

# Mathematics Opportunities

## NSF Support for Interactions with Computer Sciences

The National Science Foundation (NSF) offers opportunities for support through its Mathematical Sciences Priority Area (MSPA) program for research involving interactions between mathematical sciences and computer science (MSPA-MCS). The goal of the MSPA-MCS program is to deepen support of collaborative research involving fundamental mathematics and statistics, together with computer science. The primary focus is on the areas of mathematical and statistical challenges posed by large data sets, managing and modeling uncertainty, and modeling complex nonlinear systems.

Grants are available through the Division of Mathematical Sciences (DMS) of the Directorate for Mathematical and Physical Sciences (MPS) and the Division of Computing and Communication Foundations (CCF) of the Directorate for Computer and Information Science for research and development teams that focus on mathematical and computational innovations relevant to areas of specific interest. These areas include statistical learning in nonlinear spaces, transductive learning, models inspired by statistical physics, and game theoretic ideas as applied to learning theory; also algorithms, techniques, and theories for the modeling, reduction, and visualization of large, real-time data sets.

The deadline for full proposals is **March 12, 2007**. See the website [http://www.nsf.gov/publications/pub\\_summ.jsp?ods\\_key=nsf07534](http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf07534).

—From an NSF announcement

## Project NExT: New Experiences in Teaching

Project NExT (New Experiences in Teaching) is a professional development program for new and recent Ph.D.'s in the mathematical sciences (including pure and applied mathematics, statistics, operations research, and mathematics education). It addresses all aspects of an academic career: improving the teaching and learning of mathematics, engaging in research and scholarship, and participating in professional activities. It also provides the participants with a network of peers and mentors as they assume these responsibilities. Each year about sixty faculty members from colleges and universities throughout the country are selected to participate in a workshop preceding the Mathematical Association of America (MAA) summer meeting, in activities during the summer MAA meetings and the Joint

Mathematics Meetings in January, and in an electronic discussion network.

Faculty for whom the 2007–2008 academic year will be the first or second year of full-time teaching (post-Ph.D.) at the college or university level are invited to apply to become Project NExT Fellows.

The application deadline is **April 16, 2007**. For more information, see the Project NExT website, <http://archives.math.utk.edu/projnext/>.

Project NExT is a program of the MAA. It receives major funding from the ExxonMobil Foundation, with additional funding from the Dolciani-Halloran Foundation, the Educational Advancement Foundation, the American Mathematical Society, the American Institute of Mathematics, the American Statistical Association, the National Council of Teachers of Mathematics, Texas Instruments, the Association of Mathematics Teacher Educators, the Association for Symbolic Logic, the W. H. Freeman Publishing Company, Maplesoft, MAA Sections, and the Greater MAA Fund.

—Christine Stevens, Project NExT

## Call for Nominations for Third World Academy of Sciences Prizes

The Third World Academy of Sciences (TWAS) Prizes will be awarded to individual scientists in developing countries in recognition of outstanding contributions to knowledge in eight fields of science.

Eight awards are given each year in the fields of mathematics, basic medical sciences, biology, chemistry, physics, agricultural sciences, earth sciences, and engineering sciences. Each award consists of a prize of US\$10,000 and a plaque. Candidates for the awards must be nationals of developing countries and, as a rule, must be living and working in those countries.

The deadline for nominations for the 2007 prizes is **March 31, 2007**. Nomination forms should be sent to: TWAS Prizes, c/o The Abdus Salam International Centre for Theoretical Physics (ICTP), Strada Costiera 11, I-34014 Trieste, Italy; fax: 39-040-224559. Further information is available on the World Wide Web at <http://www.twas.org/>.

—From a TWAS announcement