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# Mathematics Opportunities

## Travel Grants for ICM 2002, Beijing, China

The American Mathematical Society has applied to the National Science Foundation (NSF) for funds to permit partial travel support for U.S. mathematicians attending the 2002 International Congress of Mathematicians (ICM2002), to be held August 20–28, 2002, in Beijing, China. In anticipation of the availability of funds, the Society is preparing to administer the selection process, which would be similar to those for previous programs funded in 1990, 1994, and 1998.

This program is open to U.S. mathematicians (those who are currently affiliated with a U.S. institution). Early-career mathematicians (those within six years of the doctorate), women, and members of U.S. groups under-represented in mathematics are especially encouraged to apply. ICM2002 Invited Speakers from U.S. institutions should submit applications if funding is desired.

Applications for support are included in the back of this issue, and forms will be available on the AMS Website (<http://www.ams.org/careers-edu/icmapp.html>) beginning August 1, 2001. All completed application forms must be mailed to the AMS by **October 31, 2001**. This travel grants program, if funded, will be administered by the Professional Services Department, AMS, P.O. Box 6248, Providence, RI 02940. The department may be contacted by e-mail at [ICM02@ams.org](mailto:ICM02@ams.org) or by telephone at 800-321-4267, ext. 4105, or 401-455-4105.

Applications will be evaluated by a panel of mathematical scientists under the terms of a proposal submitted to the NSF by the Society. Should the proposal to the NSF be funded, the following conditions will apply. Mathematicians accepting grants for partial support of travel to ICM2002 may not supplement them with any other NSF funds. Currently, it is the intention of the NSF's Division of Mathematical Sciences to provide no additional funds on its other regular research grants for travel to ICM2002. However, an individual mathematician who does not receive a travel grant may use regular NSF grant funds, subject to the usual restrictions and prior approval requirements.

All information currently available about the ICM2002 program, organization, and registration procedure is located on the ICM2002 Website, <http://www.icm2002.org.cn/>.

—AMS Professional Services Department

## Funding Opportunities at NIH

The National Institute of General Medical Sciences (NIGMS) of the National Institutes of Health (NIH) seeks to forge interdisciplinary partnerships between biomedical researchers and mathematical scientists and engineers.

For more information about new funding opportunities that include grants for research, training, and workshops, please visit the NIGMS Website at [http://www.nigms.nih.gov/funding/complex\\_systems.html](http://www.nigms.nih.gov/funding/complex_systems.html).

—From an NIGMS announcement

## Call for Nominations for AWM Hay and Schafer Awards

The Executive Committee of the Association for Women in Mathematics (AWM) is calling for nominations for the Louise Hay Award for Contributions to Mathematics Education and the Alice T. Schafer Mathematics Prize.

The Louise Hay Award is intended to recognize outstanding achievements in any area of mathematics education, interpreted in the broadest possible sense. The award is presented annually to highlight the importance of mathematics education and to evoke the memory of all that Hay exemplified as a teacher, scholar, administrator, and human being. The nomination document(s) should include: (1) a one- to three-page letter of nomination highlighting the exceptional contributions of the candidate; (2) a curriculum vitae of the candidate, not exceeding three pages; and (3) three letters supporting the nomination. It

is strongly recommended that the letters represent a range of constituents affected by the nominee's work.

The Alice T. Schafer Prize is awarded to an undergraduate woman for excellence in mathematics. The nominee may be at any level in her undergraduate career but must either be a U.S. citizen or have a U.S. school address. A letter of nomination for the Schafer Prize should include, but not be limited to, an evaluation of the nominee on the following criteria: (1) quality of performance in advanced mathematics courses and special programs, (2) demonstration of real interest in mathematics, (3) ability to do independent work in mathematics, and (4) performance in mathematical competitions at the local or national level, if any. A copy of transcripts and an indication of the candidate's undergraduate level should be included with a letter of nomination. Supporting materials (e.g., reports from summer work using mathematics, copies of talks given in student chapters, recommendations, etc.), if applicable, should be enclosed with the nomination.

Five complete copies of nomination material for these awards should be sent to either: The Hay Award Selection Committee or The Alice T. Schafer Award Selection Committee, Association for Women in Mathematics, 4114 Computer & Space Sciences Building, University of Maryland, College Park, MD 20742-2461. For further information call the AWM at 301-405-7892 or send e-mail to [awm@math.umd.edu](mailto:awm@math.umd.edu). Please note that nominations via e-mail or fax are not acceptable. The deadline for nominations for both awards to be received at the AWM office is **October 1, 2001**.

—AWM announcement

## Call for Proposals for CARGO Program

The Division of Computer and Communications Research (CCR) and the Division of Mathematical Sciences (DMS) of the National Science Foundation (NSF), together with the Defense Sciences Office of the Defense Advanced Research Projects Agency (DARPA), plan to support research and development teams focusing on mathematical and computational innovations relevant to representation and computational manipulation of geometrical objects. The title of the program is Computational and Algorithmic Representations of Geometric Objects (CARGO).

These awards will be administered by the NSF. Areas of specific interest include: computational topology and geometry; computational and geometric cartography, including spatial statistics; and geometric aspects of graphics and computer-aided design (CAD).

Especially encouraged are efforts involving collaborations of experts in the mathematical and computational sciences with other scientists, engineers, and practitioners representing diverse application areas. Proposals for incremental improvements or ongoing efforts will not be selected for funding.

Two types of projects are anticipated: (1) Incubation grants: Standard awards of up to \$100K for one or two years to develop collaborations of mathematical scientists, computer scientists, and application experts relevant to the objectives of the CARGO program; and (2) Team grants: Continuing awards of up to three years at \$200,000–\$300,000 per year to support teams of investigators. The total anticipated funding amount is \$4 million in fiscal year 2002.

The deadline for proposals is **September 4, 2001**. The following three program officers may be contacted for further information: William Randolph Franklin, CCR, telephone 703-292-8912, e-mail: [wfrankli@nsf.gov](mailto:wfrankli@nsf.gov); Alvin I. Thaler, DMS, telephone 703-292-4863, e-mail: [thaler@nsf.gov](mailto:thaler@nsf.gov); Douglas Cochran, DARPA, telephone 703-696-2287, e-mail: [dcochran@darpa.mil](mailto:dcochran@darpa.mil).

The program announcement is available at <http://www.nsf.gov/pubs/2001/nsf01111/nsf01111.htm>.

—From an NSF announcement

## Call for Nominations for NAS Award

The National Academy of Sciences is accepting nominations for the NAS Award in Applied Mathematics and Numerical Analysis, a \$10,000 prize awarded approximately every three years for outstanding work in applied mathematics and numerical analysis by a candidate whose research has been carried out in institutions located in North America.

Nominations will be accepted through **August 31, 2001**. For more information contact: National Academy of Sciences, Awards Program, Room NAS 185, 2101 Constitution Avenue, NW, Washington, D.C. 20418; phone: 202-334-1602; fax: 202-334-1682; e-mail: [awards@nas.edu](mailto:awards@nas.edu); Web: <http://www.national-academies.org/nas/awards/>.

—From an NAS announcement

## NSF Focused Research Groups

The Focused Research Groups (FRG) activity of the Division of Mathematical Sciences (DMS) of the National Science Foundation supports small groups of researchers in the mathematical sciences.

The DMS has announced tentative deadline dates for the fiscal year 2002 competition for FRG grants. The anticipated deadline for the required letters of intent to submit FRG proposals is **August 21, 2001**. The anticipated deadline date for full FRG proposals is **September 21, 2001**. At the time of this writing, these deadline dates were subject to change (but will not be any earlier than stated here).

Last year's FRG solicitation is the same as this year's, except for the deadline dates, and may be found on the Web at <http://www.nsf.gov/cgi-bin/getpub?nsf00114/>.

—Allyn Jackson