



Dear Faculty:

We would like to send our congratulations to the team of Beverly Clendening, Peter C. Daniel, Maureen K. Krause, and Robert Seagull, co-principal investigators from the Department of Biology, on a new \$200,000 Course, Curriculum and Laboratory Improvement (CCLI) grant from the National Science Foundation. The CCLI program at NSF is comprised of several tracks and we would like to point out that just last Thursday the agency issued a new program announcement for a CCLI *Assessment of Student Achievement in Undergraduate Education* (ASA) track. An October 29 due date has been established for new CCLI-ASA proposals; a brief description of the program appears on page 2 of this newsletter.

Several other new program announcements were released by NSF in recent weeks and are summarized here. They include: Collaborative Research in Chemistry; the Undergraduate Research Centers Program, also a program of NSF Chemistry Division; and, Frontiers in Integrative Biological Research. For further information on any of these NSF programs, please do not hesitate to call.

Thomas O. Murphy Ext. 3-6810
Associate Provost for Research and Sponsored Programs

Undergraduate Research Centers Program Division of Chemistry, National Science Foundation

New!

Preliminary proposal due date: December 1, 2003. **Full proposal due date:** January 16, 2004.

URL: <http://www.nsf.gov/pubs/2003/nsf03595/nsf03595.htm>

The Division of Chemistry in the Directorate for Mathematical and Physical Sciences, and the Division of Human Resource Development and the Division of Undergraduate Education in the Directorate for Education and Human Resources, announce a pilot program to support Undergraduate Research Centers (URCs). The URC program seeks new models and partnerships with the potential (1) to expand the reach of undergraduate research to include first- and second-year college students; and (2) to enhance the research capacity, infrastructure, and culture of participating institutions, thereby strengthening the nation's research enterprise. For this pilot program, research should be in the chemical sciences or in interdisciplinary areas supported by the chemical sciences. Projects should provide exposure to research of contemporary scientific interest that is addressed with modern research tools and methods. This solicitation supports both planning grants that can be used to develop models, partnerships, and pilot projects; and awards in support of the full scope of URC activity. For further information, contact Tom Murphy in the Office for Research and Sponsored Programs at extension 3-6810 or visit the URL cited above.

Collaborative Research in Chemistry, National Science Foundation

Preliminary proposal due date: September 22, 2003. **Full proposal due date:** October 27, 2003.

URL: <http://www.nsf.gov/pubs/2003/nsf03583/nsf03583.htm>

The Collaborative Research in Chemistry (CRC) program is designed to promote interdisciplinary collaborative research in a coherent, defined project at the forefront of the chemical sciences. CRC proposals will involve three or more investigators with complementary expertise. Co-investigators may include researchers with backgrounds in diverse areas of chemistry and other science and engineering disciplines appropriate to the proposed research. The use of cyber-infrastructure to enable and enhance collaborations is encouraged. Projects should be scientifically focused in areas supported by the NSF Division of Chemistry, limited in duration, and substantial in their scope and impact. For further information, contact Tom Murphy in the Office for Research and Sponsored Programs at extension 3-6810 or visit the URL cited above.

Frontiers in Integrative Biological Research, National Science Foundation

Preliminary proposal due date: October 20, 2003. **Full proposal due date:** February 17, 2004.

URL: <http://www.nsf.gov/pubs/2003/nsf03583/nsf03583.htm>

The Frontiers in Integrative Biological Research (FIBR) Program supports integrative research that addresses major questions in the biological sciences. FIBR encourages investigators to identify major under-studied or unanswered questions in biology and to use innovative approaches to address them by integrating the scientific concepts and research tools from across disciplines including biology, math and the physical sciences, engineering, social sciences and the information sciences. Proposers are encouraged to focus on the biological significance of the question, to describe the integrative approaches, and to develop a research plan that is not limited by conceptual, disciplinary, or organizational boundaries. Particularly encouraged are the inclusion of young scientists trained in an

interdisciplinary environment or in non-biological disciplines, and partnerships with underrepresented minority serving and primarily undergraduate institutions and community colleges. For further information, contact Tom Murphy in the Office for Research and Sponsored Programs at extension 3-6810 or visit the URL cited above.

Course, Curriculum, and Laboratory Improvement: Assessment of Student Achievement in Undergraduate Education National Science Foundation

Application due date: October 29, 2003

URL: <http://www.nsf.gov/pubs/2003/nsf03584/nsf03584.htm>

The Course, Curriculum, and Laboratory Improvement (CCLI) program seeks to improve the quality of Science, Technology, Engineering, and Mathematics (STEM) education for all students, based on research concerning needs and opportunities in undergraduate education and effective ways to address them. It targets activities affecting learning environments, course content, curricula, and educational practices, with the aim of contributing to the relevant research base that will support efforts to enhance STEM education. The program has four tracks. Assessment of Student Achievement in Undergraduate Education (CCLI - ASA), which began as a separate program in March 2001, is now one of these four tracks. With this addition, CCLI is more effectively positioned as a self-contained program to support the cycle of research and innovation that leads to improvement in undergraduate education. The other three tracks are Educational Materials Development (EMD), National Dissemination (ND), and Adaptation and Implementation (A&I).

CCLI - ASA supports research on assessment, and the development and dissemination of assessment practices, materials (tools), and measures to guide efforts that improve the effectiveness of courses, curricula, programs of study, and academic institutions in promoting student achievement, particularly in science, technology, engineering, and mathematics. ASA also promotes the full integration of assessment with these educational efforts. ASA projects may be integrated with research on learning, particularly research focused in the STEM disciplines. It supports projects in three areas: 1. New Development: developing and validating new assessment materials (tools) and practices for use in single or multiple undergraduate disciplines. 2. Adaptation: adapting assessment materials and practices that have proven effective for one setting or audience for use in a new setting or with a different audience. 3. Dissemination: efforts to spread the use of effective assessment practices through workshops or Web-based materials that have been validated and are thoroughly documented with detailed instructions. For further information, contact Tom Murphy in the Office for Research and Sponsored Programs at extension 3-6810 or visit the URL cited above.

Major Research Instrumentation Program, National Science Foundation

Application due date: January 22, 2003.

URL: http://www.nsf.gov/pubs/ods/getpub.cfm?ods_key=nsf01171

The Major Research Instrumentation Program (MRI) of the National Science Foundation (NSF) is designed to increase access to scientific and engineering equipment for research and research training in our Nation's academic institutions. This program seeks to improve the quality and expand the scope of research and research training in science and engineering, and to foster the integration of research and education by providing instrumentation for research-intensive learning environments. The MRI program encourages the development and acquisition of research instrumentation for shared use across academic departments, among research institutions, and in concert with private sector partners. Support levels range from \$100,000 to \$2 million. Proposals requesting less than \$100,000 will be considered only from the mathematical science community, or from the social, behavioral and economic science communities. In most cases, cost sharing by the University is not required. The number of proposals an institution may submit is limited; consequently, we are presently seeking to identify possible proposals submissions well in advance of the agency deadline in cooperation with Department Chairs and the Dean of Hofstra College Liberal Arts and Sciences. For further information, contact Tom Murphy (3-6810).

In FY2003, the team of Harold M. Hastings, Flavio H. Fenton, Sabrina G. Sobel and Terry L. Brack, were successful in NSF-MRI competition landing a grant worth more than a quarter million dollars for acquisition of a Beowulf supercomputer for physical science research.

National Institutes of Health Informative CD

The Office for Research and Sponsored Programs has prepared a special CD for potential NIH grant applicants. This CD contains four PowerPoint presentations on a variety of topics, including an explanation of the NIH peer review process and information regarding the popular AREA grant program. The CD also contains a selection of current NIH program announcements and all NIH grant application forms – many of them already partially completed by our office (awaiting only the specifics of your grant proposal). Faculty who wish to receive a copy of this CD should contact the Office for Research and Sponsored Programs at extension 3-6810.

Reminder...

**Future NIH AREA Grant Deadlines:
Sept. 25, 2003;
Feb. 25, 2004; and, May 25, 2004.**

Mailing Label