

# AMERICAN MATHEMATICAL SOCIETY

## About the AMS

SERVICES FOR THE PROFESSION

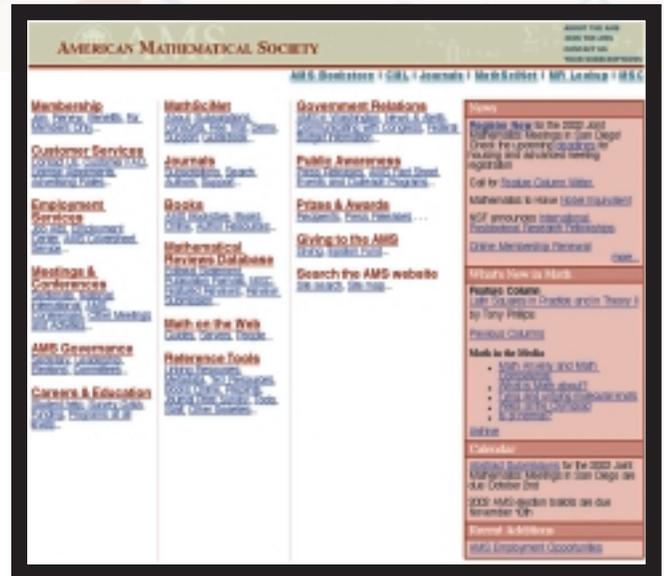
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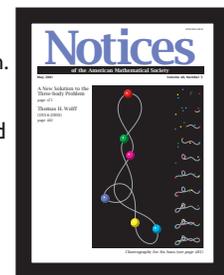
MEMBERSHIP



## SERVICES FOR THE PROFESSION

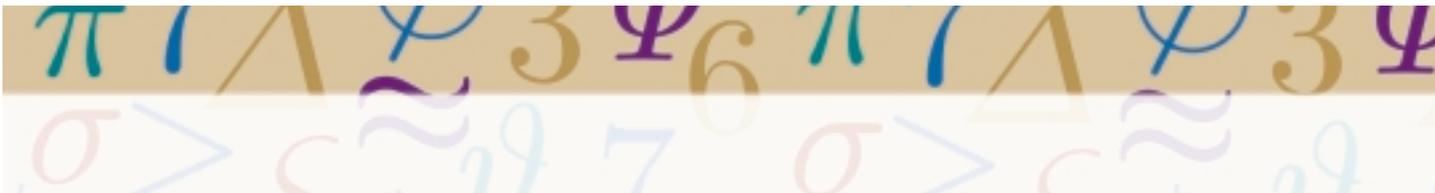
**Employment Services.** The AMS provides a variety of career and employment services to graduate students and to mathematicians throughout their careers. The Mathematical Sciences Employment Center, held at the annual Joint Mathematics Meetings each January, offers a computer-scheduled and employer-scheduled Interview Center. Electronic services include online job ads and an automated job application service.

**Notices of the American Mathematical Society.** This journal of record for the AMS is published eleven times per year and is freely accessible online. Throughout the world it is viewed as a central source for information about mathematics and the profession.



**Reference Tools & Resources.** The AMS offers these tools and resources for researchers, authors, and educators in the mathematical sciences, accessible at no charge on the AMS website: **MR Lookup**, a tool for verifying references and for adding links to MathSciNet; the *Combined Membership List*; Directory of Institutions; TeX and AMS-TeX resources (for typesetting mathematics); and the Directory of Mathematics Preprint and e-Print Servers.

**Fellowships & Grants.** The AMS awards the Centennial Research Fellowship, and administers travel grants and the Ky and Yu-Fen Fan Endowment that facilitates collaborations between researchers in the U.S. and Canada and China.



The American Mathematical Society was founded in 1888 to further the interests of mathematical research and scholarship, and serves the national and international community through its meetings, publications, advocacy, and other programs. The Society's offices in Providence, Ann Arbor, and Washington, D.C. employ approximately 220 people. Nearly 30,000 individual members and over 500 institutions worldwide benefit from membership in the Society.



**Surveys & Reports.** The Annual Survey of the Mathematical Sciences published by the AMS includes statistics on undergraduates, graduate students, recent Ph.D.s, faculty, and departments. Every five years the AMS administers a major survey on the profession under the auspices of the Conference Board of the Mathematical Sciences. The Society also provides customized reports on request from department chairs.

**Washington, D.C. Office.** This AMS office represents the mathematics profession by organizing Congressional visits; participating in NSF, AAAS, and other conferences; administering the joint AAS-AMS-APS Public Service Award; organizing panels and workshops; and advocating for sound science policy and strong funding for research.

**Services for Mathematics Departments.** The AMS Washington office organizes a Workshop for Chairs and Leaders of Doctorate-granting Departments of Mathematical Sciences. The AMS also publishes and distributes free of charge *Towards Excellence: Leading a Doctoral Mathematics Department in the 21st Century*, edited by John Ewing, and *Proceedings of the Conference on Summer Undergraduate Mathematics Research Programs*, edited by Joseph A. Gallian.

**Book & Journal Donation Program.** The AMS serves to match donors with recipients, provides guidelines on suitable book and journal donations, and subsidizes shipping.

## MEETINGS & CONFERENCES

The AMS sponsors and co-sponsors meetings—forums where members and others in the mathematical community from around the world meet colleagues and leaders in the profession, announce and keep abreast of current research, and gain recognition for work: Joint Mathematics Meetings, held each January; co-sponsored with the Mathematical Association of America; eight Sectional Meetings; Joint International Meetings; and Summer Research Conferences co-sponsored by the AMS, the Institute of Mathematical Statistics, and the Society for Industrial and Applied Mathematics.

## PUBLICATIONS PROGRAM

The AMS publishes over 100 books annually, keeps in print an extensive backlist of monographs, textbooks, and proceedings, including a substantial number of classics originally from Chelsea Publishing, and distributes publications from other societies and publishers from around the world.

The AMS is a leader in electronic publishing, contributing to the creation of standards and developing tools for mathematicians. The Society's seven research journals are published electronically and are cross-searchable.

The *Mathematical Reviews* (MR) database—almost two million items covering over 60 years of mathematical literature—comprises the AMS's premier electronic database, **MathSciNet**. This electronic version of the MR database includes many powerful search and retrieval features for the researcher and links to over 180,000 original articles. The AMS offers Consortia Pricing to increase access to MathSciNet for small- and mid-sized institutions—public and private colleges and universities, community colleges, corporations and satellite campuses—that have limited budgets. The AMS also sponsors the National Mathematical Reviews Subscription Program for institutions in many developing countries to provide affordable access to MR.



## SUPPORT FOR MATHEMATICS EDUCATION

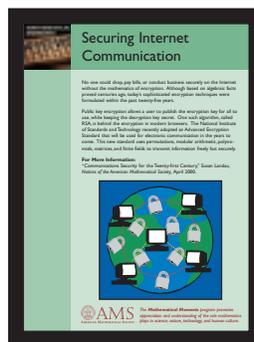
The AMS recognizes that excellence in mathematics education at all levels is key to sustaining mathematical research.

**High School Level.** The AMS invests in the future of the mathematical research community by supporting Young Scholars Programs that provide a crucial first experience in mathematics for talented and enthusiastic high school students who attend summer programs. The *Epsilon Fund* (“Epsilon” was a term used by the late Paul Erdős for young people) endows the Society’s support of these summer research programs. The annual Arnold Ross Lecture gives high school students the chance to meet and hear a prominent mathematician.

**Undergraduate Mathematics.** With the sponsorship of the National Security Agency (NSA), the AMS organized a three-day conference on Summer Undergraduate Research Programs at which program directors exchanged ideas, discussed issues, and established contacts so that these programs will continue to thrive. The AMS published and distributes at no charge the proceedings of this conference. A three-year grant for the NSF enables the AMS to send 10 undergraduate students per year to the Math in Moscow Semester, a study program at the Independent University of Moscow. Another way the AMS helps to encourage and support talented undergraduates in the pursuit of mathematics is through the AMS-MAA-SIAM Frank and Brennie Morgan Prize for outstanding research.

**Graduate-Level Mathematics.** The AMS publishes *Assistantships and Graduate Fellowships*, an annual resource on graduate study in mathematical sciences departments in the U.S. and Canada, and also publishes the highly-regarded Graduate Studies in Mathematics and other series of textbooks that are often adopted as graduate-level course texts. The AMS co-sponsors the AMS-AAAS Mass Media Fellowship Program, which offers mathematics graduate students a ten-week fellowship to work full-time over the summer as reporters, researchers, and production assistants in U.S. mass media organizations. The AMS is one of several organizations that support Project NExT (New Experiences in Teaching), a program of the MAA for new or recent mathematics Ph.D.s who are interested in improving the teaching and learning of undergraduate mathematics.

## FOSTERING AWARENESS & APPRECIATION OF MATHEMATICS



The AMS Public Awareness Office works with the media, scientific societies, institutes, universities, and museums to promote awareness of mathematics and to publicize meetings, events, prizes, and AMS programs.

**Mathematical Moments.** This series of informational flyers is designed to promote appreciation and understanding of the role mathematics plays in science, nature, technology, and human

culture. These introductory “snapshots” can be used as teaching tools or as informational handouts. Here is some of the feedback on the program: “Our department is going to download the flyers for a noticeboard display.” “The flyers provide a great resource for interesting and motivating students in mathematics.” “This collection is a brilliant example of the role mathematics plays...in real life.”

**Discoveries & Breakthroughs Inside Science.** The AMS collaborates with the American Institute of Physics to find story ideas that highlight new applications of mathematics. This series of video news segments aired by local TV stations shows how recent advances in science impact consumers.

**Math in the Media & Math Digest.** These monthly postings on the AMS website summarize articles on mathematics that appear in the general media and in popular science publications such as *Science*, *Nature*, *Discover*, and *Science News*.

**Mathematics Awareness Month.** The Joint Policy Board for Mathematics (AMS, MAA, and SIAM) sponsors Mathematics Awareness Month each April. The societies produce and mail a theme poster and publicity materials to mathematics departments and others, and maintain a website with additional related resources.

**Outreach Programs of the AMS Public Awareness Office.** The Public Awareness Office hosts *Who Wants To Be A Mathematician* at the Joint Mathematics Meetings and in other venues during the year. Ten students qualify for a chance to compete for the AMS-offered \$2,000 Grand Prize in this game of pre-calculus questions and multiple-choice answers. The office also publicizes outreach activities of math departments and other associations.

# AMS

## Membership

The American Mathematical Society provides tangible benefits that members and the mathematical community worldwide value, and it also offers individuals an opportunity to support or be actively involved in research, communications, and programs in their field. AMS programs and activities are made possible through grants, contributions from individuals and organizations, revenue from publications and services, and investments.

See [www.ams.org/membership](http://www.ams.org/membership) for news, details on benefits, dues, how to get involved, and to read the *AMS Member Newsletter* online.

## SPECIAL MEMBERSHIP OPPORTUNITIES

AMS Nominee Membership is offered free to graduate students proposed by AMS Institutional Member mathematics departments. A special introductory dues rate is available for qualifying first-time members, and a special low dues rate is offered to individuals who reside in developing countries.



The artwork in this brochure shows several frames of an animation constructed by Carles Simó—redrawn slightly—that exhibits the periodic orbital motion of six objects of equal mass on a single orbit. This is what is called in Richard Montgomery's article a "simple choreography". The whole series can be obtained from <http://www.maia.ub.es/dsg/nbody.html>.

— Bill Casselman ([covers@ams.org](mailto:covers@ams.org))

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### AMS Website:

[www.ams.org](http://www.ams.org); [webmaster@ams.org](mailto:webmaster@ams.org)

### Careers & Education:

[www.ams.org/careers-edu](http://www.ams.org/careers-edu); [prof-serv@ams.org](mailto:prof-serv@ams.org)

### Customer Services:

[www.ams.org/customers](http://www.ams.org/customers); [cust-serv@ams.org](mailto:cust-serv@ams.org)

### Development/Epsilon Fund:

[www.ams.org/giving-to-ams](http://www.ams.org/giving-to-ams); [development@ams.org](mailto:development@ams.org)

### Employment Services:

[www.ams.org/employment](http://www.ams.org/employment); [emp-info@ams.org](mailto:emp-info@ams.org)

### MathSciNet:

[www.ams.org/mathscinet](http://www.ams.org/mathscinet); [msn-support@ams.org](mailto:msn-support@ams.org)

### Meetings:

[www.ams.org/meetings](http://www.ams.org/meetings); [meet@ams.org](mailto:meet@ams.org)

### Membership:

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### Publications/Product Information:

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### Public Awareness Office:

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