Mathematics Calendar

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

August 2000

August–December **MSRI Program in Algorithmic Number Theory**, Mathematical Sciences Research Institute, Berkeley, California. (Sept. 1998, p. 1054)

Focus: Number theory has always been intertwined with computation, and over the last 20 years the influx of new ideas, concerns, and techniques has continued unabated. Its interconnections with cryptography, arithmetic algebraic geometry and theoretical complexity, make algorithmic number theory an ideal MSRI topic at this time. Specific areas of active interest are elliptic curves, factoring, lattice basis reduction, discrete logarithms, higher genus curves, and finite fields. There are tensions here: between explicit computations and asymptotic questions of complexity; between elementary and advanced methods; between practical considerations and, in the case of cryptography, abstract notions of "security". These tensions provide a rich source of inspiration and will encourage interaction between disparate groups. These programs will be sequenced as above in overlapping segments.

Program Committee: J. Buhler, H. Lenstra.

Information: For more details, visit http://www.msri.org/.

August–May **MSRI Program in Operator Algebras**, Mathematical Sciences Research Institute, Berkeley, California. (Sept. 1998, p. 1054)

Focus: Since the 1984-85 MSRI program in operator algebras, developments have continued at a rapid pace, and interactions with other fields such as elementary particle physics and quantum groups continue to grow.

Topics: These topics will be emphasized: noncommutative geometry; simple C^* algebras; noncommutative dynamical systems; subfactors; quantization; algebraic quantum field theory; free probability theory; operator spaces. These programs will be sequenced as above in overlapping segments.

Program Committee: A. Connes, E. G. Effros, U. Haagerup, M. A. Rieffel (co-chair), D. Voiculescu (co-chair).

Information: For more details, visit http://www.msri.org/.

21 **Geometric and Topological Methods in Concurrency Theory, A Satellite to CONCUR '2000**, Pennsylvania State University, State College, Pennsylvania. (Apr. 2000, p. 502)

Workshop Topics: This workshop follows last year's "Geometric and Topological Methods in Concurrency Theory" meeting held at Aalborg University, Denmark. The aim is to bring together researchers that apply geometric, topological and algebraic topological methods to formalize and analyze dynamical, concurrent and distributed systems. The spirit of the meeting will be informal and will focus on exchange of information and discussion. It will consist of a number of tutorials, invited talks, together with accepted papers. Abstracts and work in progress reports are encouraged.

Submission Deadline: May 19, 2000.

Information: GETCO'00: http://www.dmi.ens.fr/~goubault/getco.html; CONCUR'00: http://www.cse.psu.edu/concur2000/; EXPRESS'00: http://www.docs.uu.se/~victor/Express/express00.shtml; GETCO'99: http://www.math.auc.dk/~raussen/admin/workshop/workshop.html.

21–24 **International Conference on Geometry, Analysis, and Applications (In Honor of Late Professor V. K. Patodi)**, Banaras Hindu University, Varanasi, India. (Jan. 2000, p. 82)

Conference Themes: Recent developments in differential geometry, classical and modern analysis, generalized functions, partial differential equations and applications. Symposia on (i) Atiyah-Patodi-Singer Index Theorem, (ii) Wavelets and applications.

Invites Speakers: Sir Michael Atiyah (Cambridge), I. M. Singer (MIT),

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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 or 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 **six 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 e-MATH on the World Wide Web. To access e-MATH, use the URL: http://e-math.ams.org/ (or http://www.ams.org/). (For those with VT100-type terminals or for those without WWW browsing software, connect to e-MATH via Telnet (telnet e-math.ams.org; login and password e-math) and use the Lynx option from the main menu.)

R. Bott (Harvard), R. B. Melrose (MIT), M. S. Narsimhan (ICTP), S. Ramanan (TFIR, Bombay), Adimurthi (TFIR, Bangalore), K. B. Sinha (ISI, Delhi), S. Bhargava (Mysore), R. Bhatia (ISI, Delhi), R. D. Carmichael (Winston-Salem, NC), H. P. Dikshit (Bhopal), S. Deshmukh (Riyad), K. L. Duggal (Windsor), K. Fukaya (Kyoto), P. A. Gastesi (Chennai), H. J. Glaeske (Jena, FRG), M. J. M. Heijnmans (Amsterdam), R. F. Hoskins (Bedford), P. K. Jain (Delhi), S. L. Kalla (Kuwait), T. Kawaguchi (Japan), K. S. Kazarian (Madrid), O. Liess (Bologna), A. Miyachi (Tokyo), M. Nagase (Osaka), M. Oberguggenberger (Innsbruck, Austria), H. Pedersen (Odense, Denmark), J. N. Pandey (Ottawa), L. Rodino (Torino), S. Saitoh (Japan), S. Deo (Rewa), J. Schmeelk (Virginia), R. Sharma (New Haven), D. Singh (Delhi, R. K. Singh (Jammu, S. P. Singh (Portsmouth), M. Sitaramayya (Hyderabad), H. M. Srivastva (Victoria), V. S. Sunder (ISI, Bangalore), U. B. Tewari (Kanpur), K. Trimiche (Tunisia), M. W. Wong (York, Canada), S. L. Yadava (TIFR, Bangalore).
Call for Papers: Abstracts of contributed papers should be sent by March 31, 2000. Proceedings of the conference will be published.
Information: R. S. Pathak, Dept. of Math., Banaras Hindu Univ., Varanasi-221005, India; tel.: 091-0542-307435 (O), 091-0542-312158 (R), fax: 091-0542-317074, e-mail: rspathak@banaras.ernet.in.

21–25 **16th IMACS World Congress (IMACS Congress 2000)**, Lausanne, Switzerland. (Oct. 1999, p. 1109)
Host: Swiss Federal Institute of Technology (École Polytechnique Federale de Lausanne).
Information: For more information about the congress, contact either R. Owens (robert.owens@epfl.ch) or the IMACS secretariat at the following addresses: IMACS Secretariat, Dept. of Computer Science, Rutgers Univ., New Brunswick, NJ 08903; fax: 732-445-0537; e-mail: imacs@cs.rutgers.edu; Web page: http://IMACS2000.epfl.ch/ or http://www.cs.rutgers/.

21–30 **Conference and Ukrainian-U.S. Workshop "Dynamical Systems and Ergodic Theory"**, Katsiveli, Crimea, Ukraine. (Aug. 2000, p. 799)
Organizers: Institute of Mathematics and Institute for Low Temperature Physics and Engineering of the National Academy of Sciences of Ukraine together with Institut de Mathématiques de Luminy and Université de Tours, France, and will be partially sponsored by the INTAS OPEN-97 grant 1843 and INTAS Monitoring Conference Grants, Centre National de la Recherche Scientifique (CNRS, France), Ministry of Sciences and Technologies of Ukraine, Center for Dynamical Systems at Penn State University (U.S.), European Science Foundation - PRODYN, European Mathematical Society, CRDF Ukrainian - U.S. Scientific Workshop Grants (a joint program with the National Science Foundation (U.S.)).
Dedicated: To the memory of Vladimir Mikhailovich Alexeyev (1932–1980).
Minicourses: V. Bergelson (Ohio State Univ.), Anatole Katok (Pennsylvania State Univ.), P. Le Calvez (Univ. Paris 13, France), J.-P. Thouvenot (Univ. Paris 6, France), S. van Strien (Univ. of Warwick, UK), B. Weiss (Hebrew Univ. of Jerusalem, Israel).
Program: The program of the meeting will include: short speeches/recollections of Anatole Katok, Alexander Sharkovsky, and Anatole Stepin; minicourses; 50-minute lectures; and 30-minute talks.
Information: S. Kolyada, Dept. of Dynamical Systems Theory, Inst. of Math., National Acad. of Sciences of Ukraine, Tereshchenkivs'ka, 3, 252601, Kiev, Ukraine; phone: (+380)-44-2243036; fax: (+380)-44-2352010; e-mail: kats2000@imath.kiev.ua; Web site: http://www.imath.kiev.ua/~skolyada/kats2000.html.

22–24 **The Fifth Iranian Statistics Conference**, Isfahan University of Technology, Isfahan, Iran. (June/July 1999, p. 715)
Sponsors: This conference is jointly sponsored by the Iranian Statistical Society.
Program: The program includes invited and contributed talks in the areas of theory and applications of statistics and probability, short introductory sessions on current popular fields in statistics, sessions on promoting statistical culture in the society, and sessions on statistical education.
Support: A number of grants are available to those presenting papers from abroad. The grants will cover local hotel and meal expenses.
Information: Contact Fifth Iranian Statistics Conference, School of Mathematical Sciences, Isfahan Univ. of Technology, Isfahan 84156, Iran; tel: 98 31 8912600; fax: 98 31 8912602; e-mail: ISC5@cc.iut.ac.ir; Web sites: http://www.iut.ac.ir/math/isc5.htm or http://pegasus.cc.ucf.edu/~iss/.

23–27 **Second International Conference on Deterministic and Stochastic Modeling of Biointeraction**, West Lafayette, Indiana. (Apr. 2000, p. 502)
Organizer: Department of Mathematics of Purdue University.
Aim: Following the first DESTOBIO organized in Sofia (Bulgaria) in 1997, the aim of the meeting is again to bring together people from the deterministic and stochastic modeling worlds with the expectation that something useful may come out.
Topics: (1) Deterministic and stochastic approaches to mathematical modeling in population dynamics, epidemiology, immunology, genetics, neurophysiology, molecular biology, cell biology, pattern formation, bioecology; (2) Computational biomathematics; (3) Nonlinear dynamics effects, Deterministic and stochastic chaos.
Information: http://www.math.purdue.edu/~milner/DESTOBIO_2000.html. Send e-mail indicating your interest in participating to destobio@math.purdue.edu.

24–26 **Lehmer Conference: A Conference on Number Theory Honoring the Lehmers for Their Contributions to Mathematics and to U. C. Berkeley**, University of California at Berkeley, California. (Jun./Jul. 2000, p. 700)
Description: A three-day conference covering the range of the Lehmers' mathematical interests, number theory in particular. In addition to the lectures there will be a banquet and a display of all the sieves built by D. H. Lehmer over four decades, including the bicycle-chain sieve of 1927, which is expected to be operational.
Speakers: M. Bennett, D. Boyd, J. Brillhart, R. Graham, A. Lenstra, K. Ono, C. Pomerance, J. Selfridge, D. Singmaster, H. Stark, H. Williams, K. Williams.
Organizers: J. Brillhart, R. Graham, H. W. Lenstra Jr., B. Poonen, H. Williams.
Information: http://www.math.berkeley.edu/lehmer.html.

27–September 1 (NEW DATE) **Ninth Summer St. Petersburg Meeting in Mathematical Analysis**, Euler International Mathematical Institute, St. Petersburg, Russia. (Mar. 2000, p. 393)
Organizers: Steklov Institute of Mathematics at St. Petersburg and the Euler International Mathematical Institute.
Organizing Committee: V. I. Vasyunin, S. V. Kisliakov, N. N. Nikolsky.
Information: http://www.pdmi.ras.ru/EIMI/2000/analysis9/.

September 2000

September 2000–January 2001 **Infinite Dimensional Lie Theory and Its Applications Program**, Toronto, Canada. (Apr. 2000, p. 502)
Workshops: Infinite-Dimensional Lie Algebras and Groups: Structure and Geometry, September 25–29, 2000, organized by V. Kac (MIT), O. Mathieu (Lyon), and A. Pianzola (Alberta); Vertex Operator Algebras in Mathematics and Physics, October 23–27, 2000, organized by S. Berman (Saskatchewan), Y. Bilig (New Brunswick), Y.–Z. Huang (Rutgers), and J. Lepowsky (Rutgers); Quasiclassical and Quantum Structures, organized by P. Etingof (MIT) and B. Khesin (Toronto).
Information: http://www.fields.utoronto.ca/ or e-mail: lietheory@fields.utoronto.ca.

September 2000–June 2001 **Mathematical Logic**, Mittag-Leffler Institute, Djursholm, Sweden. (Feb. 2000, p. 285)
Program: The academic year September 2000–June 2001 will be devoted to Mathematical Logic.
Organizers: V. Stoltenberg-Hansen, Uppsala; P. Martin-Löf, Stockholm; D. Normann, Oslo; and J. Väänänen, Helsinki.

Application Deadlines: For postdoctoral fellowships: January 31, 2000, to: M.-L. Koskull, Mittag-Leffler Institute, Auravägen 17, SE-182 62 Djursholm, Sweden.
Information: See our home page, http://www.ml.kva.se/.

1–4 **Constantin Caratheodory in His...Origins**, Vissa Orestiada, Greece. (Aug. 2000, p. 799)
Invited Lecturers: R. Bulirsch, Technische Univ. München, Germany; H. M. Srivastava, Univ. of Victoria, Canada; O. Smolyanov, Moscow Univ., Russia; E. Wegert, TU Bergakademie Freiberg, Germany.
Information: T. Vougiouklis, Democritus Univ. of Thrace, 68 100 N. Chili, Alexandroupolis, Greece; tel. +30-551-39348; e-mail: vougiouklis@xanthi.cc.duth.gr and vougiou@edu.duth.gr; fax: +30-551-40040 and +30-551-39348.

3–6 **EMPG 2000 - 31st European Mathematical Psychology Group Meeting**, Graz, Austria. (May 2000, p. 502)
Information: e-mail: empg2000@psyserver.kfunigraz.ac.at; D. Albert, Dept. of Psychology, Universitätsplatz 2/II, A-8010 Graz, Austria; tel: +(43) 316-380-5118 (-5104); fax: +(43) 316-380-9806; URL: http://psyserver.kfunigraz.ac.at/empg2000/.

3–10 **Noncommutative Geometry**, Martina Franca, Taranto, Italy. (Feb. 2000, p. 285)
Sponsor: CIME Foundation.
Lecture Topics: Noncommutative geometry (A. Connes, Collège de France, France), KK Theory and cyclic cohomology (J. Cuntz, Univ. Munster, Germany), Group C^*-algebras and K-theory (N. Higson, Penn State Univ.), The algebraic approach to quantum field theory (J. E. Roberts, Univ. di Roma "Tor Vergata").
Information: http://www:math.unifi.it/CIME/ or e-mail: cime@math.unifi.it.

3–11 **Fifth International Workshop on Complex Structures and Vector Fields**, St. Constantine resort (near Varna), Bulgaria. (Aug. 2000, p. 799)
Organizing Committee: S. Dimiev (chairman, Sofia, Bulgaria), S. Manoff (Sofia, Bulgaria), K. Sekigawa (Niigata, Japan), H. Hashimoto (Saitama, Japan).
Program: 45-minute plenary lectures delivered by invited speakers and 30-minute communications are planned. The following seminars are also planned: (1) Seminar on Complex Analysis and Potential Theory, (2) Seminar on Differential Geometry, (3) Seminar on Mathematical Physics.
Information: Fifth International Workshop on Complex Structures and Vector Fields, Institute of Mathematics of the Bulgarian Academy of Sciences, Acad. G. Bonchev str. Bl. 8, 1113 Sofia, Bulgaria; S. Dimiev, e-mail: sdimiev@math.bas.bg; S. Manoff, e-mail: smanov@inrne.bas.bg.

4–6 **BEM 22 — 22nd International Conference on the Boundary Element Method**, New Hall, Cambridge University, UK. (Mar. 2000, p. 397)
Organizers: Wessex Institute of Technology (WIT), Ashurst Lodge, Southampton, SO40 7AA, UK.
Information: For further details contact Karen Savage, BEM 22/1485; e-mail: ksavage@wessex.ac.uk; Web site: http://wessex.ac.uk/conferences/2000/; tel: 44 (0) 238 029 3223; fax: 44 (0) 238 029 2853.

4–6 **Ninth Mathematics of Surfaces**, Cambridge, UK. (Jun./Jul. 2000, p. 700)
Information: Pamela Bye, Conference Officer, The Institute of Mathematics and Its Applications, Catherine Richards House, 16 Nelson Street, Southend-on-Sea, Essex, SS1 1EF, UK; tel: (01702) 354020; fax: (01702) 354111; e-mail: conferences@ima.org.uk; Web: http://www.ima.org.uk/.

4–7 **Undergraduate Mathematics Teaching Conference**, Sheffield-Hallam University, Sheffield, UK. (Jun./Jul. 2000, p. 701)
Program: The Undergraduate Mathematics Teaching Conference is a working conference that provides an opportunity for lecturers and others interested in mathematics in higher education to share ideas concerning undergraduate teaching, learning, and assessment. Much of the conference is spent in small groups working on briefs relating to undergraduate mathematics. Each group produces a report comprising examples, relevant arguments, and recommendations. The reports are refereed by, and incorporate critical feedback from, other groups and form the major part of the published proceedings.
Workshop Topics: Supporting the Professional Development of Mathematics Lecturers, Use of the Internet in Teaching Mathematics, Innovations in Teaching Discrete Mathematics, What Use Might Mathematics Education Research Be to University Mathematics Teachers? Attracting Students to Mathematics.
Speakers: This year the speakers are S. Singh, television producer and author of *Fermat's Last Theorem* and *The Code Book*; and R. P. Burn, professor of mathematics education.
Presentations and Posters: Delegates are invited to contribute to a presentation session where issues relevant to all aspects of undergraduate mathematics may be aired. Delegates are also welcome to bring posters. Abstracts of presentations will be published in the proceedings.
Information and Registration: Visit our Web site at http://www.hull.ac.uk/mathskills/umtc/umtc00/ or contact D. Emery, Conference Chair, UMTC 2000, at D.J.Emery@staffs.ac.uk.

4–10 **Multiscale Problems in Science and Technology. Challenges to Mathematical Analysis and Perspectives**, Inter-University Centre, Dubrovnik, Croatia. (Jun./Jul. 2000, p. 701)
Organizing Committee: N. Antonić (Univ. of Zagreb), V. Capasso (Univ. di Milano), C. J. van Duijn (CWI Amsterdam), W. Jäger (Univ. Heidelberg), A. Mikelić (Univ. Claude Bernard Lyon 1).
Confirmed Invited Speakers: B. Engquist (UCLA, Los Angeles), I. Fonseca (Carnegie-Mellon, Pittsburgh), H. Kinzelbach (Int. Th. Physics, Univ. Heidelberg), P. Knabner (Univ. Erlangen), S. Luckhaus (Univ. Leipzig), A. Piatniski (Lebedev Institute, Moscow), M. Primicerio (Univ. degli Studi di Firenze), R. Robert (Institut Fourier, Grenoble), C. Schwab (ETH Zürich), B. Schweizer (Univ. Heidelberg), L. Tartar (Carnegie-Mellon, Pittsburgh), R. Wehrse (Astrophysik, Heidelberg), and V. Zhikov (Univ. of Vladimir).
Information: On contributed talks, registration, financial possibilities for graduate students, social program, accommodations, and other details may be obtained from our WWW page at http://numerix.univ-lyon1.fr/~andro/dubrovnik.html or http://www.math.hr/~nenad/multiscales2000/.

4–15 **Spatial Structures in Biology and Ecology: Models and Methods**, Taranto, Italy. (May 2000, p. 595)
Description: The European Society for Mathematical and Theoretical Biology (ESMTB) will sponsor a Biomathematics Summer School to be held in Martina Franca (Taranto, Italy).
Deadlines: Scholarship applications: April 30, 2000. Communication of scholarship attributions: May 30, 2000. Reduced-fee registrations: June 30, 2000.
Information: Updated information about the school as well as a direct Web contact form is to be found on the Web page: http://mat.unimi.it/~miriam/ismtb/martina-ss/summer_school.html/.

5–7 **Third Quantitative Modelling in the Management of Health Care**, University of Salford, UK. (Jun./Jul. 2000, p. 701)
Information: Pamela Bye, Conference Officer, The Institute of Mathematics and Its Applications, Catherine Richards House, 16 Nelson Street, Southend-on-Sea, Essex, SS1 1EF, UK; tel: (01702) 354020; fax: (01702) 354111; e-mail: conferences@ima.org.uk; Web: http://www.ima.org.uk/.

5–8 **Brno Colloquium on Differential and Difference Equations**, Masaryk University in Brno, Czech Republic. (May 2000, p. 595)
Topic: Qualitative theory of differential and difference equations and applications.
Format: The scientific program consists of survey lectures, lectures, short communications, posters, and extended abstracts. There

will be enough time for individual discussions. Proceedings will be published. Approx. 70 participants will be accepted for this colloquium.
Survey Lectures: O. Dosly (Czech Rep.), I. Gyori (Hungary), T. Kusano (Japan), I. Kiguradze (Georgia), M. Marini (Italy), S. Schwabik (Czech Rep.).
Call for Papers: Participants are invited to present communications, posters, or extended abstracts.
Deadlines: Registration: May 15, 2000; Abstracts: June 15, 2000.
Information: http://www.math.muni.cz/cdde/ or e-mail: cdde@math.muni.cz.

5–16 **Advanced Course on Algebraic Quantum Groups**, Centre de Recerca Matematica, Campus of the Universitat Autónoma de Barcelona, Bellaterra, Spain. (Jan. 2000, p. 82)
Speakers: K. Brown (Univ. of Glasgow) and K. Goodearl (Univ. of California, Santa Barbara).
Further Information: http://crm.es/quantum/, or e-mail: quantum@crm.es.

8–10 **IMA Career Workshop: Connecting Women in Mathematical Sciences to Industry**, IMA, University of Minnesota, Minneapolis, Minnesota. (Mar. 2000, p. 397)
Organizers: R. E. Chang, S. Lenhart (Univ. of Tennessee), M. H. Wright (Bell Labs).
Information: Institute for Mathematics and its Applications, University of Minnesota, 207 Church St. SE, 400 Lind Hall, Minneapolis, MN 55455; phone: 612-624-6066; e-mail: staff@ima.umn.edu; or Web page: http://ima.umn.edu/women_in_industry.html/.

10–16 **Finiteness Conditions in Group Theory, dedicated to the memory of Richard E. Phillips**, Crotone, Italy. (Aug. 2000, p. 799)
Program: The aim of this school is to give an overview of some of the latest developments in some areas of group theory in which finiteness conditions play a prominent role. There will be five series of lectures given by J. I. Hall (Michigan State Univ.-East Lansing): Locally finite simple groups; F. Leinen (Univ. of Newcastle-Newcastle, UK): Finitary groups; D. J. S. Robinson (Univ. of Illinois - Urbana): Soluble groups of finite rank; P. Shumyatsky (Univ. of Brasilia - Brasilia, Brazil): Periodic residually finite groups; and M. J. Tomkinson (Univ. of Glasgow - Glasgow, UK): FC-groups.
Accommodations: Accommodations are limited. For this reason people interested in attending the school should contact the organizers as soon as possible at the following address: infinite@matna2.dma.unina.it. The cost of full-board accommodation is 70.000 Italian lire per day/per person. Further information will soon be available at the school's home page, whose URL is http://www.science.unitn.it/~puglisi/index.html.

11–15 **IMA Short Course: Markov Processes and Markov Random Fields, Information Theory, Statistical Estimation**, IMA, University of Minnesota, Minneapolis, Minnesota. (Mar. 2000, p. 397)
Organizers: S. Geman (Brown Univ.).
Information: Institute for Mathematics and its Applications, University of Minnesota, 207 Church St. SE, 400 Lind Hall, Minneapolis, MN 55455. Phone: 612-624-6066; e-mail: staff@ima.umn.edu or Web page: http://ima.umn.edu/multimedia/fall/t1.html/.

11–15 **IWOTA-Portugal 2000**, Faro, Portugal. (Sept. 1999, p. 982)

12–15 **International Workshop on Operator Theory and Applications (IWOTA)**, Faro, Portugal. (Oct. 1999, p. 1109)
Topics: The main topics will be factorization theory, factorization and integrable systems, operator theoretical methods in diffraction theory, algebraic techniques in operator theory, related topics and applications to mathematical physics. A related summer school on integrable systems and factorization problems is planned to precede the workshop (September 7–9). In 2000 another IWOTA conference will take place in Bordeaux (June 14–17).
Organizing Committee: M. A. Kaashoek (Amsterdam), V. G. Kravchenko (Faro), A. B. Lebre (Lisboa), N. Manojlovic (Faro), R. Picken (Lisboa), A. F. dos Santos (Lisboa), F.-O. Speck (Lisboa).
Registration: Those interested may pre-register on the IWOTA Web page or by e-mail in order to receive the second announcement containing further details and the registration form. This will be sent out in September 1999. All information, including a tentative list of participants, will be available on our Web page.
Information: Please contact the organizer: N. Manojlovic, U.C.E.H., Universidade do Algarve, Campus de Gambelas, 8000 Faro, Portugal; tel: +351-89-800914, ext. 7637; fax: +351-89-818560; e-mail: nmanoj@ualg.pt; http://www.ualg.pt/cma/iwota/.

12–15 **Short Course and Third Imaging and Digital Image Processing: Mathematical Methods, Algorithms and Applications**, De Montfort University, Leicester, UK. (Jun./Jul. 2000, p. 701)
Information: Pamela Bye, Conference Officer, The Institute of Mathematics and Its Applications, Catherine Richards House, 16 Nelson Street, Southend-on-Sea, Essex, SS1 1EF, UK; tel: (01702) 354020; fax: (01702) 354111; e-mail: conferences@ima.org.uk; Web: http://www.ima.org.uk/.

12–16 **Second International Boundary Integral Methods: Theory and Applications**, University of Bath, UK. (Jun./Jul. 2000, p. 701)
Information: Pamela Bye, Conference Officer, The Institute of Mathematics and Its Applications, Catherine Richards House, 16 Nelson Street, Southend-on-Sea, Essex, SS1 1EF, UK; tel: (01702) 354020; fax: (01702) 354111; e-mail: conferences@ima.org.uk; Web: http://www.ima.org.uk/.

13–15 **7th DIMACS Implementation Challenge: Semidefinite and Related Optimization Problems**, DIMACS Center, Rutgers University, Piscataway, New Jersey. (May 2000, p. 595)
Short Description: In the past few years much has been learned about the kinds of problem classes that SDP can tackle, the best SDP algorithms for the various classes, and the various limits of the current approaches to solving SDP's. Similar to, and indeed an extension of, semidefinite programming, a great deal is known about optimization with convex quadratic constraints as well as the limitation of current methods. This workshop attempts to distill and expand upon accumulated knowledge. We have collected a variety of interesting and challenging SDP instances, whose solution would expand our knowledge on the applicability of SDP.
Deadline for Submissions: March 30, 2000: Progress reports due for comment and feedback. This should mostly be helpful to newcomers to the area. August 15, 2000: Extended abstracts due for consideration for the workshop. All proposals and abstracts should be sent to the conference e-mail: challenge@dimacs.rutgers.edu.
Organizers: F. Alizadeh, Rutgers Univ.; D. Johnson, AT & T Labs - Research; G. Pataki, Columbia Univ.
Contacts: F. Alizadeh, Rutgers University, challenge@dimacs.rutgers.edu. Local arrangements: Jessica Herold, DIMACS Center, jessicah@dimacs.rutgers.edu, 732-445-5928.
Information: http://www.dimacs.rutgers.edu/Workshops/index.html.

14–15 **An Interdisciplinary Workshop on Innovative Boundary Element Techniques in Computational Acoustics and Electromagnetics**, University of Bath, UK. (Jun./Jul. 2000, p. 701)
Information: Pamela Bye, Conference Officer, The Institute of Mathematics and Its Applications, Catherine Richards House, 16 Nelson Street, Southend-on-Sea, Essex, SS1 1EF, UK; tel: (01702) 354020; fax: (01702) 354111; e-mail: conferences@ima.org.uk; Web: http://www.ima.org.uk/.

15–17 **Homogenization and Materials Science**, University of Akron, Akron, Ohio. (Mar. 2000, p. 397)
Description: An international conference in honor of the late Professor Ulrich Hornung of Bundeswehr University, Munich, Germany.
Topics: Nonlinear homogenization, effective computational schemes for composites and strongly heterogeneous materials, porous media, polymeric composites, saves in heterogeneous materials, mesoscale models derived from the microscale, evolution of microstructure, and homogenization applications in biology.

Organizing Committee: USA – L. Beryland, A. Friedman, S. I. Hariharan, W. Mattice, and G. Young. Europe – M. Bendsoe, D. Cioranescu, A. Damlamian, and W. Jager.
Honorary Chair of the Scientific Committee: J. L. Lions.
Information: For more information visit http://uakron.edu/ARTSCI/index.html/ and select Conferences, Seminars & Lectures.

18–22 **IMA Workshop 1: Mathematical Foundations of Speech Processing and Recognition**, IMA, University of Minnesota, Minneapolis, Minnesota. (Mar. 2000, p. 397)
Organizers: S. Khudanpur (John Hopkins Univ), M. Ostendorf (Boston Univ., Univ. of Washington), R. Rosenfeld (Carnegie Mellon Univ.).
Information: Institute for Mathematics and its Applications, University of Minnesota, 207 Church St. SE, 400 Lind Hall, Minneapolis, MN 55455; phone: 612-624-6066; e-mail: staff@ima.umn.edu; or Web page: http://ima.umn.edu/multimedia/fall/m1.html/.

18–22 **International Data Analysis Conference**, Innsbruck, Austria. (Mar. 99, p. 381)
Goal: The congress will take place at Innsbruck in the middle of the Alps. In the first year of the second millenium it is an opportunity to summarize the most up-to-date methods in data analysis and to look forward into the next century. All aspects of data analysis will be considered, ranging from applied aspects to fundamental questions on the description and analysis of real data. Further details are given in the second information. There will be a social program with possibilities for excursions.
Invited Speakers: R. E. Barlow (Berkeley), S. Bodjanova (Austin), R. Dutter (Wien), L. Fahrmeir (München), K. Felsenstein (Wein), M. S. Nikulin (Bordeaux), H.-J. Zimmermann (Aachen).
Topics: All aspects of data sciences are considered, ranging from the description of real data to different methods of data analysis. These include: analysis of fuzzy data; applied data analysis; Bayesian data analysis; computerized data analysis; data and networks; data description; data encryption; data mining; data security; descriptive data analysis; exploratory data analysis; fuzzy data analysis; graphical data analysis; statistical data analysis.
Call for Papers: Authors are invited to submit a paper in the field of data analysis. Practical applications of data analysis techniques to real data are welcome. Proposals for papers by a one-page abstract.
Fee: Participants: ATS 3,700; accompanying persons: ATS 1,700; students: ATS 1,100.
Information: R. Viertl, Institut f. Statistik, Technische Universität Wien, Wiedner Hauptstr. 8/107, A-1040 Wien, Austria; e-mail: viertl@tuwien.ac.at; http://www.statistik.tuwien.ac.at/ida2000/.

18–23 **International Congress on Differential Geometry, in Memory of Alfred Gray (1939–1998)**, Bilbao, Spain. (Sept. 1999, p. 982)
Main Speakers: Th. Banchoff (USA), R. Bryant (USA), H. Ferguson (USA), T. Friedrich (Germany), S. Gindikin (USA), K. Grove (USA), A. Huckleberry (Germany), M. Mezzino (USA), V. Miquel (Spain), E. Musso (Italy), M. Pinsky (USA), A. Ros (Spain), S. Salamon (England), D. Sullivan (USA), I. Taimanov (Russia), J. Wolf (USA).
Program: Plenary lectures, video conference, oral communications, poster session, round-table discussion "Where does the geometry go? A research and educational perspective". Call for papers: For submission of abstracts we have decided to use facilities of Atlas Mathematical Conference Abstracts. If you wish to present an oral communication or a poster, please submit before May 31, 2000, an extended (up to two pages) abstract (either plain ASCII or TeX) via http://at.yorku.ca/cgi-bin/amca/submit/cadq-01/. If the Organizing Committee accepts your communication or your poster, your abstract will become available to everyone via http://at.yorku.ca/cgi-bin/amca/cadq-01/.
Information: http://www.ehu.es/Gray/; e-mail: gray@lg.ehu.es.

19–22 **SCAN 2000: 9th GAMM - IMACS International Symposium on Scientific Computing, Computer Arithmetic, and Validated Numerics**, University of Karlsruhe, Karlsruhe, Germany. (Nov. 1999, p. 1288)
Focus: This conference continues the series of scan-symposia which have previously been held at Karlsruhe, Basel, Albena, Oldenburg, Wien, Wuppertal, Lyon, and Budapest under the joint sponsorship of GAMM and IMACS. These conferences have traditionally covered the numerical and algorithmic aspects of scientific computing, with a strong emphasis on validation and verification of computed results as well as on arithmetic, programming, and algorithmic tools for this purpose. The objectives are to propagate current applications and research as well as to promote a greater understanding and increased awareness of the subject matters.
Important Dates: March 31, 2000: Submission of abstracts; June 30, 2000: Notification of acceptance; July 31, 2000: Return of registration form.
Conference Chairmen: W. Juling (Univ. of Karlsruhe) and U. Kulisch (Univ. of Karlsruhe).
Local Organization: A. Facius, Institute for Applied Mathematics, Univ. of Karlsruhe, D-76128 Karlsruhe, Germany.
Information: For more information and subscription to a mailing list, send e-mail to: info@scan2000.de, or visit: http://www.scan2000.de/.

19–22 **Short Course and First Fractal Geometry: Mathematical Techniques, Algorithms and Applications**, De Montfort University, Leicester, UK. (Jun./Jul. 2000, p. 701)
Information: Pamela Bye, Conference Officer, The Institute of Mathematics and Its Applications, Catherine Richards House, 16 Nelson Street, Southend-on-Sea, Essex, SS1 1EF, UK; tel: (01702) 354020; fax: (01702) 354111; e-mail: conferences@ima.org.uk; Web: http://www.ima.org.uk/.

21–24 **First SIAM Conference on Computational Science and Engineering**, Washington, DC. (Aug. 2000, p. 800)
Information: SIAM Conference Coordinator, 3600 University City Science Center, Philadelphia, PA 19104-2688; phone 215-382-9800; fax: 215-386-7999; e-mail: meetings@siam.org.

22–23 **International Colloquium on Mathematics and Art**, Maubeuge, France. (Jun./Jul. 2000, p. 701)
Aims: (1) To allow artists to present their works inspired by math and/or using math. (2) To permit mathematicians to present and to discuss some works that can inspire mathematics (tilings, all kinds of surfaces and topological objects, trajectories). (3) To debate the use of art as a tool to help the teaching of mathematics, and to compare experiences and projects.
Advisory Committee: R. Brown (Bangor), J. Bochnak (Amsterdam), C. P. Bruter (Paris 11), M. Chaves (Porto), M. Emmer (Roma 1), T. C. Kuo (Sydney), R. Palais (Brandeis), V. Poenaru (Paris 11).
Information: Contact C. P. Bruter, fax: 01 60 92 51 43, e-mail: bruter@univ-paris12.fr.

22–23 **Ordinary Differential Equations: A Meeting in Honor of Tony Zettl**, Northern Illinois University, DeKalb, Illinois. (Apr. 2000, p. 502)
Organizing Committee: N. Everitt, B. Harris, Q. Kong, D. McAlister, H. Wu, W. Blair.
Speakers: Don Hinton of the University of Tennessee, Knoxville, and Norrie Everitt of the University of Birmingham will deliver plenary addresses. There will also be approximately a dozen shorter talks.
Information: ODE Conference, Department of Mathematical Sciences, Northern Illinois University, DeKalb, IL 60115; ode@math.niu.edu; (815) 753-0567; or from the conference Web site: http://www.math.niu.edu/ZettlFest/.

22–24 **AMS Central Section Meeting**, University of Toronto, Toronto, Ontario, Canada. (Nov. 1998, p. 1378)
Information: Information will be posted on the meetings pages of e-MATH.

22–24 **Midwest Dynamical Systems Seminar 30th Anniversary Meeting**, University of Cincinnati, Cincinnati, Ohio. (Jun./Jul. 2000,

p. 702)
Program: The meeting will include talks on both current results in dynamics and on the contributions of the MWDS seminar to the development of dynamical systems in the last thirty years.
Sponsors: National Science Foundation and Charles Phelps Taft Memorial Fund.
Organizers: S. Dumas, C. McCord, P. McSwiggen, K. Meyer.
Information: http://math.uc.edu/mwds/, e-mail: chris.mccord@uc.edu.

22–27 **Geometry, Analysis and Mathematical Physics**, San Feliu de Guixols, Spain. (May 2000, p. 596)
Speakers: B. Altshuler, Princeton, USA; V. Bach, Mainz, Germany; N. Burq, Orsay, France; V. Buslaev, St. Petersburg, Russia; J. Derezinski, Warsaw, Poland; B. Eckhart, Marburg, Germany; M. Esteban, Paris, France; J. Ginibre, Orsay, France; B. Helffer, Orsay, France; V. Ivrii, Toronto, Canada; V. Jaksic, Ottawa, Canada; A. Knauf, Erlangen, Germany; A. Komech, Moscow, Russia; G. Lebeau, Palaiseau, France; C. A. Pillet, Toulon, France; I. M. Sigal, Toronto, Canada; U. Smilanski, Rehovot, Israel; J. P. Solovej, Copenhagen, Denmark; T. Tao, Los Angeles, USA; A. Vasey, Berkeley-Boston, USA; G. Velo, Bologna, Italy; G. Vodev, Nantes, France; S. Zelditch, Baltimore, USA; M. Zworski, Berkeley, USA.
Scope: The interaction between physics and mathematics has become ever more important in recent years. This meeting aims to bring together mathematicians and some physicists working in areas related to quantum physics and mathematical analysis. Lectures and discussions will focus on recent progress in nonlinear scattering theory and evolution equations, solitons, quantum many body problems, resonances (scattering poles), field theory, quantum chaos, and also some related topics such as control theory, spectral theory on manifolds, semi-classical problems. The conference is open to researchers worldwide, whether from industry or academia. Participation will be limited to 100. The emphasis will be on discussion about new developments. The conference fee covers registration, full board, and lodging. Grants will be available for younger scientists, in particular those from less-favoured regions in Europe.
Information: Deadline for applications: May 2000. For information and application forms, contact the head of the EURESCO Unit: J. Hendelkovic, European Science Foundation, 1 quai Lezay-Marnésia, 67080 Strasbourg Cedex, France; tel.+33 388 76 71 35; fax: +33 388 36 69 87; e-mail: euresco@esf.org. General information and application form also available on Web site: http://www.esf.org/euresco/.

22–27 **Number Theory and Arithmetical Geometry (Motives and Arithmetics)**, Obernai, France. (Jun./Jul. 2000, p. 702)
Organizers: U. Jannsen, chairman (Regensburg, Germany); A. J. Scholl, vice-chairman (Durham, UK); organized in association with EMS and with support from INTAS.
Speakers: (Provisional list) J. Coates (Cambridge, UK); A. Corti (Cambridge, UK); C. Deninger (Münster, Germany); A. Huber-Klawitter (Münster, Germany); J.-M. Fontaine (Orsay, France); B. Kahn (Paris, France); M. Levine (Boston, USA); Y. I. Manin (Bonn, Germany); J. S. Milne (Ann Arbor, USA); S. Saito (Tokyo, Japan); C. Soulé (Bures-sur-Yvette, France); V. Voevodsky (Princeton, USA); J.-P. Wintenberger (Strasbourg, France).
Envisaged Topics: Algebraic cycles and K-theory, categories and motives, calculations of motives, motivic cohomology, motivic Galois groups, motivic integration, links with automorphic forms, links with L-functions.
Participation: The conference is open to researchers worldwide, whether from industry or academia. Participation will be limited to 100. The emphasis will be on discussion about new developments. The conference fee covers registration, full board and lodging. Grants will be available for younger scientists, in particular those from less favoured regions in Europe. Limited funding for participants from Central and Eastern Europe is also available.
Deadline: May 2000.
Information: For information and application forms, contact the head of the EURESCO Unit: J. Hendekovic, European Science Foundation, 1 quai Lezay-Marnésia, 67080 Strasbourg Cedex, France; tel. +33 388 76 71 35; fax. +33 388 36 69 87; e-mail: euresco@esf.org. General information and application form also available on Web site: http://www.esf.org/euresco/.

22–28 **4th International Conference on Functional Analysis and Approximation Theory (4th FAAT)**, Acquafredda di Maratea, Potenza, Italy. (Apr. 2000, p. 502)
Sponsors: Center for Studies on Functional Analysis and Approximation Theory of the University of Basilicata (Potenza, Italy), Department of Mathematics of the University of Basilicata (Potenza, Italy), Department of Mathematics of the University and of the Polytechnic of Bari (Italy), University of Basilicata (Italy), University of Bari (Italy), Polytechnic of Bari (Italy), National Group of Functional Analysis and Applications (G.N.A.F.A.), Progetti di Ricerca di Interesse Nazionale: Analisi Funzionale (M.U.R.S.T.).
Organizing Committee: F. Altomare (altomare@pascal.dm.uniba.it), A. Attalienti (attalienti@matfin.uniba.it), M. Campiti (campiti@pascal.dm.uniba.it), B. Della Vecchia (dellavecchia@iamna.iam.na.cnr.it), G. Mastroianni (mastroianni@unibas.it), M. R. Occorsio (occorsio@iamna.iam.na.cnr.it).
Aim: To bring together mathematicians and specialists working in functional analysis and approximation theory in order to promote interdisciplinary collaborations and to enhance exchanges of results, techniques and applications between the above disciplines.
Main Topics: Banach spaces, Banach lattices, function spaces, (positive) linear operators, semigroups of (positive) linear operators, evolution equations, approximate quadratures and integral equations, approximation methods in abstract spaces and in function spaces, approximation by (positive) operators, interpolation, polynomial approximation, constructive approximation, orthogonal polynomials.
Confirmed Invited Speakers: P. Aiena (Palermo), H. Berens (Erlangen), P. Clément (Delft), T. Erdelyi (College Station), C. Franchetti (Firenze), G. Godefroy (Paris), D. S. Lubinsky (Johannesbourg), G. Milovanovic (Nis), G. Monegato (Torino), M. Neumann (Mississippi), P. L. Papini (Bologna), I. Rasa (Cluj-Napoca), B. Silbermann (Chemnitz), V. Totik (Szeged), P. Vertesi (Budapest), L. Weiss (Karlsruhe).
Scientific Program: Survey talks by invited speakers (45 min.) and short communications (20 min.).
Information: Contact any of the Organizing Committee or visit the Web site http://www.dm.uniba.it/maratea/FAAT2000.htm.

23–24 **Mathematical Finance Day '2000 and Practitioners' Workshop on Computational Finance**, Boston University Law Auditorium. (Aug. 2000, p. 800)
Program: Mathematical Finance Day (Sept. 24) will be preceded by a Practitioners' Workshop on Computational Finance on Sept. 23, 2000.
Speakers: For Mathematical Finance Day '2000: M. Avellaneda, J. Cvitanic, D. Kramkov, G. Papanicolaou, W. Schachermayer, N. Touzi, H. Wang; For the Practitioners' Workshop on Computational Finance: A. Lewis, R. R. Reitano.
Information: Boston University Law Auditorium is located at 765 Commonwealth Avenue, Boston, MA 02215. For further information see the Web site http://www.bu.edu/mfd/.

24–27 **DIMACS Workshop on Sublinear Algorithms**, Nassau Inn, Princeton, New Jersey. (Aug. 2000, p. 800)
Sponsor: Dimacs Center.
Organizers: S. Goldwasser, MIT; P. Raghavan, Verity; R. Rubinfeld, NEC Research Institute; M. Strauss, AT&T Labs - Research.
Short Description: Recent advances in computing power and the trend toward interconnecting computers has resulted in an increase in the size of data sets that are considered useful; therefore, this demands that we revisit traditional notions of efficient algorithms. This workshop will bring together researchers from several communities, including: combinatorial property testing, streaming algorithms, randomized algorithms and learning theory.

By bringing researchers together that have had experience with massive data sets that occur in diverse domains such as the Web and databases, we hope to advance participants' research by establishing common issues.
Local Arrangements: S. Barbu, Princeton Univ., barbu@cs.princeton.edu, 609-609-1771.
Information: M. Strauss, AT&T Labs-Research, mstrauss@research.att.com; or http://dimacs.rutgers.edu/Workshops/index.html.

25–27 **Third International Workshop on Automated Deduction in Geometry**, ETH, Zurich, Switzerland. (Feb. 2000, p. 285)
Description: The International Workshops on Automated Deduction in Geometry (ADG) have become a forum to exchange ideas and views, to present research results and progress, and to demonstrate software tools. Applications of ADG to CAGD/CAD, computer vision, and geometry education presented at the previous two workshops held in Beijing, August 1998, and Toulouse, September 1996, shed new light on the perspectives of ADG. The third workshop, ADG 2000, to be held in Zurich, Switzerland, September 25–27, 2000, will continue ADG's emphasis on theory and algorithms, implementation, experiments, and applications to science, engineering, and industry.
Invited Speakers: J. Bokowski (TU Darmstadt, Germany), C. M. Hoffmann (Purdue Univ.).
Open Session Speaker: W.-t. Wu (Academia Sinica, China).
Important Dates: Deadline for extended abstract submission: June 20, 2000; notification of acceptance or rejection: July 20, 2000; workshop taking place: September 25–27, 2000; deadline for full paper submission: November 20, 2000.
Submission: Potential participants of ADG 2000 are invited to submit an extended abstract of three or more pages or a full paper describing their work to be presented at ADG 2000. The submitted extended abstracts and full papers will be reviewed by members of the program committee (PC) for presentation at the workshop. Electronic submissions are preferred and should be sent to both of the PC co-chairs: J. Richter-Gebert, Theoretische Informatik, ETH Zentrum, Haldeneggsteig 4/ Weinbergstrasse, CH-8092 Zurich, Switzerland (e-mail: richter@inf.ethz.ch, fax: +41 1 632 1172); D. Wang, Laboratoire d'Informatique de Paris 6, Université Pierre et Marie Curie - CNRS, 4, place Jussieu, F-75252 Paris Cedex 05, France (e-mail: wang@calfor.lip6.fr, fax: +33 1 44 27 40 42).
Information: http://calfor.lip6.fr/~wang/ADG2000/.

26–30 **XI Biannual Conference of ECMI - The European Consortium for Mathematics for Industry**, Villaggio Torre Normanna, Altavilla Milicia Palermo, Italy. (May 2000, p. 596)
Organizing Committee: A. M. Anile (Univ. of Catania and ECMI Council); V. Capasso (president of ECMI, 1999–2001), co-chairman; A. Donato (Univ. of Messina); A. Fasano (Univ. of Florence); A. Greco (Univ. of Palermo), chairman; R. M. Mattheij (past president of ECMI, 1999–2001).
Information: Please visit the Web site http://www.itdf.pa.cnr.it/ecmi2k/ or http://www.ecmi.dk/. For additional information or to submit contributed talks or minisymposia, please contact the conference organizers at ecmi2k@pia.itdf.pa.cnr.it.

27–October 3 **Mogran 2000: Modern Group Analysis for the New Millennium**, Ufa State Aviation Technical University, Ufa, Russia. (Jun./Jul. 2000, p. 702)
Main Topics: Classical symmetries, invariant solutions and group classification; Equivalence transformations and their invariants; New trends in group analysis; Boundary value problems; Fluid mechanics and industrial modelling.
Scientific Committee: N. H. Ibragimov (South Africa), chairman; V. A. Baikov (Russia), Y. Choquet-Bruchat (France), V. A. Dorodnitsyn (Russia), R. K. Gazizov (Russia), S. V. Khabirov (Russia), F. M. Mahomed (South Africa), S. V. Meleshko (Thailand), R. I. Nigmatulin (Russia), L. V. Ovsyannikov (Russia), A. Qadir (Pakistan), M. Torrisi (Italy).
Organizing Committee: S. T. Kusimov, chairman; I. Sh. Akhatov; V. A. Baikov; R. K. Gazizov; N. H. Ibragimov; B. G. Il'yasov; V. F. Kovalev; V. V. Napalkov; V. S. Zhernakov; A. V. Gladkov, secretary.
Information and Registration: The registration fee is U.S. $200 (and for accompanying person(s) an extra $50 per person). It can be paid by a banker's draft to the account of Sotsinvestbank, ul. Tsurupa 5, 450002 Ufa, Russia; Swift – CSIBRU4U, TLX – 162119, AVIS RU, CHIPS – 321986, with Chase Manhattan Bank, New York, USA, in favour of Ufa State Aviation Technical University with the remark "The registration fee of (surname) for MOGRAN 2000". The registration fee should be paid no later than July 5; otherwise it will be increased to $250. Conference address: R. K. Gazizov, Dept. of Mathematics, Ufa State Aviation Technical University, 12 K. Marx Str., Ufa 450000, Russia; fax: (+7) (3472) 222 918; phone: (+7) (3472) 237 735; e-mail: mogran2000@math.ugatu.ac.ru.

29–30 **International Colloquium on the Applications of Mathematics, in Memory of Lothar Collatz**, University of Hamburg, Hamburg, Germany. (Jun./Jul. 2000, p. 702)
Aim: The colloquium is part of a series of colloquia held to honor the memory of Lothar Collatz. For the sixth time the Department of Mathematics (formerly the Institute for Applied Mathematics) is carrying out an International Colloquium on the Applications of Mathematics. The conference language is English.
Organizers: G. Opfer (Chair), I. Gasser, U. Grothkopf, H. J. Oberle, K. Taubert.
Speakers: P. E. Gill (San Diego), H. J. Pesch (Bayreuth), U. van Rienen (Rostock), T. Sonar (Braunschweig), H. Troger (Wien), H. Yserentant (Tübingen).
Deadlines: September 1, 2000, for registration.
Information: gasser@math.uni-hamburg.de.

29–30 **"Mathematical Pictures That Are Worth a Thousand Words", The Twenty-eighth Annual Mathematics and Statistics Conference at Miami University**, Miami University, Oxford, Ohio. (Jun./Jul. 2000, p. 702)
Principal Speakers: G. Francis, Univ. of Illinois; S. Wagon, Macalester College; R. Nelsen, Lewis and Clark College.
Call for Papers: Contributed paper sessions are being planned for both Friday and Saturday, and a poster gallery is contemplated. Authors wishing to contribute a poster and/or a 10- or 20-minute paper consistent with the theme of the conference should submit an abstract by September 1, 2000. Authors are encouraged to submit a mathematical picture (together with the title of the paper or poster) in lieu of a traditional abstract. Conference Directors: T. Farmer (farmerta@muohio.edu) and F. Gass (gassfs@muohio.edu). Send abstract or request for information to: R. Nichols, Dept. of Mathematics and Statistics, Miami University, Oxford, OH 45056; tel: (513) 529-1952; e-mail: nicholrw@muohio.edu; fax: (513) 529-1493.
Information: Conference programs with information concerning preregistration and housing will be available after August 1, 2000. Also see our Web site, http://www.muohio.edu/mathstat/conf.html.

29–October 2 **IX Oporto Meeting on Geometry, Topology, and Physics**, Universidade do Porto, Portugal. (Aug. 2000, P. 800)
Description: The aim of the Oporto meetings is to bring together mathematicians and physicists interested in the interrelation between geometry, topology, and physics and to provide them with a pleasant and informal environment for scientific interchange. The meeting will consist largely of short courses of approximately three lectures each given by the main speakers, supplemented by a limited number of seminars. 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 Speakers: M. A. Akivis, V. V. Goldberg, J. Landsberg, D. Salamon, S. Salamon, R. W. Sharpe. (Professors Akivis and Goldberg will be giving a joint course of four lectures in total.)
Information and Registration: See the Conference Web page http://fisica.ist.utl.pt/~jmourao/om/omix/om00b.html. Deadline for registration: July 30, 2000.

October 2000

* 2–6 **International Conference on Number Theory and Discrete Mathematics in Honour of Srinivasa Ramanujan**, Panjab University, Chandigarth, India.
Location: Centre for Advanced Study in Mathematics, Panjab Univ., Chandigarth 160014, India.
Description: This conference is being organized to mark the International Year of Mathematics in honour of Srinivasa Ramanujan, the greatest Indian number theorist of the twentieth century. There will be several lectures by experts and contributed talks. The proceedings of the conference will be published.
Registration Fee: US$200.
Information: Contact A. K. Agarwal at the address above, or by e-mail at aka@panjabuniv.chd.nic.in.

3–5 **International Symposium on Applications of Computer Algebra (ISACA 2000)**, Goa, India. (Jun./Jul. 2000, p. 702)
Sponsor: The conference is endorsed as one of the 2000 activities of the Technomathematics Research Foundation, Kolhapur (TMRF), India.
Main Topics: Algebraic methods relevant to all domains concerned with computer, intelligent systems, and communications. The scope includes, but is not limited to, robotics, VLSI technology, signal processing, coding, term specification, theorem proving, symbolic software, knowledge engineering, logic, functional languages, and artificial intelligence methodologies.
Invited Speakers: J. Calmet (Karlsruhe, Germany): (1) Integration of deduction and computation, (2) On the specification of computer algebra systems; K. Geddes (Waterloo, Canada): (1) Algorithms for indefinite and definite integration in Maple, (2) Hybrid symbolic-numeric methods applied to definite integrals and ODEs; G. Chaitin (IBM, USA): (1) Using Mathematica to exhibit randomness in arithmetic, (2) How to run algorithmic information theory on the computer.
Important Dates: Deadline for registration: 30 July 2000; Deadline for paper submission: 15 June 2000; Notification of acceptance: 15 July 2000; Camera-ready copy due: 30 July 2000.
Contact Address: ISACA 2000 (R. A. Akerkar); c/o TMRF, 204/17, New Shahupuri, Kolhapur 416001, India; tel: 0091-231-654522; e-mail: tmrf@pn3.vsnl.net.in.
Information: For more information please visit us at http://tmrf.homepage.com/isaca.html.

3–8 **Swedish-Russian Conference on Combinatorics and Dynamics**, Royal Institute of Technology (KTH), Stockholm, Sweden. (Aug. 2000, p. 800)
Main Speakers: D. Anosov (Steklov Institute, Moscow) (to be confirmed), O. Häggström (Chalmers and Göteborg Univ.), S. Janson (Uppsala Univ.), K. Johansson (KTH, Stockholm), V. Kaimanovich (CNRS, France), S. Kerov (Steklov Institute, St.-Petersburg), A. Vershik (Steklov Institute, St.-Petersburg).
Focus: The conference is aimed mainly at young mathematicians from Sweden and Russia, but participants from other countries are also welcome. The emphasis will be on the interaction of combinatorics and dynamics and their relation to probability and mathematical physics. The lectures given by the main speakers will be complemented with shorter talks by younger participants and an open problems session.
Information: Further information can be found on the conference WWW page: http://www.math.kth.se/~stas/sto2000/. For questions about attendance and financial support (provided by the NFR), please contact the organizers: T. Smirnova-Nagnibeda, KTH, e-mail: tatiana@math.kth.se; S. Smirnov, KTH, e-mail: stas@math.kth.se, fax: 46-8-7231788.

7–9 **Midwest Several Complex Variables Meeting**, Purdue University, West Lafayette, Indiana. (Aug. 2000, p. 800)
Preliminary List of Speakers: S. Baouendi (Univ. of California, San Diego), J. Duval (Univ. Paul Sabatier, Toulouse), J. E. Fornaess (Univ. Michigan, Ann Arbor), B. Hall (Notre Dame Univ.), T. Ohsawa (Nagoya Univ.), Y. T. Siu (Harvard Univ.)
Organizers: L. Lempert, S. Kee Yeung.
Information: The meeting is partially supported by the Institute for Mathematics and its Applications and by Purdue University. There is no registration fee, and there will be money to support graduate students/junior researchers. For information, e-mail: lempert@math.purdue.edu.

7–10 **International Conference on the Mathematical Modeling and Computational Experiments (ICMMCE)**, Dushanbe, Tajikistan. (Jan. 2000, p. 82)
Organizers: Tajik State National University, Tajik Academy of Sciences, Council Young Scientists of Tajikistan, Tajik Military Strategic Centre.
Conference Themes: Modeling (nonlinear, ecological, economical, physical, social and other processes); Computing systems and technology; Information security and business.
Information: Rudaki str.17, Dushanbe, 734025, Tajikistan, e-mail: admin@tajsnu.td.silk.org, tgnu@tajnet.com; http://www.tajnet.com/, tel. (7-377-2) 214209, 212043, or 217711.

8–13 **IEEE Visualization 2000**, Salt Lake City, Utah. (Jun./Jul. 2000, p. 703)
Description: Visualization is a vital research and applications frontier shared by a variety of scientific, medical, engineering, business, and entertainment fields. IEEE Visualization 2000 focuses on interdisciplinary methods and collaboration among developers and users of visualization methods across all of science, engineering, medicine, and commerce. Sunday through Tuesday of conference week will include tutorials, symposia, and miniworkshops. Papers, panels, case studies, and works in progress will be presented Wednesday through Friday. You are invited to participate in IEEE Visualization 2000 by submitting your original research through papers, panels, case studies, work in progress, and demonstrations. Share your perspectives through panels and workshops or your experience through tutorials. Please select the forum appropriate to your submission, where it will be considered by your peers for presentation. Particular focus on volume visualization and information visualization are addressed in special two-day symposia.
Sponsors: IEEE Computer Society Technical Committee on Visualization and Graphics in cooperation with ACM/SIGGRAPH.
Information: For further information on the conference or symposia contact: C. Hansen, conference co-chair, Univ. of Utah, 801-581-3154, fax: 801- 581-5843, hansen@cs.utah.edu; C. Johnson, conference co-chair, Univ. of Utah, 801-581-7705, fax: 801-585-6513, crj@cs.utah.edu; or S. Bryson, conference co-chair, NASA Ames Research Center, 650-604-4524, fax: 650-604-3957, bryson@nas.nasa.gov. See the conference Web page for complete up-to-date information at http://www.erc.msstate.edu/vis2000/.

* 9–13 **Wei-Liang Chow and Kuo-Tsai Chen Memorial Conference**, Nankai Institute of Mathematics, Tianjin, China.
Program: This will be an informal conference with developments related to and arising from the works of W.-L. Chow and K.-T. Chen, i.e., algebraic geometry, exterior differential calculus, and de Rham homotopy theory as the main topics. The scope will be unrestricted.
Organizer: S. S. Chern
Organizing Committee: Z.-J. Chen (The East China Normal Univ.), R. Hain (Duke Univ.), S. Hu (World Scientific Publishing Company), X.-S. Lin (UC Riverside), S.-L. Tan (Bar-llan Univ.), X. Zhou (Nankai Inst. of Mathematics).
Confirmed participants: D. Bar-Natan, F. Catanese, P. Griffiths, R. Hain, B. Harris, S. Iitaka, Y. Kawamata, T. Kohno, D. Kreimer, T.T.Q. Le, X.-S. Lin, N. Mok, M. Miyanishi, Y. Miyaoka, Y. Namikawa, T. Shioda, J. Stasheff, M. Teicher, G. Tian.
Information: X. Zhou, Nankai Institute of Mathematics, Tianjin 300071, P.R. China; fax: 86-22-2350-1532; e-mail: xwzhou@nankai.edu.cn.

11–14 **IMA Mini-Symposium: Brain Imaging**, IMA, University of Minnesota, Minneapolis, Minnesota. (Mar. 2000, p. 398)

Organizers: G. Sapiro, D. Kersten, G. Legge, S. He, X. Hu, K. Ugurbil (Univ. of Minnesota).
Information: Institute for Mathematics and its Applications, University of Minnesota, 207 Church St. SE, 400 Lind Hall, Minneapolis, MN 55455; phone: 612-624-6066; e-mail: staff@ima.umn.edu; or Web page: http://ima.umn.edu/multimedia/fall/ms1.html/.

12–14 **SIAM Northwest Regional Mathematics in Industry Workshop**, University of Washington, Seattle, Washington. (Aug. 2000, p. 800)
Organizer: A. Greenbaum, Univ. of Washington.
Information: SIAM Conference Coordinator, 3600 University City Science Center, Philadelphia, PA 19104-2688; phone: 215-382-9800; fax: 215-386-7999; e-mail: meetings@siam.org.

13–14 **Midwest History of Mathematics Conference**, Northern Kentucky University, Highland Heights, Kentucky. (Jun./Jul. 2000, p. 703)
Information and Call for Papers: Kim Plofker of Brown University, an expert in the mathematics and astronomy of ancient and medieval India, will give the keynote address. The conference will be hosted by Northern Kentucky University at a site convenient to the Greater Cincinnati Airport. Twenty-minute contributed talks on any topic in the history of mathematics are being solicited, with the possibility that the resulting papers will be published in a conference proceedings volume. Titles and abstracts, along with the speaker's name address, affiliation, and e-mail address, should be submitted for consideration by July 14, 2000, to: D. J. Curtin, Dept. of Math. and Comp. Sci., Northern Kentucky Univ., Highland Heights, KY 41099; curtin@nku.edu.

16–20 **IMA Workshop 2: Image Processing and Low Level Vision**, IMA, University of Minnesota, Minneapolis, Minnesota. (Mar. 2000, p. 398)
Organizers: A. Tannenbaum (Univ. of Minnesota), P. Olver (Univ. of Minnesota), D. McClure (Brown Univ.), P. Perone (Caltech).
Information: Institute for Mathematics and its Applications, University of Minnesota, 207 Church St. SE, 400 Lind Hall, Minneapolis, MN 55455; phone: 612-624-6066; e-mail: staff@ima.umn.edu; or Web page: http://ima.umn.edu/multimedia/fall/m2.html/.

19 **Fargo Preconference Workshop on BVPs and Oscillation Theory for Differential Equations on Measure Chains**, North Dakota State University, Fargo, North Dakota. (May 2000, p. 596)
Speakers: S. Hilger, Catholic Univ. of Eichstaett; M. Bohner, Missouri-Rolla; L. Erbe, Nebraska-Lincoln; J. Henderson, Auburn; A. Peterson, Nebraska-Lincoln.
Organizer: R. Mathsen.
Information: Check the Web page http://hypatia.math.ndsu.NoDak.edu/faculty/mathsen/workshop.html for deadline and other details.

19 **MathML and Math on the Web**, University of Illinois at Urbana-Champaign, Urbana, Illinois. (Jun./Jul. 2000, p. 703)
Description: Hands-on tutorial session preceding conference. See http://www.mathm/conference.org/.

19–21 **Midwest Differential Equation Conference on Differential and Difference Equations**, Concordia College, Moorhead, Minnesota (Mar. 2000, p. 398)
Plenary Speakers: M. Bohner (Missouri-Rolla), L. Erbe (Nebraska-Lincoln), J. Henderson (Auburn), S. Hilger (Catholic Univ. of Eichstaett, Germany), J. Muldowney (Alberta), G. Sell (Minnesota).
Deadlines: Deadlines for contributed paper abstracts and other conference information may be found on the conference Web site, http://www.cord.edu/faculty/andersod/midwestde.htm.

20–21 **20th Annual Southeastern-Atlantic Regional Conference on Differential Equations**, Virginia Tech, Blacksburg, Virginia. (Aug. 2000, p. 800)
Forum: The conference is an annual meeting which was envisioned by members of the Department of Mathematics at Virginia Tech and which began in 1981. Since then its location has rotated among the institutions in the Southeastern-Atlantic region.
Scope: The primary purpose of the conference is to provide an exchange of ideas and discussions about research and education among established and new researchers and advanced graduate students in the field of differential equations, i.e., ordinary and partial differential equations and functional differential equations, and numerical techniques and their applications to biology, engineering, and physics.
Topics: The conference will consist of a series of three plenary one-hour lectures and sessions for contributed papers. Topics presented during these conferences have been diverse and have included ordinary and partial differential equations, integral and functional equations, numerical methods, and applications to the sciences and engineering.
Invited Speakers: J. Bona (Univ. of Texas, Austin), E. Carlen (Georgia Tech), J. Glimm (SUNY at Stony Brook).
Contributed Talks: There will be sessions of contributed talks. Deadline for submission of abstracts for contributed talks is September 29, 2000.
Financial Assistance: Contingent on NSF funding, some financial assistance may be available to offset travel and housing expenses for graduate students and recent Ph.D. recipients. Requests postmarked by September 18, 2000, are guaranteed consideration. Eligible persons who belong to currently underrepresented groups are especially encouraged to apply to the conference for financial assistance.
Information: Updated information can be obtained at the conference Web site: http://www.icam.vt.edu/SEARCDE_2000/ or by contacting: J. Borggaard, SEARCDE Coordinator, Dept. of Mathematics, Virginia Tech, Blacksburg, VA 24060; phone 540-231-3453; fax 540-231-7079; e-mail: jborggaard@vt.edu.

20–21 [Tutorial session October 19] **MathML and Math on the Web**, University of Illinois at Urbana-Champaign, Urbana, Illinois. (Jun./Jul. 2000, p. 703)
Description: The conference will present current research and applications involving MathML, an XML application for describing mathematical notation and capturing both its structure and its content. The primary goal of MathML is to enable mathematics to be served, received, and processed on the World Wide Web, just as HTML has enabled this functionality for text. On the afternoon of October 19 a hands-on tutorial session is being offered.
Submission of Abstracts: Authors are requested to submit abstracts of their proposed talks by e-mail to submissions@mathmlconference.org. The deadline for submission of abstracts is June 2, 2000. Notification of acceptances will be sent out by June 23, 2000.
Sponsors: "MathML and Math on the Web" is being sponsored by Wolfram Research, IBM, the American Mathematical Society (AMS), Waterloo Maple, and the World Wide Web Consortium (W3C).
Information: Additional conference details and submission guidelines are available at http://www.mathmlconference.org/.

*20–21 **Twenty-second Midwest Probability Colloquium**, Northwestern University, Evanston, Illinois.
Program: R. Bass (Univ. of Connecticut), Brownian motion and analysis (two lectures); M. Peligrad (Univ. of Cincinnati), Ergodic theory, CLT and mixing properties (one lecture); T. Sappalainen (Iowa State Univ.), The variational coupling method for hydrodynamical limits (one lecture). On Thursday, October 19, there will be a series of two talks by J. Ma of Purdue University on the topic of "Forward/backward stochastic differential equations".
Accommodations: A block of rooms has been reserved at the Holiday Inn of Evanston (847-491-6400). Please mention "Midwest Probability Colloquium" when you call to reserve your room. As in the past, we expect to have NSF funds to offset the expenses of graduate students and other young investigators.
Information: Local information about Evanston and Chicago is available from the web site of the mathematics department at http://www.math.nwu.edu/. Conference organizer: M. A. Pinsky,

Dept. of Mathematics, Northwestern University, Evanston, IL 60208-2730; tel: 847-491-5519; fax: 847-491-8906.

20–22 **KMS International Conference 2000: Mathematics in the New Millennium**, Yonsei University, Seoul, Korea. (Jun./Jul. 2000, p. 703)
Focus: This conference will be held in conjunction with the 2000 annual meeting of the Korean Mathematical Society. The aim of this conference is to celebrate the World Mathematical Year 2000 and to discuss the perspectives of mathematics in the new millennium.
Program: This conference will consist of five special sessions: Algebra, Analysis, Topology and Geometry, Probability Theory and Statistics, Applied Mathematics and Computational Mathematics.
Principal Invited Speakers: J. -L. Chabert (Univ. of Picardie, France), D. Christodoulou (Princeton Univ.), J. Douglas Jr. (Purdue Univ.), C. Gordon (Dartmouth College), C. C. Heyde (Columbia Univ.), P. Igodt (Katholieke Univ. Leuven-Kortrijk, Belgium), A. Kono (Kyoto Univ., Japan), K. B. Lee (Univ. of Oklahoma), A. V. Melnikov (V. A. Steklov Inst. of Math., Russia), R. Nedela (Matej Bel Univ., Slovakia), G. Pisier (Texas A&M Univ. and Univ. Paris IV, France), C. E. Praeger (Univ. of Western Australia), J. -Y. Shao (Tongji Univ., P. R. China), T. Takine (Kyoto Univ., Japan), M. L. Teply (Univ. of Wisconsin, Milwaukee), G. Uhlmann (Univ. of Washington).
Contributed Talks: There will be opportunities for contributed talks of 15–20 minutes in the five special sessions listed above. Those participants wishing to give talks should submit by e-mail extended abstracts of 1–2 pages written in TeX to Prof. D. M. Chung, kms@kms.or.kr, by June 1, 2000. Notification of acceptance will be given by June 20, 2000.
Contact: D. M. Chung, kms@kms.or.kr.
Information: http://www.kms.or.kr/.

20–22 **One Hundred Years of *L'Enseignement Mathématique*: Moments of Mathematics Education in the 20th Century**, Geneva, Switzerland. (Jun./Jul. 2000, p. 703)
Organizers: Organized jointly by ICMI and the University of Geneva as a contribution to the celebration of the World Mathematical Year 2000, this symposium will take place in Geneva, the home of the journal since its birth.
Program: On the occasion of the centennial of the journal, it was felt appropriate to hold a symposium with the aims of looking at the evolution of mathematics education over the last century and identifying some guidelines and trends for the future, taking into account, among other sources, the documents, debates, and related papers that have appeared in *L'Enseignement Mathématique*. The program of the symposium is based on a series of invited talks. Among the themes are: issues in mathematics education at the time the journal was born; evolutions and permanences in the needs, practices, and issues in the teaching of geometry, analysis, and applications of mathematics over the last century; stakes in mathematics education yesterday, today, and tomorrow. Ample time will be devoted during the symposium to collective discussions on the themes presented in the talks. More information about the program can be obtained on the ICMI Web site, http://elib.zib.de/IMU/ICMI/.
Program Committee: D. Coray (Switzerland), F. Furinghetti (Italy), H. Gispert (France), B. R. Hodgson (Canada), and G. Schubring (Germany).
Information: The philosophy of discussions and personal exchanges underlying this symposium imposes a limitation on the number of participants. People interested in the symposium are thus requested to contact the local organizing committee at the address below as soon as possible, **preferably prior to July 15**. There will be no registration fee, but very little financial support is available. Hence foreign particpants are expected to cover their travel and local expenses by themselves or through their home institutions. Information about local facilities (hotels, etc.) can be obtained from the local organizing committee. Contact: Local Organizing Committee, Symposium EM-ICMI, Case postale 240, CH-1211 Genève 24, Suisse; e-mail: EM-ICMI EnsMath@math.unige.ch.

* 20–23 **Singularities in Classical, Quantum and Magnetic Fluids**, Mathematics Institute, University of Warwick, UK.
Aim: The main aim is to initiate an exchange of ideas and methods of studying singularities among researchers working in different fields, such as classical Navier-Stokes and Euler fluids, superfluids, magnetohydrodynamics, and fluid-like nonlinear properties of optical media. This meeting will also review known singularities in fluid systems and examine the current status of existing open questions. The conference is a satellite workshop of a program on "Geometry and Topology of Fluid Flows" organized at the Isaac Newton Institute for Mathematical Sciences (Cambridge).
Organizers: R.S. Mackay, X. He, and S. Nazarenko (Warwick); R. Pelz (Rutgers Univ.).
Information: http://www.maths.warwick.ac.uk/research/programmes/current/. Alternatively, information can be obtained from P. McAllister (peta@maths.warwick.ac.uk).

22 **Computational Information Retrieval Workshop**, North Carolina State University, Raleigh, North Carolina. (Aug. 2000, p. 801)
Organizer: M. W. Berry, Univ. of Tennesse, Knoxville.
Information: SIAM Conference Coordinator, 3600 University City Science Center, Philadelphia, PA 19104-2688; phone: 215-382-9800; fax: 215-386-7999; e-mail: meetings@siam.org.

23–25 **Third International Conference on Applied Mathematics and Engineering Sciences**, Ecole Hassania des Travaux Publics, Casablanca, Morocco. (Dec. 1999, p. 1436)
Information: http://www.cimasi.org.ma/.

23–26 **Sixth SIAM Conference on Applied Linear Algebra**, North Carolina State University, Raleigh, North Carolina. (Aug. 2000, p. 801)
Sponsor: SIAM Activity Group on Linear Algebra.
Organizers: C. Meyer and I. Ipsen, North Carolina State Univ.
Information: SIAM Conference Coordinator, 3600 University City Science Center, Philadelphia, PA 19104-2688; phone: 215-382-9800; fax: 215-386-7999; e-mail: meetings@siam.org.

23–26 **Seventh SIAM Conference on Applied Linear Algebra (LA00)**, McKimmon Conference Center, North Carolina State University, Raleigh, North Carolina. (Jun./Jul. 2000, p. 704)
Information: SIAM, Society for Industrial and Applied Mathematics, 3600 University City Science Center, Philadelphia, PA 19104; phone: 215-382-9800; fax 215-386-7999; e-mail: meetings@siam.org; Web: http://www.siam.org/meetings/.

* 23–27 **Advanced Linkage Course**, Pavia University, Pavia, Italy.
Topics: Basic overview of genetic epidemiology and evolutionary genetics; Linkage analysis of marker versus marker, and deterministic genotype-phenotype relationships with ILINK; Linkage disequilibrium between markers, and case-control studies with ILINK; Joint linkage and linkage disequilibrium analysis between markers, and between markers and traits with model-based or pseudomarker model-free methods with ILINK. Use of shell scripts and utility programs to simplify the practical application of these methods (ANALYZE, PSEUDOMARKER, DOWNFREQ, etc.).
Instructor: J. D. Terwilliger, Dept. of Psychiatry and Columbia Genome Center, Columbia Univ., New York; Dept. of NeuroScience, New York State Psychiatric Institute, New York.
Application Deadline: June 30, 2000. Participants are generally accepted on a "first-come, first-served" basis, so applications should be sent in as soon as possible.
Information: Tel. +39 382-507638, fax +39 382-507570, e-mail: silvia@fisher.unipv.it.

23–27 **Third Asian Mathematical Conference (AMC2000)**, Manila, Philippines. (Dec. 1999, p. 1436)
Information: http://www.math.cs.upd.edu.ph/AMC2000/; secretariat's e-mail: amc2k@math01.cs.upd.edu.ph.
Program: There will be 1-hour plenary lectures, 40-minute parallel invited lectures, and 20-minute short communications.

26–28 **The First Sino-Japan Optimization Meeting (SJOM2000)**, Hong Kong. (Aug. 2000, p. 801)
Information: See http://www.polyu.edu.hk/~ama/events/conference/AMA-SJOM2000/fsjom2000.htm.

27–November 1 **Yosemite Symposium on Advanced Multiscale and Multiresolution Methods**, Yosemite National Park, California. (Aug. 2000, p. 801)
Sponsors: NSF, NASA, IBM, and SGI.
Topic: Many computationally challenging problems ubiquitous in science and engineering exhibit multiscale phenomena so that the prospect of numerically computing or even representing all scales of action is either very expensive or completely intractable. The Yosemite symposium is devoted to these problems with a focus on exciting new developments in this area.
Program: The three-day event will consist of several in-depth invited lectures from leading specialists, a small number of tutorial lectures, and contributed talks chosen from abstract submission.
Information: Complete instructions for abstract submission and student registration/travel support can be found at the Web site http://raphael.mit.edu/yosemite/. Or contact P. M. Lee, MIT 33-305, 77 Massachusetts Ave., Cambridge, MA 02139; pmlee@mit.edu.

30–November 2 **International Conference Dedicated to M. A. Lavrentyev on the Occasion of His Birthday Centenary**, Kiev, Ukraine. (Jun./Jul. 2000, p. 704)
Description: The Ukrainian Mathematical Society and the Institute of Mathematics of NASU will organize the international conference dedicated to the outstanding mathematician and mechanician, academician Mikhail Alekseyevich Lavrentyev (1900–1980) on the occasion of his birthday centenary. The program of the conference will consist of invited plenary lectures and section talks, short communications, and poster sessions. Main topics of the conference will be concentrated around scientific traditions of M. A. Lavrentyev, including complex analysis, geometric and constructive function theory, quasiconformal mappings, potential theory and partial differential equations, theoretic and applied mechanics, and related fields of science.
Deadlines: The completed registration form containing the title of the communication should be submitted to the e-address lavrconf@imath.kiev.ua by March 30, 2000. The 1-page abstract in LaTeX must be submitted by May 15, 2000, to the same e-address.
Information: http://www.imath.kiev.ua/lavrconf.htm and in the Second Announcement in April.

30–November 3 **Clifford Analysis and Its Applications**, Conference Center of Charles University, Praha, Czech Republic. (Apr. 2000, p. 502)
Organizing Committee: F. Brackx (Ghent), T. Branson (Iowa), J. Gilbert (Austin), V. Soucek (Praha).
Topics: Function theory for Dirac operators, conformally invariant operators, harmonic analysis and singular integral operators, representation theoretical aspects, applications in mathematical physics, applications in numerical analysis.
Information: http://www.karlin.mff.cuni.cz/~clifford/.

30–November 3 **IMA Workshop 3: Mathematical Foundations of Natural Language Modeling**, IMA, University of Minnesota, Minneapolis, Minnesota. (Mar. 2000, p. 398)
Organizers: R. Rosenfeld (Carnegie Mellon Univ.), S. Khudanpur (Johns Hopkins Univ.), M. Johnson (Brown Univ.), F. Jelinek (Johns Hopkins Univ).
Information: Institute for Mathematics and its Applications, University of Minnesota, 207 Church St. SE, 400 Lind Hall, Minneapolis, MN 55455; phone: 612-624-6066; e-mail: staff@ima.umn.edu; or Web page: http://ima.umn.edu/multimedia/fall/m3.html.

30–November 4 **Evolution Equations 2000: Applications to Physics, Industry, Life Sciences and Economics**, Levico Terme (Trento), Italy. (Jun./Jul. 2000, p. 704)
Scope: This conference is the seventh of a series devoted to evolution equations. The purpose is to bring together experts in the field of evolution equations in order to discuss the state of the art of the theory and the specific applications to different classes of problems arising from applications.
Topics: Topics range from functional analytic methods for partial differential equations to specific problems arising in the applications, with particular emphasis on: nonlinear evolution equations, semigroup methods and partial differential equations, stochastic evolution equations, applications to mathematical physics and industry, applications to mathematical biology. The conference will be mainly organized in morning and afternoon sessions, but a poster session and opportunity for workshops will also be provided.
Lecturers: S. Albeverio, H. Amann, S. Anita, J. Antoniou, W. Arendt, J. P. Aubin, A. V. Balakrishnan, V. Barbu, P. W. Bates, C. Batty, Ph. Benilan, P. Cannarsa, J. Van Casteren, Ph. Clement, T. Coulhon, M. Crandall, G. Da Prato, M. Demuth, O. Diekmann, G. Dore, J. Escher, A. Favini, G. Goldstein, J. Goldstein, M. Gyllenberg, K. Hadeler, M. Iannelli, K. Kunish, M. Langlais, A. Lasota, Y. Latushkin, S. O. Londen, G. Lumer, V. P. Maslov, J. Milota, E. Mitidieri, R. Nagel, J. van Neerven, F. Neubrander, E. Obrecht, S. Oharu, B. de Pagter, I. Prigogine, J. Pruss, A. Pugliese, S. Romanelli, M. Rockner, W. Schappacher, B. W. Shultze, G. Simonett, J. Sprekels, Th. Sturm, K. Taira, L. Tubaro, A. Valli, V. Vespri, G. Webb, L. Weis, A. Visintin, Y. Zabczyk.
Sponsors: C.I.R.M. (Centro Internazionale per la Ricerca Matematica, Trento, Italy), I.N.D.A.M. (Istituto Nazionale di Alta Matematica, Roma, Italy), Mathematics Department of the University of Trento. The organizers have applied to the European Union for a contribution that will specifically support the participation of a number of highly promising young researchers.
Information: For further information and applications please contact: A. Micheletti, Secretary of CIRM, Centro Internazionale per la Ricerca Matematica, Istituto Trentino di Cultura, 38050 Povo (Trento); tel. +39-0461-881628; telefax +39-0461-810629; e-mail: michelet@science.unitn.it. Updates of this information will be available on the CIRM Web site, http://alpha.science.unitn.it/cirm/.

November 2000

1–3 **Workshop on Differential Algebra and Related Topics**, Rutgers University, Newark, New Jersey. (Apr. 2000, p. 503)
Organizers: P. Cassidy (Smith College, emerita), L. Guo (Rutgers Univ., Newark), W. Keigher (Rutgers Univ., Newark), and W. Sit (CUNY).
Purpose: This international workshop will bring together experts from different areas related to differential algebra to give expository talks on their fields. The purpose of this workshop is to disseminate the methods and results of differential algebra to other areas, to encourage potential collaborations, and to attract graduate students and new researchers. In order to bring the participants further up to date on the most current research, there will be a Special Session on the same subject at the AMS meeting at Columbia University immediately following this workshop.
Topics: History of differential algebra, differential Galois theory, differential algebraic geometry, differential algebraic groups, computational differential algebra, applications to arithmetic geometry, applications to control theory, difference algebra, and Baxter algebra.
Speakers: M. Bronstein (INRIA, France), P. Cassidy (Smith College, emerita), R. Churchill (Hunter College (CUNY)), M. Fliess (École Polytechnique, France), H. Gillet (Univ. of Illinois, Chicago), J. Kovacic (Prolifics, Inc.), A. Magid (Univ. of Oklahoma), S. Morrison (Bucknell Univ.), M. Singer (North Carolina State Univ.), W. Sit (CUNY), B. Sturmfels (Univ. of California, Berkeley), and M. van der Put (Univ. of Groningen, The Netherlands).
Information: L. Guo or W. Keigher, Dept. of Math. and Comp. Sci., Rutgers Univ., Newark, NJ 07102; e-mail: liguo@newark.rutgers.edu or keigher@newark.rutgers.edu; fax: 973-353-5270; http://newark.rutgers.edu/~nwkmath/diffalg.html.

* 2–3 **7th Dimacs Implementation Challenge: Semidefinite and Related Optimization Problems**, Dimacs Center, Rutgers University, Piscataway, New Jersey.
Sponsors: Dimacs Center.
Short Description: In the past few years much has been learned about the kinds of problem classes that SDP can tackle, the best SDP algorithms for the various classes, and the various limits of the current approaches to solving SDP's. Similar to, and indeed an extension from, semidefinite programming, a great deal is known about optimization with convex quadratic constraints as well as limitation of current methods. This workshop attempts to distill and expand upon accumulated knowledge. We have collected a variety of interesting and challenging SDP instances whose solution would expand our knowledge of the applicability of SDP.
Organizers: F. Alizadeh. Rutgers Univ.; D. Johnson, AT&T Labs-Research; G. Pataki, Columbia Univ.
Contacts: F. Alizadeh, Rutgers Univ., challenge@dimacs.rutgers.edu.
Local Arrangements: J. Herold, Dimacs Center, jessicah@dimacs.rutgers.edu, 732-445-5928.
Information: http://dimacs.rutgers.edu/Workshops/index.html.
Deadlines: September 15, 2000: Progress reports due for comment and feedback. This should mostly be helpful to newcomers to the area. October 15, 2000: Extended abstracts due for consideration for the workshop. All proposals and abstracts should be sent to the conference email: challenge@dimacs.rutgers.edu.

3–5 **AMS Northeastern Section Meeting**, Columbia University, New York, New York. (Nov. 1998, p. 1378)
Information: Information will be posted on the meetings pages on e-MATH.

7 **Credit Risk**, Bank of England, UK. (Jun./Jul. 2000, p. 704)
Information: Pamela Bye, Conference Officer, The Institute of Mathematics and Its Applications, Catherine Richards House, 16 Nelson Street, Southend-on-Sea, Essex, SS1 1EF, UK; tel: (01702) 354020; fax: (01702) 354111; e-mail: conferences@ima.org.uk; Web: http://www.ima.org.uk/.

10 **Information Outlook 2000 Conference**, Australian National University, Canberra, Australia. (May 2000, p. 596)
Description: IO2000 is the annual conference of the Australian Computer Society (ACS) Canberra Branch.
Information: e-mail: mmorgan@acslink.net.au, or visit http://www.acs.org.au/act/events/io2000/index.html.

13–17 **IMA Workshop 4: Image Analysis and High Level Vision Modeling**, IMA, University of Minnesota, Minneapolis, Minnesota. (Mar. 2000, p. 398)
Organizers: P. Olver (Univ. of Minnesota), A. Tannenbaum (Univ. of Minnesota), D. Geman, S. Zucker (Yale), Y. Amit (Univ. of Chicago).
Information: Institute for Mathematics and its Applications, University of Minnesota, 207 Church St. SE, 400 Lind Hall, Minneapolis, MN 55455; phone: 612-624-6066; e-mail: staff@ima.umn.edu; or Web page: http://ima.umn.edu/multimedia/fall/m4.html/.

* 20 **Differential Geometry in Fluid Dynamics and Dynamical Systems**, Isaac Newton Institute for Mathematical Sciences, Cambridge, UK.
Organizer: T. Kambe (Tokyo).
Speakers: Y. Brenier (Paris), Y. Fukumoto (Kyushu), D. Holm (Los Alamos), T. Kambe (Tokyo), B. Khesin (Toronto), G. Misiolek (Notre Dame), T. Ratiu (EPFL).
Theme: Dynamical systems with finite or infinite number of degrees of freedom, such as hydrodynamics, magnetohydrodynamics, and various interable systems, often have certain symmetry groups. Recent advances in the description of behaviour of those systems are related to the study of differential geometry of the corresponding groups. The geometric theory allows one to describe both quantitative and qualitative global properties of trajectories of such systems.
Information: http://www.newton.cam.ac.uk/programs/gtfw03.html.

22–25 **Japan Conference on Discrete and Computational Geometry 2000**, Tokai University, Tokyo, Japan. (Jun./Jul. 2000, p. 704)
Information: http://gorogoro.cis.ibaraki.ac.jp/jcdcg2000/
Deadline: Deadline for submissions is July 31, 2000. The proceedings will be published in Lecture Notes in Computer Science (Springer).

27–December 1 **Foundations of Probability and Physics**, Växjö University, Sweden. (Jun./Jul. 2000, p. 705)
Focus: The main aim of this conference is to reconsider foundations of probability theory in connection with foundations of physics (quantum as well as statistical). The following problems will be discussed during the conference: (a) creation of the conventional probability theory: Kolmogorov's axiomatics, 1933; (b) creation of probabilistic foundations of quantum mechanics; (c) probability in statistical physics; (d) Einstein-Podolsky-Rosen paradox, Bell's inequality, locality, reality, probability; (e) quantum computers and information and probability; (f) paradoxes of probability theory (in particular, violations of the law of large numbers or ergodicity).
Organizers: L. Accardi (Univ. Rome-2, Italy), W. De Muynck (Univ. of Eindhoven, The Netherlands), T. Hida (Meijo University, Japan), A. Khrennikov (Växjö University, Sweden), V. Maximov (Belostok Univ., Poland).
Invited Speakers: S. Albeverio (Bonn Univ.), H. Atmanschpaher (Inst. of Psychology, Freiburg), L. Ballentine (Simon Fraser), J. Bricmont (FYMA), S. Gudder (Denver Univ.), A. Holevo (Steklov Math. Inst.), P. Lahti (Turku Univ.), T. Maudlin (Rutgers), A. Shimony (Boston Univ.).
Information: Conf. Web site: http://www.msi.vxu.se/aktuellt/konferenser.html. Abstract and application forms to: K.-O. Lindahl (Karl-Olof.Lindahl@msi.vxu.se).
Deadline: October 1, 2000.

27–December 1 **Fourth International Conference on Monte Carlo and Quasi-Monte Carlo Methods in Scientific Computing**, Hong Kong Baptist University, Hong Kong SAR, China. (Apr. 2000, p. 503)
Information: http://www.mcqmc.org/MCQMC2000.html; e-mail: mcqmc2000@www.mcqmc.org.

27–December 2 **Neural Information Processing Systems: Natural and Synthetic**, Denver, Colorado. (Jun./Jul. 2000, p. 705)
Description: An interdisciplinary conference bringing together scientists interested in all aspects of neural processing and computation.
Sponsor: NIPS Foundation.
Information: B. Van Roy (publicity chair): bvr@stanford.edu; http://www.cs.cmu.edu/Web/Groups/NIPS/.
Deadline: Submissions must be logged by midnight May 19, 2000.

27–December 3 **Workshop on Whitham Equations and Their Applications in Mathematics and Physics**, International School for Advanced Studies (SISSA), Trieste, Italy. (Aug. 2000, p. 801)
Program: The workshop's aim is to foster the interaction between mathematicians and physicists dealing with various applications of nonlinear semiclassical approximations.
Workshop Topics: Whitham equations (1) in the theory of dispersive waves: variational principles and Hamiltonian formalism; (2) and differential and algebraic geometry; (3) in plasma physics; (4) in fiber optics; (5) in string theory.
Speakers: J. Bronski (Univ. Illinois at Urbana), L. Friedland (Hebrew Univ., Jerusalem), T. Grava (Univ. Maryland at College Park and Imperial College, London), R. Grimshaw (Loughborough Univ.), Y. Kodama (Ohio State Univ.), K. McLaughlin (Univ. Arizona, Tucson), A. Maltsev (SISSA, Trieste, and Univ. Maryland at College Park), P. Miller (Monash Univ.), A. Shagalov (Institute of Metal Physics at Ekaterinburg), N. Mazur* (Physics of Earth Inst., Moscow), F.-R. Tian

(Ohio State Univ.), S. Venakides* (Duke Univ.), A. Zabrodin (ITEP, Moscow), K. Zybin (Lebedev Inst., Moscow). (*=to be confirmed)
Information: B. Dubrovin, Secretariat of Whitham2000, SISSA, Via Beirut 2-4, I-34013 Trieste, Italy; e-mail: whitham2000@fm.sissa.it. Deadline for applications: May 15, 2000.

December 2000

4–6 **Integration of Diverse Biological Data**, DIMACS Center, Rutgers University, Piscataway, New Jersey. (Jun./Jul. 2000, p. 705)
Sponsors: DIMACS Center.
Organizers: A. Califano, IBM, and C. Gilliam, Columbia Univ.
Short Description: This workshop will focus on combinatorial algorithms and probabilistic models for the analysis and cross-annotation of biological data in diverse databases. We will consider high-dimensional combinatorial algorithms and probabilistic models central to DM for the analysis, clustering, and classification of complex data patterns that can be used to integrate diverse information from many sources.
Contacts: A. Califano, IBM, acal@us.ibm.com.
Local Arrangements: J. Herold, DIMACS Center, jessicah@dimacs.rutgers.edu, 732-445-5928.
Information: http://dimacs.rutgers.edu/Workshops/index.html.

4–8 **25th Australasian Conference on Combinatorial Mathematics and Combinatorial Computing**, University of Canterbury, Christchurch, New Zealand. (Aug. 2000, p. 801)
Organizers: C. Semple, c.semple@math.canterbury.ac.nz; M. Steel, m.steel@math.canterbury.ac.nz.
Information: The conference home page is http://www.math.canterbury.ac.nz/accmcc.shtml.

6–9 **International Conference on Analysis and Its Applications**, Meenakshi College for Women, Chennai, India. (Jun./Jul. 2000, p. 705)
Organizers: Organized by Meenakshi College for Women, Chennai, and Forum d'Analystes, Chennai.
Information: For more information and all correspondence contact: K. S. Lakshmi, International Conference on Analysis and Its Applications, Meenakshi College for Women, Kodambakkam, Chennai–4600 024, India; e-mail: krsksl@giasmd01.vsnl.net.in, mcwksl@giasmd01.vsnl.net.in.

* 9–13 **The Ninth International Workshop on Matrices and Statistics in Celebration of C. R. Rao's 80th Birthday (NIWMS-2000)**, Hyderabad, India.
Purpose, Schedule and Topics: The purpose of this workshop is to stimulate research and, in an informal setting, to foster the interaction of researchers in the interface between matrix theory and statistics. This workshop will provide a forum through which statisticians working in the field of linear algebra and matrix theory may be better informed of the latest developments and newest techniques and may exchange ideas with researchers from a wide variety of countries.

The program will start with a two-day course on recent advances in matrix theory with special reference to applications to statistics on Saturday, December 9, and Sunday, December 10, 2000. This will be followed by the presentation of research papers in the workshop proper on Monday, December 11–Wednesday, December 13, 2000; it is expected that many of these papers will be published, after refereeing, in a Special Issue on Linear Algebra and Statistics of Linear Algebra and Its Applications.
Information: The Web site address for this workshop is http://eos.ect.uni-bonn.de/HYD2000.htm. All correspondence regarding lodging in Hyderabad for this workshop should be directed to R.J.R. Swamy, Dept. of Statistics, Osmania University, Hyderabad-500 007, India; swamy_rjr@yahoo.co.uk, swamy_rjr@yahoo.com; fax (91-40) 717-3602.

11–15 **ATMGT2000, Algebraic and Topological Methods in Graph Theory**, University of Auckland, Auckland, New Zealand. (May 2000, p. 596)
Description: This is a conference devoted to all aspects of graph theory, with a particular emphasis on algebraic and topological methods. It follows the 25th Australasian Conference on Combinatorial Mathematics & Combinatorial Computing hosted by the University of Canterbury, Christchurch, New Zealand (December 4–8, http://www.math.canterbury.ac.nz/accmcc.shtml). Additionally, an international conference on Technology in Mathematics Education (TIME2000) will be taking place at the same location as ATMGT2000 during the same week (http://www.math.auckland.ac.nz/Conferences/TIME2000/TIME2000.html).
Speakers: Confirmed*: J. Hutchinson, St. Paul, Minnesota; D. Marusic, Ljubljana, Slovenia; T. Pisanski, Ljubljana, Slovenia; C. Praeger, Perth, Australia; J. Siran, Bratislava, Slovakia; T. Tucker, Hamilton, New York; M. Watkins, Syracuse, New York. *Two more to be confirmed.
Information: http://www.scitec.auckland.ac.nz/atmgt2000/; e-mail: atmgt2000@math.auckland.ac.nz.

* 17–21 **ASCM '2000—4th Asian Symposium on Computer Mathematics**, Chiang Mai, Thailand.
Invited Speakers: G. H. Gonnet (ETH Zurich, Switzerland), D. Lazard (Univ. Paris VI, France), W. McCune (Argonne National Laboratory, USA).
Deadline for Submission of Papers: June 30, 2000.
Information: See http://www.mmrc.iss.ac.cn/~ascm/; e-mail: ascm@mmrc.iss.ac.cn.

18–20 **Fifth Mathematics in Signal Processing**, University of Warwick, UK. (Jun./Jul. 2000, p. 705)
Information: Pamela Bye, Conference Officer, The Institute of Mathematics and Its Applications, Catherine Richards House, 16 Nelson Street, Southend-on-Sea, Essex, SS1 1EF, UK; tel: (01702) 354020; fax: (01702) 354111; e-mail: conferences@ima.org.uk; Web: http://www.ima.org.uk/.

20–22 **Mathematics and Computers in Biology and Chemistry (MCBC 2000)**, Montego Bay, Jamaica. (Apr. 2000, p. 503)
Sponsor: World Scientific & Engineering Community (WSES).
Information: Web sites: http://www.worldses.org/wses/mcbc/, http://www.worldses.org/wses/mcbe/, http://www.worldses.org/wses/AMTA/; e-mail addresses: mcbc@worldses.org, mcbe@worldses.org, usa@worldses.org.

20–22 **Mathematics and Computers in Business and Economics (MCBE 2000)**, Montego Bay, Jamaica. (Apr. 2000, p. 503)
Sponsor: World Scientific & Engineering Community (WSES).
Information: Web sites: http://www.worldses.org/wses/mcbc/, http://www.worldses.org/wses/mcbe/, http://www.worldses.org/wses/AMTA/; e-mail addresses: mcbc@worldses.org, mcbe@worldses.org, usa@worldses.org.

20–22 **Acoustics and Music: Theory and Applications (AMTA 2000)**, Montego Bay, Jamaica. (Apr. 2000, p. 503)
Sponsor: World Scientific & Engineering Community (WSES).
Information: Web sites: http://www.worldses.org/wses/mcbc/, http://www.worldses.org/wses/mcbe/, http://www.worldses.org/wses/AMTA/; e-mail addresses: mcbc@worldses.org, mcbe@worldses.org, usa@worldses.org.

January 2001

January–May **MSRI Program in Spectral Invariants—Analytic and Geometric Aspects**, Mathematical Sciences Research Institute, Berkeley, California. (Sept. 1998, p. 1054)
Focus: The past few decades have witnessed many new developments, centered around the study of new spectral invariants and their application to problems in conformal geometry, classification of 4-manifolds, index theory and other topics. This program will bring together people working on different aspects of the various

problems in these areas, to appraise the current status of development, to encourage interactions among these different points of view, and to assess future directions.
Program Committee: S.-Y. A. Chang, R. Mazzeo.
Information: For more details, visit http://www.msri.org/.

January–June **Symplectic Topology, Geometry and Gauge Theory Program**, Toronto and Montreal, Canada. (Apr. 2000, p. 503)
Workshops: Quasiclassical and quantum structures, Jan. 9–14, 2001, organized by P. Etingof (MIT) and B. Khesin (Toronto); Symplectic and contact topology field theory, and higher dimensional gauge theory, March 26–April 7, 2001, organized by S. Donaldson (London), B. Dubrovin (Trieste), Ya. Eliashberg (Stanford), A. Givental (Berkeley), B. Khesin (Toronto), and F. Lalonde (Montreal); Hamiltonian group actions and quantization, June 4–13, 2001, organized by L. Jeffrey (Toronto), E. Meinrenken (Toronto), J. Hurtubise (Montreal), and M. Audin (Strasbourg).
Information: http://www.fields.utoronto.ca/symplectic.html.

4–8 **Second Pacific Rim Conference on Mathematics**, Institute of Mathematics, Academia Sinica, Taipei, R.O.C. (Taiwan). (Dec. 1999, p. 1436)
Conference Topics: This international conference focuses on the areas of combinatorics, computational mathematics, dynamical systems, integrable systems, mathematical physics, and nonlinear partial differential equations. Plenary speakers and special sessions with invited speakers in these areas will be featured. Contributed papers in any area of mathematics are welcome.
Organizers: S.-N. Chow (National Univ. of Singapore), L. C. Evans (Univ. of California, Berkeley), F. C. Liu, Chair (Academia Sinica, Taipei), M. Mimura (Hiroshima Univ.), R. M. Miura (Univ. of British Columbia), and R. Wong (City Univ. of Hong Kong).
Plenary Speakers: I. Affleck (Univ. of British Columbia), L. C. Evans (Univ. of California, Berkeley), G. Fan (Academia Sinica-Beijing), J. Feldman (Univ. of British Columbia), S.-S. Lin (National Chiao Tung University), L. Simon (Stanford Univ.), S. Smale (City Univ. of Hong Kong), G. Strang (Massachusetts Institute of Technology), K. Takasaki (Kyoto Univ.), Y. Yamada (Kobe Univ.), Y. Yi (Georgia Institute of Technology), X. Zhu (National Sun Yat-Sen Univ.).
Information: Detailed information on registration, submission of abstracts (deadline: September 30, 2000), and accommodations can be obtained from: PRCM2001, Institute of Mathematics, Academia Sinica, Taipei 11529, R.O.C. (Taiwan); (886)-2-27823129, (886)-2-27851211, ext 351; fax: (886)-2-27827432; e-mail: prcm2001@math.sinica.edu.tw; WWW site: http://www.sinica.edu.tw/math/html/conference/prcm2001/. Additional information will be posted on this Web page as it becomes available.

10–13 **Joint Mathematics Meeting**, New Orleans Marriott & ITT Sheraton New Orleans Hotel, New Orleans, Louisiana. (Sept. 1997, p. 1031)

17–19 **IMA Mini-Symposium: Fractals in Multimedia**, IMA, University of Minnesota. Minneapolis, Minnesota. (Mar. 2000, p. 398)
Organizers: M. Barnsley (Georgia Tech).
Information: Institute for Mathematics and its Applications, University of Minnesota, 207 Church St. SE, 400 Lind Hall, Minneapolis, MN 55455; phone: 612-624-6066; e-mail: staff@ima.umn.edu; or Web page: http://ima.umn.edu/multimedia/winter/ms.html/.

22–25 **First International Conference on Industrial and Applied Mathematics**, Amritsar, India. (Aug. 2000, p. 801)
Sponsors: Indian Society of Industrial and Applied Mathematics and Guru Nanak Dev University.
Speakers: Several distinguished mathematicians from the USA, Germany, France, and Canada have consented to participate.
Information: P. Manchanda (chairperson), Department of Mathematics, Guru Nanak Dev University, Amritsar, India; tel: 0091-183-422748 (res.); 0091-183-258802-09, ext. 3299 (off.); fax: 0091-183-258820; e-mail: kmanch@jla.vsnl.net.in.

25–26 **IMA Tutorial: Digital Libraries**, IMA, University of Minnesota, Minneapolis, Minnesota. (Mar. 2000, p. 398)
Organizers: A. Tewfik (Univ. of Minnesota).
Information: Institute for Mathematics and its Applications, University of Minnesota, 207 Church St. SE, 400 Lind Hall, Minneapolis, MN 55455; phone: 612-624-6066; e-mail: staff@ima.umn.edu; or Web page: http://ima.umn.edu/multimedia/winter/tut.html.

29–31 **International Conference on Mathematical Modelling**, University of Roorkee, Roorkee, India. (Jun./Jul. 2000, p. 705)
Topics: Papers on modelling in all aspects of the sciences, engineering, and industry, with adequate mathematical input through analytical/numerical techniques, are invited. Broad themes of the conference include: engineering sciences, industrial mathematics, theoretical physics, energy resources, biomedical systems, economic problems, ecology and environmental sciences.
Submission Schedule: Abstract submission: June 20, 2000; Preliminary acceptance: August 20, 2000; Receipt of full-length paper: November 20, 2000.
Language: The official language of the conference is English.
Information: Information about the conference can be obtained from: S. K. Dey, Dept. of Math., Eastern Illinois Univ., Charleston, IL; tel: 217-581-5729 or 217-581-6284; e-mail: cfskd@eiu.edu. Organizing Secretary (in India): V. K. Katiyar, Dept. of Math., Univ. of Roorkee, Roorkee-247 667, India; tel: +91 1332-85085 (O) or +91 1332-85268, 71791 (R); fax: +91 1332-73560; e-mail: vktmafma@rurkiu.ernet.in.

29–February 2 **IMA Workshop 5: Digital Libraries: Data Modeling and Representation**, IMA, University of Minnesota, Minneapolis, Minnesota. (Mar. 2000, p. 398)
Organizers: R. Gray (Stanford Univ.), J. Johnston (AT&T), M. Orchard (Princeton Univ.), S. Shakhar (Univ. of Minnesota).
Information: Institute for Mathematics and its Applications, University of Minnesota, 207 Church St. SE, 400 Lind Hall, Minneapolis, MN 55455; phone: 612-624-6066; e-mail: staff@ima.umn.edu; or Web page: http://ima.umn.edu/multimedia/winter/m5.html.

February 2001

* February–July **2001–Random Walks**, Erwin Schrödinger Institute, Vienna, Austria.
Organizers: V. A. Kaimanovich (Rennes, France), K. Schmidt (Vienna, Austria), W. Woess (Graz, Austria).
Program: ESI will host a specific semester entitled "2001–Random Walks" from mid-February to mid-July. The semester will be dedicated to various problems connected with stochastic processes on geometric and algebraic structures, with an emphasis on their interplay and also on their interaction with theoretical physics. Some of the focal points will be: probability on groups; products of random matrices and simplicity of the Lyapunov spectrum; boundary behaviour, harmonic functions and other potential theoretic aspects; Brownian motion on manifolds; combinatorial and spectral properties of random walks on graphs; random walks and diffusion on fractals. There will be two separate main periods of activity in the first (February/March) and in the second (May/June/July) halves of the semester. The first period will start with a two-week workshop with the general theme Random Walks and Statistical Physics. Towards the end of the second period there will be another two-week workshop with the general theme Random Walks and Geometry.
Information: General information about the ESI can be found at the Web site http://www.esi.ac.at/. For participation in the special semester 2001–Random Walks in Vienna and, in particular, participation in one of the workshops, please contact e-mail: rwalk@keen.esi.ac.at.

3–7 **ANZIAM2001 (Australian and New Zealand Industrial and Applied Mathematics)**, Barossa Valley Resort, South Australia, Australia. (May 2000, p. 596)
Organizers: E. Tuck, J. Denier, M. Teubner, E. Cousins, Y. Stokes, C. Coleman, P. Dabrowski (Adelaide), A. Gill, E. Hunt (DSTO), S. Lucas

(USA), R. Huilgol (Flinders).
Information: http://www.maths.adelaide.edu.au/anziam2001/ or contact anziamsa@maths.adelaide.edu.au.

12–16 **IMA Workshop 6A: Digital Libraries: Digital Asset Management**, IMA, University of Minnesota, Minneapolis, Minnesota. (Mar. 2000, p. 398)
Organizers: M. Barnsley (Georgia Tech), G. Cybenko (Dartmouth), D. Du (Univ. of Minnesota).
Information: Institute for Mathematics and its Applications, University of Minnesota, 207 Church St. SE, 400 Lind Hall, Minneapolis, MN 55455; phone: 612-624-6066; e-mail: staff@ima.umn.edu; or Web page: http://ima.umn.edu/multimedia/winter/m6.html.

*17–19 **International Symposium on Mathematics and Its Applications (ISMA 2001)**, Calcutta, India.
Information: For additional information, please visit http://php.indiana.edu/~gompa/calcutta.htm.

19–23 **New Trends in Potential Theory and Applications**, University of Bielefeld, Bielefeld, Germany.
Program: This conference is meant to be a continuation of a series of international conferences on Potential Theory and related fields (as, e.g., the ones in Prague '87, Amersfoort '91, Kouty '94, Hammamet '98). The beginning of the new millennium seems appropriate to reflect on the current developments and to specify new promising directions of research in this classical area of mathematics. Emphasis will be given to various applications, in particular, in mathematical physics. We would also like to celebrate the 60th birthday of our colleague and friend, Wolfhard Hansen, on the afternoon of February 22.
Topics: The conference will include the topics: differential geometry, Dirichlet forms, fractals, linear and nonlinear PDE, Schrödinger operators, Markov processes, stochastic analysis.
Information: Anyone interested in taking part in the conference should contact the organizers via e-mail. Further information will be provided soon. V. Metz, Fakultät für Mathematik, Universität Bielefeld, Postfach 10 01 31, D–33501 Bielefeld, Germany; e-mail: metz@mathematik.uni-bielefeld.de.

*25-March 1 **NATO Advance Research Workshop: Application of Algebraic Geometry to Coding Theory, Physics and Computation**, Eilat, Israel.
Aim: The goal of the workshop is to present some of the best recent work in algebraic geometry with emphasis on possible relations with and applications to mathematical physics, coding theory, industrial and computational aspects. Proceedings will be published with the contribution of NATO. Scientists from all NATO countries, Middle East countries and the former Soviet Union are invited to participate. The following people are planning to participate: E. Arbarello (SNS, Pisa), V. Batyrev (Tübingen), A. Beauville (Paris), J. Bernstein (Tel Aviv), F. Catanese (Göttingen), A. Conte (Turin), R. Donagi (Philadelphia), G. van der Geer (Amsterdam), P. Griffiths (Princeton), V. Iskovskih (Moscow), V. Kaminski (Ramat Gan), M. Kontsevich (Bures-sur-Yvette), V. Kulikov (Moscow), A. Libgober (Chicago), V. Lin (Haifa), R. Livné (Jerusalem), Y. Miyaoka (Kyoto), N. Mok (Hong Kong), D. Mumford (Providence), T. Peternell (Bayreuth), M. Salvetti (Pisa), R. Schoof (Roma Tor Vergata), E. Sernesi (Roma III), Y.T. Siu (Cambridge, USA).
Information: e-mail: NATO@macs.biu.ac.il. Web site: http://www.mat.uniroma2.it/~cilibert/workshop.html.

26–March 2 **IMA Workshop 6B: Digital Libraries: Classification, Retrieval and Visualization**, IMA, University of Minnesota, Minneapolis, Minnesota. (Mar. 2000, p. 398)
Organizers: D. Forsyth (UC Berkeley), B.-L. Yeo (Intel), other organizers to be announced.
Information: Institute for Mathematics and its Applications, University of Minnesota, 207 Church St. SE, 400 Lind Hall, Minneapolis, MN 55455; phone: 612-624-6066; e-mail: staff@ima.umn.edu; or Web page: http://ima.umn.edu/multimedia/winter/m7.html/.

March 2001

8–10 **Seminar on Stochastic Processes 2001**, The University of Florida, Gainesville, Florida. (May 2000, p. 596)
Information: For further information, please contact I. Hueter (hueter@math.ufl.edu) or visit the Web site http://www.math.ufl.edu/~hueter/ssp2001.html.

9–11 **The Third International Meeting of Origami Science, Math, and Education**, Asilomar, Monterey, California. (Aug. 2000, p. 801)
Information: In 1989 and 1994 the first two meetings devoted to origami research and applications in math and science were held in Italy and Japan respectively. OrigamiUSA, a national not-for-profit organization devoted to paperfolding, is proud to sponsor the third such meeting.
Call for Papers: Deadline is September 1, 2000. Please send abstracts, 10–20 lines long, and any other supporting material to T. C. Hull, Dept. of Math., Merrimack College, North Andover, MA 01845; or e-mail: thull@merrimack.edu. Details on registration can be found on http://web.merrimack.edu/~thull/osm/osm.html.

16–18 **AMS Southeastern Sectional Meeting**, University of South Carolina, Columbia, South Carolina. (Jan. 1998, p. 113)
Information: W. Drady, wsd@ams.org.

26–30 **Quadratic Forms and Related Topics**, Louisiana State University, Baton Rouge, Louisiana. (Jun./Jul. 2000, p. 706)
Abstract: This conference deals with a broad spectrum of the theory of quadratic forms, including algebraic theory, arithmetic theory, K-theory and algebraic groups. There will be approximately eight 1-hour survey lectures and sessions for contributed talks by the participants.
Main Speakers: J. Arason (Reykjavik), E. Bayer-Fluckiger (Besançon), A. Dress (Bielefeld), J. Hsia (Ohio State), A. Pfister (Mainz), M. Rost (Ohio State), U. Rehmann (Bielefeld), J.-P. Tignol (Louvain-la-Neuve).
Organizers: J. W. Hoffman, J. Hurrelbrink, J. Morales, R. Perlis, P. van Wamelen.
Information: Conference e-mail: qforms@math.lsu.edu; conference Web page: http://www.math.lsu.edu/~qforms/.

27–29 **Third Spatial Patterns in Permeable Rocks**, Churchill College, Cambridge, UK. (Jun./Jul. 2000, p. 706)
Information: Pamela Bye, Conference Officer, The Institute of Mathematics and Its Applications, Catherine Richards House, 16 Nelson Street, Southend-on-Sea, Essex, SS1 1EF, UK; tel: (01702) 354020; fax: (01702) 354111; e-mail: conferences@ima.org.uk; Web: http://www.ima.org.uk/.

April 2001

9–11 **Fourth Modelling in Industrial Maintenance and Reliability**, University of Salford, UK. (Jun./Jul. 2000, p. 706)
Information: Pamela Bye, Conference Officer, The Institute of Mathematics and Its Applications, Catherine Richards House, 16 Nelson Street, Southend-on-Sea, Essex, SS1 1EF, UK; tel: (01702) 354020; fax: (01702) 354111; e-mail: conferences@ima.org.uk; Web: http://www.ima.org.uk/.

9–13 **Joint IDR-IMA Workshop: Ideal Data Representation**, IMA, University of Minnesota, Minneapolis, Minnesota. (Mar. 2000, p. 398)
Organizers: R. DeVore (IDR Organizer, Univ. of South Carolina-Columbia), A. Ron (IDR Organizer, Univ. of Wisconsin - Madison), P. Van Fleet (Workshop Organizer, Univ. of St. Thomas).
Information: Institute for Mathematics and its Applications, University of Minnesota, 207 Church St. SE, 400 Lind Hall, Minneapolis, MN 55455; phone: 612-624-6066; e-mail: staff@ima.umn.edu; or Web page: http://ima.umn.edu/multimedia/spring/idr.html.

19–20 **IMA Tutorial: Geometric Design**, IMA, University of Minnesota, Minneapolis, Minnesota. (Mar. 2000, p. 398)
Organizers: L. Schumaker (Vanderbilt Univ.), R. Chang.
Information: Institute for Mathematics and its Applications, University of Minnesota, 207 Church St. SE, 400 Lind Hall, Minneapolis,

MN 55455; phone: 612-624-6066; e-mail: staff@ima.umn.edu; or Web page: http://ima.umn.edu/multimedia/spring/tut7.html.

23–27 **IMA Workshop 7: Geometric Design**, IMA, University of Minnesota, Minneapolis, Minnesota. (Mar. 2000, p. 399)
Organizers: L. Schumaker (Vanderbilt) and R. Chang.
Information: Institute for Mathematics and its Applications, University of Minnesota, 207 Church St. SE, 400 Lind Hall, Minneapolis, MN 55455; phone: 612-624-6066; e-mail: staff@ima.umn.edu; or Web page: http://ima.umn.edu/multimedia/spring/m7.html.

28–29 **AMS Northeastern Section Meeting**, Stevens Institute of Technology, Hoboken, New Jersey. (Nov. 1998, p. 1378)
Information: Information will appear on the meetings pages on e-MATH.

May 2001

10–11 **IMA Tutorial: Computer Graphics**, IMA, University of Minnesota, Minneapolis, Minnesota, (Mar. 2000, p. 399)
Organizers: T. DeRose (Pixar).
Information: Institute for Mathematics and its Applications, University of Minnesota, 207 Church St. SE, 400 Lind Hall, Minneapolis, MN 55455; phone: 612-624-6066; e-mail: staff@ima.umn.edu; or Web page: http://ima.umn.edu/multimedia/spring/tut8.html.

14–18 **IMA Workshop 8: Computer Graphics**, IMA, University of Minnesota, Minneapolis, Minnesota. (Mar. 2000, p. 399)
Organizers: T. DeRose (Pixar), P. Schroder (Caltech).
Information: Institute for Mathematics and its Applications, University of Minnesota, 207 Church St. SE, 400 Lind Hall, Minneapolis, MN 55455; phone: 612-624-6066; e-mail: staff@ima.umn.edu; or Web page: http://ima.umn.edu/multimedia/spring/m8.html.

20–24 **Sixth SIAM Conference on Applications of Dynamical Systems (DS01)**, Snowbird Ski and Summer Resort, Snowbird, Utah. (Jun./Jul. 2000, p. 706)
Information: SIAM, Society for Industrial and Applied Mathematics, 3600 University City Science Center, Philadelphia, PA 19104; phone: 215-382-9800; fax 215-386-7999; e-mail: meetings@siam.org; Web: http://www.siam.org/meetings/.

* 28–June 1 **Harmonic Morphisms and Harmonic Maps**, Centre International de Rencontres Mathématiques, Luminy, Marseille, France.
Description: The second international conference primarily dedicated to harmonic morphisms will be held at the Centre International de Rencontres Mathématiques in Luminy, France. Though centered on harmonic morphisms, neighbouring themes in harmonic maps will also be represented with lectures from leading experts. Since 1979 the harmonic morphism bibliography has grown to more than 170 publications, and the prominence of the subject continues to grow, providing rich interactions between harmonic maps, minimal surface theory, low dimensional topology, probability theory, and theoretical physics.
Organizing Committee: M. Ville (École Polytechnique), E. Loubeau (Brest), S. Montaldo (Cagliari).
Scientific Committee: J. Eells (Cambridge), L. Lemaire (Brussels), J. C. Wood (Leeds).
Information: For more on the CIRM see: http://www.cirm.univ-mrs.fr/indexE.html. If you wish to attend the conference, please contact M. Ville at ville@math.polytechnique.fr. Web site: http://beltrami.unica.it/harmor/.

June 2001

* 4–9 **Fractals in Graz 2001: Stochastics-Analysis-Dynamics-Geometry**, Technical University of Graz, Graz, Austria.
Organizing Committee: M. Barlow (Univ. of British Columbia, Vancouver), R. Strichartz (Cornell Univ.), P. Grabner (Technical Univ. of Graz), W. Woess (Technical Univ. of Graz), the last two being the local organizers.
Purpose: The purpose of the conference is to bring together researchers from various mathematical areas who share a common interest in fractal structures, with openmindedness to interaction between different fields inside and outside the fractal world.
Plenary Lectures: R. Bass (Univ. of Connecticut, Storrs), T. Coulhon (Univ. de Cergy-Pontoise), K. Falconer (Univ. of St. Andrews), H. Furstenberg (Hebrew Univ., Jerusalem), B. Hambly (Univs. of Bristol and Oxford), J. Kigami (Kyoto Univ.), T. Kumagai (Kyoto Univ.), M. Lapidus (Univ. of California, Riverside), A. Lasota (Silesian Univ., Katowice), M. Mendès-France (Univ. de Bordeaux), A. Teplyaev (McMaster Univ., Hamilton).
Information: http://finanz.math.tu-graz.ac.at/~fractal/.
Contact Address: fractal@weyl.math.tu-graz.ac.at.

6–10 **The 3rd International Conference on Mathematical Biology**, Guilin, China. (Jun./Jul. 2000, p. 706)
Organizer: The National Mathematical Society of China.
Host: Guangxi Normal University, Guilin, China.
Suggested Topics: Mathematical ecology, bio-informatics, biometrics, quantity genetics.
Conference Language: English.
Information: M. Zhi (deputy director) or W. Wanxia (assistant), Conference Secretariat, Office of International Exchanges, Guangxi Normal University, Guilin, 541001, China; tel: (0086) 773-2816350; fax: (0086) 773-2825850 or (0086) 773-5812383; e-mail: gxnu@public.glptt.gx.cn or waiban@mailbox.gxnu.edu.cn.

8–10 **Joint Meeting of the Belgian and German Mathematical Societies 2001 BMS-DMV Meeting**, University of Liege, Belgium. (Aug. 2000, p. 801)
Program: The aim is to set up a conference with six plenary talks of 50 minutes and 10–12 Special Sessions. The following three speakers have already agreed to deliver plenary talks: I. Daubechies (Princeton, NJ, USA), C. Deninger (Münster, Germany), and P. Deuflhard (Berlin, Germany). The following six Special Sessions (and organizers) have already been fixed: Arithmetic Geometry (G. Cornelissen, A. Huber, K. Künnemann, W. Veys); Functional Analysis and Functional Analytic Methods in Partial Differential Equations (K. D. Bierstedt, P. Laubin, R. Meise, J. Schmets); Global Analysis (J. Brüning, L. Lemaire); Optimization (M. Goemans, M. Grötschel, Ph. Toint, J. Zowe); Ordinary Differential Equations and Dynamic Systems (F. Dumortier, B. Fiedler, J. Mawhin, J. Scheurle); Representation Theory (D. Happel, C. Ringel, F. Van Oystaeyen, A. Verschoren).
Information: Information on the meeting can be found on the Web site http://math-www.uni-paderborn.de/Liege2001/. Everybody interested in participating in the meeting is kindly asked to preregister by sending e-mail to bmsdmv@upb.de, mentioning their name, institution, e-mail address, and 2001 BMS-DMV Meeting. All mathematicians who have preregistered this way for the meeting will automatically receive the second announcement of the meeting in October 2000.

11–15 **IMA Workshop: Haptics, Virtual Reality and Human Computer Interaction**, IMA, University of Minnesota, Minneapolis, Minnesota. (Mar. 2000, p. 399)
Organizers: K. Kolarov (Interval Research Corp.).
Information: Institute for Mathematics and its Applications, University of Minnesota, 207 Church St. SE, 400 Lind Hall, Minneapolis, MN 55455; phone: 612-624-6066; e-mail: staff@ima.umn.edu; or Web page: http://ima.umn.edu/multimedia/spring/m9.html.

23–29 **International Conference on Operator Theory and Its Applications, dedicated to the memory of Abraham V. Strauss**, Ulyanovsk, Russia. (Jun./Jul. 2000, p. 706)
Organizers: Organized by the Faculty of Physics and Mathematics and Teacher's Training State University of Ulyanovsk.
Local Organizing Committee: U. A. Grushevskii (chair), B. P. Gluhov (associate chair), A. N. Vernik, M. V. Chugunova.
International Program Committee: A. G. Ramm (Kansas State Univ., USA), H. Langer (Vienna Technical Univ., Austria), D. Alpay (Ben-

Gurion Univ. of the Negev, Israel), H. de Snoo (Univ. of Groningen, Netherlands), V. A. Strauss (Simon Bolivar Univ., Venezuela), E. R. Tsekanovskii (Univ. of Missouri - Columbia, USA), V. Vinnikov (Weizmann Institute of Science, Israel).
Scope: A. V. Strauss (1920–1999) was an internationally recognized specialist in operator theory. The scope of the conference dedicated to his memory is broad and includes theory and applications.
Registration and Information: If you plan to take part in the conference, please send your CV and your address. Later we will send an invitation with more detailed information. Deadline for participation is January 10, 2001. Address: 432700, 4, 100-letija Lenina sq., Ulyanovsk, Russia; tel: +842-2-394-118; fax: +842-2-312-474; e-mail: ulgpu@mv.ru. Contact: V. Strauss, e-mail: str@usb.ve, fax: (58-2)9063278.

July 2001

1–5 **Warthog Delta'01 Conference on Undergraduate Teaching of Mathematics—Third Southern Hemisphere Symposium on Undergraduate Mathematics Teaching**, Kruger Park, South Africa. (Aug. 2000, p. 802)
Organizers: Jointly organized by SAMERN, the African Mathematical Union, and the International DELTA Committee.
Keynote Speakers: A. Schoenfeld, M. Kawski, C. Julie, J. Mason, V. Masanja.
Theme: Gearing for Flexibility.
Information: Web site: http://science.up.ac.za/delta01/.

12–14 **Fifth SIAM Conference on Control and Its Applications (CT01)**, Town & Country Hotel, San Diego, California. (Jun./Jul. 2000, p. 706)
Information: SIAM, Society for Industrial and Applied Mathematics, 3600 University City Science Center, Philadelphia, PA 19104; phone: 215-382-9800; fax 215-386-7999; e-mail: meetings@siam.org; Web: http://www.siam.org/meetings/.

*16–20 **Algorithms for Approximation IV**, University of Huddersfield, Huddersfield, UK.
Description: This conference will cover algorithms for the approximation of functions and data, both familiar and novel areas, including splines; wavelets; radial basis functions (RBFs); complex, rational, and spherical approximation; special functions; CAGD; applications including neural networks and metrology. There will be special sessions on various topics such as RBFs, metrology, and integral equations. The venue is an attractive one, and there will be an active social program.
Deadlines: About 50 contributed papers are sought and 1–2-page abstracts should be submitted by December 31, 2000.
Invited Speakers: M. Buhmann (Giessen, Germany), M. G. Cox (NPL, UK), K. Driver (Witwatersrand, SA), M. Floater (SINTEF, Norway), T. Goodman (Dundee, UK), W. Light (Leicester, UK), C. A. Micchelli (Albany & IBM, USA), L. Nielsen (DIFM, Lyngby), G. Plonka (Duisburg, Germany), T. Poggio (MIT, USA), L. L. Schumaker (Vanderbilt, USA), G. A. Watson (Dundee, UK).
Registration and Information: Conference Web site: http://helios.hud.ac.uk/a4a4/, conference e-mail: a4a4@hud.ac.uk. Express an interest or register on the Web site, or contact by e-mail if you wish to offer a special session. Postal address: J. C. Mason, School of Computing and Mathematics, University of Huddersfield, Queensgate, Huddersfield HD1 3DH, UK.

22–25 **International Symposium on Symbolic and Algebraic Computation (ISSAC 2001)**, University of Western Ontario, London, Ontario, Canada. (Aug. 2000, p. 802)
Description: ISSAC is the yearly premier international symposium in symbolic and algebraic computation. It provides an opportunity to learn of new developments and to present original research results in all areas of symbolic mathematical computation. Recent advances are communicated through its refereed conference proceedings (available at the conference), prestigious invited talks, tutorials, and other activities.
Conference Committee: General Chair: E. Kaltofen (North Carolina State Univ.); Program Committee Chair: G. Villard (IMAG, Grenoble, France); Local Arrangements Chair: G. Reid (Univ. of Western Ontario, London, Ontario, Canada).
Information: Please see the conference Web page: http://www.orcca.on.ca/issac2001/. Conference e-mail: issac2001@orcca.on.ca.

August 2001

5–18 **Groups St. Andrews 2001**, University of Oxford, Oxford, England. (Apr. 2000, p. 503)
Aim: This conference, the sixth in the series of Groups St. Andrews Conferences, will be organized along similar lines to previous events in this series.
Scientific Organizing Committee: C. Campbell (St. Andrews), P. Martineau (Oxford), P. Neumann (Oxford), E. Robertson (St. Andrews), G. Smith (Bath), B. Stewart (Oxford), and G. Stoy (Oxford).
Principal Speakers: M. D. E. Conder (Auckland), P. W. Diaconis (Stanford), P. P. Palfy (Budapest), M. P. F. du Sautoy (Cambridge), M. R. Vaughan-Lee (Oxford).
Program: The speakers have kindly agreed to give short courses of lectures. In addition, there will be a full program of one-hour invited lectures and short research presentations.
Topics: The conference aims to cover all aspects of group theory. The short lecture courses are intended to be accessible to postgraduate students, postdoctoral fellows, and researchers in all areas of group theory.
Accommodations: These have been booked at St Anne's and Somerville Colleges, University of Oxford, England. Lectures will be held in the Mathematical Institute, University of Oxford.
Information: Groups St. Andrews 2001, Mathematical Institute, North Haugh, St. Andrews, Fife KY16 9SS, Scotland; e-mail: gps2001@mcs.st-and.ac.uk; http://www.bath.ac.uk/~masgcs/gps01/.

13–16 **Fourth SIAM Conference on Linear Algebra in Signals, Systems and Control (LASSC01)**, Boston Park Plaza Hotel, Boston, Massachusetts. (Jun./Jul. 2000, p. 707)
Information: SIAM, Society for Industrial and Applied Mathematics, 3600 University City Science Center, Philadelphia, PA 19104; phone: 215-382-9800; fax 215-386-7999; e-mail: meetings@siam.org; Web: http://www.siam.org/meetings/.

15–20 **SRTL-2: The Second International Research Forum on Statistical Reasoning, Thinking, and Literacy**, University of New England, Armidale, Australia. (Jun./Jul. 2000, p. 707)
Hosts: The Centre for Cognition Research in Learning and Teaching and the School of Curriculum Studies in the University of New England, Armidale, Australia.
Information: C. Reading, Dept. of Curriculum Studies, University of New England, Armidale NSW 2351, Australia; phone: (02)-67735060; fax: (02)-67735078; e-mail: creading@metz.une.edu.au; Web site: http://www.beeri.org.il/SRTL/.

27–31 **Equadiff 10, Czechoslovak International Conference on Differential Equations and Their Applications**, Prague, Czech Republic. (Apr. 2000, p. 502)
Honorary Presidents: I. Babuska, J. Kurzweil.
Information: Address of the conference: Equadiff, Mathematical Institute, Zitna 25, 115 67 Praha 1, Czech Rep.; tel: (++420 2) 22090734; fax: (++420 2) 22211638; http://www.math.cas.cz/; e-mail: equadiff@math.cas.cz.

September 2001

1–May 31 **Institut Mittag-Leffler Call for Proposals**, Djursholm, Sweden.
Aim: The Institute runs programs in specialized areas of mathematics to which leading scientists in the area are invited. In a concurrent junior visiting program, postdocs and advanced graduate students are invited to participate. The programs can run for the whole year or be of semester length.

Criteria: The selection criteria for proposals are scientific strength and timeliness and the degree to which the program would benefit mathematical research in Scandinavia, including Finland and Iceland. Proposals should contain: a description of the intended area of specialization; the names of the proposed committee; a list of suggested invitees, most of whom should have indicated an interest in the program and a willingness to participate; a description of the Scandinavian connection.
Steering Committee: The scientific programs are led by a steering committee of 2–4 persons which will work closely with the director and which will suggest invitees to the board. It is expected that at least one member of the committee will be present at all times during the period of the program.
Information: Proposals should be addressed to The Board, Institut Mittag-Leffler, and sent to: Institut Mittag-Leffler, Auravägen 17, S-182 62 Djursholm, Sweden. The deadline for applications is February 28, 2001. For further information, consult the Institute's home page: http://www.ml.kva.se/, or contact the director, K.-O. Widman, e-mail: widman@ml.kva.se.

4–7 **ECCOMAS 2001**, Swansea, UK. (Jun./Jul. 2000, p. 707)
Information: Pamela Bye, Conference Officer, The Institute of Mathematics and Its Applications, Catherine Richards House, 16 Nelson Street, Southend-on-Sea, Essex, SS1 1EF, UK; tel: (01702) 354020; fax: (01702) 354111; e-mail: conferences@ima.org.uk; Web: http://www.ima.org.uk/.

24–26 **ECCOMAS 2001**, Keble College, Oxford, UK. (Jun./Jul. 2000, p. 707)
Information: Pamela Bye, Conference Officer, The Institute of Mathematics and Its Applications, Catherine Richards House, 16 Nelson Street, Southend-on-Sea, Essex, SS1 1EF, UK; tel: (01702) 354020; fax: (01702) 354111; e-mail: conferences@ima.org.uk; Web: http://www.ima.org.uk/.

October 2001

*1–5 **International Conference on Numerical Algorithms, dedicated to Claude Brezinski on the occasion of his 60th birthday**, Marrakesh, Morocco. (Aug. 2000, p. 800)
Program: An international conference to celebrate the 60th birthday of Claude Brezinski and the 10th anniversary of the journal *Numerical Algorithms* that he founded in 1991 and where contributed papers will be published. The themes of the conference will cover all aspects of numerical analysis, in particular those that are related to numerical algorithms.
Information and Registration: A Web site containing all the information about this conference can be found at http://www-lmpa.univ-littoral.fr/~na2001/. If interested in participating, please respond to this address: na2001@lmpa.univ-littoral.fr.

13–14 **AMS Eastern Sectional Meeting**, Williams College, Williamstown, Massachusetts. (Sept. 1997, p. 1031)
Information: W. Drady, wsd@ams.org.

November 2001

5–8 **Seventh SIAM Conference on Geometric Design (SIAG/GD) (GD01)**, Holiday Inn Capitol Plaza Hotel, Sacramento, California. (Jun./Jul. 2000, p. 707)
Information: SIAM, Society for Industrial and Applied Mathematics, 3600 University City Science Center, Philadelphia, PA 19104; phone: 215-382-9800; fax 215-386-7999; e-mail: meetings@siam.org; Web: http://www.siam.org/meetings/.

December 2001

17–19 **Eighth Cryptography and Coding**, Royal Agricultural College, Cirencester, UK. (Jun./Jul. 2000, p. 707)
Information: Pamela Bye, Conference Officer, The Institute of Mathematics and Its Applications, Catherine Richards House, 16 Nelson Street, Southend-on-Sea, Essex, SS1 1EF, UK; tel: (01702) 354020; fax: (01702) 354111; e-mail: conferences@ima.org.uk; Web: http://www.ima.org.uk/.

January 2002

6–9 **Joint Mathematics Meetings**, San Diego Convention Center, San Diego, California. (Nov. 1998, p. 1378)
Information: Information will appear on the meetings pages on e-MATH.