
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 World Wide 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 19, 2007**.

—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.

Deadline for full proposals is **October 17, 2007**. For further information, see http://www.nsf.gov/publications/pub_summ.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, 2007**. 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 prior 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.

—From a Sloan Foundation announcement

Call for Nominations for ICTP Ramanujan Prize

The Abdus Salam International Centre for Theoretical Physics (ICTP) invites nominations for the 2007 Ramanujan Prize for young mathematicians from developing countries. The prize, funded by the Niels Henrik Abel Memorial Fund, carries a cash award of US\$10,000 and an allowance to visit ICTP to deliver a lecture.

The prize is awarded annually to a researcher from a developing country who is under forty-five years of age on December 31 of the year of the award and who has conducted outstanding research in a developing country. Researchers working in any branch of the mathematical sciences are eligible. The deadline for receipt of nominations is **July 31, 2007**. For further information, see the website <http://www.ictp.it/>.

—From an ICTP announcement

Call for Nominations for SASTRA Ramanujan Prize

The Shanmugha Arts, Science, Technology Research Academy (SASTRA) invites nominations for the 2007 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 2007. The deadline for nominations is **August 15, 2007**. For more information email 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 (AIP) are seeking nominations for the 2008 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, 2007**. For more information see the APS website at <http://www.aps.org/praw/heineman/index.cfm>.

—From an APS 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 2007. Organized under the chairmanship of A. R. Humphries (McGill University), it will be devoted to applied dynamical systems.

The semester will begin (July 2–7, 2007) with the workshop Advanced Algorithms and Numerical Software for the Bifurcation Analysis of Dynamical Systems, preceded by a minicourse (June 30–July 1, 2007), both organized by E. Doedel (Concordia University) and H. Osinga (Bristol University). The miniconference Path and Boundary Value Problems: A Continuing Influence in Dynamics, to be held July 6–7, 2007, will celebrate Eusebius Doedel's sixtieth birthday.

The following workshops will be held:

September 16–19, 2007: Mathematical Neuroscience. Organizers: S. Coombes (University of Nottingham), A. Longtin (University of Ottawa), and J. Rubin (University of Pittsburgh).

September 22–23, 2007: Minicourse entitled Quantitative Biology.

September 24–28, 2007: Deconstructing Biochemical Networks. Organizers: P. S. Swain (McGill University), B. P. Ingalls (University of Waterloo), and M. C. Mackey (McGill University).

November 1–5, 2007: Joint AARMS-CRM workshop Recent Advances in Functional and Delay Differential Equations at Dalhousie University, Halifax, Nova Scotia. Organizers: J. Appleby (Dublin City University), H. Brunner (Memorial University), A. R. Humphries (McGill University), P. Keast (Dalhousie University), P. Muir (St. Mary's University), and D. E. Pelinovsky (McMaster University).

November 14–16, 2007: Dynamical Systems and Continuum Physics. Organizer: L. Tuckerman (PMMH-ESPCI, France).

December 11–14, 2007: Chaos and Ergodicity of Realistic Hamiltonian Systems. Organizers: H. Broer (Gröningen University) and P. Tupper (McGill University).

The Aisenstadt Lecturers will be John Rinzel (Courant Institute of the Mathematical Sciences, New York

University) and John Tyson (Virginia Polytechnic Institute and State University). Moreover, two advanced graduate courses associated with the semester will be offered during the fall of 2007: A Practical Introduction to SDEs at McGill University, with P. Tupper, and Numerical Analysis of Nonlinear Equations at Concordia University, with E. Doedel.

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

The SMS-NATO Advanced Study Institute 2007 Summer School will deal with Hamiltonian Dynamical Systems and Applications, June 18–29, 2007. The scientific directors are W. Craig (McMaster University) and A. I. Neistadt (Space Research Institute, Moscow).

A workshop, Mixed Integer Programming, will be held June 30–August 2, 2007. The organizers of the scientific program are O. Gunluk (IBM), M. Koeppe (Magdeburg University), A. Miller (University of Wisconsin, Madison), and J.-P. Richard (Purdue University); the local organizers are O. Marcotte (CRM) and Jacques Desrosiers (HEC Montreal).

A workshop, Nonlinear Integral Transforms: Fourier-Mukai and Nahm, will be held August 27–31, 2007, organized by B. Charbonneau (McGill University), J. Hurtubise (McGill University), M. B. Jardim (University of Campinas), and E. Markman (University of Massachusetts, Amherst).

The First Montreal Industrial Problem Solving Workshop will take place August 20–24, 2007, organized by J.-M. Rousseau (CIRANO and *ncm*₂).

The CRM is a joint sponsor of the symposium Probability and Stochastic Processes to be held at Carleton University, June 5–8, 2007, in honor of the seventieth birthday of D. A. Dawson. Organizers are Miklós Csörgö, Antal A. Járαι, and Yiqiang Q. Zhao (Carleton University); other joint sponsors are the Fields Institute, the Laboratory for Research in Statistics and Probability, and Carleton University. The CRM and the Mathematics Research Center (MRC) at Stanford University are joint sponsors of a conference, New Perspectives and Challenges in Symplectic Field Theory, to be held at Stanford University June 25–29, 2007, in honor of the sixtieth birthday of Y. Eliashberg. The organizers are M. Abreu, R. Cohen, S. Givental, F. Lalonde, R. Lipshitz, L. Polterovich, and R. Schoen.

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