

# Mathematics Calendar

The most comprehensive and up-to-date Mathematics Calendar information is available on e-MATH at <http://www.ams.org/mathcal/>.

## December 2003

- \* 9–13 **Ricci Flow and Geometrization of 3-Manifolds**, AIM Research Conference Center, Palo Alto, California.

**Workshop Topics:** This workshop, sponsored by AIM and the NSF, will focus on Grisha Perelman's recent work on Thurston's geometrization conjecture using Hamilton's Ricci flow.

**Organizers:** I. Agol, B. Chow, T. Colding, D. Gabai, and B. Kleiner.  
**Deadline:** October 1, 2003.

**Information:** <http://aimath.org/ARCC/workshops/geometrization.html>.

- \* 14–17 **International Workshop on Efficient Techniques for Numerical Solutions of Coupled PDE'S and Applications to Reservoir Simulation**, Institute for Studies in Theoretical Physics and Mathematics (IPM), Tehran, Iran.

**Objectives:** The aim of this workshop is to bring together mathematicians, numerical analysts and computational scientists interested in the solution of coupled partial differential equations. Emphasis will be placed on convection-dominated problems arising frequently in reservoir simulation and the role and influence of spatial heterogeneity on newly developed solution techniques.

**Organizers:** H. Azari (IPM), M. Dehghan (Amirkabir Univ. of Technology, Iran), F. Farhadpour (RIPI), G. B. Khosrovshahi (IPM), Y. Lin (Univ. of Alberta at Edmonton, Canada), M. Shahshahani (IPM).

**Confirmed Invited Speakers:** J. Douglas Jr. (Purdue Univ., USA), C. C. Douglas (Univ. of Kentucky, USA), Y. Lin (Univ. of Alberta at Edmonton, Canada), P. Markowich (Univ. of Vienna, Austria).

**Information:** <http://www.ipm.ac.ir/analysis2003/>.

- \* 29–January 2 **International Conference on Geometry and Spectral Theory**, Technion-Israel Institute of Technology, Haifa, Israel.

**Description:** The conference will be held under the auspices of the Mallat Family Fund for Research in Mathematics, to honor the memory of our friend and colleague Robert (Bob) Brooks, who passed away suddenly on September 5, 2002. The conference will be followed by a workshop on groups, geometry and dynamics.

**Speakers:** I. Benjamini, P. Buser, I. Chavel, J. Dodziuk, H. Farkas, L. Friedlander, A. Gamburd, V. Kaimanovich, M. Kotani, A. Lubotzky, E. Makover, R. Pinsky, I. Polterovich, D. Schueth, M. Shubin, B. Simon, M. Sodin, T. Sunada, S. Weinberger, G. Weinstein, and A. Zuk.

**Organizers:** M. Entov, Y. Pinchover, and M. Sageev.

**Information:** S. Schur (Conference Coordinator), Dept. of Math., Technion-Israel Inst. of Tech., 32000 Haifa, Israel; phone: 972 4 829 4278; fax: 972 4 829 3388; email: [cms@math.technion.ac.il](mailto:cms@math.technion.ac.il); <http://www.math.technion.ac.il/cms/brooks-conf.htm>.

## January 2004

- \* 5–9 **International Workshop on Groups, Geometry and Dynamics**, Technion-Israel Institute of Technology, Haifa, Israel.

**Workshop Topics:** This workshop, together with a conference on Geometry and Spectral Theory, will form a two-part program that will honor the memory of our friend and colleague Robert (Bob) Brooks, who passed away suddenly on September 5, 2002. The workshop will address growing and interesting interactions between geometric group theory, group actions on manifolds, differential and symplectic geometry, geometric topology and dynamics. These meetings will be held under the auspices of the Mallat Family Fund for Research in Mathematics.

**Speakers:** J. Anderson, P. Biran, A. Casson, K. Fujiwara, A. Furman, D. Gabai, V. Ginzburg, A. Givental, M. Katz, D. Kotschick, Y. Minsky, A. Nabutovsky, L. Polterovich, L. Potyagailo, M. Sapir, P. Shalen, J.-C.

This section contains announcements of meetings and conferences of interest to some segment of the mathematical public, including ad hoc, local, or regional meetings, and meetings and symposia devoted to specialized topics, as well as announcements of regularly scheduled meetings of national or international mathematical organizations. A complete list of meetings of the Society can be found on the last page of each issue.

An announcement will be published in the *Notices* if it contains a call for papers and specifies the place, date, subject (when applicable), and the speakers; a second announcement will be published only if there are changes or necessary additional information. Once an announcement has appeared, the event will be briefly noted in every third issue until it has been held and a reference will be given in parentheses to the month, year, and page of the issue in which the complete information appeared. Asterisks (\*) mark those announcements containing new or revised information.

In general, announcements of meetings and conferences held in North America carry only the date, title of meeting, place of meeting, names of speakers (or sometimes a general statement on the program), deadlines for abstracts or contributed papers, and source of further information. Meetings held outside the North American area may carry more detailed information. In any case, if there is any application deadline with

respect to participation in the meeting, this fact should be noted. All communications on meetings and conferences in the mathematical sciences should be sent to the Editor of the *Notices* in care of the American Mathematical Society in Providence or electronically to [notices@ams.org](mailto:notices@ams.org) or [mathcal@ams.org](mailto:mathcal@ams.org).

In order to allow participants to arrange their travel plans, organizers of meetings are urged to submit information for these listings early enough to allow them to appear in more than one issue of the *Notices* prior to the meeting in question. To achieve this, listings should be received in Providence eight months prior to the scheduled date of the meeting.

The complete listing of the Mathematics Calendar will be published only in the September issue of the *Notices*. The March, June, and December issues will include, along with new announcements, references to any previously announced meetings and conferences occurring within the twelve-month period following the month of those issues. New information about meetings and conferences that will occur later than the twelve-month period will be announced once in full and will not be repeated until the date of the conference or meeting falls within the twelve-month period.

The Mathematics Calendar, as well as Meetings and Conferences of the AMS, is now available electronically through the AMS website on the World Wide Web. To access the AMS website, use the URL: <http://www.ams.org/>.

Sikorav, B. Weiss, and W. Woess.

**Organizers:** M. Entov and M. Sageev.

**Information:** S. Schur (Conference Coordinator), Dept. of Math., Technion-Israel Inst. of Tech., 32000 Haifa, Israel; phone: 972 4 829 4278; fax: 972 4 829 3388; email: cms@math.technion.ac.il; <http://www.math.technion.ac.il/cms/brooks-wk.htm>.

- \* 12-17 **Percolation, Particle Systems and Random Media**, Pontificia Universidad Catolica de Chile, Santiago de Chile, Chile.

**Scientific Committee:** C. Newman, Courant Inst.; A. Ramirez, Pontificia Univ. Catolica de Chile; R. Rebolledo, Pontificia Univ. Catolica de Chile; A.-S. Sznitman, ETH Zurich; V. Sidoravicius, IMPA, Rio de Janeiro.

**Information:** <http://pp.mat.puc.cl>.

- \* 23-24 **Arithmetic Quantum Chaos (MAT Seminar, Montpellier, 2004)**, University of Montpellier II, Montpellier, France.

**Program:** The Mediterranean Seminar of Algebra and Topology 2004, to be held at Montpellier, will consist of two sets of introductory lectures on arithmetic quantum chaos.

**Speakers:** J. P. Keating (Univ. of Bristol, UK); P. Sarnak (Princeton Univ. and the Courant Inst.).

**Organizers:** Ph. Elbaz-Vincent (UM2), email: pev@math.univ-montp2.fr; Ph. Michel (UM2 & IUF), email: michel@math.univ-montp2.fr; R. T. Ramakrishnan (UM2 & ICTP, Trieste), email: ramadas@math.univ-montp2.fr.

**Information and Registration:** B. Lacan, email: lacan@math.univ-montp2.fr, phone: (33) (0) 4-67-14-35-57, fax: (33) (0) 4-67-14-35-58; <http://www.math.univ-montp2.fr/~pev/MAT2004/> (French), <http://www.math.univ-montp2.fr/~pev/MAT2004/mp104-en.html> (English).

### April 2004

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- \* 14-16 **Multi-Objective Programming and Goal Programming (MOPGP'04)**, Hammamet, Tunisia.

**About the Conference:** This conference is a forum within which researchers and practitioners can meet and learn from each other about the recent developments in MOP/GP. The participants are from different disciplines such as optimization, operational research, systems engineering, mathematical programming, and multi-criteria decision making, whose common interest is in multi-objective analysis. You are cordially invited to submit original papers for consideration to be presented at MOPGP'04.

**Topics:** Theories and applications of MOP/GP; Fuzzy sets, soft computing and MOP/GP; Neural networks, meta-heuristics and MOP/GP; Interactive MOP/GP methods; Evolutionary multi-objective optimization (EMO); Discrete and combinatorial MOP/GP; Stochastic MOP/GP; Dynamic MOP/GP; Business applications of MOP/GP (finance, management, marketing); Engineering applications of MOP/GP.

**Call for Papers:** All submitted abstracts should be written in English. They should clearly include: title, brief abstract, list of keywords; author(s)' full name(s), affiliation(s), complete address(es), and email address(es). Please state the name of the contact person. All documents must be sent by email to the following address in RTF (Rich Text File) or TeX format: fabelaz@isg.rnu.tn. Note that for participants that submit their paper (in PDF) before February 28, 2004, selected papers will be published in a special issue of EJOR (to be confirmed). Other special issues in international journals are under consideration.

**Deadlines:** Submission of abstracts: December 15, 2003. Acceptance notice (by email): January 5, 2004. Early registration: January 30, 2004. Preliminary program: February 1, 2004. Submission of papers: February 28, 2004. Full program: March 15, 2004.

**Early Registration Fee:** Academics and professionals: \$360; students: \$200.

**International Committee:** M. Tamiz (UK), C. Romero (Spain), P. Korhonen (Finland), R. Steuer (USA), D. Jones (UK), T. Tanino (Japan), T. Tanaka (Japan).

**Local Organizing Committee:** F. Ben Abdelaziz (Tunisia), chair; H. Chabchoub (Tunisia); K. Mellouli (Tunisia); T. Loukil Moalla (Tunisia); A. Rebai (Tunisia); support to the organization: B. Ben Yaghlane (Tunisia); R. Fayez (Tunisia); H. Masri (Tunisia).

**International Program Committee (to be completed):** B. Aouni (Canada); J. R. Figueira (Portugal); S. I. Gass (USA); J. M. Martel (Canada); J. C. Pomerol (France); S. Narulla (USA); B. Roy (France); R. Slowinski (Poland); G. Talbi (France); J. Thegem (Belgium); D. Vanderpooten (France); S. Zionts (USA).

**Contact:** MOPGP'04, Institut Supérieur de Gestion, 41 rue de la liberté, 2000 Le Bardo, Tunisie; tel: (+216) 98409533; fax: (+216) 71237620; email: fabelaz@isg.rnu.tn.

**Information:** <http://www.cck.rnu.tn/mopgp04>.

### May 2004

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- \* 9-12 **International Conference on Numerical Combustion (NC04)**, Hilton Sedona Resort & Spa, Sedona, Arizona.

**Description:** Advances in computational algorithms, hardware, and software continue to have a revolutionary impact on the combustion sciences and permit the examination of scientific and engineering problems of increasing complexity. Detailed combustion simulations and models are now being considered as part of integrated system applications. The International Conference on Numerical Combustion will focus on the integration of theory, modeling, and numerical implementation in the study of basic combustion physics and technological applications. The distinct questions and challenges found in combustion and phase transition arise from the multiplicity of length and time scales defined by the chemical, geometric, and flow ingredients. Physically descriptive, efficient, and accurate numerical modeling of complex phenomena and the design and implementation of complex, integrated simulation are the challenges to be addressed at this conference.

### June 2004

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- \* 20-25 **8th Symposium on Probability and Stochastic Processes**, Universidad de las Americas, Cholula, Puebla, Mexico.

**Topics:** Probabilistic Models in Risk Theory and Actuarial Mathematics.

**Main Speakers:** S. Asmussen, M. Denuit, P. Embrechts, M. Goovaerts, N. Kolev, M. Rutkowski, A. Schied, H. Schmidli.

**Information:** <http://probabilidad.org.mx/Actividades/8spsp/>.