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# Mathematics Calendar

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

## June 2003

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1–4 **2003 ASL Annual Meeting**, University of Illinois at Chicago, Chicago, Illinois. (Sept. 2002, p. 1000)

1–6 **International Conference on Group Theory: Combinatorial, Geometric, and Dynamical Aspects of Infinite Groups**, Gaeta, Italy. (Sept. 2002, p. 1000)

1–7 **Spring School in Analysis: Function Spaces and Applications**, Paseky nad Jizerou, Czech Republic. (Mar. 2003, p. 399)

1–30 (POSTPONED TILL FURTHER NOTICE) **Statistical Methods in Microarray Analysis**, Institute for Mathematical Sciences, National University of Singapore, Singapore. (Mar. 2003, p. 399)

\*2 **Björn Dahlberg Seminar**, Mathematical Center, Chalmers University of Technology/Göteborg University, Göteborg, Sweden.

**Program:** C. Kenig, Univ. of Chicago: Free boundary regularity results for harmonic measure and Poisson kernels.

**Organizer:** Björn Dahlberg Fund.

**Contacts:** V. Adolphsson, [vilhelm@math.chalmers.se](mailto:vilhelm@math.chalmers.se).

**Information:** <http://www.math.chalmers.se/Math/Research/HarmonicAnalysis/dahlbergfonden/index-eng.html>.

2–4 **International Workshop on Computer Algebra Systems and Their Applications, CASA'2003**, Saint Petersburg, Russian Federation. (Jan. 2003, p. 81)

2–4 **Technical Session on Computer Graphics, TSCG'2003**, Saint Petersburg, Russian Federation. (Jan. 2003, p. 81)

2–6 **Conference on Representation Theory for Algebraic Groups**, University of Aarhus, Aarhus, Denmark. (Mar. 2003, p. 400)

2–6 **Complex Analysis and Geometry—XVI**, Grand Hotel Bellavista in Levico Terme, Trento, Italy. (Apr. 2003, p. 495)

2–6 **DIMACS Workshop on Complexity and Inference**, DIMACS Center, Rutgers University, Piscataway, New Jersey. (May 2003, p. 601)

2–6 **Symplectic Geometry and Physics: Workshop III: Symplectic Geometry and String Theory**, Institute for Pure and Applied Mathematics, UCLA, Los Angeles, California. (Oct. 2002, p. 1135)

\*2–27 **Clay Mathematics Institute Summer School on Harmonic Analysis, the Trace Formula and Shimura Varieties**, The Fields Institute, Toronto, Ontario.

**Organizing Committee:** J. Arthur (Toronto), D. Ellwood (Boston and CMI), R. Kottwitz (Chicago).

**Information:** [http://www.fields.utoronto.ca/programs/scientific/02-03/automorphic\\_forms/CMI\\_summer\\_school/](http://www.fields.utoronto.ca/programs/scientific/02-03/automorphic_forms/CMI_summer_school/).

5–8 **Call for Papers: Hawaii International Conference on Statistics and Related Fields**, Sheraton Waikiki Hotel, Honolulu, Hawaii. (Jan. 2003, p. 81)

5–12 **Fifth International Conference on Geometry, Integrability and Quantization**, Sts. Constantine and Elena resort (near Varna), Bulgaria. (Apr. 2003, p. 495)

\*7–10 **Trends in Partial Differential Equations of Mathematical Physics**, Óbidos, Portugal.

**Description:** The international conference on trends in partial differential equations of mathematical physics will be held on the occasion of the 70th birthday of V. A. Solonnikov.

**Invited Speakers:** H. Amann (Univ. Zürich, Switzerland); L. Caffarelli (Univ. Texas, Austin, USA); E. DiBenedetto (Vanderbilt Univ.,

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**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/>.

Nashville, USA); Y. Giga (Hokkaido Univ., Sapporo, Japan); O. Ladyzhenskaya (POMI, St. Petersburg, Russia); L. Tatsien (Fudan Univ., Shanghai, China); V. Mazya (Linköping Univ., Sweden); J. Toland (Univ. Bath, UK); N. Trudinger (ANU, Canberra, Australia); N. Uraltseva (Univ. St. Petersburg, Russia).

**Organizers:** A consortium of four Portuguese universities (Univ. Lisbon, Univ. Coimbra, TU Lisboa, and Univ. Beira Interior) in collaboration with the St. Petersburg Steklov Mathematical Institute.

**Program Committee:** S. Antontsev (CM-UBI, Covilhã); A. Meirmanov (Univ. Hanty-Mansiisk); J. F. Rodrigues (CMAF-UL, Lisbon); A. Sequeira (CEMAT-IST, Lisbon); G. Seregin (POMI, St. Petersburg); J. M. Urbano (CMUC, Coimbra).

**Deadline:** For presentation of contributions: April 30, 2003.

**Information:** M. do Carmo Mateus, CMAF-Universidade de Lisboa, Av. Prof. Gama Pinto, 2, P-1649-003 Lisboa, Portugal; email: cmf@ptmat.fc.ul.pt; tel: +351 217 904 738; fax: +351 217 954 288; <http://www.tpde03.org/>.

7–12 **Applicable Harmonic Analysis**, Banff International Research Station, Banff, Alberta, Canada. (Mar. 2003, p. 400)

\* 8–11 **Algebraic Analysis Conference, on the Occasion of Pierre Schapira's 60th Birthday**, VIU, Island of San Servolo, Venice, Italy. **Scientific and Organizing Committee:** A. D'Agnolo (Padua, Italy); M. Kashiwara (RIMS, Japan); F. Loeser (ENS, France); T. Monteiro Fernandes (DMFCUL, Portugal).

**Confirmed Speakers:** D. Barlet (Nancy, France); J.-B. Bost (Orsay, France); L. Boutet de Monvel (IMJ, France); E. Frenkel (Berkeley, USA); V. Ginzburg (Chicago, USA); M. Kapranov (Toronto, Canada); V. Lafforgue (IMJ, France); G. Lebeau (Nice, France); R. Rouquier (IMJ, France); V. Schechtman (Toulouse, France); T. Tanisaki (Osaka, Japan); B. Toen (Nice, France); V. Toledano Laredo (IMJ, France); N. Tose (Keio, Japan); B. Tsygan (Northwestern, USA); M. Varagnolo (Cergy-Pontoise, France); E. Vasserot (Cergy-Pontoise, France); K. Vilonen (Northwestern, USA).

**Information:** email: [venice03@math.unipd.it](mailto:venice03@math.unipd.it); <http://www.math.unipd.it/~venice03/>.

8–15 **41st International Symposium on Functional Equations**, de la Motte Castle, Noszvaj, Hungary. (Mar. 2003, p. 400)

9–13 **Workshop on the Sensory Motor System**, Mathematical Biosciences Institute (MBI), The Ohio State University, Columbus, Ohio. (Feb. 2003, p. 292)

\* 9–14 **2003 USENIX Annual Technical Conference**, San Antonio, Texas.

**Information:** <http://www.usenix.org/events/usenix03/>.

9–14 **29th International Summer School "Application of Mathematics in Engineering and Economics"**, Sozopol, Bulgaria. (Mar. 2003, p. 400)

9–14 **Variational Methods in Celestial Mechanics**, AIM Research Conference Center, Palo Alto, California. (May 2003, p. 602)

10–14 **Fifth Dublin Differential Equations Conference**, Dublin City University, Dublin, Ireland. (Feb. 2003, p. 292)

10–14 **Groups and Group Rings X**, Wisla, Poland. (Feb. 2003, p. 292)

10–14 **XIX Rolf Nevanlinna Colloquium**, University of Jyväskylä, Jyväskylä, Finland. (Dec. 2002, p. 1420)

11–12 **DIMACS Workshop: Algorithms for Multidimensional Scaling II**, Doubletree Hotel, Tallahassee, Florida. (May 2003, p. 602)

11–14 (REVISED) **Curvature in Geometry, in Honour of Prof. L. Vanhecke**, Grand Hotel Tiziano e dei Congressi, Lecce, Italy. (May 2003, p. 602)

11–16 **Conference on Partial Differential Equations and Applications in Celebration of Aizik I. Volpert's 80th Birthday**,

Technion-I.I.T., Haifa, Israel. (Mar. 2003, p. 400)

12–14 **Lehigh University Geometry/Topology Conference**, Lehigh University, Bethlehem, Pennsylvania. (Apr. 2003, p. 495)

13–22 **Poisson Geometry, Deformation Quantisation and Group Representations (PQR2003)**, Universersité Libre de Bruxelles, Belgium. (Jan. 2003, p. 82)

14–19 **Integration on Arc Spaces, Elliptic Genus and Chiral de Rham Complex**, Banff International Research Station, Banff, Alberta, Canada. (Mar. 2003, p. 400)

15–20 **Advanced School in the Geometry of the Fourier Mukai Transform**, Grand Hotel Bellavista in Levico Terme, Trento, Italy. (Apr. 2003, p. 495)

15–22 **Functional Analysis VIII**, IUC, Dubrovnik, Croatia. (Mar. 2003, p. 400)

15–July 4 **The Arithmetic, Geometry and Topology of Algebraic Cycles**, Morelia, Mexico. (May 2003, p. 602)

\* 16 **DIMACS Workshop on the Interface between Biology and Game Theory**, DIMACS Center, Rutgers University, Piscataway, New Jersey.

**Short Description:** Starting with the pioneering work of John Maynard Smith, game theory has been increasingly used to explain, understand, and predict biological phenomena. In a sense, game theory is even more readily applicable to biology than to economics, for which it was initially intended, because the concept of human rationality, a rather uncomfortable assumption, can be replaced by more robust notions such as evolutionary stability. In recent years, game theory has been used to explain RNA phage dynamics, viral latency, chromosome segregation subversion in sexual species, E. coli mutant proliferation under environmental stress, and aspects of competitive bacterial ecology. At this workshop, the first of its kind, we hope not only to see some of the best work being done on this exciting interface but also to think of future directions for exploring it.

**Organizers:** A. Arkin, Lawrence Berkeley Labs and UC Berkeley; V. Vazirani, Georgia Tech, [vazirani@cc.gatech.edu](mailto:vazirani@cc.gatech.edu); D. Wolf, Lawrence Berkeley Labs, [dmwolf@lbl.gov](mailto:dewolf@lbl.gov).

**Contact:** V. Vazirani, Georgia Tech, [vazirani@cc.gatech.edu](mailto:vazirani@cc.gatech.edu).

**Local Arrangements:** M. Mercado, DIMACS Center, [mercado@dimacs.rutgers.edu](mailto:mercado@dimacs.rutgers.edu), 732-445-5928.

**Information:** Visit <http://dimacs.rutgers.edu/Workshops/Biogame/>.

16–20 **2003 SIAM Annual Meeting**, Queen Elizabeth Hotel, Montreal, Quebec, Canada. (Sept. 2002, p. 1000)

\* 16–20 **Summer School on Algebraic Combinatorics**, Nordfjordeid, Norway.

**Program:** The program consists of three series of lectures: (1) Hyperplane arrangements, (2) Simplicial and geometric complexes and associated resolutions of ideals, and (3) Cluster algebras and related phenomena. The lectures will cover basic concepts from algebraic combinatorics like posets, simplicial complexes, in particular Cohen-Macaulay and shellability, Möbius functions, and the Orlik-Solomon algebra.

**Speakers:** S. Fomin (Michigan), P. Orlik (Wisconsin), V. Welker (Marburg).

**Information:** <http://www.mi.uib.no/nordag/eid2003.html>.

16–21 **International Conference: Kolmogorov and Contemporary Mathematics**, Moscow, Russia. (Sept. 2002, p. 1000)

\* 17–20 **DIMACS Tutorial on Statistical and Other Analytic Health Surveillance Methods**, DIMACS Center, Rutgers University, Piscataway, New Jersey.

**Description:** This tutorial will provide an overview of the challenges and address an array of statistical surveillance tools and techniques. The first two days of the tutorial will focus on hands-on use of specific methodologies through case studies and elementary

introductions. The second two days will be concerned more with current research activities and new research challenges. The tutorial will address such topics as: scan statistics, statistical process control, changepoint methods, Bayesian approaches, rule-based surveillance, false discovery rate and sequential testing, text data surveillance.

**Sponsor:** DIMACS Center.

**Organizers:** D. Madigan, Rutgers Univ., madigan@stat.rutgers.edu; H. Rolka, CDC, hrr2@cdc.gov; M. Kulldorff, Univ. of Conn., martink@neuron.uhc.edu.

**Contacts:** D. Madigan, Rutgers Univ., madigan@stat.rutgers.edu.

**Local Arrangements:** M. Mercado, DIMACS Center, mercado@dimacs.rutgers.edu, 732-445-5928.

**Information:** See <http://dimacs.rutgers.edu/Workshops/NewerStat/>.

17-21 **Fourth Geoffrey J. Butler Memorial Conference**, University of Alberta, Edmonton, Alberta, Canada. (Sept. 2002, p. 1000)

17-21 **Second North American Summer School in Logic, Language and Information (NASSLLI-2003)**, Bloomington, Indiana. (Apr. 2003, p. 496)

17-24 **Furstenfest—Conference on Probability in Mathematics in Honor of H. Furstenberg**, Jerusalem and Beer Sheva, Israel. (Feb. 2003, p. 293)

18-21 **First Joint International Meeting between the American Mathematical Society and the Real Sociedad Matemática Española**, Seville, Spain. (Sept. 2002, p. 1000)

18-24 (NEW DATE) **Some Intermediate Questions of Model Theory and Universal Algebra: ERLOGOL-2003**, Novosibirsk State Technical University, Novosibirsk, Siberia/Russia. (Dec. 2002, p. 1420)

18-28 **Instructional Conference in the Mathematical Analysis of Hydrodynamics**, International Centre for Mathematical Science, Edinburgh, UK. (Mar. 2003, p. 401)

21 **Logic and Computational Linguistics**, Ottawa, Canada. (Apr. 2003, p. 496)

21-24 **Mathematics of Finite Elements and Applications: Satellite Conference at Brunel University**, Isaac Newton Institute for Mathematical Sciences, Cambridge, England. (Feb. 2003, p. 293)

21-26 **Point Processes—Theory and Applications**, Banff International Research Station, Banff, Alberta, Canada. (Mar. 2003, p. 401)

22-25 **IEEE Symposium on Logic in Computer Science (LICS 2003): Call for Workshop Proposals**, Ottawa, Ontario, Canada. (Apr. 2003, p. 496)

23-25 **SIAM Conference on Mathematics for Industry: Challenges and Frontiers**, The Metropolitan Hotel, Toronto, Ontario, Canada. (Nov. 2002, p. 1287)

23-26 **2003 International Multiconference in Computer Science and Computer Engineering**, Monte Carlo Resort, Las Vegas, Nevada. (Apr. 2003, p. 496)

23-26 **Special Track on Agent and Multi-Agent Learning (LAMS)**, Las Vegas, Nevada. (Apr. 2003, p. 496)

23-27 **15th International Conference on Formal Power Series and Algebraic Combinatorics**, Linköping University, Vadstena, Sweden. (Jan. 2003, p. 82)

23-27 **Hyperbolic Models in Astrophysics and Cosmology**, Newton Institute of Mathematical Sciences, Cambridge, UK. (Jan. 2003, p. 82)

23-27 **Integrable Systems & Spectral Curves Conference**, Université de Lille I, Villeneuve d'Ascq, Lille, France. (Apr. 2003, p. 496)

23-27 **Workshop on Extremal Graph Theory (Miklos Simonovits Is 60)**, Lake Balaton, Hungary. (Oct. 2002, p. 1135)

23-27 **Workshop on Harmonic Analysis and Partial Differential Equations**, Puerto Vallarta, Mexico. (Oct. 2002, p. 1135)

23-28 **Tools for Mathematical Modelling**, Saint-Petersburg State Technical University, Saint-Petersburg, Russia. (Nov. 2002, p. 1287)

23-29 **Symmetry in Nonlinear Mathematical Physics**, Institute of Mathematics, Kiev, Ukraine. (Feb. 2003, p. 293)

\* 23-July 3 **BioMaPS/DIMACS Tutorial: Introduction to Modern Concepts in Biology for Mathematical and Physical Scientists**, DIMACS Center, Rutgers University, Piscataway, New Jersey.

**Description:** The goal of the tutorial is to introduce participants to topics in molecular and cell biology that are relevant to those who wish to explore or initiate work at the interface among biology, mathematics, computer science, chemistry, and physics. The tutorial will be appropriate for graduate students, postdocs, and midcareer scientists who wish to change direction. The first week of the tutorial, entitled "The DNA Revolution", was designed by William Sofer, professor of genetics and member of the faculty of the Waksman Institute at Rutgers University, to introduce the fundamentals of modern molecular biology, genetics, and biotechnology to participants who have little background in biology or biochemistry. The second week of this tutorial will start with a review of cell biology that includes lectures given by Paul Ehrlich, adjunct professor of cell biology and member of the BioMaPS Institute at Rutgers University. He will examine energy generation; cell division, including cell cycle control; cell communication, including adhesion; and apoptosis; as well as the structure and function of the cytoskeleton, membranes, and intracellular compartments.

**Sponsor:** DIMACS Center.

**Organizers:** W. Sofer, Rutgers Univ., sofer@waksman.rutgers.edu; P. Ehrlich, Rutgers Univ., pehrlich@lutece.rutgers.edu.

**Information:** <http://dimacs.rutgers.edu/Workshops/Biomaps/>.

24-26 **Fluid Structure Interaction 2003**, Cadiz, Spain. (Dec. 2002, p. 1420)

24-27 **Day on Diffraction-2003 (DD'03)**, St. Petersburg Univ., St. Petersburg, Russia. (Oct. 2002, p. 1135)

24-28 **Nonlinear Modeling and Control, an International Seminar**, Nayanova University, Samara, Russia. (Mar. 2003, p. 401)

25-28 **Current Geometry 2003**, Palazzo Serra di Cassano, Naples, Italy. (Mar. 2003, p. 401)

25-28 **Mathematics in XXI Century**, Novosibirsk University, Novosibirsk, Russia. (Sept. 2002, p. 1000)

25-30 **2003 International Workshop on Small Sets in Analysis**, Center for Mathematical Sciences, Technion-Israel Institute of Technology, Haifa, Israel. (Mar. 2003, p. 401)

26-27 **Fifth International Workshop on Implicit Computational Complexity (ICC 2003)**, Ottawa, Canada. (Apr. 2003, p. 496)

27-29 **NKS 2003**, Boston, Massachusetts. (May 2003, p. 602)

28-July 3 **Joint Dynamics**, Banff International Research Station, Banff, Alberta, Canada. (Mar. 2003, p. 402)

29-July 4 **BCC19: 19th British Combinatorial Conference**, University of Wales, Bangor, North Wales, UK. (Mar. 2003, p. 402)

29-July 19 **IAS/Park City Mathematics Institute 13th Annual Summer Session**, Park City, Utah. (Mar. 2003, p. 402)

## July 2003

1-December 31 **Mathematics and Computation in Imaging Science and Information Processing**, Institute for Mathematical Sci-

ences (IMS), National University of Singapore, Singapore. (Dec. 2002, p. 1420)

1–4 **International T. I. Amanov Memorial Conference “Theory of Functions, Functional Analysis and Applications”**, Shakarim Semipalatinsk State University, Semipalatinsk, Kazakhstan. (Mar. 2003, p. 402)

1–5 **EuroConference VBAC 2003: Dedicated to Andrei Tyurin**, Porto, Portugal. (Feb. 2003, p. 293)

1–10 **Advanced Course on Polynomial Identity Rings**, Bellaterra (Barcelona), Spain. (Apr. 2003, p. 496)

1–10 **PI-Rings: Structure and Combinatorial Aspects (Summer Course)**, Bellaterra, Barcelona, Spain. (Jan. 2003, p. 82)

3–8 **Wavelets and Splines**, Euler International Mathematical Institute, St. Petersburg, Russia. (Mar. 2003, p. 402)

5–10 **Mathematical Biology**, Banff International Research Station, Banff, Alberta, Canada.

6–10 **New Connections between Dynamical Systems and PDEs**, AIM Research Conference Center, Palo Alto, California. (May 2003, p. 602)

6–12 **Journées Arithmétiques XXIII**, Universität Graz, Graz, Austria. (Jan. 2003, p. 82)

6–19 **Computational Noncommutative Algebra and Applications**, NATO Advanced Study Institute, Il Ciocco Resort, Tuscany, Italy. (May 2003, p. 603)

6–23 **33rd Probability Summer School**, Saint-Flour, France. (May 2003, p. 603)

7–10 **Announcement and Call for Papers: Fourth Panhellenic Logic Symposium**, Thessaloniki, Greece. (Mar. 2003, p. 402)

\* 7–10 **7th WSEAS International Conferences on Circuits, Systems, Communications, and Computers**, Corfu Island, Greece.

**Contact:** N. Mastorakis, WSEAS, Ag. Ioannou Theologou 17–23, 15773, Zographou, Athens, Greece; tel: (003) 0210 7473313; fax: (003) 0210 7473314.

**Information:** <http://www.wseas.org/>.

7–11 **ICIAM 2003, 5th International Congress on Industrial and Applied Mathematics**, Sydney, Australia. (Apr. 2003, p. 496)

7–11 **International Conference on Algebraic and Topological Methods in Non-Classical Logics**, Tbilisi State University, Tbilisi, Georgia. (Mar. 2003, p. 403)

\* 7–11 **International Mathematica Symposium 2003**, Imperial College, London, England.

**Description:** The International Mathematica Symposium is an interdisciplinary conference for users of Mathematica in research, education, industry, and commerce. Held every two years, it returns to England in 2003 for the first time since its inception in 1995. The symposium is refereed, and a published proceedings is produced for each conference. If you use Mathematica in research or with students, or if you have developed or are developing products based on Mathematica, then the symposium is an opportunity to share your results with like-minded colleagues. Grants and subsidies are available for participants in certain categories (please see website).

**Keynote Speakers:** Confirmed plenary speakers for the symposium: S. Wolfram, J. Nash, R. Maeder, B. Buchberger, C. McTague,

**Information:** Visit the conference website for further details: <http://metric.ma.ic.ac.uk/ims03/>.

7–18 **Advanced School in Basic Algebraic Geometry**, The Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy. (May 2003, p. 603)

7–18 **Discrete Dynamical Systems and Their Applications to Population Dynamics**, University of Wyoming, Laramie, Wyoming. (Feb. 2003, p. 293)

7–18 **SMS-NATO ASI: Structural Theory of Automata, Semigroups, and Universal Algebra**, Université de Montréal, Canada. (Mar. 2003, p. 403)

8–11 **Applications of Plausible, Paradoxical, and Neutrosophical Reasoning for Information Fusion (FUSION 2003)**, Radisson Hotel, Cairns, Queensland, Australia. (Jan. 2003, p. 82)

\* 8–19 **NATO Advanced Study Institute—Conformal Invariance and Random Spatial Processes**, International Centre for Mathematical Sciences, Edinburgh, UK.

**Description:** This meeting is associated with the Isaac Newton Institute Programme on Interaction and Growth in Complex Stochastic Systems. It takes the form of a NATO Advanced Study Institute (ASI) with an EPSRC Research Workshop embedded in its second week. The first week will be aimed at scientists who wish to learn about recent developments in the topic. The second week will consist of invited lectures and contributed talks by those working in the field. It is expected that those attending the first week will stay on to take part in the workshop. Numbers will be restricted to around 80 participants, and attendance is therefore by application or invitation.

**Scientific Organizing Committee:** G. Lawler (Cornell), K. Khanin (Landau Inst.), J. Norris (Cambridge).

**Support:** The Engineering and Physical Sciences Research Council, NATO, The Isaac Newton Institute, the London Mathematical Society.

**Deadline:** The final date on which applications will be considered is May 23, 2003.

**Information:** Online application forms and further information is available by visiting: <http://www.ma.hw.ac.uk/icms/meetings/2003/cirrsp/>.

9–12 **2003 Summer Conference on Topology and Its Applications**, Howard University, Washington, DC. (Jan. 2003, p. 82)

12–17 **Perspectives in Differential Geometry**, Banff International Research Station, Banff, Alberta, Canada. (Mar. 2003, p. 403)

12–17 **What Comes beyond the Standard Model? Symmetries beyond the Standard Model**, Hotel Histrión, Portoroz, Slovenia. (Jan. 2003, p. 82)

13–28 **Diffiety School—A School in the Geometry of Partial Differential Equations**, S. Stefano del Sole, Avellino, Italy. (Apr. 2003, p. 497)

14–15 **Mathematics of Computation and Approximation: A Conference in Honour of the 65th Birthday of Professor Ian Sloan**, University of New South Wales, Sydney, Australia. (Nov. 2002, p. 1287)

14 or 15 **The First International Workshop on Programming Multi-Agent Systems: Languages, Frameworks, Techniques and Tools (PROMAS 2003)**, Melbourne, Australia. (Apr. 2003, p. 497)

14–18 **DALT 2003: First International Workshop on Declarative Agent Languages and Technologies**, Melbourne, Australia. (Apr. 2003, p. 497)

14–18 (NEW DATE) **International Conference on Algebras, Modules and Rings**, University of Lisbon, Lisbon, Portugal. (Oct. 2002, p. 1135)

14–18 (POSTPONED TILL FURTHER NOTICE) **Wavelet Theory and Applications: New Directions and Challenges**, Institute for Mathematical Sciences, National University of Singapore, Singapore. (Dec. 2002, p. 1421)

14–26 **Summer School on Applications of Advanced Mathematical and Computational Methods to Atmospheric and Oceanic Problems**, National Center for Atmospheric Research (NCAR), Boulder, Colorado. (Mar. 2003, p. 403)

15–19 **Complex Hyperbolic Geometry**, CIRM, Luminy, France. (Mar. 2003, p. 403)

\* 15–19 **Progress in Supersymmetric Quantum Mechanics**, University of Valladolid, Valladolid, Spain.

**Scope:** Supersymmetric quantum mechanics (SUSY QM) represents nowadays a quickly developing area with numerous applications in different fields of theoretical and mathematical physics. There are several research groups, as well as a sufficiently large number of scientists, actively working in this field and presenting their results in different adjacent conferences. We believe that now is the time to assemble all of them together. Indeed, this will be the first conference devoted specifically to SUSY QM.

The conference will be organized in sixteen plenary talks (40 minutes) plus up to fifty 20-minute talks. No parallel sessions will take place. If necessary, there will be some space reserved for the presentation of posters.

**International Organizing Committee:** D. J. Fernández (CINVESTAV, México DF, Mexico); V. Hussin (CRM, Montreal, Canada); J. Negro (Univ. de Valladolid, Spain); L. M. Nieto (Univ. de Valladolid, Spain); B. Samsonov (Tomsk State Univ., Russia).

**Plenary Speakers:** A. A. Andrianov (INFN, Sezione di Bologna, Italy); D. Baye (Univ. Libre de Bruxelles, Belgium); C. M. Bender (Washington Univ., USA); L. J. Boya (Univ. de Zaragoza, Spain); J. F. Cariñena (Univ. de Zaragoza, Spain); A. Khare (Inst. of Physics, Bhubaneswar, India); G. Levai (Inst. of Nuclear Research of the Hungarian Acad. of Sci. (ATOMKI), Debrecen, Hungary); B. Mielnik (CINVESTAV-IPN, Mexico); M. Plyushchay (Univ. de Santiago de Chile, Chile; and Inst. for High Energy Phys., Protvino, Russia); C. Quesne (Univ. Libre de Bruxelles, Belgium); A. I. Solomon (The Open Univ., UK; and Univ. de Paris VI, France); V. P. Spiridonov (Bogoliubov Lab. of Theoret. Phys., JINR, Russia); U. P. Sukhatme (State Univ. of New York at Buffalo, USA); C. V. Sukumar (Oxford Univ., UK); A. P. Veselov (Loughborough Univ., UK); B. N. Zakharev (Joint Inst. for Nuclear Research, Lab. Theoret. Phys., Dubna, Russia).

**Information:** [http://metodos.fam.cie.uva.es/~susy\\_qm\\_03/](http://metodos.fam.cie.uva.es/~susy_qm_03/), email: susy\_qm\_03@metodos.fam.cie.uva.es.

15–19 **SIAM Conference on Applied Linear Algebra**, William and Mary College, Williamsburg, Virginia. (Sept. 2002, p. 1001)

\* 17–20 **XIIth Oporto Meeting on Geometry, Topology and Physics**, Departamento de Matemática Pura, Faculdade de Ciências, Porto University, Portugal.

**Focus:** As in previous years, the meeting is focused on the short courses given by the main speakers, which are supplemented by seminars by other participants. The talks are at the advanced graduate or postdoctoral level and should be of interest to all researchers wishing to learn about recent developments in the overlap between geometry, topology, and physics.

**Main Topics:** Mathematics and string theory.

**Main Speakers and Courses:** T. Gannon (Univ. of Alberta), Boundary Conformal Field Theory, Fusion Ring Representations and Strings; A. Klemm (Humboldt Univ., Berlin), Mirror Symmetry and the Topological String; M. Mariño (Harvard Univ.), Matrix Models and Chern-Simons Theory; E. Sharpe (Univ. of Illinois), D-Branes and Sheaves.

**Organizing Committee:** M. Costa (Oporto, FCUP), email: miguelc@fc.up.pt; C. Herdeiro (Oporto, FCUP), email: crherdei@fc.up.pt; J. Mourão (Lisbon, IST), email: jmourao@math.ist.utl.pt; R. Picken (Lisbon, IST), email: picken@math.ist.utl.pt; J. N. Tavares (Oporto, FCUP), email: jntavar@fc.up.pt.

**Deadline:** For registration: April 30, 2003.

**Information:** <http://www.fc.up.pt/mp/actividades/om.html>.

19–24 **Differential Invariants and Invariant Differential Equations**, Banff International Research Station, Banff, Alberta, Canada. (Mar. 2003, p. 403)

20–25 **XV Latinamerican Colloquy of Algebra**, Instituto de Matemáticas, Universidad Nacional Autónoma de México, Mexico City, Mexico. (Mar. 2003, p. 403)

20–26 **Hodge Theory in a New Century: A Euro Conference**

**Celebrating the Centenary of Sir William Hodge (1903–1975)**, International Centre for Mathematical Science, Edinburgh, UK. (Mar. 2003, p. 403)

\* 20–August 9 **Summer School on Holomorphic Dynamics**, Cortona, Italy.

**Topics:** Introduction to Complex Dynamics, T. Gamelin (UCLA); Special Topics in Complex Dynamics, S. Marmi (SNS).

**Support and Deadline:** A number of grants will be available for Ph.D. students wishing to attend the school. Deadline for application: May 17, 2003 (for non-Italian residents); June 21, 2003 (for Italian residents); <http://www.iaga.fi.cnr.it/SMI/apply.html>.

**Information:** <http://www.iaga.fi.cnr.it/SMI/index.html>; email: smi@iaga.fi.cnr.it.

21–24 **Mathematical Problems in Quantum Mechanics**, Departamento de Matemática Instituto Superior Técnico, Lisboa, Portugal. (Apr. 2003, p. 497)

21–25 **Infinite Dimensional Algebras and Quantum Integrable Systems**, Faro, Portugal. (Feb. 2003, p. 293)

\* 21–25 **Summer School on Group Representations**, University of Lisbon, Lisbon, Portugal.

**Topics:** The Summer School will include three courses on group representations: by R. Carter, Univ. of Warwick; A. Kleshchev, Univ. of Oregon; and A. Ram, Univ. of Wisconsin at Madison.

**Aim:** The Summer School is aimed at postgraduate students and students within a year of completion of a bachelor's degree.

**Organizers:** The Department of Mathematics and The Center for Linear Structures and Combinatorics, Univ. of Lisbon.

**Information:** For more information, please visit the Summer School homepage at <http://hermite.cii.fc.ul.pt/sschool/>.

21–25 **The Władysław Orlicz Centenary Conference and Function Spaces VII**, Faculty of Mathematics and Computer Science, Adam Mickiewicz University, Poznań, Poland. (Jan. 2003, p. 83)

21–August 1 **IMA 2003 Summer Program: Probability and Partial Differential Equations in Modern Applied Mathematics, Data Analysis and Optimization**, University of Minnesota, Minneapolis, Minnesota. (Dec. 2002, p. 1421)

21–August 15 **Spaces of Kleinian Groups and Hyperbolic 3-Manifolds**, Isaac Newton Institute for Mathematical Sciences, Cambridge, England. (Mar. 2003, p. 404)

21–December 19 **Interaction and Growth in Complex Stochastic Systems**, Isaac Newton Institute for Mathematical Sciences, Cambridge, England. (Mar. 2003, p. 404)

22–26 **Equadiff 2003, International Conference on Differential Equations**, Hasselt, Belgium. (Mar. 2003, p. 404)

23–24 **Workshop on Categorification and Higher-Order Geometry**, Instituto Superior Técnico, Lisboa, Portugal. (Feb. 2003, p. 293)

23–25 **The Joint Meeting of ISAMA 2003 and the 6th Annual BRIDGES Conference**, University of Granada, Spain. (Apr. 2003, p. 497)

23–26 **The Joint Meeting of ISAMA 2003 and the 6th Annual BRIDGES Conference**, University of Granada, Spain. (Feb. 2003, p. 293)

24–26 **First Joint ISBA-IMS Meeting**, Intercontinental Hotel, Isla Verde, San Juan, Puerto Rico. (Feb. 2003, p. 294)

25–26 **Young Researchers Symposium of ICMP2003**, Instituto Superior Técnico (IST), Lisboa, Portugal. (Apr. 2003, p. 497)

26–31 **Analysis and Geometric Measure Theory**, Banff International Research Station, Banff, Alberta, Canada. (Mar. 2003, p. 404)

26–31 **Algebra and Discrete Mathematics—Symmetries and Ordered Structures under the Influence of Model Theory and Combinatorics**, Hattingen, Germany. (Dec. 2002, p. 1421)

27-31 **First Announcement of the 11th International Conference on Finite or Infinite Dimensional Complex Analysis and Applications**, Chiangmai University, Chiangmai, Thailand. (Dec. 2002, p. 1421)

27-August 2 **V International Conference "Nonassociative Algebra and Its Applications"**, Morelos State University, Cuernavaca, Morelos, Mexico. (Mar. 2003, p. 404)

27-August 9 (NEW DATE) **Banach Algebras and Their Applications: Banach Algebras 2003**, Edmonton, Alberta, Canada. (Sept. 2002, p. 1001)

\* 28-31 **III World Conference on Paraconsistency (WCP3)**, IRIT, Toulouse, France.

**Description:** Paraconsistent logics deal sensibly with contradictory yet nontrivial theories. The core of the subject is a collection of mathematical techniques, philosophically well motivated and with numerous technological applications.

**Information:** Visit <http://www.irit.fr/wcp3/> or <http://www.cle.unicamp.br/wcp3/>.

28-31 **9th International Conference on Applications of Computer Algebra**, North Carolina State University, Raleigh, North Carolina. (Mar. 2003, p. 405)

28-August 1 **The 8th International Conference on Difference Equations and Applications**, Brno, Czech Republic. (Mar. 2003, p. 405)

28-August 2 **XIV International Congress on Mathematical Physics**, University of Lisbon, Portugal. (Apr. 2003, p. 497)

28-August 31 **Stein's Method and Applications: A Program in Honor of Charles Stein**, Institute for Mathematical Sciences, National University of Singapore, Singapore. (Mar. 2003, p. 405)

29-August 1 **Tenth Workshop on Logic, Language, Information and Computation (WoLLIC'2003)**, Ouro Preto, Minas Gerais, Brazil. (Feb. 2003, p. 294)

29-August 2 **IMS New Researchers Conference**, University of California, Davis, California. (Feb. 2003, p. 294)

### August 2003

2-7 **Monge-Ampere Type Equations and Applications**, Banff International Research Station, Banff, Alberta, Canada. (Mar. 2003, p. 405)

\* 3-8 **Spaces of Kleinian Groups and Hyperbolic 3-Manifolds**, Isaac Newton Institute for Mathematical Sciences, Cambridge, UK.

**Information:** Isaac Newton Institute for Mathematical Sciences, 20 Clarkson Road, Cambridge, CB3 0EH UK; tel: +44 (0) 1223 335999; fax: +44 (0) 1223 330508; email: [info@newton.cam.ac.uk](mailto:info@newton.cam.ac.uk). Further information and application forms are available from the WWW at: <http://www.newton.cam.ac.uk/programs/SKG/skgw01.html>.

3-9 **The Third International Conference: Creativity in Mathematics Education and the Education of Gifted Students (ICCE&EGS'03)**, Rousse, Bulgaria. (Apr. 2003, p. 498)

3-9 **29th Stochastic Processes and Their Applications**, Hotel do Frade, Angra dos Reis, State of Rio de Janeiro, Brazil. (Dec. 2002, p. 1421)

\* 4-7 **DIMACS Tutorial on Computer Security**, DIMACS Center, Rutgers University, Piscataway, New Jersey.

**Description:** This week-long tutorial will be designed to provide background knowledge to researchers and graduate students who wish to participate in the special focus or to get just an introduction to some of the fundamental issues in this field. The tutorial will consist of lectures and hands-on activities. Topics included are not intended to cover all aspects of the special focus but will concentrate instead on several main themes. These will include: Cryptographic primitives and protocols: private key cryptography, public key cryptography, definitions of security, authentication

and key exchange protocols; Operating systems and application security: access control, Web security, securing different layers; Intrusion detection: signature-based methods, anomaly detection, what to do when intrusions are detected; Network security: firewalls, denial of service attacks, auditing tools. For each area the goals will be to introduce the most important and relevant topics. Lectures will include basic mathematics, tools and techniques, information about the current state of the art, and suggestions for further reading for more advanced topics. There will also be individual guest lectures on additional topics such as privacy, economic approaches to risk assessment, and digital rights management.

**Organizer:** R. Wright, Stevens Inst. of Tech.; email: [rwright@cs.stevens-tech.edu](mailto:rwright@cs.stevens-tech.edu).

**Contact:** R. Wright, Stevens Inst. of Tech., [rwright@cs.stevens-tech.edu](mailto:rwright@cs.stevens-tech.edu).

**Local Arrangements:** M. Mercado, DIMACS Center, [mercado@dimacs.rutgers.edu](mailto:mercado@dimacs.rutgers.edu), 732-445-5928.

**Information:** Visit <http://dimacs.rutgers.edu/Workshops/ComputerSecurity/>.

\* 4-8 **12th USENIX Security Symposium**, Washington, DC.

**Information:** <http://www.usenix.org/events/sec03/>.

4-9 **4th International Algebraic Conference**, Lviv, Ukraine. (Mar. 2003, p. 405)

4-9 **Holomorphic Curves in Contact Geometry**, AIM Research Conference Center, Palo Alto, California. (May 2003, p. 603)

4-9 **Transformation Groups and Related Topics: An International Conference in Honor of Sören Illman to Celebrate His 60th Birthday**, Helsinki, Finland. (Mar. 2003, p. 405)

4-22 **Summer School and Conference on Real Algebraic Geometry and Its Applications**, The Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy. (May 2003, p. 603)

5-9 **13th Capricornio Mathematical Congress**, Universidad Católica del Norte, Antofagasta, Chile. (Mar. 2003, p. 406)

5-10 **Workshops Loops '03**, Prague, Czech Republic. (Mar. 2003, p. 406)

6-9 **Workshop, Spectral Geometry of Manifolds with Boundary and Decomposition of Manifolds**, Field Laboratory Søminestation at Holbæk Bay near Copenhagen, Roskilde University, Denmark. (May 2003, p. 603)

9-14 **Combinatorics, Linear Algebra & Graph Coloring**, Tehran, Iran. (Mar. 2003, p. 406)

9-16 **Defects and Their Dynamics**, Banff International Research Station, Banff, Alberta, Canada. (Mar. 2003, p. 406)

9-16 **Localization Behavior in Reaction-Diffusion Systems and Applications to the Natural Sciences**, Banff International Research Station, Banff, Alberta, Canada. (Mar. 2003, p. 406)

10-17 **Loops '03**, Prague, Czech Republic. (Mar. 2003, p. 406)

11-15 **Workshop on Finsler Geometry and Its Applications**, Debrecen, Hungary. (Apr. 2003, p. 498)

12-16 **Conformal Structure in Geometry, Analysis, and Physics**, AIM Research Conference Center, Palo Alto, California. (May 2003, p. 603)

\* 14-20 **2003 ASL European Summer Meeting (Logic Colloquium '03)**, Helsinki, Finland. (Sept. 2002, p. 1001)

**Program Committee:** P. Aczel, Z. Adamowicz, J. Baldwin, E. Bouscaren, M. Detlefsen, M. Gitik, L. Hella, T. Jech, R. Parikh, H. Schwichtenberg, T. Slaman, V. Stoltenberg-Hansen (Chair), and J. Väänänen.

**Organizing Committee:** A. Halko, A. Hellsten, T. Huuskonen, J. Kennedy, J. Kontinen, K. Luosto, H. Niemistö, J. Oikkonen, M. Pauna, J. Ruokolainen, M. Saria, and J. Väänänen.

**Information:** <http://www.helsinki.fi/lc2003/>.

15–20 **12th Summer St. Petersburg Meeting in Mathematical Analysis: Dedicated to the 70th Anniversary of Victor Petrovich Havin**, Euler International Mathematical Institute, St. Petersburg, Russia. (Mar. 2003, p. 406)

16–21 **Current Trends in Arithmetic Geometry and Number Theory**, Banff International Research Station, Banff, Alberta, Canada. (Mar. 2003, p. 406)

18–22 **7th International Symposium on Orthogonal Polynomials, Special Functions and Applications**, Copenhagen, Denmark. (Dec. 2002, p. 1421)

18–22 **ENUMATH 2003: The European Conference on Numerical Mathematics and Advanced Applications**, Prague, Czech Republic. (Feb. 2003, p. 294)

\* 18–22 **Random Walks in Random Environment**, Isaac Newton Institute for Mathematical Sciences, Cambridge, UK.

**Information:** Isaac Newton Institute for Mathematical Sciences, 20 Clarkson Road, Cambridge, CB3 0EH UK; tel: +44 (0) 1223 335999; fax: +44 (0) 1223 330508; email: info@newton.cam.ac.uk. Further information and application forms are available from the WWW at: <http://www.newton.cam.ac.uk/programs/IGS/igsw02.html>.

\* 20–23 **Ordinal and Symbolic Data Analysis**, University of California, Irvine, California.

**Information:** Please see the meeting website: <http://hypatia.ss.uci.edu/imbs/workshops/OSDA/index.htm>.

\* 20–28 **Introductory Workshop in Discrete and Computational Geometry**, Mathematical Sciences Research Institute, Berkeley, California.

**Organizers:** J. A. De Loera, H. Edelsbrunner, J. E. Goodman, J. Pach, M. Sharir, E. Welzl, and G. M. Ziegler.

**Workshop Topics:** This workshop is intended to introduce the area of discrete and computational geometry to mathematicians and computer scientists not (yet) active in the field or just entering it and is aimed particularly at graduate students and postdocs and at researchers who may already be working in other, but related, areas. It will highlight the interaction between mathematical and algorithmic aspects of the field.

**Speakers:** The speakers, each of whom will give a pair of one-hour talks, are all leading researchers in the field and have been chosen especially for their accessible styles. They are as follows: B. Sturmfels, Tropical Geometry; J. Hass, Minimal Surfaces and Normal Surfaces in 3-Manifolds; J. Lagarias, Quasicrystals and Discrete Geometry, Density of Sphere Packings; E. Demaine, Folding & Unfolding: Linkage Folding, Computational Origami; R. Graham, Euclidean Ramsey Theory, Packing Equal Discs in Planar Regions; G. M. Ziegler, 4-Dimensional Polytopes; J. O'Rourke, Folding & Unfolding: Folding Polygons to Convex Polyhedra, Unfolding Polyhedra; E. Welzl, Combinatorial Models for Solving Linear Programs, k-Sets and j-Facets; G. Kalai, Graphs and Skeleta of Polytopes; D. Eppstein, Computational Geometry and Robust Statistics; Hyperbolic Geometry, Moebius Transformations, and Geometric Optimization; R. Gardner, Discrete Tomography: A Survey, Reconstruction of Convex Bodies from Brightness Functions; I. Barany, Combinatorial Convexity: Theorems of Caratheodory, Helly, Radon and Tverberg; Algebraic Topology Applied in Geometry; R. Forman, Topics in Combinatorial Differential Geometry; N. Amenta, Finding Objects in the Delaunay Triangulation, Actually Doing It: Algorithms and Programs for 3D Delaunay Triangulation; J. Pach, Geometric Graph Theory; A. Barvinok, Complexity of Convex Bodies in Higher Dimensions.

**Deadlines:** Registration with funding support application: May 15, 2003. Registration, no funding request: August 5, 2003.

**Registration and Information:** Register online: [http://www.msri.org/calendar/workshops/WorkshopInfo/248/show\\_workshop/](http://www.msri.org/calendar/workshops/WorkshopInfo/248/show_workshop/).

23–28 **Computational Techniques for Moving Interfaces**, Banff

International Research Station, Banff, Alberta, Canada. (Mar. 2003, p. 406)

24–26 **Second St. Petersburg Days of Logic and Computability: Devoted to the Centennial of Andrei Andreevich Markov Jr.**, Euler International Mathematical Institute, St. Petersburg, Russia. (Mar. 2003, p. 406)

\* 25–30 **Workshop on Calculus of Variations: Geometric Problems, Superconductivity, and Material Microstructures**, The Fields Institute, Toronto, Ontario.

**Organizing Committee:** S. Alama (McMaster); L. Bronsard (McMaster); R. Choksi (Simon Fraser); R. Jerrard (Toronto); R. McCann (Toronto).

**Information:** See <http://www.fields.utoronto.ca/programs/scientific/03-04/pde/variations/>.

28–30 **International Conference on Computability and Complexity in Analysis**, University of Cincinnati, Cincinnati, Ohio. (Feb. 2003, p. 294)

30–September 4 **A Workshop in Creative Scientific Writing**, Banff International Research Station, Banff, Alberta, Canada. (Mar. 2003, p. 407)

30–September 4 **Locally Finite Lie Algebras**, Banff International Research Station, Banff, Alberta, Canada. (Mar. 2003, p. 407)

\* 31–September 4 **Unity of mathematics, in honor of 90th birthday of I. M. Gelfand**, Harvard University, Cambridge, Massachusetts.

**Speakers:** M. Atiyah, A. Beilinson, J. Bernstein, A. Connes, R. Dijkgraaf, V. Drinfeld, B. Feigin, D. Gaitsgory, A. Givental, M. Hopkins, D. Kazhdan, M. Kontsevich, B. Kostant, G. Lusztig, D. McDuff, S. Novikov, P. Sarnak, A. Schwartz, I. Singer, C. Vafa, A. Vershik, S.-T. Yau.

**Organizing committee:** P. Etingof, R. Falk, V. Guillemin, J. Harris, D. Kazhdan, V. Retakh, I. Singer, R. Wilson.

**Sponsors:** National Science Foundation (tentative), Clay Mathematics Institute, Mathematics departments of Harvard University, MIT, and Rutgers University.

**Information:** <http://www-math.mit.edu/conferences/unityofmathematics/>.

## September 2003

\* 2003–July 2004 **Set Theory**, Centre de Recerca Matemàtica, Bellaterra, Spain.

**Organizers:** Local: J. Bagaria (ICREA and Univ. of Barcelona); Visitor: S. Todorćević (CNRS).

**Main Research Topics:** Ramsey methods in functional analysis, the continuum problem.

**Other Research Topics:** Applications of combinatorial set theory and forcing to general topology and Boolean algebras; Inner model theory for large cardinals; Generic absoluteness and its consequences in combinatorics and descriptive set theory; Current topics in descriptive set theory; Current topics in combinatorial set theory.

**Seminars:** There will be two weekly seminars on Set Theory (coordinated by J. Bagaria) and Combinatorics and Its Applications to Analysis (coordinated by S. Todorćević).

**Conference:** Barcelona Conference on Set Theory; Dates: September 16–20, 2003; <http://www.crm.es/set-theory/>.

**Advanced Course:** Advanced Course on Ramsey Methods in Analysis; Dates: January 19–28, 2004; <http://www.crm.es/RamseyMethods/>.

**Information:** Centre de Recerca Matemàtica, Apartat 50, 08193 Bellaterra, Spain; tel: +34 935 811 081; fax: +34 935 812 202; <http://www.crm.es/>.

\* 1–3 **4th WSEAS Multiconference in Applied Mathematics**, Malta, Italy.

**Description:** The WSEAS multiconference in linear algebra, numerical analysis, differential equations, optimization, probability and

statistics, operational research, computers, education, algorithms, discrete mathematics and control is the fourth in the successful history of the conference that was held in Athens, Greece (2000); Cairns, Australia (2001); and Miedzyzdroje, Poland (2002). As in 2002 in the conference in Poland, all the accepted papers will be published in WSEAS Transactions on Mathematics.

**Information:** <http://www.wseas.org/>.

**1-6 The Sixth International Workshop on Differential Geometry and Its Applications and The Third German-Romanian Seminar on Geometry**, Cluj-Napoca, Romania. (Oct. 2002, p. 1135)

**1-December 19 Granular and Particle-Laden Flows**, Isaac Newton Institute for Mathematical Sciences, Cambridge, England. (Mar. 2003, p. 407)

**2-5 Symposium for the Developments of the Cantorian Set Theory**, Paris, France. (Jan. 2003, p. 83)

**2-6 The Barcelona Conference on Asymptotic Statistics**, Bellaterra, Barcelona, Spain. (Jan. 2003, p. 83)

\* **3-5 2003 Joint Conference on Declarative Programming: APPIA-GULP-PRODE 2003**, Reggio Calabria, Italy.

**Description:** The aim of the conference is to foster scientific cooperation between Italian, Portuguese, Spanish, and Latin American researchers—although submissions are open to the whole declarative programming community—to improve the knowledge of the state of the art of declarative programming (through the invited talks) and to show ongoing research done (through presentations of papers).

**Information:** <http://www.informatica.ing.unirc.it/agp03/> or email: [agpo@mat.unical.it](mailto:agpo@mat.unical.it).

**4-9 Analytic Methods of Analysis and Differential Equations (AMADE-2003)**, Belarusian State University, Minsk, Belarus. (Jan. 2003, p. 83)

\* **5-10 6th International Conference on Geometry and Applications**, Varna, Bulgaria.

**Topics:** Foundations of Geometry and Incidence Geometry, Differential Geometry, Applications of Computers in Geometry, Geometry in the School.

**Conference Chairs:** W. Benz (Hamburg), G. Stanilov (Sofia).

**Information:** G. Stanilov, email: [stanilov@fmi.uni-sofia.bg](mailto:stanilov@fmi.uni-sofia.bg); Ch. Lozanov, email: [lozanov@fmi.uni-sofia.bg](mailto:lozanov@fmi.uni-sofia.bg).

**8-10 25th World Conference on Boundary Element Methods: BEM 25: Incorporating Electromagnetic Effects on Human Beings and Equipment Seminar**, Split, Croatia. (Oct. 2002, p. 1135)

\* **8-12 BSDCon'03**, San Mateo, California.

**Information:** <http://www.usenix.org/events/bsdcon03/>.

**8-12 Eurocomb'03-European Conference on Combinatorics, Graph Theory and Applications**, Prague, Czech Republic. (Apr. 2003, p. 498)

**8-December 13 Inverse Problems: Computational Methods and Emerging Applications**, Institute for Pure and Applied Mathematics, UCLA, Los Angeles, California. (Oct. 2002, p. 1135)

**10-12 Sixth International Conference on Computational Methods for the Solution of Electrical and Electromagnetic Engineering Problems: ELECTROCOMP 2003**, Split, Croatia. (Oct. 2002, p. 1135)

**11-14 Logic, Game Theory and Social Choice 3**, University of Siena, Certosa di Pontignano, Siena, Italy. (Apr. 2003, p. 498)

**12-14 EMS Mathematical Weekend**, Gulbenkian Foundation, Lisbon, Portugal. (Apr. 2003, p. 498)

**12-16 International Conference of Computational Methods in Sciences and Engineering (ICCMSE 2003)**, Kastoria, Greece. (Feb. 2003, p. 294)

\* **12-17 Combinatorics in Oporto**, University of Porto, Porto, Portugal.

**Main Topics:** Graph Theory, Matroid Theory (including Coxeter Matroids and Oriented Matroid Theory) and Convex Geometry.

**Program:** (a) Two minicourses (September 12 and 13), specially designed for students and young researchers, by M. Lemos (Univ. Fed. Pernambuco, Brazil): "Interaction between Graphs and Matroids", and U. Brehm (Tech. Univ. Dresden, Germany): "Polyhedral Maps"; (b) talks (September 15, 16, and 17): a series of eight to nine invited talks of 50 minutes and thirteen to fifteen contributed talks of 25 minutes; (c) poster session.

**Invited Speakers:** J. Bokowski (Tech. Univ. Darmstadt, Germany), A. Borovik (UMIST, Manchester, UK), U. Brehm (Tech. Univ. Dresden, Germany), J. Dias da Silva (Univ. Lisboa, Portugal), D. Larman (Univ. College of London, UK), M. Las Vergnas (CNRS, Paris, France), M. Lemos (Univ. Fed. Pernambuco, Brazil), M. Noy (Univ. Politecnica Catalunya, Spain), J. Szwarcfiter (Univ. Fed. Rio de Janeiro, Brazil).

**Deadline:** For sending abstracts, June 10, 2003.

**Information:** <http://www.fc.up.pt/mp/comb03/>.

**15-19 Colloquium on the Occasion of the 200th Anniversary of Charles-François Sturm and Workshop on Sturm-Liouville Theory**, University of Geneva, Geneva, Switzerland. (Oct. 2002, p. 1135)

**15-19 IMA Tutorial: Open Week Tutorial**, University of Minnesota, Minneapolis, Minnesota. (Mar. 2003, p. 407)

**15-21 International Conference on Nonlinear Partial Differential Equations**, Alushta, the Crimea, Ukraine. (May 2003, p. 603)

\* **15-21 Optimization, Approximation, and Multiscale Analysis with Applications to Signal and Image Processing**, Borovez (Rila Mountains), Bulgaria.

**Description:** The minisymposium will be accompanying the International Congress Masee 2003, a conference organized by the Mathematical Society of SouthEastern Europe (MASSEE).

**Organizing and Program Committee:** H. Gonska (Chair), Univ. of Duisburg-Essen, Germany; D. Kacso (Secretary), Univ. of Duisburg-Essen, Germany; O. Kounchev (Co-chair), Inst. of Mathematics and Informatics, Bulgarian Academy of Sciences, Sofia; P. Nettaanmaki, Univ. of Jyväskylä, Finland; H. Render, Univ. of Duisburg-Essen, Germany; J. Sprekels, Weierstrass Inst. for Applied Analysis and Stochastics, Berlin, Germany; D. Tiba, Inst. of Mathematics, Romanian Academy of Sciences, Bucharest.

**Invited Speakers:** A. Bejancu, Univ. of Leeds, UK; B. Bojanov, Sofia Univ. and Bulgarian Academy of Sciences; F.-J. Delves, Univ. of Siegen, Germany; W. Haufmann, Univ. of Duisburg-Essen, Germany; B. Sendov, Bulgarian Academy of Sciences; D.-X. Zhou, City Univ., Hong Kong.

**Information:** Information on the minisymposium: <http://www.math.bas.bg/~kounchev/Workshop2003.html>. Information on the International Congress Masee 2003: <http://www.math.bas.bg/masee2003/>. Email inquiries should be directed to [kounchev@math.bas.bg](mailto:kounchev@math.bas.bg) or [tiba@wias-berlin.de](mailto:tiba@wias-berlin.de).

**16-20 The Barcelona Conference on Set Theory**, Bellaterra, Barcelona, Spain. (Jan. 2003, p. 83)

**22-26 Analytic Dynamical Systems, Summability of Divergent Series and Galois Theories**, Université Paul Sabatier, Toulouse, France. (Mar. 2003, p. 407)

**24-26 International Conference on Differential Equations Devoted to the 100th Anniversary of K. P. Persidskii**, Institute of Mathematics of the ME&S of the RK, Almaty, Kazakhstan (CIS). (Sept. 2002, p. 1001)

\* **29-30 Workshop "High-Resolution Schemes for Convection-Dominated Flows: 30 Years of FCT"**, University of Dortmund, Germany.

**Scope:** Convection-dominated flows are notoriously difficult to treat numerically. Solutions produced by standard discretization tech-



niques are corrupted by nonphysical oscillations and/or excessive numerical diffusion. The first high-resolution scheme to overcome these shortcomings was the now classical Flux-Corrected-Transport (FCT) algorithm introduced 30 years ago by Boris and Book. Their pioneering idea of blending high- and low-order discretizations has paved the way for the development of a whole range of high-resolution schemes which use flux/slope limiters to prevent the formation of wiggles in the vicinity of shocks and discontinuities while retaining the high accuracy of approximation in regions where the solution is sufficiently smooth. The aim of this 2-day workshop is to provide a forum for discussion of the progress made in the numerical simulation of convection-dominated flows during the three decades elapsed since the birth of FCT. Scientists from around the globe are encouraged to present their results regarding recent trends and developments in this challenging research field.

**Organizing Committee:** D. Kuzmin, Univ. of Dortmund, Germany; R. Loehner, George Mason Univ., USA; S. Turek, Univ. of Dortmund, Germany.

**Speakers:** The tentative list of speakers includes leading experts (D. L. Book, R. Loehner, S. Zalesak) who have laid the foundations of the FCT methodology and demonstrated its potential in a variety of spectacular CFD simulations.

**Information:** An online registration form will be available shortly at the homepage of the workshop: <http://www.mathematik.uni-dortmund.de/lisiii/conf/fct30.html>.

29–October 3 **IMA Workshop 1: Statistical Methods for Gene Expression: Microarrays and Proteomics**, University of Minnesota, Minneapolis, Minnesota. (Mar. 2003, p. 407)

30–October 3 **International Silk Road Conference: Quantum Theory, Partial Differential Equations of Mathematical Physics and Their Applications**, Tashkent, Uzbekistan. (May 2003, p. 604)

30–October 7 **Mathematics in Armenia—Advances and Perspectives**, Institute of Mathematics of National Academy of Sciences of Armenia, Yerevan, Armenia. (Feb. 2003, p. 295)

## October 2003

2–4 **AMS Joint Central and Western Section Meeting**, University of Colorado, Boulder, Colorado (May 2003, p. 604)

11–12 **AMS Eastern Section Meeting**, SUNY-Binghamton, Binghamton, New York. (Sept. 2002, p. 1001)

13–17 **2003 IEEE/WIC International Conference on Web Intelligence (WI 2003)**, Tianlun Dynasty Hotel, Beijing, China. (Feb. 2003, p. 295)

15–20 **Von Neumann Centennial Conference: Linear Operators and Foundations of Quantum Mechanics**, Budapest, Hungary. (Sept. 2002, p. 1001)

20–24 **IMA Workshop 2: Comparative Genomics**, University of Minnesota, Minneapolis, Minnesota. (Mar. 2003, p. 408)

20–25 **International Symposium of Mathematics, Analysis and Probability**, Hammamet, Tunisia. (Apr. 2003, p. 498)

24–25 **AMS Southeastern Section Meeting**, University of North Carolina, Chapel Hill, North Carolina. (Sept. 2002, p. 1001)

\* 26–31 **LISA'03—17th Systems Administration Conference**, San Diego, California.  
**Information:** <http://www.usenix.org/events/lisa03/>.

\* 27–29 **International Network Optimization Conference**, Institut National des Télécommunications, Evry/Paris, France.

**Scope:** Information sciences and communication technologies are increasingly both a main focus and a major application of well-established as well as emerging theories and techniques. Examples are operations research, graph theory and queueing theory, in addition to stochastic search, to state just a few. The aim of this conference is to bring together people from those disciplines with

a main focus on network optimization. Special attention will be given to the latest technologies and to the challenges encountered therein.

**Deadlines:** Short paper submission deadline: April 25, 2003. Notification of acceptance: July 14, 2003. Long paper submission (optional): August 16, 2003. Submission of camera-ready short papers: August 16, 2003. Deadline for early conference registration: September 19, 2003.

**Information:** <http://www.int-evry.fr/INOC2003/>; email: [inoc2003-oc@int-evry.fr](mailto:inoc2003-oc@int-evry.fr).

28–31 **Fourteenth International Symposium on Methodologies for Intelligent Systems**, Maebashi TERRSA, Maebashi City, Japan. (Feb. 2003, p. 295)

## November 2003

3–5 **Second International Conference on Computational Methods in Multiphase Flow**, Santa Fe, New Mexico. (Oct. 2002, p. 1135)

3–8 **IV International Colloquium on Differential Equations and Applications**, Maracaibo, Venezuela. (Apr. 2003, p. 498)

4–6 **Seventh International Conference on Computational Modelling of Free and Moving Boundary Problems**, Santa Fe, New Mexico. (Oct. 2002, p. 1135)

\* 7–9 **Weekend Algebra Meeting**, Florida Atlantic University, Boca Raton, Florida.

**Format:** The format is simple, there is no registration fee, and, conversely, we cannot offer honoraria or travel reimbursement (except for graduate students and young Ph.D.'s; see below). We are planning to have 20-minute presentations on Friday afternoon, Saturday morning, and Sunday morning. On Saturday afternoon there will be a special session on current directions and emerging opportunities in our areas of research. The department plans to host a banquet on Friday evening and a party on Saturday evening.  
**Organizers:** L. Klingler ([klingler@fau.edu](mailto:klingler@fau.edu)) and M. Schmidmeier ([mschmidm@fau.edu](mailto:mschmidm@fau.edu)).

**Sponsor:** The Charles E. Schmidt College of Science of Florida Atlantic University.

**Support:** We have applied for NSF support for graduate students and young Ph.D.'s (travel and local expenses).

**Information and Registration:** We are going to send out the second email announcement in May. If you haven't received the first announcement but want us to keep you informed, please pre-register at <http://www.math.fau.edu/weekend-algebra/>; send an email to one of the organizers; or send a fax to Weekend Algebra Meeting 2003 (561-297-2436).

10–13 **SIAM Conference on Geometric Design & Computing**, Elliott Grand Hyatt, Seattle, Washington. (Nov. 2002, p. 1287)

\* 14–18 **Workshop on Patterns in Physics**, The Fields Institute, Toronto, Ontario.

**Organizing Committee:** R. Almgren, N. Ercolani (Chair), D. Henderson, J. Lega, M. Pugh.

**Information:** <http://www.fields.utoronto.ca/programs/scientific/03-04/pde/physics/index.html>.

17–21 **IMA Workshop 3: Networks and the Population Dynamics of Disease Transmission**, University of Minnesota, Minneapolis, Minnesota. (Mar. 2003, p. 408)

\* 19–22 **ICDM '03: The Third IEEE International Conference on Data Mining**, Melbourne, Florida.

**Call for Papers:** Papers due: June 10, 2003.

**Invited Speakers:** T. G. Dietterich, Oregon State Univ.; U. M. Fayyad, [digiMine.com](http://digiMine.com); H. Mannila, Univ. of Helsinki, Finland; G. W. Myers, Univ. of California, Berkeley; P. S. Yu, IBM T. J. Watson Research Center.

**Scope:** Areas of interest are machine learning, automated scientific discovery, statistics, pattern recognition, knowledge acquisition,

soft computing, databases and data warehousing, data visualization, and knowledge-based systems. As an important part of the conference, the workshops program will focus on new research challenges and initiatives, and the tutorial program will cover emerging data mining technologies and the state-of-the-art of data mining developments.

**Information:** <http://www.cs.uvm.edu/~xwu/icdm-03.html>.

**Further Information:** Xindong Wu (ICDM 2003), Department of Computer Science, University of Vermont, 351 Votey Building, Burlington, VT 05405; phone: 802-656-7839; fax: 802-656-0696; email: [xwu@cs.uvm.edu](mailto:xwu@cs.uvm.edu).

\* **26–29 Modern Problems of Mathematical Physics and Informational Technologies**, National University of Uzbekistan, Tashkent, Uzbekistan.

**Description:** The conference is devoted to modern problems in the area of differential equations and IT science. Scientists of any scientific background are welcome to participate (students, Ph.D. students, and professional researchers).

**Topics:** (1) Degenerating equations and mixed type equations, (2) Spectral theory of differential operators, (3) Boundary value problems of differential equations and their applications, (4) Calculus and information technologies.

**Deadline:** Deadline for submitting papers (L<sup>A</sup>T<sub>E</sub>X file, no more than 5 papers) is June 1, 2003.

**Information:** (in Russian): <http://www.nuu.uz/conf/>.

### December 2003

\* **8–12 Stochastic Methods in Coagulation and Fragmentation**, Isaac Newton Institute for Mathematical Sciences, Cambridge, UK.

**Information:** Isaac Newton Institute for Mathematical Sciences, 20 Clarkson Road, Cambridge, CB3 0EH UK; tel: +44 (0) 1223 335999; fax: +44 (0) 1223 330508; email: [info@newton.cam.ac.uk](mailto:info@newton.cam.ac.uk). Further information and application forms are available from the WWW at: <http://www.newton.cam.ac.uk/programs/IGS/igs04.html>.

**14–16 International Conference on Matrix Analysis and Applications**, Nova Southeastern University, Fort Lauderdale, Florida. (Mar. 2003, p. 408)

**15–19 Numerical Methods in Imaging Science and Information Processing**, Institute for Mathematical Sciences, National University of Singapore, Singapore. (Dec. 2002, p. 1422)

**15–19 The 8th Asian Technology Conference in Mathematics**, Chung Hua University, Hsin-Chu, Taiwan. (Apr. 2003, p. 499)

**17–20 First Joint International Meeting between the American Mathematical Society and Various Indian Mathematical Societies**, Bangalore, India. (Sept. 2002, p. 1001)

\* **19–21 WSEAS Multiconferences**, Tenerife, Canary Islands, Spain.

**Description:** The multiconference is the 4th in the successful history of the conference that was held in Athens, Greece (2000), Cairns, Australia (2001), Miedzyzdroje, Poland (2002). As in 2002 in the conference in Poland, all the accepted papers will be published in *WSEAS Transactions on Mathematics*.

**Topics:** 4th WSEAS International Conference on Mathematics and Computers in Biology and Chemistry (MCBC'03) with special emphasis on: Bioengineering, molecular biology, mathematical biology, biochemistry, biophysics, computer biology, biological dynamical systems. 4th WSEAS International Conference on mathematics and computers in business and economics (MCBC'04) (theoretical, mathematical, computational, statistical, experimental methods for economics, business and management science and applications). 7th WSEAS Int.Conf. on 4th WSEAS International Conference on Automation & Information (ICAI'03). 4th WSEAS International Conference on acoustics, music, speech and language processing (ICAMSL 2003) (former acoustics and music: theory and applications).

**Information:** <http://www.wseas.org/>.

\* **20–22 International Symposium on Recent Advances in Mathematics & Its Applications (ISRAMA 2003)**, Kolkata (Calcutta), India.

**Topics:** Algebra, Discrete Mathematics & Theoretical Computer Science; Analysis & Topology and Their Applications; Geometry and Its Applications; Dynamical Systems, Chaos and Fractals; Continuum Mechanics; Plasma Physics; Control Theory and Optimization Theory; Bio-mechanics; Applications of Mathematics to Environmental Problems; History and Philosophy of Physical Science; Quantum Information Theory. All deliberations in the symposium shall take place in English.

**Registration Fee:** US \$200 for each participant from other countries (local hospitality will be provided).

**Contact:** All correspondence regarding the symposium should be addressed to: M. R. Adhikari, Secretary, Calcutta Mathematical Society, Physics & Applied Mathematics Unit, AE-374, Sector-1, Salt Lake City, Calcutta-700064, India; email: [cms@cal2.vsnl.net.in](mailto:cms@cal2.vsnl.net.in); H. P. Mazumdar, Convenor; Indian Statistical Institute, 203 B. T. Road, Calcutta-700035, India; [hpm@isical.ac.in](mailto:hpm@isical.ac.in).

\* **22–25 International Conference on Analysis and Applications**, Department of Mathematics, Banaras Hindu University, Varanasi 221 005, India.

**Conference Themes:** Recent trends of researches in classical and modern analysis including functional analysis, operator theory, distribution theory, harmonic analysis and wavelets, optimization theory, approximation theory, computational analysis and differential equations.

**Invited speakers:** R. D. Chermichael (USA), J. Schmeelk (USA), S. Pilipovic' (Yugoslavia), K. Fujita (Japan), S. Watanabe (Japan), H. P. Dikshit (India), P. K. Jain (India), S. Kesavan (India), G. Mishra (India), U. B. Tewari (India), J. N. Pandey (Canada), S. P. Singh (Canada), H. M. Srivastava (Canada), M. W. Wong (Canada).

**Call for Papers:** Abstract of contributed papers should be sent by July 31, 2003. Proceedings of the conference will be published.

**Information:** N. Lal, R. S. Pathak, Dept. of Math., Banaras Hindu Univ., Varanasi 221 005, India; tel: 091-542-2575262/2275662; fax: 091-542-2368174; email: [rspathak@banaras.ernet.in](mailto:rspathak@banaras.ernet.in); <http://ramshankarpathak@yahoo.co.in/>.

### January 2004

**7–9 IMA Short Course: The Internet for Mathematicians**, University of Minnesota, Minneapolis, Minnesota. (Mar. 2003, p. 408)

**7–10 Joint Mathematics Meetings**, Phoenix Civic Plaza, Phoenix, Arizona. (Sept. 2002, p. 1001)

**9–10 2003-04 ASL Winter Meeting (with Joint Mathematics Meetings)**, Phoenix, Arizona. (Apr. 2003, p. 499)

**11 IMA Tutorial: Measurement, Modeling and Analysis of the Internet**, University of Minnesota, Minneapolis, Minnesota.

**Organizer:** B. Hajek (Illinois), D. Towsley (Massachusetts). (Mar. 2003, p. 408)

**12–16 IMA Workshop 4: Measurement, Modeling and Analysis of the Internet**, University of Minnesota, Minneapolis, Minnesota. (Mar. 2003, p. 408)

**19–July 9 Statistical Mechanics of Molecular and Cellular Biological Systems**, Isaac Newton Institute for Mathematical Sciences, Cambridge, England. (Mar. 2003, p. 408)

**21–30 Advanced Course on Ramsey Methods in Analysis**, Bellaterra (Barcelona), Spain. (Apr. 2003, p. 499)

**26–July 16 Random Matrix Approaches in Number Theory**, Isaac Newton Institute for Mathematical Sciences, Cambridge, England. (Mar. 2003, p. 408)

### February 2004

**2–13 Advanced Course on Contemporary Cryptology**, Bellaterra (Barcelona), Spain. (Apr. 2003, p. 499)

**8 IMA Tutorial: Robustness and the Internet: Design, Evolution, and Theoretical Foundations**, University of Minnesota, Minneapolis, Minnesota. (Apr. 2003, p. 499)

**9-13 IMA Workshop 5: Robustness in Complex Systems**, University of Minnesota, Minneapolis, Minnesota. (Apr. 2003, p. 499)

### March 2004

\* **1-26 Markov Chain Monte Carlo: Innovations and Applications in Statistics, Physics, and Bioinformatics**, Institute for Mathematical Sciences, National University of Singapore, Singapore.

**Description:** The purpose of this program is to bring together people who work on innovative developments and applications in statistics, physics, and bioinformatics. The program aims to encourage cross-fertilization between workers in rather different developments and also to challenge the theoretical capacity of these methods by exposing them to statistical and bioinformatical applications.

**Organizing Committee:** W. Kendall, chair (Univ. of Warwick, UK); F. Liang, co-chair (National Univ. of Singapore and Texas A&M Univ., USA) and J.-S. Wang, co-chair (National Univ. of Singapore).

**Format:** The program will be comprised of a tutorial (March 1-5, 2004) on background material and a workshop (March 22-26, 2004) at the research level, in addition to seminars and informal discussions.

**Registration:** Registration forms for the tutorial/workshop are available at <http://www.ims.nus.edu.sg/Programs/mcmc/index.htm> and should be received at least one month before commencement of each activity. Registration is free. Membership is not required for participation.

**Membership:** Membership application for visiting the institute under the program is also available from the above website. Members do not need to register for specific activities.

**Contacts:** For general enquiries, please email: [ims@nus.edu.sg](mailto:ims@nus.edu.sg); for enquiries on scientific aspects of the program, please email W. Kendall, [w.s.kendall@warwick.ac.uk](mailto:w.s.kendall@warwick.ac.uk); F. Liang, [fliang@stat.tamu.edu](mailto:fliang@stat.tamu.edu); and J.-S. Wang, [cscwjs@nus.edu.sg](mailto:cscwjs@nus.edu.sg).

**Information:** For more information please visit: <http://www.ims.nus.edu.sg/Programs/mcmc/index.htm>.

**7 IMA Tutorial: Control and Pricing in Communication and Power Networks**, University of Minnesota, Minneapolis, Minnesota. (Apr. 2003, p. 499)

**8-13 IMA Workshop 6: Control and Pricing in Communication and Power Networks**, University of Minnesota, Minneapolis, Minnesota. (Apr. 2003, p. 499)

**8-June 11 Proteomics**, Institute for Pure and Applied Mathematics, UCLA, Los Angeles, California.

**12-13 AMS Southeastern Section Meeting**, Florida State Univ., Tallahassee, Florida. (Dec. 2002, p. 1001)

**26-27 AMS Central Section Meeting**, Ohio Univ., Athens, Ohio. (Dec. 2002, p. 1001)

**29-April 2 IMA Short Course: Tools for Modeling and Data Analysis in Finance/Asset Pricing**, University of Minnesota, Minneapolis, Minnesota. (Apr. 2003, p. 499)

### April 2004

**3-4 AMS Western Section Meeting**, University of Southern California, Los Angeles, California. (May 2003, p. 604)

\* **4-7 Fractal 2004**, Vancouver, Canada.

**Topics:** "Complexity and Fractals in Nature". 8th International Multidisciplinary Conference.

**Information:** <http://www.kingston.ac.uk/fractal/>.

**12-16 IMA Workshop 7: Risk Management and Model Specifications Issues in Finance**, University of Minnesota, Minneapolis, Minnesota. (Apr. 2003, p. 499)

**17-18 AMS Eastern Section Meeting**, Rider Univ., Lawrenceville, New Jersey. (Sept. 2002, p. 1001)

\* **19-24 CHT-04: Advances in Computational Heat Transfer**, Cruise ship between Kirkenes and Bergen and Norway.

**Objective:** To provide a forum for the exposure and exchange of ideas, methods, and results in computational heat transfer. Papers on all aspects of computational heat transfer, both fundamental and applied, will be welcome.

**Program:** The program will comprise contributed papers, all of which will be poster presentations; nine invited keynote lectures, all presented as stand-up lectures; a panel discussion on "Validation and Verification of Computational Solutions" (with invited participants plus open discussion from the floor); and a minisymposium on "Computational Combustion" (with invited speakers).

**Deadline:** For extended (3-4 page) abstracts: September 1, 2003.

**Information:** <http://cht04.mech.unsw.edu.au/>.

\* **22-25 2004 ASL Spring Meeting (with APA)**, Chicago, Illinois.

**Description:** This meeting will be held jointly with the Annual Meeting of the Central Division of the American Philosophical Association.

**Program Committee:** S. Awodey, T. Bays, and M. Kremer (chair).

**Information:** Visit <http://www.aslonline.org/>.

### May 2004

**3-7 IMA Workshop 8: Model Implementation, Algorithms and Software Issues**, University of Minnesota, Minneapolis, Minnesota. (Apr. 2003, p. 499)

**19-24 2004 ASL Annual Meeting**, Carnegie Mellon Univ., Pittsburgh, Pennsylvania. (Dec. 2002, p. 1422)

**24-28 IMA Workshop 9: Financial Data Analysis and Applications**, University of Minnesota, Minneapolis, Minnesota. (Apr. 2003, p. 499)

The following new announcements will not be repeated until the criteria in the next to the last paragraph at the bottom of the first page of this section are met.

### July 2004

\* **25-31 2004 ASL European Summer Meeting (Logic Colloquium '04)**, Torino, Italy.

**Program Committee:** T. Arai, D. DeJohgh, W. Goldfarb, G. Hjorth, S. Lempp, G. Lolli, D. Marker, D. Martin, R. McKenzie, W. Pohlers (Chair), W. Sieg, A. Sorbi, and A. Wilkie.

**Local Organizing Committee:** A. Andretta (Chair), S. Berardi, R. Camerlino, U. De Liguoro, M. Dezani, A. Marcone, N. Olivetti, and D. Zambella.

**Information:** <http://lc2004.unito.it/>.