outcome evaluations must include well-defined, measurable indicators of success. NIJ prefers proposals that focus on the impact of technologies on crime reduction. Additional outcome measures may include faster identification and apprehension of criminal suspects; reductions in criminal opportunities, technical probation violations and revocations, and crime and violence in school settings; increased problem-solving capabilities; and fewer injuries to officers, suspects, and bystanders. NIJ will give priority to evaluation research designs that use randomized control trials.

**Funding:** NIJ anticipates that up to $1 million may become available for awards made through this solicitation. All NIJ awards are subject to the availability of appropriated funds. NIJ expects to make two to four awards, depending on the funds available and the number of high-quality applications.

**Objectives:** The sponsor seeks proposals to evaluate applied technologies in the criminal justice system. Priority will be given to proposals related to the following areas: biometrics, situational crime prevention, probation supervision management, school safety, information-led policing, and less lethal technologies. Proposal topics may include but should not be limited to: Biometrics—Biometric technologies use a particular biological aspect of the human body to recognize or confirm a person’s identity. Biometrics can be used to identify individuals and control access in correctional facilities, or as an investigative tool for identifying criminals or missing and exploited children. NIJ is interested in proposals that examine the impact of biometric technologies on the criminal justice system. Outcome measures could include advances in the apprehension of suspects or location of persons of interest in criminal cases, identification of suspects attempting to gain access to restricted areas in correctional settings, or the successful identification of missing or exploited children.

Situational crime prevention—Situational crime prevention is a preventive strategy that incorporates technology to reduce opportunities for crime and promote community safety. Examples include closed circuit television, red-light cameras, and merchandise microchips. NIJ is interested in evaluations of new and existing technologies that measure outcomes such as changes in crime patterns, fewer traffic violations and related accidents, or increased identification and apprehension of criminal suspects.

Probation supervision management—Some probation departments currently use kiosks or other technology as alternatives to face-to-face supervision of probationers. Though such technologies were originally used to monitor low-risk offenders, budget and staff cuts have led a number of jurisdictions to monitor higher risk probationers this way. NIJ is interested in proposals that examine the impact of alternative technologies for probation supervision on reductions in recidivism for probationers at different risk levels, reductions in technical violations and revocations, or organizational changes in caseload management for special offender populations.

School Safety—Concerns about school safety have led to the use of new technologies aimed at reducing crime and violence in educational settings. Law enforcement agencies face school safety-related challenges such as heightened school security for terrorist
threats, physical security of schools, special event management, and transportation security for students. NIJ seeks evaluation proposals that examine the impact of school technologies in reducing crime and violence in school settings. The technologies may include, but are not limited to, telephones or duress alarms in classrooms, security cameras on school buses, exterior or interior school security cameras, and contraband detection devices.

Information-led policing--Information-led policing involves the collection and analysis of information to help police officials increase efficiency and accountability. Information-led policing emphasizes the use of information-processing technology to guide immediate decision-making to reduce or prevent crime and other problems in the community. NIJ seeks evaluations of information-led policing technologies including, but not limited to, GPS tracking of high-risk offenders, technology for geographic approaches that focus crime prevention strategies in specific areas (i.e., hot spots), and data sharing and retrieval systems that focus on problem-solving capabilities to reduce crime and disorder. NIJ is interested in rigorous assessments of the overall effect of information-led policing technologies on measurable outcomes.

Less lethal technologies--NIJ is interested in evaluation research that will enable law enforcement personnel to make informed decisions and create sound policies regarding use of less lethal technologies. Proposals should examine how less lethal technologies change the dynamics and outcomes of police use of force. NIJ is particularly interested in the impact of less lethal technologies on the relative likelihood of injury to officers, suspected offenders, victims, and bystanders. Additional outcome measures may include reductions in civil lawsuits, medical costs, or worker’s compensation litigation.

**An Eye on Funding** (Continued from page 10)

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**Philosophical Society [84315]**
**Deadline:** 03/15/06

**Scope:** The sponsor offers support for exploratory field studies for the collection of specimens and data and to provide the imaginative stimulus that accompanies direct observation.

**Funding:** Grant amounts will depend on travel costs, but will ordinarily be in the range of several hundred dollars up to about $5000. Budgets should be limited to travel and related expenses, including personal field equipment.

**Objectives:** Applications are invited from disciplines with a large dependence on field studies, such as archeology, anthropology, astrobiology and space science, biology, ecology, geography, geology, and paleontology, but grants will not be restricted to these fields.

**Electronic Records Projects, National Historical Publications & Records Commission [83379]**
**Deadline:** 04/01/06, 06/01/06

**Scope:** The Commission seeks ways to ensure that records created today will be usable with tomorrow’s technology. As society moves recordkeeping from paper to electronic records, it is essential that electronic records retain their authenticity and are preserved. The NHPRC supports efforts by archivists and other records managers to meet the challenges of a proliferation of electronic records.

**Funding:** Awards normally are for one, two, or three years and have ranged between $50,000-$300,000, depending on the nature of the project. The sponsor anticipates making six awards. The Commission provides no more than 50 percent of project costs for Electronic Records Projects. Cost sharing can include both direct and indirect expenses, in-kind contributions, non-Federal third-party contributions, and any income earned directly by the project.

**Objectives:** The NHPRC especially welcomes projects that build institutional capacity, promote professional development and education in the field, and help create and support consortia and other cooperative programs.

**Walker (Alex C.) Foundation [82050]**
**Deadline:** 04/01/06, 10/01/06

**Scope:** The Foundation awards grants to: (1) investigate the causes of economic imbalances; (2) investigate the effect of the monetary system in fostering a sustainable economy; (3) investigate causes tending to destroy or impair the free-market system; (4) explore and develop free-market solutions and (5) disseminate information on these issues. Projects must either address issues of national significance to the U.S. or protect the global free-market system.

**Objectives:** The Foundation funds two categories of projects: traditional economics and ecological economics with a free-market orientation. The Foundation seeks market approaches for addressing economic imbalances and protecting our environment. Applicants should explain how their project either addresses an issue of national economic importance or investigates causes tending to impair or destroy the global free-market system. The Foundation funds projects of national significance to the United States within the context of the global economy.
Ethics Education in Science and Engineering, NSF [81569]
Deadline: 03/24/06
Scope: The sponsor considers proposals for research and educational projects to improve ethics education in all of the fields of science and engineering that NSF supports. For this year, proposals must focus on improving ethics education for graduate students in those fields, and on ethical issues that arise in research or graduate research education in those fields, particularly in interdisciplinary or inter-institutional contexts.
Funding: It is anticipated that $1.55 million will be disbursed through five to twelve Standard Grants with a maximum amount of $300,000. The maximum award duration is expected to be thirty-six months.
Objectives: The sponsor will consider proposals for research projects, education projects, and combinations of the two:
Education projects must be based on research findings that indicate successful ways to enhance ethics education for graduate students. They may include a wide range of activities such as mentoring programs, infrastructure-development activities, faculty capacity-building activities, training of postdoctoral fellows to implement programs, and graduate-student involvement in program development. Programs to develop and test new materials or teaching techniques are also eligible.
Research projects that examine ethics education for graduate students in science and engineering are also eligible for consideration in EESE. Proposals should build on earlier research and add to the research base. Projects can include qualitative and/or quantitative approaches. The expectation is that project results will help in developing better ethics-education programs for graduate students; thus, proposals should specify plans to deliver findings to appropriate research and educational communities and assist them to implement projects or programs based on the findings. Research projects may also include a focus on ethical issues arising in educational research or in ethics education for graduate students. Proposals may also combine research and education components. For instance, the first year of a project might examine ethics education for graduate students in a scientific or engineering field. The second year might implement programs on several campuses based on what was discovered. Repetition and modification, evaluation and diffusion might occur during the third year.

SCIENCES
Carbon and Water in the Earth System, NSF [86174]
Deadline: 03/15/06
Scope: The sponsor invites research proposals aimed at advancing our understanding of interdisciplinary aspects of either the carbon or the water cycles as they pertain to life, the global environment, and climate change. Approximately $32 million is available in funding.
Funding: Projects may request up to $3 million total, not including the costs of facilities, and up to five years of support. Approximately fourteen to twenty-five standard or continuing grants are expected. Major research facilities costs will be borne by this program and will be a factor in funding decisions. The anticipated funding amount is $32 million pending the availability of funds.
Objectives: This solicitation is aimed at advancing our understanding of interdisciplinary aspects of either the carbon or the water cycles as they pertain to life, the global environment, and climate change. Specifically, proposals should address interdisciplinary gaps in our understanding of these cycles across the interfaces of atmosphere, land, and oceans and which could not be addressed by current core disciplinary programs within NSF. In particular, we are requesting proposals for multidisciplinary studies that cross traditional NSF disciplinary boundaries and those that cannot be supported by core programs because of their scope and cost.
The sponsor seeks proposals that will discover, define, and quantify key mechanisms or interactions through empirical observations, theory and modeling at the level of continents, ocean basins, and air masses or critically important ecological, geological or hydrographic provinces within and between them such as continental margins and drainage basins. Studies of related biologically or geochemically reactive substances will be considered only if clearly placed within the central framework of the carbon or water cycles. Examples of the types of studies that will be considered include, but are not limited to: innovative ways of evaluating processes and feedbacks that affect global or regional fluxes of carbon, water, and other bioactive elements among the Earth’s land, oceans, and atmosphere; processes and feedbacks in the carbon or water cycles as they relate to our understanding of extreme events, climate variability, and climate change; basic research that involves development of new and innovative techniques or instrumentation capabilities for important chemical species, including anthropogenic ones; data synthesis and modeling to explore new linkages and to integrate field studies and remote sensing using both forward and inverse models and data assimilation techniques; and studies of the natural cycles of other bioactive elements, such as N, S, P, Si, Fe, and others, will be considered but only if the studies directly couple these to the carbon or water cycles.

Global Learning and Observations to Benefit the Environment (GLOBE), NSF [86171]
Deadline: 03/08/06
Scope: This program will facilitate reform in geoscience education by funding programs that connect the work of scientists to the practice of teaching and learning science in the classroom.
To achieve this goal, the National Science Foundation (NSF) is seeking to establish new partnerships between GLOBE program participants and scientists associated with Integrated Earth Systems Science Programs (IESSP), defined as major NSF- or NASA-funded research programs related to Earth system science. This solicitation seeks proposals from IESSP teams for projects that can be used to facilitate inquiry-based investigations of the environment and the Earth systems via the GLOBE program.

**Funding:** Proposals may be submitted for periods of performance of up to forty-eight months. The program expects to make three to five continuing grant awards. Approximately $1 million will be available in each year from FY 2006 through FY 2009.

**Objectives:** The solicitation is designed to link the rich resources of NSF or NASA-funded Earth Systems research programs to relevant student learning and authentic inquiry by funding teams of scientists and educators involved in Integrated Earth Systems Science Programs (IESSP) to work collaboratively with the GLOBE community. Eligible IESSP are those that receive major NSF or NASA programmatic and/or financial support and are comprised of multiple Principle Investigators working together on integrated Earth systems science research projects that share common goals. The suite of NSF- or NASA-funded programs includes NSF Geosciences programs, programs of the NSF Office of Polar Programs, as well as NASA Earth System Research and Applications Programs. The partnerships between the IESSP and the GLOBE program will continue to foster student observations of environmental parameters related to the Earth System Science and validation of satellite observations, however they will also work to increase sharing ideas, questions and results with scientists involved in selected IESSPs. The IESSP teams will work closely with the GPO to meet the needs of the evolving GLOBE program. The IESSP teams must demonstrate: a focus on direct connections with major NSF Geosciences, NSF Polar Programs, and/or NASA Earth System research programs that are related to Earth systems science; a demonstrable benefit to GLOBE and to NSF Geosciences, NSF Polar Programs or NASA Earth System education goals (providing access to program researchers and data, working with GLOBE in setting up campaigns where possible, using tested GLOBE or non-GLOBE protocols to the greatest extent possible, actively participating in the wider GLOBE community including schools, among other goals); how the existing educational efforts of the large science program will coordinate with GLOBE; a rigorous evaluation and assessment component that will be collaborative with the GLOBE Program Offices’ initiative; and contact and discussions with the GLOBE Program Office regarding understandings of roles and responsibilities.

**Veneklasen (Paul S.) Research Foundation [86139]**

**Deadline:** 04/01/06, 08/01/06, 12/01/06

**Scope:** The sponsor provides grants to sponsor scientific research in acoustics and—when deemed appropriate—in additional areas of interest that are related to acoustics.

**Funding:** The Foundation will consider renewed funding at the end of the grant year. The Foundation does not make multi-year grants but the Board will consider renewal requests for up to three years (i.e. renewal for two years after the initial grant).

**Objectives:** It is the purpose of this Foundation to promote further scientific research in acoustics.

**Synthesis of Arctic System Science, NSF [81499]**

**Deadline:** 03/24/06

**Scope:** The sponsor provides funding for research that synthesizes our understanding of the arctic system. Research efforts supported will build on and integrate the wealth of existing data and knowledge to advance our understanding of the behavior of the arctic system or key subsets of the system and to understand the role it plays in the global system and society.

**Funding:** Estimated program budget, number of awards and average award size/duration are subject to the availability of funds. Pending the availability of funds, an anticipated funding amount of $7,000,000 total, combined from FY2006 and FY2007 for awards up to three years will be available for this program.

**Objectives:** The ARCSS-supported research seeks to: identify the most sensitive and critical components and interactions during arctic system behavior; integrate and synthesize modeling results, observations, process understanding, paleo-environmental data, and human dimensions knowledge; strengthen interactions between arctic research communities and the broader Earth system science community in order to ensure that the Arctic is accurately represented in earth system models; and enhance two-way communication with stakeholders, decision-makers, and the public to increase the impact of ARCSS research.

**Interactions Between the Mathematical Sciences and Computer Science, NSF [78110]**

**Deadline:** 03/01/06

**Scope:** The sponsor plans to support research and development teams focusing on mathematical and computational innovations relevant to the following areas of specific interest: mathematical and statistical models, computational theory and algorithms for high-dimensional, under-sampled data sets; algorithms for scalable scientific computation; and models and algorithms for graphics and visualization.

**Funding:** It is estimated that $4.5 million will be available to fund five to ten grants.
systems and infrastructure with a view to improving security and developing a workforce of information security professionals.

**Contact:** Lynn Videka, Ph.D., SUNY Albany, 518-437-4960, videka@albany.edu
Gerald Sonnenfeld, Ph.D., Binghamton University, 607-777-4818, gsonnenf@binghamton.edu
Ann-Marie Scheidt, Ph.D., SUNY Stony Brook, 631-632-7006, amscheidt@notes.cc.sunysb.edu

### BIODEFENSE

The State University of New York, with its three health science centers and extensive research capabilities in medicine, drug development and biotechnology, is bringing the best science to bear in the fight against potential terrorist attacks involving biological and disease agents.

**Security software** – Sophisticated models of security relevant system behaviors to protect systems from threats including software errors and malicious intrusions.

**Contact:** Ann-Marie Scheidt, Ph.D., SUNY Stony Brook, 631-632-7006, amscheidt@notes.cc.sunysb.edu

**Artificial blood** – Developing a red blood cell substitute to counteract shock from blood loss.

**Contact:** Kenneth M. Tramposch, Ph.D., University at Buffalo, 716-645-3321, tramposch@research.buffalo.edu

**Biosensors** – Exploring new sensor arrays to detect and identify almost any biological macromolecule at extremely low levels.

**Contact:** Kenneth M. Tramposch, Ph.D., University at Buffalo, 716-645-3321, tramposch@research.buffalo.edu

**Particulates and aerosols** – Applying expertise in bioaerosols, biosurface interactions and research on aerosol drug-delivery systems to understand cardiovascular and respiratory reactions to airborne contagions.

**Contact:** Kenneth M. Tramposch, Ph.D., University at Buffalo, 716-645-3321, tramposch@research.buffalo.edu

Neil Ringler, Ph.D., SUNY ESF, 315-470-6606/6609, neilringler@esf.edu

**Public health preparedness** –
Providing leadership in development of regional public health preparedness systems with an emphasis on bioterrorist threats.

**Contact:** Eva Cramer, Ph.D., SUNY Downstate Medical Center, 718-270-1011, eva.cramer@downstate.edu
Ken Barker, Ph.D., Upstate Medical University, 315-464-4515; barkerk@upstate.edu

**Vaccines and therapies** – Research on:
- Slow-release agents that provide long-term immunity.
- Direct delivery to specific sites, such as the lungs in the case of anthrax.
- Incorporating adjuvant (supplementary) agents to increase immunity.

**Contact:** Kenneth M. Tramposch, Ph.D., University at Buffalo, 716-645-3321, tramposch@research.buffalo.edu

**Biometric identification systems** – A law enforcement system capable of automatically tracking and identifying suspects based on witness’ natural language description.

**Contact:** Kenneth M. Tramposch, Ph.D., University at Buffalo, 716-645-3321, tramposch@research.buffalo.edu

**Blast proof structures** – A shock-absorption system that would make buildings, bridges and infrastructure resilient to terrorist attack using explosives.

**Contact:** Kenneth M. Tramposch, Ph.D., University at Buffalo, 716-645-3321, tramposch@research.buffalo.edu

**Cargo screening** – Device to detect plastic explosives in shipping containers and truck trailers.

**Contact:** Samuel Yahalom, Ph.D., SUNY Maritime, 718-409-7290, syahalom@sunymaritime.edu
Ann-Marie Scheidt, Ph.D., SUNY Stony Brook, 631-632-7006, amscheidt@notes.cc.sunysb.edu

**Disaster analysis** – Applying information fusion to improve the immediate response by assessing damage, search and rescue, sheltering and evacuation, and resource management.

**Contact:** Kenneth M. Tramposch, Ph.D., University at Buffalo, 716-645-3321, tramposch@research.buffalo.edu

**Electronic noses** – Using nanocomposite metal oxides that respond to chemical vapors to sniff out harmful substances.

**Contact:** Ann-Marie Scheidt, Ph.D., SUNY Stony Brook, 631-632-7006, amscheidt@notes.cc.sunysb.edu

**Emergency Services Family Support** – Proactive assistance to those who have had a loved one exposed to a traumatic event.

**Contact:** Robert Delprino, Buffalo State College, 716-878-6669, delprirp@buffalostate.edu

**Inventory of freshwater bio-toxins** – Compiling a standardized reference collection of contaminants to speed identification and response to threats to drinking and recreational waters.

**Contact:** Neil Ringler, Ph.D., SUNY ESF, 315-470-6606/6609, neil-ringler@esf.edu

**Pathogen destruction** – An air purification device that uses rapid heat to destroy airborne pathogens.

**Contact:** Kenneth M. Tramposch, Ph.D., University at Buffalo, 716-645-3321, tramposch@research.buffalo.edu

**Port and maritime security** – New technologies to track, monitor, and inspect containers and cargoes including real time wireless communications systems including:
- Container fingerprinting.
- Bulk cargo monitoring.
- Dynamic geographic information system applications security.

**Contact:** Samuel Yahalom, Ph.D., SUNY Maritime, 718-409-7290, syahalom@sunymaritime.edu
Ann-Marie Scheidt, Ph.D., SUNY Stony Brook, 631-632-7006, amscheidt@notes.cc.sunysb.edu

**Response to mass casualty attacks** – Applying sociological analysis to mobilization and information dissemination.
INTELLIGENCE ANALYSIS
The State University of New York is developing an array of high- and low-tech tools to gather and sift through terrorism intelligence and assess the nature and scope of terrorist threats.

Advanced information retrieval – Systems to facilitate sifting of news and field reports, enabling better comprehension of terrorist behavior and development of effective counter-terrorism measures.
Contact: Gerald Sonnenfeld, Ph.D., Binghamton University, 607-777-4818, gsonnenf@binghamton.edu

Identification systems – Employing fingerprints, voice, iris, hand geometry, signature, face, behavioral and chemical biometric technologies for security applications.
Contact: Kenneth M. Tramposch, Ph.D., University at Buffalo, 716-645-3321, tramposch@research.buffalo.edu

Water supply security – Real-time detection and monitoring technology to protect drinking water supplies, distribution systems, and treatment facilities against chemical and biological threats.
Contact: Neil Ringler, Ph.D., SUNY ESF, 315-470-6606/6609, neilringler@esf.edu

Identification systems – Employing fingerprints, voice, iris, hand geometry, signature, face, behavioral and chemical biometric technologies for security applications.
Contact: Kenneth M. Tramposch, Ph.D., University at Buffalo, 716-645-3321, tramposch@research.buffalo.edu

Smart dust – Small microphones that can be scattered across a battlefield to detect the sounds and determine the direction of troop or equipment movements.
Contact: Gerald Sonnenfeld, Ph.D., Binghamton University, 607-777-4818, gsonnenf@binghamton.edu

Uncovering hidden communications – Applying steganography (covert communication through pictures), and steganalysis (detection of hidden communications) to the defense of military and digital communications and the discovery of secret terrorist communications.
Contact: Gerald Sonnenfeld, Ph.D., Binghamton University, 607-777-4818, gsonnenf@binghamton.edu

EDUCATION AND TRAINING
The State University of New York offers training sessions and courses that can be modified as needed for specific audiences, including first responders and intelligence personnel, as well as facilities for classroom instruction, computer modeling, simulations, exercises and drills.
Disaster preparedness – Providing training and EMS education aimed at a wide variety of health care providers including strategic management and medical simulation exercises and evaluation.
Contact: Ken Barker, Ph.D., Upstate Medical University, 315-464-4515; barkerk@upstate.edu

Disaster response – Providing a hospital-affiliated preparedness and training facility at the Brooklyn Army Terminal to develop coordinated strategies to anticipate and react to chemical, biological, radiological, nuclear, and explosive (CBRNE) threats.
Contact: Eva Cramer, Ph.D., SUNY Downstate Medical Center, 718-270-1011, eva.cramer@downstate.edu

Emergency eye care – Teaching urban emergency personnel sight saving first aid for particulate, chemical and biological agents associated with terrorist attacks.
Contact: Jerry Feldman, Ph.D., SUNY Optometry, 212-938-5541, jfeldman@sunyopt.edu

First responder training – Providing courses and advanced, equipped space in which to train local and regional public safety personnel.
Contact: John Perrone, Monroe Community College, 585-279-4220; jrperrone@monroecc.edu
Richard F. Gorko, Niagara County Community College, 716-433-1856 Ext. 16, gorko@niagaracc.suny.edu
Edward S. Baker, Schenectady County Community College, 518-381-1319, bakeres@gw.sunysccc.edu

National Center for Geographic Information Analysis (NCGIA) – Providing facilities that can rapidly detect patterns of incidents such as terrorist acts and develop and test immersive and virtual reality spaces for access by intelligence personnel.
Contact: Kenneth M. Tramposch, Ph. D., University at Buffalo, 716-645-3321, tramposch@research.buffalo.edu

Geospatial information technology – Global Positioning System (GPS) training for state and local law enforcement; enhanced Geographic Information Systems (GIS) image processing for local law enforcement.

Homeland security – Providing services and information about operational, tactical and strategic elements of homeland security studies of legal issues and methods of domestic preparedness.
Contact: Barry Garigen, Genesee Community College, 585-343-0055 Ext. 6307, bgarigen@genesee.edu
John Perrone, Monroe Community College, 585-279-4220; jrperrone@monroecc.edu
Richard F. Gorko, Niagara County Community College, 716-433-1856 Ext.16, gorko@niagaracc.suny.edu
Edward S. Baker, Schenectady County Community College, 518-381-1319, bakeres@gw.sunysccc.edu

System (GPS) training for state and local law enforcement; enhanced Geographic Information Systems (GIS) image processing for local law enforcement.
Contact: Greg Truckenmiller, Ph.D., Fulton-Montgomery Community College, 518-762-4651 Ext. 8003, gtrucken@fmcc.suny.edu

Objectives—specific measurable outcomes to be accomplished.
Procedures—design, action plan, strategies, method to accomplish objectives and goals.
Evaluation—how well is the project meeting the intended goals, assessment.
Dissemination—replicability, transferability, duplication.
Resources—facilities, expertise and/or other support available.
Personnel—what is your demonstrated expertise? Who else will be involved?
Budget—fiscal requirements and justification of project expenses.
Appendices—appropriate supporting materials.

Andy Ouellette of the Biology Department was a guest speaker. Andy along with Kestus Bendinskas, Webe Kadima, Casey Raymond, Martha Bruch and Al Lackey secured over $250,000 from the National Science Foundations Major Research Instrumentation Program to establish a new Mass Spectrometry and Proteomics Center (MaSPeC). Andy has also served on review panels for NSF and shared insights gained from his grant and panel review experiences.
Laptops were available so that everyone would have a hands-on experience in searching for funding using SPIN (Sponsored Programs Information Network) program. If you would like to learn more about this campus resource, call Linda Cook at x2561.
Each participant left with their project or research goals, objectives, performance measures and evaluations on paper. Some had also found some potential sponsors from the SPIN search.
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**

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