

Mathematics Opportunities

National Academies Research Associateship Programs

The Policy and Global Affairs Division of the National Academies is sponsoring the 2007 Postdoctoral and Senior Research Associateship Programs. The programs are meant to provide opportunities for Ph.D., Sc.D., or M.D. scientists and engineers of unusual promise and ability to perform research at more than 100 research laboratories throughout the United States and overseas.

Full-time associateships will be awarded for research in the fields of mathematics, chemistry, earth and atmospheric sciences, engineering, applied sciences, life sciences, space sciences, and physics. Most of the laboratories are open to both U.S. and non-U.S. nationals and to both recent doctoral recipients and senior investigators.

Amounts of stipends depend on the sponsoring laboratory. Support is also provided for allowable relocation expenses and for limited professional travel during the period of the award.

Awards will be made four times during the year, in February, May, August, and November. The deadline for application materials to be postmarked or for electronic submissions for the February 2007 review is **February 1, 2007**.

For further information and application materials, see the National Academies website at <http://www7.nationalacademies.org/rap/> or contact Research Associateship Programs, National Research Council, Keck 568, 500 Fifth Street, NW, Washington, DC 20001; telephone 202-334-2760; fax 202-334-2759; rap@nas.edu.

—From an NRC 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 January to June 2007. Devoted to recent advances in combinatorics optimization, it will be organized by F. Bergeron, S. Brlek, P. Leroux, and C. Reutenauer, all of the University of Quebec at Montreal (UQAM).

The semester will begin (January 19–21, 2007) with a miniworkshop, Algebraic Combinatorics Meets Inverse Systems, organized by F. Bergeron, K. Dalili (Dalhousie University), S. Faridi (Dalhousie University), and A. Lauve (UQAM). Five workshops will be held, four of which will be preceded by a school. The schedule follows.

February 12–16, 2007: School on Statistical Mechanics and Combinatorics.

February 19–23, 2007: Workshop on Combinatorial Problems Raised by Statistical Mechanics. Organizers: M. Bousquet-Mélou (University of Bordeaux), P. Leroux (UQAM), T. Guttman (University of Melbourne), and A. Sokal (New York University).

March 5–9, 2007: School on Combinatorics on Words.

March 12–16, 2007: Workshop on Recent Progress in Combinatorics on Words. Organizers: S. Brlek (UQAM), C. Reutenauer (UQAM), and B. Sagan (Michigan State University).

April 30–May 4, 2007: School on Macdonald Polynomials.

May 7–11, 2007: Workshop on Combinatorial Hopf Algebras and Macdonald Polynomials. Organizers: M. Aguiar (Texas A&M University), F. Bergeron (UQAM), N. Bergeron (York University), M. Haiman (University of California, Berkeley), and S. van Willigenburg (University of British Columbia).

May 21–25, 2007: School on Algebraic Geometry and Algebraic Combinatorics.

May 28–June 1, 2007: Workshop on Interactions between Algebraic Combinatorics and Algebraic Geometry. Organizers: F. Bergeron (UQAM), A. Geramita (Queen's University), A. Knutson (University of California, San Diego), R. Vakil (Stanford University), and S. Faridi (Dalhousie University).

June 11–22, 2007: Real, Tropical, and Complex Enumerative Geometry. Organizers: V. Kharlamov (University of Strasbourg) and R. Pandharipande (Princeton University).

The Aisenstadt Lecturer will be Richard Stanley (Massachusetts Institute of Technology).

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

A conference Groups and Symmetries: From the Neolithic Scots to John McKay will be held from April 27–30, 2007, in honor of four decades of contributions by John McKay. The organizers are J. Harnad (Concordia University) and P. Winternitz (CRM).

A short program Moduli Spaces and Related Topics will be held June 4–15, 2007, at the CRM, organized by D. Korotkin and M. Bertola. The conference Fractals in Engineering VI, organized by F. Nekka and J. Lévy Véhel, will be held July 4–6, 2007, at the CRM. A conference on Banach Algebras will be held July 4–12, 2007, at Laval University; organizers are T. J. Ransford and D. Jakobson. The Workshop on Statistical Methods for Modeling Dynamic Systems will be held July 9–13, 2007, at the CRM, organized by J. Ramsay.

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>.

—From a CRM announcement