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# Mathematics Opportunities

## NSF CAREER Program Guidelines Available

The guidelines for the Faculty Early Career Development (CAREER) Program of the National Science Foundation (NSF) are now available on the Web. The program solicitation number is 05-579. Information is available at <http://www.nsf.gov/pubsys/ods/getpub.cfm?nsf05579>. The deadline for submission of proposals is **July 20, 2006**.

—From an NSF announcement

## Computational Science Training for Undergraduates in the Mathematical Sciences

The Computational Science Training for Undergraduates in the Mathematical Sciences (CSUMS) program of the National Science Foundation (NSF) is intended to enhance computational aspects of the education and training of undergraduate students in mathematics and statistics and to better prepare these students to pursue careers and graduate study in fields that require integrated strengths in computation and the mathematical sciences.

The core of the activity is long-term research experiences for cohorts of at least six undergraduates. Projects must focus on research topics that require interplay between computation and mathematics or statistics. Proposals are welcome for projects that create models for education in the mathematical sciences and that influence the direction of academic programs for a broad range of students.

Deadlines for full proposals in 2006 are **June 27, 2006**, and **October 17, 2006**. For further information, see [http://www.nsf.gov/publications/pubsumm.jsp?ods\\_key=nsf06559](http://www.nsf.gov/publications/pubsumm.jsp?ods_key=nsf06559).

—From an NSF announcement

## Call for Nominations for Sloan Fellowships

Nominations for candidates for Sloan Research Fellowships, sponsored by the Alfred P. Sloan Foundation, are

due by **September 15, 2006**. A candidate must be a member of the regular faculty at a college or university in the United States or Canada and must have received the Ph.D. or equivalent within the six years previous to the nomination. For information, write to: Sloan Research Fellowships, Alfred P. Sloan Foundation, 630 Fifth Avenue, Suite 2550, New York, NY 10111-0242; or consult the foundation's website: [http://www.sloan.org/programs/fellowship\\_brochure.shtml](http://www.sloan.org/programs/fellowship_brochure.shtml).

—From a Sloan Foundation announcement

## Call for Nominations for Aisenstadt Prize

The Centre de Recherches Mathématiques (CRM) solicits nominations for the André Aisenstadt Mathematics Prize. The prize recognizes outstanding research achievement by a young Canadian mathematician in pure or applied mathematics.

Candidates must be Canadian citizens or permanent residents of Canada and must have received the Ph.D. within the preceding seven years. The recipient is invited to deliver a lecture at CRM and to write a brief article on his or her work for publication in the CRM's *Bulletin*.

Nominations must be submitted by at least two sponsors and include the following information: a curriculum vitae, a list of publications, a cover letter explaining the basis of the nomination, up to four reprints, and a maximum of four letters of support. The deadline for nominations is **October 1, 2006**. Nominations must be submitted to the director of the CRM, Université de Montréal, C. P. 6128, Succursale Centre-ville, Montréal, QC H3C 3J7 Canada; fax: 514-343-2254; email: [directeur@crm.umontreal.ca](mailto:directeur@crm.umontreal.ca).

—From a CRM announcement

## Call for Nominations for SASTRA Ramanujan Prize

The Shanmugha Arts, Science, Technology Research Academy (SASTRA) invites nominations for the 2006 SASTRA Ramanujan Prize. The prize carries a cash award of US\$10,000, and the winner will be invited to give a talk at the SASTRA conference in December 2006. The deadline

for nominations is **July 31, 2006**. For more information, email: [sastraprize@math.ufl.edu](mailto:sastraprize@math.ufl.edu), or see the website <http://www.math.ufl.edu/sastra-prize/>.

—*Krishnaswami Alladi, University of Florida*

## Call for Nominations for Heineman Prize

The American Physical Society (APS) and the American Institute of Physics are seeking nominations for the 2007 Dannie Heineman Prize for Mathematical Physics. The prize recognizes outstanding publications in the field of mathematical physics. The prize carries a cash award of US\$7,500, an award certificate, and travel expenses to the meeting at which the prize is given. The deadline for nominations is **July 1, 2006**. For more information, see the APS website at <http://www.aps.org/praw/heineman/index.cfm>.

—*From an APS announcement*

## Call for Nominations for Vasil Popov Prize

The Vasil Popov Prize is awarded every three years for outstanding research contributions in fields related to the work of Vasil Popov, who is best known for his contributions to approximation theory. Candidates must have received the Ph.D. within the previous six years. Nominations should include a brief description of the relevant work and a vita of the candidate. The deadline for nominations is **November 1, 2006**. Nominations should be sent to Pencho Petrushev, Chair, Popov Prize Selection Committee, Department of Mathematics, University of South Carolina, Columbia, SC 29208; email: [popov@math.sc.edu](mailto:popov@math.sc.edu). For further information, visit the website <http://www.math.vanderbilt.edu/~at07/popov.html>.

—*Pencho Petrushev, University of South Carolina*

## Call for Entries for Pirelli INTERNETional Award

The Pirelli INTERNETional Award is an international multimedia competition for the communication of science and diffusion of scientific and technological culture entirely carried out on the Internet. Awards in the 2006 competition will be made for multimedia communications in the areas of mathematics, physics, chemistry, life sciences, and information and communications technology. The prize for the best multimedia work in mathematics is 15,000 euros (approximately US\$18,000). The deadline for entries is

**December 31, 2006**. For more information, see the website <http://www.pirelliaward.com>.

—*From a Pirelli Award announcement*

## News from the CRM Montreal

The Centre de Recherches Mathématiques (CRM) in Montreal, Canada, has announced its thematic program for the semester running from June to December 2006. Devoted to combinatorial optimization, it will be organized by David Avis (McGill University), David Bremner (University of New Brunswick), Vašek Chvátal (Concordia University), Bill Cunningham (University of Waterloo), Michel Goemans (MIT), Pierre Hansen (HÉC, Montreal), Odile Marcotte (UQAM, Montreal), and Adrian Vetta (McGill University).

The semester will begin (June 19–30, 2006) with the SMS-NATO Advanced Study Institute 2006 Summer School on Combinatorial Optimization: Methods and Applications, which will be organized by Vašek Chvátal (Concordia University) and Najiba Sbihi (Mohammadia Engineering School, Rabat). It is primarily targeted at senior graduate students, postdocs, and junior faculty members.

The following workshops will be held.

*June 12–14, 2006:* Approximation Algorithms. Organizers: Joseph Cheriyan (University of Waterloo) and Michel Goemans (MIT).

*August 14–16, 2006:* Network Design: Optimization and Algorithmic Game Theory. Organizers: Shie Mannor (McGill University) and Adrian Vetta (McGill University).

*September 18–22, 2006:* Hybrid Methods and Branching Rules in Combinatorial Optimization. Organizer: Vašek Chvátal (Concordia University).

*October 10–13, 2006:* Data Mining and Mathematical Programming. Organizers: Pierre Hansen (HÉC, Montreal) and Panos Pardalos (University of Florida).

*October 17–20, 2006:* Polyhedral Computation. Organizers: David Avis (McGill University), David Bremner (University of New Brunswick), and Antoine Deza (McMaster University).

The Aisenstadt Lecturers will be Noga Alon (Tel Aviv University) and Paul Seymour (Princeton University).

Besides the thematic program, a number of activities will take place at the CRM during this period.

A conference on Geometric Group Theory will be held July 3–14, 2006. The organizers are Mladen Bestvina (University of Utah), Steve Boyer (UQAM, Montreal), Tadeusz Januszkiewicz (Ohio State University), Michah Sageev (Technion, Israel), and Daniel Wise (McGill University). During the first week, five minicourses on emerging ideas in geometric group theory will be presented.

The XXIIIrd International Biometrics Conference will take place at the downtown campus of McGill University, July 16–21, 2006. The president of the conference will be Geert Molenberghs (Limburg University Center, Belgium), and the local organizing committee is chaired by Jim Hanley (McGill University).

The 4th RECOMB Comparative Genomics Satellite Workshop will be held in Montreal, September 24–26, 2006. The local program coordinators are Guillaume Bourque and Nadia El-Mabrouk (University of Montreal).

For more information on the lecturers at various events and on the support available for visitors, graduate students, and postdoctoral fellows, see <http://www.crm.umontreal.ca>.

—CRM announcement

## News from the Fields Institute

The Fields Institute for Research in the Mathematical Sciences has announced its thematic program for the 2006–2007 academic year on cryptography and on geometric applications of homotopy theory. The fall program is organized by Hugh Williams (chair), Ian F. Blake, Alfred Menezes, Michele Mosca, Kumar Murty, Renate Scheidler, Douglas Stinson, and Ramarathnam Venkatesan. Activities and dates for the fall program on cryptography follow.

*September 18–20, 2006:* Algebraic curves in cryptography: The Tenth Workshop on Elliptic Curve Cryptography (ECC 2006).

*September 25–27, 2006:* Coxeter Lecture Series. Lecturer: Gerhard Frey.

*October 2–6, 2006:* Workshop on quantum cryptography and computing.

*October 30–November 3, 2006:* Workshop on computational challenges arising in algorithmic number theory and cryptography.

*November 27–December 1, 2006:* Workshop on cryptography: Underlying mathematics, provability, and foundations.

The winter semester program on geometric applications of homotopy theory is organized by J. F. Jardine (chair), G. Carlsson, and J. D. Christensen. The dates of the scheduled workshops follow.

*January 9–13, 2007:* Workshop on higher categories and their applications.

*March 26–30, 2007:* Workshop on homotopy theory of schemes.

*May 14–18, 2007:* Workshop on stacks in geometry and topology.

The Fields Distinguished Lecture Series will be presented by Michael Hopkins. The thematic program for fall 2007 will be operator algebras. The principal organizer is George Elliott.

For further information on all Fields Institute activities, see the website <http://www.fields.utoronto.ca>.

—From a Fields Institute announcement