
Mathematics Opportunities

Collaboration in Mathematical Geosciences

The Division of Mathematical Sciences of the National Science Foundation sponsors an activity called Collaboration in Mathematical Geosciences (CMG).

The purposes of the CMG activity are: (A) Interdisciplinary Group Research Projects—to enable collaborative research at the intersection of mathematical sciences and geosciences, and to encourage cross-disciplinary education through (B) Interdisciplinary Postgraduate Summer Training—summer graduate training activities and (C) Interdisciplinary Postdoctoral Research—opportunities for interdisciplinary postdoctoral research. Research topics under (A) should fall within one of three broad themes: (1) mathematical and statistical modeling of large, complex geosystems; (2) representing uncertainty in geosystems; or (3) analyzing large geoscience data sets. Research projects supported under this activity must be essentially collaborative in nature. Research groups must include at least one mathematical scientist and at least one geoscientist.

Please see the webpage <http://www.nsf.gov/pubsys/ods/getpub.cfm?nsf05535> for details. The deadline for proposals is **March 14, 2005**.

—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 2005–2006 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 15, 2005**. 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 American Mathematical Society, the Educational Advancement Foundation, the American Statistical Association, the National Council of Teachers of Mathematics, Texas Instruments, the Association of Mathematics Teacher Educators, the Association for Symbolic Logic, and the Greater MAA Fund.

—Christine Stevens, Project NExT

International Mathematics Competition for University Students

The Twelfth International Mathematics Competition for University Students (IMC) will be held July 22–28, 2005, at the American University in Bulgaria in Blagoevgrad, Bulgaria. The competition is coorganized by the American University and University College, London.

Participating universities are invited to send several students and one teacher each. Individual students are welcome. The competition is intended for students

completing their first, second, third, or fourth years of university education and will consist of two sessions of five hours each. Problems will be taken from the fields of algebra, analysis (real and complex), and combinatorics. The working language will be English.

The deadline for registration is **May 31, 2005**. For more complete information, see the website <http://www.imc-math.org> or contact John E. Jayne, Department of Mathematics, University College London, Gower Street, London WC1E 6BT, United Kingdom; telephone +44-20-7679-7322; fax +44-20-7419-2812; email: j.jayne@imc-math.org. If you would like a copy of the competition poster, please send your request with postal address to j.jayne@imc-math.org.

—From an IMC announcement

Summer Program for Women Undergraduates

The 2005 Summer Program for Women in Mathematics (SPWM) will take place at George Washington University in Washington, DC, from July 2 to August 6, 2005. This is a five-week intensive program for mathematically talented undergraduate women who are completing their junior years and may be contemplating graduate study in mathematical sciences. Goals of this program are to communicate an enthusiasm for mathematics, to develop research skills, to cultivate mathematical self-confidence and independence, and to promote success in graduate school.

Sixteen women will be selected. Each will receive a travel allowance, campus room and board, and a stipend of \$1,500. The deadline for applications to be received is **March 1, 2005**. Early applications are encouraged.

For further information please contact the director, Murli M. Gupta, email: mmg@gwu.edu, telephone 202-994-4857; or visit the program's website at <http://www.gwu.edu/~math/spwm.html>. Application material may be printed from the website.

—Murli M. Gupta, George Washington University

European Mathematical Society Announces New Article Competitions

The Committee for Raising Public Awareness of Mathematics (RPA) of the European Mathematical Society (EMS) is seeking submissions of articles for two new competitions: one for articles aimed at the educated layperson and the other for articles that address a general audience.

Competition 2005 focuses on articles for the educated layperson. These must be articles that have been or are about to be published in an international magazine or in a specialized national magazine that publishes articles on

mathematics for an educated public. Articles should be submitted both in the original language (the published version) and preferably also in an English translation. Article translations may, however, also be submitted in French, German, Italian, or Spanish. The English or alternative language version should be submitted both in paper and electronic forms. The deadline for submissions to Competition 2005 is **August 1, 2005**.

Competition 2006 focuses on articles for the general public. Entries must be already published or about to be published in a daily newspaper or some other widely read general magazine. Articles should be submitted both in the original language (the published version) and preferably also in an English translation. Article translations may, however, also be submitted in French, German, Italian, or Spanish. The English or alternative language version should be submitted both in paper and electronic forms. The deadline for submissions to Competition 2006 is **January 1, 2006**.

For each competition, prizes of 200 euros (about US\$270), 150 euros (about US\$200), and 100 euros (about US\$135) respectively will be awarded to the three best articles. Many of the winning articles will be published in the *Newsletter of the EMS*.

Articles should be identified with the name of the competition to which they are being submitted: Competition 2005 or Competition 2006. The address for submission is: Vagn Lundgaard Hansen, Department of Mathematics, Technical University of Denmark, Matematiktorvet, Building 303, DK-2800 Kongens Lyngby, Denmark; email: V.L.Hansen@mat.dtu.dk. For more information see the website <http://www.mat.dtu.dk/people/V.L.Hansen/rpa/secondartcomp.html>.

—From an EMS announcement

Call for Nominations for Lucien Godeaux Prize

The Liege Royal Society of Sciences is seeking nominations for the Lucien Godeaux Prize in Mathematics, one of four prizes to be awarded in honor of the 150th anniversary of the founding of the society.

The prize will be awarded to a researcher or researchers under thirty-five years of age for a body of work published by a single author or by collaborating authors. The prize carries a cash award of 2,500 euros (about US\$3,350). The deadline for applications is **October 1, 2005**.

For information on the nominating process, please contact J. Aghion, c/o Secretariat of the Royal Society of Sciences of Liege, Institute of Mathematics of the University of Liege, 12 Grande Traverse, Sart Tilman Bat. B 37, B-4000 Liege 1, Belgium; email: jaghion@ulg.ac.be.

—From a Royal Society of Sciences announcement

Call for Nominations for Information-Based Complexity Prize

The Prize for Achievement in Information-Based Complexity is awarded every year for work done in a single year, in a number of years, or over a lifetime. The work can be published in any journal, in a number of journals, or in monograph form.

The prize consists of \$3,000 and a plaque. The deadline for nominations is **March 31, 2005**. However, a person does not need to be nominated to win the award. For more information, contact Joseph Traub at traub@cs.columbia.edu.

—Joseph Traub, Columbia University

NSF Computing Equipment and Instrumentation Programs

The Division of Mathematical Sciences of the National Science Foundation (NSF) plans a limited number of awards for the support of computing environments for research in the mathematical sciences. SCREMS (Scientific Computing Research Equipment for the Mathematical Sciences) supports computing environments dedicated to research in the mathematical sciences. Proposals may request support for the purchase of computing equipment and limited support for professional systems administrators or programmer personnel for research computing needs. These grants are intended to support research projects of high quality that require access to advanced computing resources. Requests for routine upgrades of standard desk-environment workstations or laptop computers are not appropriate for this program. Awards are made to provide support for specific research projects rather than to provide general computing capacity. Proposers are encouraged to include projects involving symbolic and algebraic computations, numerical computations and simulations, and graphical representations (visualization) in aid of the research. Effective in FY 2005, cost sharing is no longer required and will not be considered by NSF in the evaluation of SCREMS proposals.

Please see <http://www.nsf.gov/pubsys/ods/getpub.cfm?nsf05538> for details. The deadline for proposals is **April 4, 2005**.

—From an NSF announcement

News from MSRI

The Mathematical Sciences Research Institute (MSRI) will host a workshop focused on Mathematical Knowledge for Teaching from May 25–28, 2005 in Berkeley, California. The conference is designed to bring together K–12 educators,

educational researchers, mathematicians, and policy makers to examine what is known about the knowledge needed for teaching mathematics, and how it can be developed and learned. Funding may be available to support workshop attendees. Students, recent Ph.D.'s, women, and minorities are particularly encouraged to apply. For more information, visit <http://www.msri.org/> (see “Workshops” listing).

—From an MSRI announcement