

Mathematics Calendar

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

September 2001

1–6 WSES, IEEE Conference: Speech, Signal and Image Processing 2001 (SSIP 2001), Malta. (June/July 2001, p. 626)

Information: <http://www.worldses.org/wses/conferences/malta/>.

1–6 2001 WSES International Conference on Simulation (SIM'01), Malta. (Feb. 2001, p. 251)

Sponsor: The World Scientific and Engineering Society (WSES); co-sponsored by HIEST (Highest Institute of Education, Science and Technology, Athens, Greece).

Information: For more details visit Website: <http://www.worldses.org/> or <http://wses.tripod.com/>.

1–6 Number Theory and Arithmetical Geometry—Arithmetic Aspects of Fundamental Groups, Acquafredda di Maratea (near Naples), Italy. (May 2001, p. 530)

Description: The conference will highlight recent progress in understanding arithmetic structures on algebraic fundamental groups of schemes and related topics. It will focus on number-theoretic aspects of the theory of algebraic fundamental groups of schemes, where much progress has been made in recent years. The main themes of the meeting will be: Arithmetic aspects of Galois groups, Algebraic fundamental groups of schemes, Galois action on fundamental groups, The anabelian program, Higher class field theory and generalizations, Motivic Galois groups, Motivic structures on fundamental groups. The conference is open to researchers worldwide, whether from industry or academia. Participation will be limited to 100.

Speakers (provisional): P. Débes (Lille, France), P. Deligne (IAS), I. Efrat (Beersheba, Israel), I. Fesenko (Nottingham, UK), J.-M. Fontaine

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

(Orsay, France); G. Frey (Essen, Germany); S. Goncharov (Brown, USA), Y. Ihara (RIMS, Japan), U. Jannsen (Regensburg, Germany), P. Lochak (ENS, France), M. Matsumoto (Keio U., Tokyo, Japan), H. Nakamura (Tokyo Metropolitan U., Japan), M. Raynaud (Orsay, France), M. Saïdi (Durham, UK), A. Schmidt (Heidelberg, Germany), L. Schneps (Paris VI, France), M. Spiess (Nottingham, UK), A. Tamagawa (RIMS, Japan), K. Wingberg (Heidelberg, Germany), Z. Wojtkowiak (Nice, France).

Deadline for Applications: May 11, 2001.

Information: <http://www.esf.org/euresco/>.

1–May 31 Institut Mittag-Leffler Call for Proposals, Djursholm, Sweden. (Sept. 2000, p. 979)

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 be present at all times during the period of the program.

Information: Proposals should be addressed to The Board, Institut

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 the AMS website on the World Wide Web. To access the AMS website, 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 the AMS website via Telnet ([telnet e-math.ams.org](telnet://e-math.ams.org); login and password e-math) and use the Lynx option from the main menu.)

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.

2-8 Optimal Transportation and Applications, Martina Franca (Taranto), Italy. (Apr. 2001, p. 438)

Sponsor: Fondazione C.I.M.E.

Scientific Direction: L. Caffarelli (Univ. of Texas, Austin), e-mail: caffarel@fireant.ma.utexas.ed; S. Salsa (Politecnico di Milano, Italy), e-mail: sansal@mate.polimi.it.

Courses: The Monge Ampere Equation, Optimal Transportation and Periodic Media (6 lectures), L. Caffarelli (Univ. of Texas, Austin), e-mail: caffarel@fireant.ma.utexas.ed; To be announced (6 lectures), L. C. Evans (Univ. of California, Berkeley), e-mail: evans@math.berkeley.edu; Shape Optimization Problems through Monge-Kantorovich Equation (4 lectures), G. Buttazzo (Univ. di Pisa), e-mail: buttazzo@dm.unipi.it; Geometric PDEs Related to Fluids and Plasmas (4 lectures), Y. Brenier (LAN-UPMC, Paris VI), e-mail: brenier@dmi.ens.fr; Mass Transportation Tools for Dissipative PDEs (4 lectures), C. Villani, e-mail: villani@brahma.ticam.utexas.edu.

Information: <http://www.math.unifi.it/~cime/>.

3-7 School on Foundational Theories in Mathematics, Faculty of Science, Povo (Trento), Italy. (Aug. 2001, p. 749)

Scientific Organizers: S. Baratella (Trento) and G. Sommaruga (Freiburg).

Lectures: J. L. Bell (Western Ontario), "Set Theory" and "Synthesis"; I. Moerdijk (Utrecht), "Topos Theory"; G. Sambin (Padova), "Constructive Type Theory".

Deadline for Applications: July 31, 2001.

Information: A. Micheletti, Secretary of CIRM, Centro Internazionale per la Ricerca Matematica, Istituto Trentino di Cultura, 38050 Povo (Trento), Italy; tel: +39-0461-881628; telefax: +39-0461-810629; e-mail: michelet@science.unitn.it; <http://www.science.unitn.it/cirm/>.

3-7 Workshop on Foundational Theories in Mathematics, Department of Mathematics, University of Trento, Italy. (June/July 2001, p. 627)

Organizers: S. Baratella (Trento), G. Sommaruga (Freiburg).

Topic: The aim of the workshop is to present three different theories for the foundations of mathematics and to discuss their specific strengths, their mutual relationships, the extent to which they are comparable, and the open problems to be tackled in order to gain an even deeper understanding of the philosophical and technical interrelations between the various theories as potential foundations of mathematics.

Program and Speakers: There will be four series of lectures on: Set Theory, J. L. Bell (Univ. of Western Ontario); Topos Theory, I. Moerdijk (Univ. of Utrecht); Constructive Type Theory, G. Sambin (Univ. of Padua); and Synthesis, J. L. Bell. The intended audience for this workshop is mathematicians, philosophers, and computer scientists with a solid background in logic but who will not be expected to have a background in all three foundational theories mentioned above.

Deadline: July 31, 2001. No registration fee.

Information: Visit <http://www.science.unitn.it/~baratell/ftm.html>.

3-8 The Sixth International Conference on Function Spaces, Institute of Mathematics, Wroclaw University of Technology, Wroclaw, Poland. (Mar. 2001, p. 337)

Organizer: Institute of Mathematics, Wroclaw Univ. of Technology.

Organizing Committee: M. Burnecki (secretary), R. Grzaslewicz (chair), H. Hudzik, J. Musielak, Cz. Ryll-Nardzewski.

Program: The topics are connected with functional analysis, e.g., operator theory, interpolation, geometry, topology, approximation in function spaces. There will be plenary lectures (about 45 min.) and short communications (not more than 20 min.).

Information: <http://www.im.pwr.wroc.pl/~fsp/>.

3-14 EuroWorkshop: Discrete Systems and Integrability, Isaac Newton Institute for Mathematical Sciences, Cambridge, UK. (Jun/Jul 2001, p. 627)

Organizers: F. W. Nijhoff, J. Hietarinta, P. M. Santini.

Topics: Partial difference equations, ordinary difference equations, integrable dynamical mappings, discrete Painlevé equations, quantum systems on the lattice, cellular automata, special functions and orthogonal polynomials, and applications. The purpose of the workshop is to provide a platform for presenting state-of-the-art results as well as to critically discuss open problems in the subject area.

Expected Speakers: V. Adler (Inst. of Math., Ufa), P. Clarkson (Univ. of Kent, Canterbury), R. Conte (Saclay), A. Doliwa (Warsaw Univ.), P. Hydon (Univ. of Surrey), N. Joshi (Univ. of Adelaide), K. Kajiwara (Doshisha Univ.), M. Kruskal (Rutgers Univ.), M. Noumi (Kobe Univ.), A. Ramani (École Polytech., France), S. Ruijsenaars (Amsterdam), J. Sanders (Free Univ., Amsterdam), J. Satsuma (Univ. of Tokyo), A. Shabat (Landau Inst.), V. Sokolov (Landau Inst.), C. Viallet (Univ. Paris VI).

Support: The EuroWorkshop is supported by the European Community, and funding is available to support a limited number of young (under 35 years of age) researchers and overseas senior researchers who are nationals of EC Member States or of the Associated States (Iceland, Liechtenstein, Norway, Bulgaria, Cyprus, Czech Republic, Estonia, Hungary, Latvia, Lithuania, Poland, Romania, Slovakia, Slovenia, Israel, Switzerland). Self-supporting participants of any age and nationality are welcome to apply.

Information: Visit the Web site <http://www.newton.cam.ac.uk/programs/TTS/itsw03.html>. Alternatively, information can be obtained from F. W. Nijhoff (frank@amsta.leeds.ac.uk).

3-21 School on Control Theory, Trieste, Italy. (Jan. 2001, p. 54)

Sponsors: Abdus Salam International Centre for Theoretical Physics.

Directors: A. Agrachev (SISSA, Trieste, and Steklov Math. Inst., Moscow, Russia), C. Lobry (CIMPA, Nice, France).

Deadline: March 31, 2001.

Information: Further details available by e-mail from smr1327@ictp.trieste.it.

3-21 Higher-Dimensional Varieties and Rational Points, Hungarian Academy of Sciences, Budapest, Hungary. (Mar. 2001, p. 337)

Cochairs: J.-L. Colliot-Thélène (Orsay) and J. Kollár (Princeton).

Local Organizers: K. Böröczky Jr. and T. Szamuely (Budapest).

Aim and Scope: The program is organized in order to encourage collaboration between specialists in higher-dimensional complex geometry and those studying arithmetic/diophantine questions. In recent years it has become apparent that the powerful geometric tools elaborated in connection with Mori's Minimal Model Program have applications over arithmetic ground fields as well. We hope that bringing together experts and graduate students specializing in higher-dimensional geometry or arithmetic will induce further cross-fertilization between the two fields and give rise to new powerful results. The main areas of research to be touched upon are: classification and minimal models of varieties, rationally connected varieties, rational and integral points, fundamental groups, and Galois groups.

Program: (1) During the first week (3-7 September) an instructional conference will take place featuring 6 speakers. Each of them will give a minicourse of 3 one-hour lectures. Roughly half of the courses will focus on geometric topics and the other half on arithmetic topics. They are intended to be accessible to graduate students and the other half to specialists. (2) The other two weeks (10-21 September) will be mainly devoted to research work of participants and informal discussions. There will also be a regular seminar featuring lectures on recent results by participants. The program will be elaborated in situ in order to be as up-to-date as possible. Tutorial sessions for graduate students are also planned.

Speakers: J.-L. Colliot-Thélène (Univ. de Paris-Sud), O. Debarre (IRMA, Strasbourg), B. Hassett (Rice Univ., Houston), J. Kollár

(Princeton Univ.), S. Kovács (Univ. of Washington, Seattle), E. Peyre (Institut Fourier, Grenoble).

Contact: arithgeo@renyi.hu.

Information: <http://www.renyi.hu/~arithgeo/homepage.html>.

4–7 **ECCOMAS 2001**, Swansea, UK. (Sept. 2000, p. 980)

Information: Pamela Bye, Conference Officer, The Institute of Mathematics and Its Applications, Catherine Richards House, 16 Nelson Street, Southend-on-Sea, Essex, SS1 1EF; tel: (01702) 354020; fax: (01702) 354111; e-mail: conferences@ima.org.uk; Web: <http://www.ima.org.uk/>.

6–8 **Current Geometry 2001**, Istituto Italiano di Studi Filosofici, Napoli, Italy. (Aug. 2001, p. 749)

Aim: To establish a periodic update about advances in both Italian and international geometry and their interactions with different areas, especially in theoretical physics.

Preliminary List of Speakers: F. Baldassarri, A. Bobenko, J.P. Bourguignon, F. Catanese, A. Corti (to be confirmed), R. Donagi, C. De Concini, B. Dubrovin (to be confirmed), K. Fukaya, L. Götsche, M. Kontsevich, J. Krasilshchik, Y. Manin (to be confirmed), A. Verra, O. Viro.

Information: A. M. Vinogradov, Università di Salerno, Dipartimento di Matematica e Informatica, Via S. Allende, 84081 Baronissi (Salerno); e-mail: curgeo@diffiety.ac.ru; fax: (+39) 089965226; tel: (+39) 089965395; Web: <http://diffiety.ac.ru/conf/curgeo01/index.html>.

9–13 **4th Dublin Differential Equations Conference**, Dublin City University, Dublin, Ireland. (Mar. 2001, p. 337)

Topics: The conference covers the theory, applications, and numerical solution of differential equations, and the interplay between these.

Principal Speakers: C. Budd (Bath), E. Delabaere (Angers), O. Diekmann (Utrecht), P. Glendinning (Manchester), S. Howison (Oxford), A. Il'in (Ekaterinburg), M. Lavrentiev (Novosibirsk), J. Ockendon (Oxford), R. O'Malley (Washington), G. Shishkin (Ekaterinburg).

Program: In addition to lectures from the invited speakers, other participants may give shorter contributed talks.

Information: <http://www.deconf.dcu.ie/> or Jürgen.Burzlauff@dcu.ie.

9–15 **Multiscale Problems and Methods in Numerical Simulation**, Martina Franca (Taranto), Italy. (Apr. 2001, p. 438)

Sponsor: Fondazione C.I.M.E.

Scientific Direction: C. Canuto (Politecnico di Torino, Italy), e-mail: ccanuto@polito.it.

Courses: Multilevel Methods in Finite Elements (6 lectures), J. H. Bramble (Texas A&M Univ.); Nonlinear Approximation and Applications (6 lectures), A. Cohen (Univ. Pierre et Marie Curie Paris VI); Wavelet Methods for Operator Equations (6 lectures), W. Dahmen (Institut für Geometrie und Praktische Mathematik, RWTH Aachen); Variational Multiscale Methods, Physical Models and Numerical Methods (6 lectures), T. J. R. Hughes (Stanford Univ.).

Information: <http://www.math.unifi.it/~cime/>.

10–14 **3rd IMACS Seminar on Monte Carlo Methods MCM2001**, Salzburg University, Austria. (Nov. 2000, p. 1298)

Scope: The purpose of this conference (which is the third in a series, the previous ones being held in Bruxelles and Varna) is to provide a forum for the presentation of recent advances in the analysis, implementation, and applications of Monte Carlo simulation techniques and, in particular, to stimulate the exchange of information between specialists in these areas.

Deadlines: April 27, 2001: Deadline for submission of extended abstracts (1,000 words); June 15, 2001: Notification of acceptance/rejection; Sept. 10–14, 2001: Conference; Oct. 26, 2001: Deadline for submission of full papers for conference proceedings (intended to be published as special issue of the IMACS journal *Mathematics and Computers in Simulation*).

Information: <http://mcm2001.sbg.ac.at/>, or to be on the mailing list and get further information, please send an e-mail message to mcm2001@cosy.sbg.ac.at.

10–14 **Workshop on Coding and Cryptography**, Institute for Mathematical Sciences, National University of Singapore, Singapore. (May 2001, p. 530)

Organizing Committee: S.-P. Chan (Singapore), R. Deng (Singapore), S. Ling (Singapore), H. Niederreiter (Singapore, chair), E. Okamoto (Japan), I. E. Shparlinski (Australia), N. J. A. Sloane (USA), C. P. Xing (Singapore).

Description: The workshop is part of the inaugural program of the Institute for Mathematical Sciences on coding theory and data integrity which will run from July to December 2001. There will be invited talks and shorter contributed talks. Specific topics include (but are not limited to) constructions of codes, asymptotic theory of codes, decoding algorithms, public-key cryptosystems, digital signature schemes, authentication schemes, applications of curves and codes to cryptography, and lattice-based cryptology.

Call for Papers: Authors of contributed papers should e-mail an abstract of 300–500 words to H. Niederreiter (nied@math.nus.edu.sg) by June 22, 2001. Authors of accepted papers will be notified by July 6, 2001.

Information: <http://www.ims.nus.edu.sg/programs/coding.html>.

12–15 **EuroConference on Combinatorics, Graph Theory and Applications**, Centre de Recerca Matemàtica, Bellaterra, Barcelona, Spain. (Apr. 2001, p. 438)

Invited Speakers: N. Alon, Tel Aviv Univ.; P. Cameron, Queen Mary and Westfield College; D. Eppstein, Univ. of California; L. Khachatryan, Univ. of Bielefeld; J. Matousek, Charles Univ.; K. Phelps, Auburn Univ.; V. T. Sós, Alfred Rényi Inst. of Mathematics; C. Thomassen, Technical Univ. of Denmark; N. Wormald, The Univ. of Melbourne.

Information: <http://www.crm.es/comb01/>.

12–15 **International Conference on Nonlinear Operators, Differential Equations, and Applications (ICNODEA-2001)**, Babes-Bolyai University of Cluj-Napoca, Faculty of Mathematics and Informatics, Cluj-Napoca, Romania. (Apr. 2001, p. 438)

Conference Objective and Structure: The purpose of this conference is to get together experts in nonlinear analysis and to promote contacts between Romanian mathematicians and mathematicians from all over the world in order to discuss recent advances in the field. The program will consist of invited lectures, contributed papers, and a poster session. Papers related to the following topics are appropriate for submission to the conference: fixed point theory, ordinary differential equations, nonlinear integral equations, partial differential equations, analysis of multivalued mappings, applications to optimization, biomathematics and economics, approximation and numerical methods.

Correspondence and Information: All correspondence related to the conference should be addressed to: R. Precup or A. Petrusel, Babes-Bolyai University of Cluj-Napoca, Department of Applied Mathematics, I, M. Kogalniceanu street, 3400 Cluj-Napoca, Romania; e-mail: nodeacj@math.ubbcluj.ro; fax: ++40 64 191906.

14–18 **Function Spaces, Proximities and Quasi-Uniformities**, Caserta, Italy. (June/July 2001, p. 627)

Program: The conference will consist of 50-min. plenary lectures by invited speakers and 25-min. contributed talks. It will open with a special invited lecture by Som Naimpally on the occasion of his 70th birthday.

Invited Speakers: A. Arhangel'skii (New Mexico, USA - Univ. Moscow, Russia); U. B. Darji (Univ. Louisville, USA); P. de Lucia (Federico II, Naples); S. Dolecki (Univ. di Digione, France); J. Hocking (Michigan State Univ., USA); L. Hla (Accademia delle Scienze della Repubblica Slovacca, Rep. Slovakia); H.-P. Kunzi (Univ. Cape Town, So. Africa); R. Lowen (Univ. di Antwerp, Belgium); J. Pelant (Acad. delle Scienze, Prague, Czech Rep.); S. Watson (York Univ., Toronto, Canada).

Call for Papers: Participants are invited to present a 25-min. talk. They are invited to submit an abstract to topological.sun@unina2.it no later than June 30, 2001.

Deadlines: Registration and payment of conference fees: May 31, 2001. Reservation of hotel accommodations: May 31, 2001. Abstract submission: June 30, 2001. Registration, accommodations, forms and the submission of abstracts must be mailed to topological.sun@unina2.it.

Information: G. Di Maio-Topological SUN, Seconda Università degli Studi di Napoli-S.U.N., Facoltà di Scienze MM.FF.NN., Dipartimento di Matematica, Via Antonio Vivaldi, 43, 81100 Caserta, Italia; tel: +39+(0)823/274426; fax: +39+(0)823/274753; <http://www.unina2.it/topological.sun/homesun.html>.

17-21 Euroconference on Asymptotic Methods and Applications in Kinetic and Quantum-Kinetic Theory, Granada, Spain. (June/July 2001, p. 627)

Sponsors: European Commission, Spanish Government, Junta de Andalucía, Universidad Carlos III de Madrid, Universidad Autónoma de Madrid, Universidad de Granada.

Program: The program of the conference will offer invited talks, contributed talks, and a poster session. Talks and posters will be selected by the scientific committee from submitted abstracts. Submission: kinetic@ugr.es. Deadline for submission: May 31, 2001; Notification of acceptance: June 20, 2001.

Invited Speakers (to date): H. Andreasson, A. Bobylev, O. Bokanowski, L. Boudin, J. Brey, E. Caglioti, A. Carpio, M. Carvalho, F. Castella, I. Catto, C. Cercignani, L. Desvillettes, J. Dolbeault, M. Fischetti, I. Gamba, V. Garzo, P. Gerard, R. Glassey, F. Golse, T. Goudon, K. P. Hadeler, R. Illner, P.E. Jabin, A.P. Jauho, A. Juengel, A. Klar, H. Lange, C. LeBris, A. Linan, S. Mischler, E. Oran, G. Papanicolau, L. Pareschi, P. Pietra, F. Poupaud, M. Pulvirenti, V. Ricci, C. Ringhofer, C. Rosier, G. Russo, L. Saint-Raymond, P. Souganidis, W. Strauss, L. Vega, J. L. L. Velazquez, C. Villani, B. Wennberg, G. Wolansky, W. Zimmermann.

Information: J. Soler, Universidad de Granada (jsoler@ugr.es, kinetic@ugr.es).

17-26 Functional Analysis VII, Inter-University Center, Dubrovnik, Croatia. (Apr. 2001, p. 438)

Program: Functional Analysis VII is a conference and a postgraduate school on functional analysis with several more or less independent parts dealing with various aspects of functional analysis (see workshop topics). The program will include a series of lectures, single lectures, and short communications.

Workshop Topics: Operator algebras, representation theory, probability theory, harmonic analysis.

Organizer: Department of Mathematics, University of Zagreb, Croatia.

Speakers: A tentative list can be found on the Web page.

Deadlines: April 1, 2001, to register and submit abstract.

Information: <http://www.math.hr/~congress/Dubrovnik01/>; e-mail: congress@math.hr.

18-22 Euro Summer School on Proper Group Actions, Centre de Recerca Matemàtica, Bellaterra, Barcelona, Spain. (Apr. 2001, p. 438)

Speakers: G. Mislin, ETH Zürich; and A. Valette, Univ. de Neuchâtel.

Information: <http://www.crm.es/group-actions/>.

18-22 The Fifth International Workshop on Differential Geometry and Its Applications, Timisoara, Romania. (Feb. 2001, p. 251)

Invited Speakers: (confirmed until the end of October, 2000): W. Bertram (France), M. Bordoni (Italy), K. Buchner (Germany), P. Gauduchon (France), C. S. Gordon (USA), M. Goze (France), T. Hangan (France), E. Macias Virgos (Spain), S. Marchiafava (Italy), P. T. Nagy (Hungary), J.-P. Ortega (Switzerland), T. Pirashvili (Georgia), Th. M. Rassias (Greece), T. S. Ratiu (Switzerland), K. Richardson (USA), A. Savo (Italy), D. Schueth (Germany), L. Vanhecke (Belgium).

Organizers: M. Craioveanu, West University of Timisoara, e-mail: craiov@math.uvt.ro; R. Iordanescu, Institute of Mathematics of the Romanian Academy, Bucharest, e-mail: Radu.Iordanescu@imar.ro;

M. Puta, West University of Timisoara, e-mail: puta@math.uvt.ro; D. Acu, ASTRA Association, e-mail: dacu@science.sibiu.ro.

19-22 International Conference on Algebraic Geometry and Singularities (in Honour of Professor José Lui Vicente Córdoba on His 60th Birthday), University of Sevilla, Sevilla, Spain. (Aug. 2001, p. 749)

Information: <http://www.us.es/da/>.

20-22 5th Hellenic European Research on Computer Mathematics and Its Applications—HERCMA 2001, Athens, Greece. (June/July 2001, p. 628)

Sponsor: IMACS.

Framework-Objectives: The main theme within the conference will be computer mathematics and its applications, and special emphasis will be given to computational mathematics, high-performance computing, operational research and statistics, mathematics in economics and industry.

Information: E. A. Lipitakis, Chairman of the HERCMA Conference, Athens University of Economics and Business, 74, Patission Street, Athens 104-34, Greece; tel: 301-8237-361; fax: 301-8226-204; e-mail: eal@aub.gr; <http://www.aueb.gr/conferences/hercma2001/>.

20-22 Interphase 2001 Conference on Numerical Methods for Free Boundary Problems, University of Maryland, College Park, Maryland. (June/July 2001, p. 628)

Organizers: R. H. Nochetto, D. Levermore, J.-G. Liu, R. Pego.

Description: This ninth conference of the series will be held in College Park with the intention of encouraging more participation of U.S. researchers and stimulating the exchange of ideas between American and European peers. The conference will focus on scientific computing, numerical analysis, modeling and application issues of problems involving interfaces. Topics of interest include but are not limited to: thin films, epitaxial growth of crystals, surface tension effects and surface diffusion, morphological changes of stressed solids, microstructure evolution, solidification, image processing, free surface hydrodynamics, novel numerical methods, fast algorithms, and numerical analysis.

Invited Speakers: A. Bertozzi, J. Blowey, F. Bornemann, P. Colli-Franzone, K. Deckelnick, G. Dolzmann, G. Dziuk, W. E. C. Elliott, H. Garcke, K. Gaertner, P. Gremaud, G. Gruen, T. Hou, D. Kinderlehrer, R. Kohn, R. Kornhuber, R. Le Veque, B. Li, J. Lowengrub, M. Luskin, J. McFadden, S. Osher, C. Peskin, A. Quarteroni, A. Schmidt, J. Sethian, M. Shelley, K. Siebert, P. Smereka, W. Szymczak, A. Veiser, C. Verdi, P. Voorhees, N. Walkington, J. Weeks.

Scientific Committee: E. Baensch (Berlin, Germany), G. Dziuk (Freiburg, Germany), C.M. Elliott (Brighton, England), R.H. Nochetto (College Park, USA), J. Sprekels (Berlin, Germany), C. Verdi (Milano, Italy).

Information: <http://www.math.umd.edu/research/interphase/>

* **20-24 Xth Oporto Meeting on Geometry, Topology and Physics**, Faculty of Sciences, Univ. of Oporto, Portugal.

Main Speakers and Titles: J. Barrett (Nottingham), Quantum gravity and the Lorentz group; V. Jones (Berkeley), Two subfactors; S. Sawin (Fairfield), Turaev-Viro theory and TQFTs with corners; T. S. Tsun (Oxford), Generalized electric-magnetic duality and the dualized standard model; B. Westbury (Warwick), A unified representation theory for simple Lie algebras.

Organizers: J. N. Tavares (Univ. Oporto), J. Mourao (IST, Lisbon), R. Picken (IST, Lisbon).

Information: J. N. Tavares, Faculdade de Ciências da Universidade do Porto, Praca Gomes Teixeira, 4099-002 Porto, Portugal; tel: +351-22-3401446, +351-22-3401400; fax: +351-22-3401453; <http://www.fc.up.pt/mp/actividades/om.html>.

Deadline: For registration and support: July 15, 2001.

21-24 Ph.D. EuroConference Foundations of the Formal Sciences III (FotFS III): Complexity in Mathematics and Computer Science, Universität Wien, Wien, Austria. (Jun/Jul 2001, p. 628)

Organizing & Scientific Committee: B. Löwe (Bonn, coordinator), B. Piwinger (Wien, local organizer), T. Räsch (Potsdam).

Speakers: P. Berenbrink (Warwick), J. Brendle (Kobe), R. Camerlino (Wien), L. Engebretsen (Cambridge, MA), M. Grohe (Edinburgh), J. D. Hamkins (New York), E. M. Camara (Zaragoza), S. Mikulas (London), R.-D. Schindler (Wien), H. Veith (Wien), J. Zapletal (Gainesville, FL).

Information: e-mail: fotfs@math.uni-bonn.de; <http://www.math.uni-bonn.de/people/fotfs/III/>.

22–23 International Conference on Optimization Techniques & Its Applications in Engineering and Technology, Agra, India. (June/July 2001, p. 628)

Theme: An international conference will be held to celebrate the 149th birthday of Raja Balwant Singhji. Papers on optimization techniques and its applications in modern industry, engineering, and technology with adequate mathematical input/applications are invited. Conference topics include: applied mathematics, electronics and communications, information technology, computer applications, artificial intelligence, chemical engineering, statistical signal processing, resource planning, variational and equilibrium problems, economic and financial decision making.

Information: Information about the conference can be obtained from: S. K. Mishra (Org. Secretary), Dept. of Mathematics, Faculty of Eng. & Tech., R.B.S. College, Bichpuri, Agra (283105), India; tel: +91 (0562) 776675; fax: +91 (0562) 520075; e-mail: shashikMishra@usa.net.

22–26 Application of Discrete Mathematics, Australian National University, Canberra, Australia. (Feb. 2001, p. 251)

Description: “Applications of Discrete Mathematics” will be a special session of the 45th Annual Meeting of the Australian Mathematical Society at the Australian National University in Canberra, Australia, Saturday, Sept. 22 (noon), until Wednesday evening, Sept. 26.

Information: Visit <http://www.maths.anu.edu.au/conferences/AustMS2001/>.

24–26 ECCOMAS 2001, Keble College, Oxford, UK. (Sept. 2000, p. 980)

Information: Pamela Bye, Conference Officer, The Institute of Mathematics and Its Applications, Catherine Richards House, 16 Nelson Street, Southend-on-Sea, Essex, SS1 1EF; tel: (01702) 354020; fax: (01702) 354111; e-mail: conferences@ima.org.uk; Web: <http://www.ima.org.uk/>.

24–28 Fourth European Conference on Elliptic and Parabolic Problems—Part II, Gaeta, Italy. (Jan. 2001, p. 54)

Organizing Committee: J. Bemelmans (Aachen), B. Brighi, A. Brillard (Mulhouse), M. Chipot (Zurich), F. Conrad (Nancy), I. Shafrir (Haifa), V. Valente (IAC, Rome), G. Vergara-Caffarelli (Rome).

Presentation: Starting this year, the former Pont-a-Mousson meeting will be split into two conferences. The second one, with more emphasis on applications, will take place in Gaeta, Italy. (The first one, devoted to more theoretical aspects, took place in Rolduc, Netherlands, June 18–22, 2001.)

Conference Topics: Besides elliptic and parabolic issues the topics of the conference include geometry, free boundary problems, fluid mechanics, evolution problems in general, calculus of variations, homogenization, control, modeling, and numerical analysis.

Invited Speakers: H. Amann (Zurich), C. Baiocchi (Rome), J. Ball (Oxford), A. Bermudez (Santiago), M. Bertsch (Rome), C. M. Brauer* (Bordeaux), A. Capuzzo-Dolcetta* (Rome), J. Escher (Hannover), E. Ferrel (Prague), A. Friedman (Minneapolis), G. Geymonat (Montpellier), W. Hackbusch (MIP), A. Henrot* (Nancy), M. Iannelli* (Trento), M. Mimura (Hiroshima), P. Podio-Guidugli (Rome), J. Rubinstein (Haifa), E. Sanchez-Palencia (Paris), S. Sauter* (Zurich), A. Sequeira (Lisbon).

Program: In addition to the main lectures, parallel sessions of short communications will be organized. In particular, thematic sessions will be organized by the starred names in the above list.

Deadlines: The deadline for submitting an abstract is April 1, 2001.

Information: e-mail: gaeta@math.unizh.ch, <http://www.math.unizh.ch/rolducgaeta/>.

24–28 Vertical Integration in Biology: From Molecules to Organisms, Isaac Newton Institute, Cambridge, UK. (May 2001, p. 530)

Themes: Biological systems exhibit prominent behavior at the levels of both individuals and populations. Empirical and theoretical research at each of these levels has led to tremendous advances in knowledge; however, much less is understood about the mechanisms underlying the integration and coordination of behaviour at the individual level to produce coherent population-level behaviour (vertical integration). This workshop will bring together leading experimental and theoretical researchers, together with those working at the interface between the two communities. The aim will be to identify and explore new interdisciplinary approaches to the problem of vertical integration.

Confirmed Speakers: R. Adams (Bath), F. Ashcroft (Oxford), D. Bray (Cambridge), G. Forgacs (Missouri), T. Hofer (Berlin), P. Hunter (Auckland), J. Jack (Oxford), R. Keller (Virginia), P. Kulesa (Caltech), M. Levine (Berkeley), J. Lewis (London), A. McCulloch (San Diego), D. Noble (Oxford), J. Reintz (New York), J. Sherratt (Edinburgh), K. Weijer (Dundee).

Location and Cost: The workshop will take place at the Newton Institute, and accommodations for participants will be provided in single study bedrooms with shared bathrooms at Wolfson Court, a hall of residence adjacent to the institute. The workshop package costs £250, which includes registration fee, accommodations, breakfast, dinner, lunches, and refreshments on the days that lectures take place.

Further Information and Application Forms: These are available from the WWW at <http://www.newton.cam.ac.uk/programs/ICB/icbw01.html>, where further information about the workshop will be posted and updated. Completed application forms should be sent to M. Clark at the above address or via e-mail to m.clark@newton.cam.ac.uk.

Scientific Enquiries: May be addressed to N. Monk (n.monk@sheffield.ac.uk) or P. Maini (maini@maths.ox.ac.uk).

Deadline: For receipt of applications is April 30, 2001.

24–30 11th International Symposium on Classical Analysis, Kazimierz Dolny, Poland. (Dec. 2000, p. 1437)

Topics: Several complex variables (especially L^2 -methods), Riemannian and Hermitian geometry, spectral theory in Hilbert spaces, probability, and mathematical physics. Particular consideration will be given to the interrelation of ideas from different areas and to promotion of wider knowledge of some important classical theories.

Program: The scientific program will consist of plenary lectures and thirty 45-min. scientific communications in English. The president of Scientific Committee is M. Skwarczyński.

Information: T. Mazur, Technical University, Dept. of Math., Malczewskiego 29, 26-600 Radom, Poland; fax: (4848)26333 or (4848)23969; e-mail: mazurt@kiux.man.radom.pl or krupa@alpha.sggw.waw.pl.

25–29 Algebraic Geometry Conference, University of Genova, Italy. (Apr. 2001, p. 438)

Conference Topics: The conference (in memory of Paolo Francia) is focused on classification of algebraic varieties, Mori’s theory and Minimal Model Program, surfaces of general type (the research fields of P. Francia), and related topics.

Information: <http://www.dima.unige.it/STAFF/BELTRAME/convegno.pdf/>; e-mail: beltrame@dima.unige.it, or pedrini@dima.unige.it.

26–28 ASCM 2001 (The Fifth Asian Symposium on Computer Mathematics), Ehime University, Matsuyama, Japan. (Jan. 2001, p. 54)

Program: ASCM 2001 will provide an international forum for active researchers to review the current state of the art and trends, to report research results and progress, and to exchange ideas for future

developments on computer mathematics. Research papers on all aspects of the interaction between computers and mathematics are solicited for the symposium. Specific topics include but are not limited to: Symbolic, algebraic, and geometric computation; Automated mathematical reasoning; Computer-aided problem solving and instruction; Computational algebra and geometry; Symbolic/numeric hybrid methods; Parallel/distributed/network computing; Applications in CAGD/CAD, robotics, and computer vision; Mathematical software design and implementation. The symposium will consist of plenary sessions by invited speakers, regular sessions of contributed papers, and software demonstration.

Information: M.-T. Noda, General Chair of ASCM 2001: Department of Computer Science, Ehime University, Matsuyama 790-8577 Japan; e-mail: ascm2001@hpc.cs.ehime-u.ac.jp; <http://www.mmrc.iss.ac.cn/~ascm/>; <http://www.hpc.cs.ehime-u.ac.jp/~ascm/>.

26-28 First SIAM Conference on Imaging Science, Boston Park Plaza Hotel, Boston, Massachusetts. (Feb. 2001, p. 251)

About the Conference: Current developments in the technology of imaging have led to an explosive growth in the interdisciplinary field of imaging science. With the advent of new devices capable of seeing objects and structures not previously imagined, the reach of science and medicine have been extended in a multitude of different ways. The impact of this technology has been to generate new challenges associated with the problems of formation, acquisition, compression, transmission, and analysis of images. By their very nature, these challenges cut across the disciplines of physics, engineering, mathematics, biology, medicine, and statistics. While the primary purpose of this conference is to focus on mathematical issues, the biomedical aspects of imaging will also play an important role.

This conference represents the first official function organized by the newly formed SIAM Activity Group on Imaging Science (SIAG/IS). This SIAG and the SIAG on the Life Sciences were both created in recognition of the fact that the mathematics community should participate more directly in these nontraditional areas. Since these two activity groups have such a strong overlap in the area of biomedical imaging, this conference has been scheduled to overlap with the Conference on the Life Sciences, chaired by James Collins, set for September 24-26, 2001.

Conference Themes: Imaging Acquisition and Formation, Image Storage, Compression, and Retrieval, Imaging Coding and Transmission, Imaging Processing, PDEs in Image Processing, Image Modeling and Analysis, Image Restoration, Statistical Aspects of Imaging, Biomedical Imaging, Applications.

Invited Plenary Speakers: Electromagnetic Inverse Problems: M. Cheney, Rensselaer Polytechnic Institute; Mathematical Morphology and Genomic Regulation: E. Russell Dougherty, Texas A&M Univ.; Sparse Geometrical Image Representations for Processing: S. Mallat, Ecole Polytechnique, France, and Courant Institute of Mathematical Sciences, New York Univ.; Stochastic Models for Natural Images: D. Mumford, Brown Univ.; Level Set/PDE Based Algorithms for Image Restoration, Surface Interpolation and PDEs on Manifolds: S. Osher, Univ. of California, Los Angeles.

Minisymposia: A minisymposium is a two-hour session consisting of four presentations on a well-focused topic. A number of minisymposia have been solicited by the conference Organizing Committee to supplement the conference themes. The Organizing Committee also encourages proposals for minisymposia in areas related to the conference themes. Prospective minisymposium organizers are asked to submit a proposal consisting of a title, a description (not to exceed 100 words), and a list of speakers and titles of their presentations using the Conference Management System available at: <http://www.siam.org/meetings/is01/part.htm>. Deadline for submission of minisymposium proposals is: March 2, 2001.

Contributed Presentations in Lecture Format: Contributed presentations in lecture format are invited in all areas of imaging science consistent with the conference themes. A lecture format involves a 15-minute oral presentation with an additional five minutes for discussion. Deadline for submission of contributed abstracts for a lecture or poster: April 6, 2001.

Contributed Presentations in Poster Format: A poster presentation consists of the use of visual aides on a 4' x 6' poster board presented in a two-hour informal session that allows presenters to discuss their research with attendees.

Electronic Submission: Every presenter of a contributed or poster presentation must submit a 75-word abstract, which must be sent electronically using the Conference Management System available at: <http://www.siam.org/meetings/is01/part.htm>. The 75-word abstract will appear in the final program.

Information: ross@siam.org.

26-28 Fluid Structure Interaction 2001, Halkidiki, Greece. (Jan. 2001, p. 54)

Organizer: Wessex Institute of Technology, UK.

Abstract Deadline: January 13, 2001.

Contact: Conference Secretariat, Fluid Structure Interaction 2001, Wessex Institute of Technology, Ashurst Lodge, Ashurst, Southampton, SO40 7AA, UK; tel: 44(0) 238 029 3223; fax: 44 (0) 238 029 2853; e-mail: gcossutta@wessex.ac.uk; <http://www.wessex.ac.uk/conferences/2001/fsi01/>.

26-28 International Conference "Differential Equations and Their Applications", Institute of Mathematics, Almaty, Republic of Kazakhstan. (June/July 2001, p. 628)

Organizers: Institute of Mathematics of Education and Science Ministry of the Republic of Kazakhstan.

Organizing Committee: U. M. Sultangazin (Kazakhstan, co-chair), A. M. Samoilenko (Ukraine, co-chair), S. N. Kharin (Kazakhstan-Pakistan, co-chair), N. K. Blied (Kazakhstan), A. A. Zhensykbayev (Kazakhstan), Ki Sik Ha (Korea), L. D. Kudryavtsev (Russia), B. Kendirli (Turkey), M. I. Imanaliev (Kyrgyzstan), M. S. Salakhitdinov (Uzbekistan), R. Kh. Rozov (Russia), V. M. Amerbayev (Russia), I. T. Pak (Kazakhstan), K. K. Kenzhebeyev (Kazakhstan), K. A. Kasymov (Kazakhstan), M. O. Otelbayev (Kazakhstan), M. I. Rakhimberdiev (Kazakhstan), D. S. Dzhumabayev (Kazakhstan), M. T. Dzhenaliev (Kazakhstan), L. A. Alexeyeva (Kazakhstan), G. I. Bizhanova (Kazakhstan), G. K. Zakiryanova (Kazakhstan, scientific secretary).

Program: The conference is organized in sessions as Differential Equations and Mathematical Physics.

Deadlines: For submission of applications is April 10, 2001; for submission of theses, June 20, 2001.

Information: Information on the conference is on the Web site http://www.math.kz/info/diffeq_conf.html. Z. G. Kozhahmetovna, Institute of Mathematics of the ME&S of the RK, Pushkin street, 125, Almaty 480100, Kazakhstan; tel: +7(3272) 913764; fax: +7(3272) 913740; e-mail: zakir@math.kz.

27-30 WSES Conference AITA 2001: Automation and Information: Theory and Applications, Skiathos Island, Greece. (June/July 2001, p. 628)

Information: <http://www.worldses.org/wses/conferences/skiathos/aita/>.

28-30 Workshop on Mathematical Modeling and Scientific Computation, Fredericton, New Brunswick, Canada. (Aug. 2001, p. 749)

Program: The aim of this workshop is to bring together mathematical modelers and computational scientists working in a wide range of applications and to highlight the state-of-the-art computational techniques driving the progress of research in these fields. The workshop will be organized around applications from four areas: (1) biology, (2) finance, (3) fluid dynamics, (4) relativistic physics.

Organizers: V. Husain, J. Stockie, and J. Watmough.

Information: <http://www.math.unb.ca/~masc01/>; e-mail: masc01@math.unb.ca.

October 2001

* 1-3 **2nd International Symposium on PLS and Related Methods**, Island of Capri (Naples), Italy.

Description: This is an exceptional event where the most outstanding experts in PLS methods from all over the world will meet. The state-of-the-art in PLS methods will be presented as well as

the most recent developments and the most challenging advances demanded for the future of PLS by the application areas of: (1) multivariate modelling of a process; (2) improvement and optimization of industrial production performances (agro-alimentary, cosmetics, chemical, petrol, etc.); (3) quantification of relations between chemical structures and biological activities, etc.; (4) evaluation of customer satisfaction and related issues.

Invited Lecturers: B. Abraham, Canada; G. Dijksterhuis, The Netherlands; H. Martens and M. Martens, Denmark; M. Forina, Italy; I. Helland, Norway; S. de Jong, The Netherlands; N. Kettaneh-Wold and S. Wold, Sweden; A. Langsrud and T. Nös, Norway; D. L. Massart, Belgium; A. Phatak, Australia.

Information: e-mail: binici@unina.it, or visit <http://www.dms.unina.it/PLS2001.html>.

1-5 Aspects of Hyperbolic Geometry, University of Fribourg, Fribourg, Switzerland. (May 2001, p. 530)

Description: There will be about 22 invited talks covering a wide range of hyperbolic geometry.

Scientific Board: C. Bavard (Univ. of Bordeaux I), G. Besson (Univ. of Grenoble I), R. Kellerhals (Univ. of Fribourg), V. Schroeder (Univ. of Zürich).

Information: e-mail: hyp-geom@unifr.ch or <http://www.unifr.ch/math/conference/>.

1-5 International Conference on Numerical Algorithms, Dedicated to Claude Brezinski on the occasion of his 60th birthday, Marrakesh, Morocco. (Oct. 2000, p. 1146)

Organizing Committee: B. Beckermann (Univ. of Lille I, France), A. Bentbib (Faculty of Sciences and Technologies, Marrakesh, Morocco), B. Germain-Bonne (Univ. of Lille I, France), J.-P. Chehab (Univ. of Lille I, France), M. El Alaoui-Talibi (Faculty of Sciences Semlalia, Marrakesh, Morocco), A. Fdil (ENS, Marrakesh, Morocco), A. Lembarki (Faculty of Sciences Semlalia, Marrakesh, Morocco), M. Prévost (Univ. of Littoral, Calais, France), A. Matos (Univ. of Lille I, France), A. Messaoudi (ENS, Rabat, Morocco), M. Redivo-Zaglia (Univ. of Calabria, Cosenza, Italy), R. Sadaka (ENS, Rabat, Morocco), H. Sadok (Univ. of Littoral, Calais, France), J. Van Iseghem (Univ. of Lille I, France).

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.

Deadline: For abstracts: May 1, 2001.

Information and Registration: A Web site containing all the information about this conference and a registration form 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.

1-6 Workshop: Circuit and Proof Complexity, International Centre for Mathematical Sciences, Edinburgh, UK. (June/July 2001, p. 628)

Information: Please see the ICMS Web pages for further details on programme, speakers, registration, etc.: <http://www.ma.hw.ac.uk/icms/current/>.

* **5-9 Trends in Banach Spaces and Operator Theory**, The University of Memphis, Memphis, Tennessee.

Sponsors: National Science Foundation, The University of Memphis, and The University of Mississippi.

Organizing Committee: J. Jamison, A. Kamińska, P.-K. Lin (Univ. of Memphis), P. Kranz (Univ. of Mississippi).

Principal Speakers: Y. Abramovich (Indiana Univ.-Purdue, Indianapolis), S. Axler (San Francisco State Univ.), J. B. Conway (Univ. of Tennessee, Knoxville), C. C. Cowen (Purdue Univ.), J. Diestel (Kent State Univ. in Kent, Ohio), N. Kalton (Univ. of Missouri in Columbia), B. MacCluer (Univ. of Virginia in Charlottesville), E. W. Odell (The Univ. of Texas at Austin), A. Pełczyński (Polish Academy of Sciences in Warsaw, Poland), G. Pisier (Univ. de Paris VI, Texas A&M Univ.), H.

Rosenthal (The Univ. of Texas at Austin), T. Berthold Schlumprecht (Texas A&M Univ. in College Station), N. Tomczak-Jaegermann (Univ. of Alberta in Edmonton, Canada).

Topics: A variety of topics in Banach spaces and operator theory, including: isomorphic and isometric theory of Banach spaces, Banach lattices, interpolation theory, Banach and Hilbert spaces of analytic functions, spaces of measurable functions, the geometry of finite- and infinite-dimensional convex bodies, C^* -algebras, linear spaces and algebras of operators, weighted-composition, Hankel and Toeplitz operators, normal and subnormal operators on Hilbert spaces.

Information: The principal speakers will deliver one-hour plenary lectures. Twenty-minute contributed talks will be organized in parallel sessions. Partial funding for advanced graduate students and beginning researchers may be available through the organizers. For further information on the conference organization, registration, location, lodging, submission of abstracts and other details, visit the conference website at <http://www.mscl.memphis.edu/banachconf.html>.

13-14 AMS Eastern Sectional Meeting, Williams College, Williamstown, Massachusetts. (Sept. 1997, p. 1031)

Information: W. Drady, wsd@ams.org.

* **15-19 International Conference on Arithmetic Geometry**, Korea Institute for Advanced Study, Seoul, Korea.

Organizer: M. Kim (KIAS and the Univ. of Arizona).

Confirmed Speakers: F. Oort (Utrecht), A. Abbes (Paris-Nord), M. Bhargava (Princeton), S. Bloch (Chicago), K. Joshi (TIFR), G. Kings (Muenster), B. Moonen (Amsterdam), A. Ogus (Berkeley), T. Saito (Tokyo), A. Tamagawa (Kyoto).

Support: Limited support available for participation by students and recent Ph.D.'s. Apply by September 1.

Information: For further information, contact the organizer at mkim@kias.re.kr.

* **18-21 (NEW INFORMATION) 2001 Ahlfors-Bers Colloquium**, University of Connecticut at Storrs. (Apr. 2001, p. 439)

Program: The colloquium will consist of a one and one-half day workshop followed by two and one-half days of plenary lectures. Workshops will depend on colloquium participants and their interests. R. Canary will organize one workshop which will cover deformations of Kleinian groups and link with the lectures of Brock, Bromberg and his own. Others will be announced at the Web site for the colloquium: <http://www.math.uconn.edu/~abcolloq/>.

Areas of Attention: The general subject matter of the colloquium follows, in the broadest sense, the tradition set by Lars Ahlfors and Lipman Bers. The subject areas will be Riemann surfaces, Kleinian groups, Teichmüller theory, theta and entire functions and other areas of mathematics that interact with the core areas of geometric function theory.

Plenary Lecturers: J. Brock, K. Bromberg, D. Canary, A. Eremenko, J. Heinonen, M. Kapovich, V. Markovic, H. Masur, O. Schramm, C. Series, E. Taylor.

Organizing Committee: W. Abikoff (chair), A. Basmajian, R. Canary, C. Earle, F. Gardiner, F. Gehring, A. Haas, I. Kra, A. Marden and B. Maskit.

Support: It is expected that partial support will be available for participants.

Information: Further details may be found at <http://www.math.uconn.edu/~abcolloq/>.

* **19-20 Midwest Probability Colloquium**, University of Chicago, Chicago, Illinois.

Organizer: S. Lalley, Department of Statistics, Univ. of Chicago.

Program: C. Tracy (Univ. of California, Davis), two lectures; J. Rosinski (Univ. of Tennessee), one lecture; Q.-M. Shao (Univ. of Oregon), one lecture. On Thursday, October 18, there will be a workshop on random matrices.

Information: Further details of the program will be posted on the conference Web page when they become available. The Web page

also has links to maps and other information about the Univ. of Chicago, the city of Chicago, and the Lakeshore Ramada. The address of the conference Web page is <http://www.math.nwu.edu/mwp/>; or contact S. Lalley, tel: 773-902-9890, fax: 773-902-9810.

***22-27 International Conference on Stochastic Analysis and Applications**, Hammamet, Tunisia.

Organizers: R. Boukhris (Tunis), R. Hachaichi (Tunis), R. Gannoun, H. Ouerdiane (Tunis), A. Rezgui (Bizerte), H. Sadraoui (Tunis), L. Silva (Madeira).

Topics: Infinite dimensional analysis, Dirichlet forms, quantum fields, quantum probability, statistical mechanics, Gaussian and non-Gaussian analysis, Feynman path integrals, stochastic partial differential equations, stochastic analysis and financial markets, analytic and stochastic techniques in physics, mathematical modelling.

Information: <http://www.uma.pt/ccm/icsaa-2001.html>.

24-26 DIMACS Workshop on Analysis of Gene Expression Data, DIMACS Center, Rutgers University, Piscataway, New Jersey. (Feb. 2001, p. 252)

Short Description: The gene expression array is a significant new technology aimed at providing a top down picture of the intimate genetic processes of an organism. It allows quantification of transcription levels of large numbers of genes simultaneously. There remain unsolved image processing as well as computational and mathematical difficulties associated with extraction and validation of data from gene expression microarray assays. This workshop will address the research areas and problems associated with this topic.

Sponsors: DIMACS Center.

Organizers: L. Heyer, Davidson College; G. Stolovitsky, IBM; S. Yooseph, Celera Genomics.

Contacts: S. Yooseph, Celera Genomics, shibu.yooseph@celera.com; Local Arrangements: J. Herold, DIMACS Center, jessicah@dimacs.rutgers.edu,

Information: 732-445-5928; <http://dimacs.rutgers.edu/Workshops/index.html>.

25-28 2001 Annapolis Algebraic Geometry Conference in Memory of Ruth Michler, U.S. Naval Academy, Annapolis, Maryland. (June/July 2001, p. 629)

Topics: Singularities, commutative algebra, computational methods and applications.

Organizers: C. G. Melles, U.S. Naval Academy, tel: 410-293-6708, fax: 410-293-4883, cgg@usna.edu; L. J. McEwan, Ohio State Univ., mcewan@math.ohio-state.edu; G. Kennedy, Ohio State Univ., tel: 419-755-4291, kennedy@math.ohio-state.edu; K. Lauter, Microsoft Research, tel: 425-703-8335, klauter@microsoft.com.

Confirmed Speakers: S. Abhyankar (Purdue), E. Bierstone (Univ. Toronto), A. Brudnyi (Univ. Calgary), E. Hironaka (Florida State Univ.), G. Kennedy (Ohio State Univ.), K. Lauter (Microsoft), D. Massey (Northeastern Univ.), A. Nemethi (Ohio State Univ.), H. Schenck (Harvard), M. Seppala (Florida State Univ.), A. Silverberg (MSRI/Ohio State), K. Smith (Univ. Michigan), H. Stark (UC San Diego), H. Srinivasan (Univ. Missouri), A. Szilard (Barnard), M. Vitulli (Univ. Oregon), J. F. Voloch (Univ. Texas, Austin).

Registration: \$25 for mathematicians with full-time employment; \$15 for graduate students and others.

Information: <http://mathweb.mathsci.usna.edu/Faculty/Conferences/AlgGeom2001/aagc.html>.

28-November 2 School on Semigroups Applied to Evolution Equations, Grand Hotel Bellavista Levico, Terme (Trento), Italy. (Aug. 2001, p. 749)

Scientific Organizers: M. Iannelli (Trento), R. Nagel (Tuebingen), and S. Piazzera (Ulm).

Deadline for Applications: September 30, 2001.

Information: 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; <http://www.science.unitn.it/cirm/>.

29-November 1 Introductory Lectures by A. A. Kirillov (Pennsylvania) and V. Guillemin (MIT), Centre de Recherches Mathématiques (CRM), Université de Montréal, Montréal (Québec), Canada. (Aug. 2001, p. 749)

Information: Those wishing to participate in the above activities are invited to write to: L. Pelletier, Centre de Recherches Mathématiques (CRM), Université de Montréal, C.P. 6128, Succ. Centre-ville, Montréal (Québec), Canada H3C 3J7; e-mail: ACTIVITES@CRM.UMontreal.CA; or visit <http://www.CRM.UMontreal.CA/geometry/>.

31-November 2 Computational Issues in Game Theory and Mechanism Design, DIMACS Center, Rutgers University, Piscataway, New Jersey. (Aug. 2001, p. 750)

Organizers: V. Vazirani, Georgia Tech; and N. Nisan, Hebrew Univ. **Short Description:** The research agenda of computer science is undergoing significant changes due to the influence of the Internet. Together with the emergence of a host of new computational issues in mathematical economics, as well as electronic commerce, a new research agenda appears to be emerging. This area of research is collectively labeled under various titles, such as "foundations of electronic commerce", "computational economics", or "economic mechanisms in computation", and deals with various issues involving the interplay between computation, game-theory, and economics.

Information: V. Vazirani, Georgia Tech, vazirani@cc.gatech.edu; Local Arrangements: J. Herold, DIMACS Center, jessicah@dimacs.rutgers.edu, 732-445-5928. WWW Information: <http://dimacs.rutgers.edu/Workshops/index.html>.

November 2001

2-3 21st Annual Southeastern-Atlantic Regional Conference on Differential Equations, Wake Forest University, Winston-Salem, North Carolina. (Jun/Jul 2001, p. 629)

Description: The primary purpose of the conference is to promote research and education in the field of differential equations. These meetings bring together established and new researchers and advanced graduate students for an exchange of ideas and discussions on all aspects of differential equations. The conference will consist of a series of four plenary one-hour lectures and sessions for contributed papers.

Invited Speakers: A. Castro (Univ. of Texas at San Antonio), S. Lenhart (Univ. of Tennessee), J. Selgrade (N.C. State Univ.), and J. Serrin (Univ. of Minnesota).

Contributed Talks: There will be sessions of contributed talks. Deadline for submission of abstracts for contributed talks is October 12, 2001.

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 October 1, 2001, 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.math.wfu.edu/SEARCDE_2001/ or by contacting: J. Baxley, SEARCDE Coordinator, Dept. of Math., Wake Forest Univ., Winston-Salem, NC 27109; tel: (336) 758-5336; fax: (336) 758-7190; e-mail: baxley@mathsc.wfu.edu.

2-6 Workshop on the Geometry of Infinite-Dimensional Lie Groups, Centre de Recherches Mathématiques (CRM), Université de Montréal, Montréal (Québec), Canada. (Aug. 2001, p. 750)

Participants: P. Deift (Pennsylvania), P. Etingof (MIT), V. Fock (ITEP), V. Guillemin (MIT), L. Jeffrey (Toronto), M. Kapranov (Toronto), A. A. Kirillov (Pennsylvania), F. Lalonde (Montréal), J. Leslie (Howard), E. Meinrenken (Toronto), P. Michor (Vienna), P. Olver (Minnesota), H. Omori (Tokyo), V. Ovsienko (CNRS-Luminy), T. Ratiu (EPFL Lausanne),

T. Robart (Howard), P. Slodowy (Hamburg), I. Zakharevich (Ohio State).

Information: Those wishing to participate in the above activities are invited to write to: L. Pelletier, Centre de Recherches Mathématiques (CRM), Université de Montréal, C.P. 6128, Succ. Centre-ville, Montréal (Québec), Canada H3C 3J7; e-mail: ACTIVITES@CRM.UMontreal.CA; or visit <http://www.CRM.UMontreal.CA/geometry/>.

5 Workshop on Streaming Data Analysis and Mining, DIMACS Center, Rutgers University, Piscataway, New Jersey. (Aug. 2001, p. 750)

Organizers: A Buchsbaum, AT&T Labs-Research, R. Motwani, Stanford Univ., J. Rexford, AT&T Labs.

Description: Speakers at the workshop will discuss current work in all aspects of data stream analysis: theoretical issues, including modeling; practical issues, including work on existing systems; and bridges and bottlenecks, both current and potential, between theory and practice. The goal of the workshop and the ensuing working group is to foster interdisciplinary collaborations among researchers studying data streams from many disparate perspectives and application areas.

Contact: A. Buchsbaum, AT&T Labs-Research, alb@research.att.com.

Local Arrangements: J. Herold, DIMACS Center, jessicah@dimacs.rutgers.edu, 732-445-5928.

Information: <http://dimacs.rutgers.edu/Workshops/index.html>.

5-8 Seventh SIAM Conference on Geometric Design (SIAG/GD) (GD01), Holiday Inn Capitol Plaza Hotel, Sacramento, California. (Sept. 2000, p. 980)

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/>.

* **8-11 Symposium on Partial Differential Equations to Celebrate the 75th Birthday of James Serrin**, University of Minnesota, Minneapolis, Minnesota.

Speakers: H. Brezis, C. Dafermos, E. DiBenedetto, A. Friedman, J. Hale, H. Levine, L. A. Peletier, P. Pucci, P. Rabinowitz, G. Todorova, H. Weinberger, W. Ziemer, H. Zou.

Organizers: A. Ambrosetti, H. Brezis, W. Littman, N. Meyers, P. Pucci.

Information: For further information contact meyers@math.umn.edu.

12-15 Short Course on Finite Volume Methods for Free-Surface Shallow Flows (with Applications to Environmental Problems), San Francisco, California. (Aug. 2001, p. 750)

Organizers: Numeritek Limited UK.

Lecturer: E. F. Toro.

Information: Visit <http://www.numeritek.com/>; e-mail: courses@numeritek.com.

19-22 Short Course on Finite Volume Methods for Compressible Flow, San Francisco, California. (Aug. 2001, p. 750)

Organizer: Numeritek Limited, UK.

Lecturer: E. F. Toro.

Information: Visit <http://www.numeritek.com/>; e-mail: courses@numeritek.com.

* **26-30 (NEW INFORMATION) AAECC-14, The 14th International Symposium on Applied Algebra, Algebraic Algorithms, and Error-Correcting Codes**, RMIT University, Melbourne, Australia. (Jan. 2001, p. 55)

Sponsor: Australian Mathematical Society.

Chairs: K. Horadam (RMIT Univ., Australia) and T. Hoeholdt (Tech. Univ. of Denmark, Denmark).

Invited Speakers: R. Calderbank (AT&T, USA), J. Massey (Copenhagen, Denmark), G. Norton (Queensland, Australia), V. Pless

(Chicago, USA), A. Shokrollahi (Digital Fountain Inc., USA), M. Sudan (MIT, USA).

Topics: Algebra, algebraic algorithms, algebraic coding theory, codes and combinatorics, coding techniques, sequences, cryptography. The aim of the conference is to encourage cross-fertilization between areas developing algebraic methods and those applying them, especially in error-correcting codes.

Deadlines: The early registration deadline (for reduced rates) is August 15, 2001.

Publication: The accepted refereed papers will appear as a volume of the Springer LNCS series, available at the conference. A recent results session will also be organized during AAECC-14.

Information and Registration: See the conference website for further information, a list of accepted papers, registration and accommodation forms: <http://www.ma.rmit.edu.au/aaecc/index.html>; e-mail: aaecc@gauss.ma.rmit.edu.au; conference administration: juliann_smith@hotmail.com.

December 2001

1-3 First International Conference on Neutrosophy, Neutrosophic Logic, Set, Probability and Statistics, University of New Mexico, Gallup, New Mexico. (May 2001, p. 531)

Organizer: F. Smarandache, Univ. of New Mexico, 200 College Road, Gallup, NM 87301; e-mail: smarand@unm.edu; tel: (505) 863-7647; fax: (505) 863-7532 (Attn. Neutrosophic Conference).

Invited Speakers: J. Dezert (France), Charles Le (USA), I. Stojmenovic (Canada).

Workshop Topics: Neutrosophy—a new branch of philosophy, Neutrosophic Logic—a unifying field in logics, Neutrosophic Set—a unifying field in sets, Neutrosophic Probability—a generalization of classical and imprecise probabilities, and Neutrosophic Statistics.

Information: Deadline for contributed papers: November 30, 2001. The papers will be published in the proceedings of the conference. For more information see: <http://www.gallup.unm.edu/~smarandache/FirstNeutConf.htm>.

2-4 DIMACS-CTS (Chiaotung University) Conference on the Interconnections among Codes, Designs, Graphs and Molecular Biology, Center of Theoretical Science, Chiaotung University, Hsinchu, Taiwan. (Aug. 2001, p. 750)

Sponsors: DIMACS Center, Rutgers University; and Chiaotung University.

Organizers: F. Hwang, Chiaotung Univ.; F. Roberts, DIMACS, Rutgers Univ.; D. Torney, Los Alamos National Labs.

Deadlines: If you are interested in giving a talk, please submit a short abstract (maximum two pages) by October 10, 2001. Abstracts should be submitted via e-mail to any one of the organizers. Notification will be made on November 1, 2001.

Contacts: F. Hwang, Chiaotung Univ., fhwang@math.nctu.edu.tw; F. Roberts, DIMACS, Rutgers Univ., froberts@dimacs.rutgers.edu; D. Torney, Los Alamos National Labs, dct@lanl.gov.

Local Arrangements: J. Herold, DIMACS Center, jessicah@dimacs.rutgers.edu, 732-445-5928.

Information: <http://dimacs.rutgers.edu/Workshops/index.html>.

2-8 Quantum and Classical Integrability and Infinite Dimensional Systems, International Centre for Mathematical Sciences, Edinburgh, UK. (June/July 2001, p. 629)

Information: Please see the ICMS Web pages for further details on programme, speakers, registration, etc.: <http://www.ma.hw.ac.uk/icms/current/>.

3-7 LPAR'2001: 8th International Conference on Logic for Programming, AI and Reasoning, Havana, Cuba. (June/July 2001, p. 629)

Information: <http://www.lsi.upc.es/~roberto/lpar2001.html>.

3-7 Workshop on Applied Cryptology, Institute for Mathematical Sciences, National University of Singapore, Singapore. (June/July 2001, p. 629)

Organizing Committee: S.-P. Chan (Singapore), R. Deng (Singapore), S. Ling (Singapore), H. Niederreiter (Singapore, chair), E. Okamoto (Japan), I. E. Shparlinski (Australia), N. J. A. Sloane (USA), C. P. Xing (Singapore).

Description: The workshop is part of the inaugural program of the Institute for Mathematical Sciences on coding theory and data integrity which will run from July to December 2001. There will be invited talks and shorter contributed talks. Specific topics include (but are not limited to) software implementations, design of cryptochips, key management, quantum cryptography, security issues in applications (e-commerce, banking, mobile communications), and current standards.

Call for Papers: Authors of contributed papers should e-mail an abstract of 300–500 words to H. Niederreiter (nied@math.nus.edu.sg) by September 21, 2001. Authors of accepted papers will be notified by October 5, 2001.

Information: <http://www.ims.nus.edu.sg/programs/coding.html>.

3–8 NIPS 2001, Neural Information Processing Systems: Natural and Synthetic, Vancouver, Canada. (June/July 2001, p. 629)

Information: Submissions: due June 20, 2001. Contact nipsinfo@salk.edu, or see <http://www.cs.cmu.edu/Web/Groups/NIPS/>.

7–10 2001 Annual Australasian Research Symposium on Lie Groups, Algebraic Groups, Quantum Groups, and Their Representations (LAQ'2001), The University of Auckland, Auckland, New Zealand. (June/July 2001, p. 629)

Organizers: R. Gover (Auckland), r.gover@auckland.ac.nz; and V. Pestov (Wellington), vova@mcs.vuw.ac.nz.

Information: <http://www.mcs.vuw.ac.nz/~vova/laq.html>.

10–13 International Congress on Modelling and Simulation-Modsim 2001, Australian National University, Canberra, Australia. (June/July 2001, p. 629)

Sponsor: IMACS.

Theme: Integrating Models for Natural Resources Management across Disciplines, Issues and Scales.

Information: F. Ghassemi, Centre for Resource and Environmental Studies, The Australian National University, Canberra ACT 0200, Australia; tel: 61 2 6249 0653; fax: 61 2 6249 0757; e-mail: fredg@cres.anu.edu.au; <http://cres.anu.edu.au/~tony/modsim2001.htm>.

10–14 ICMI Study Conference on the Future of the Teaching and Learning of Algebra, University of Melbourne, Australia. (Jan. 2001, p. 55)

Organizer: The International Commission on Mathematical Instruction (ICMI).

Program: This study is the twelfth in the series of studies organized by ICMI since 1985. The word “algebra” will be interpreted broadly to encompass the diversity of definitions around the world, extending beyond the standard curriculum in some countries. It will include, for example, algebra as a language for generalization, abstraction and proof; as a tool for problem solving through equation solving or graphing; and for modelling with functions; plus the way algebraic symbols and ideas are used in other parts of mathematics and other subjects. The principal interest of many participants is likely to be related to secondary school mathematics (ages 11–18) and algebra with real variables, but the study is also concerned with tertiary algebra (e.g., linear algebra and abstract algebra) and with algebra and its precursors for young children.

Call for Papers: Participation in the study conference will be by invitation, based on submitted papers. Details of the submission process and a more complete description of the project may be found at <http://www.edfac.unimelb.edu.au/DSME/icmi-algebra/>. Submissions may address any of a number of identified issues. New researchers and researchers from countries under-represented in mathematics education research meetings are especially invited to submit. The deadline for submissions is January 31, 2001.

Information: Study secretary: H. Chick, h.chick@edfac.unimelb.edu.au; Program chair: K. Stacey, k.stacey@edfac.unimelb.edu.au; <http://www.edfac.unimelb.edu.au/DSME/icmi-algebra/>.

10–14 Macroscopic Organisation from Microscopic Behaviour in Immunology, Ecology and Epidemiology, Isaac Newton Institute, Cambridge, UK. (May 2001, p. 531)

Themes: The purpose of this workshop is to bring together experimentalists and theoreticians working in immunology, ecology and epidemiology with the aim of fostering interaction and research.

Speakers: R. Antia (Emory), C. Bangham (Imperial College), S. Bonhoeffer (Friedrich Miescher Institute), C. Godfray (Imperial College), B. Grenfell (Cambridge), A. Hastings (UC Davis), S. Levin (Princeton), M. Lewis (Utah), A. Lloyd (Princeton), A. Perelson (Los Alamos), D. Rand (Warwick), A. Sasaki (Kyushu), L. Segel (Weizmann Institute), D. Wodarz (Institute for Advanced Study).

Location and Cost: The workshop will take place at the Newton Institute, and accommodations for participants will be provided in single study bedrooms with shared bathrooms at Wolfson Court, a hall of residence adjacent to the Institute. The workshop package costs £300, which includes registration fee, accommodations, breakfast, dinner, lunches, and refreshments on the days that lectures take place.

Further Information and Application Forms: These are available from the WWW at <http://www.newton.cam.ac.uk/programs/ICB/icbw03.html>, where further information about the workshop will be posted and updated. Completed application forms should be sent to M. Clark at the above address or via e-mail to m.clark@newton.cam.ac.uk. Scientific enquiries may be addressed to B. Sleeman (bds@amsta.leeds.ac.uk). Closing date for receipt of applications and abstracts is June 30, 2001.

10–14 QMath-8. Mathematical Results in Quantum Mechanics, Taxco, Mexico. (May 2001, p. 531)

Invited Speakers: J. M. Combes (Univ. de Toulon), M. Demuth (Technische Univ. Clausthal), V. Enss (RWTH-Aachen), A. Laptev (RIT, Stockholm), E. H. Lieb (Princeton Univ.), P.I. Naumkin (Univ. Michoacana), R. Schrader (Freie Univ. Berlin), B. Simon (California Institute of Technology), G. Uhlmann (Univ. of Washington), A. Uribe (Univ. of Michigan), K. Yajima (Univ. of Tokyo).

Topics: The following topics will be discussed: Bound state problems and scattering theory for Schrödinger operators; Inverse spectral and scattering theory of Schrödinger operators; Nonlinear Schrödinger equations; Quantum chaos, quantum dots and wave guides; Parameter dependent Hamiltonians; Spectral and localization properties of Schrödinger operators.

Conference Committee: A. Alonso y Coria, F. Brambila Paz, P. Exner, B. Grebert, R. Weder (chairman).

Information: <http://www.qmath-8.unam.mx/>; e-mail: mmsec2@leibniz.iimas.unam.mx. QMath-8, Att. A. M. G. Ramirez, IIMAS-UNAM, Apartado Postal 20-726, Mexico, D.F. 01000, Mexico.

14–20 School on Quantum Markov Chains, Grand Hotel Bellavista, Levico, Terme (Trento), Italy. (Aug. 2001, p. 750)

Scientific Organizers: L. Accardi (Roma II) and T. Matsui (Fukuoka).

Deadline for Applications: September 30, 2001.

Information: 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; <http://www.science.unitn.it/cirm/>.

15–19 The Sixth Asian Technology Conference in Mathematics (ATCM2001) (Applications of Technology in Teaching and Research for the 21st Century), RMIT University, Melbourne, Australia. (Apr. 2001, p. 439)

Program: ATCM 2001 is to provide an interdisciplinary forum for teachers, researchers, educators, and decision makers around the world in the fields of mathematics and mathematical sciences. It also provides a venue for researchers and developers of computer technology to present their results in using technology in both

basic research and pedagogical research and to exchange ideas and information in their latest developments. The conference will cover a broad range of topics on the relevancy of technology in mathematical research and teaching. These include, but are not limited to: Applications of computer algebra (systems) in research and teaching; Multimedia, computer-aided and distance in learning and teaching; Applications of graphing calculators in mathematical sciences; Mathematical research and teaching using technology; Mathematical tools and World Wide Web technology; Implementation of technology in education from K-12 to university level; Assessment of implementation of technology in education. The conference will consist of plenary sessions by invited speakers, parallel sessions of contributed papers, and tutorial sessions on software and hardware relevant to research and teaching. Books, software, and hardware may also be on display.

Deadlines: June 15, 2001: Deadline for submission of abstracts. July 31, 2001: Deadline for submission of full papers. August 31, 2001: Notification of acceptance.

Information: <http://www.cs.runet.edu/~atcm/ATCM01/>; e-mail: atcm@runet.edu/ or atcm01@mit.edu.au/.

17-19 Eighth Cryptography and Coding, Royal Agricultural College, Cirencester, UK. (Sept. 2000, p. 980)

Information: Pamela Bye, Conference Officer, The Institute of Mathematics and Its Applications, Catherine Richards House, 16 Nelson Street, Southend-on-Sea, Essex, SS1 1EF; tel: (01702) 354020; fax: (01702) 354111; e-mail: conferences@ima.org.uk; Web: <http://www.ima.org.uk/>.

17-21 2nd WSES Conference: Algorithms Theory, Discrete Mathematics, Systems and Control (ADISC 2001), Cairns, Queensland, Australia. (June/July 2001, p. 630)

Information: <http://www.worldses.org/wses/conferences/cairns/adisc/>.

17-22 First Announcement and Call for Papers, The Second International Congress of Chinese Mathematicians (ICCM 2001), The Grand Hotel, Taipei, Taiwan. (Apr. 2001, p. 439)

Description: The International Congress of Chinese Mathematicians is a triennial congress hosted by institutions in Mainland China, Taiwan, Hong Kong, and Singapore on a rotating basis. ICCM 2001 will have both plenary and invited addresses by distinguished researchers in every major field, as well as contributed talks and poster sessions. A list of plenary speakers can be found below in this announcement. Contributed papers on all major areas of mathematics are solicited. To make the congress a true worldwide gathering, all presentations will be given in English. ICCM 2001 will be dedicated to Professor Shiing-Shen Chern for his 90th birthday. A Lifetime Achievement Award and a Gold Medal will be awarded to Professor Chern at the opening ceremony of ICCM 2001.

Morningside Awards: The Morningside Medals were established, through the Morningside Foundation, Hong Kong, to encourage outstanding young mathematicians of Chinese descent in their pursuit of mathematical truths. Up to three gold medals, carrying a cash award of US\$25,000, and six silver medals, carrying a cash award of US\$6,250, will be awarded. Medalists are selected by a panel of internationally renowned mathematicians. The recipients will be announced during the award ceremony at the opening of ICCM 2001.

Plenary Speakers: C.-L. Chai (Univ. Penn), T. Chan (UCLA), S. Chen (Fudan Univ., China), W. E (Princeton Univ.), J.-S. Li (Hong Kong UST), F.-H. Lin (NYU), A.-K. Liu (Berkeley Univ.), K. Liu (UCLA), Y.-T. Siu (Harvard Univ.), C.-L. Terng (Northeastern Univ.), D.-Q. Wan (UC Irvine), W. Wong (Harvard Univ.), A. Yao (Princeton Univ.), L.-S. Young (NYU), J. Yu (Academia Sinica, Taiwan), X. Zhou (Duke Univ.).

Call for Contributions: Papers on all aspects of mathematics are solicited. Plenary lectures and 45-minute talks by distinguished scientists who have played a significant role in the advancement of mathematics and its applications will be scheduled in the scientific program. Nonplenary lectures will be held in several parallel sessions, spanning a broad range of mathematics. The

official congress language will be English.

Information: Up-to-date information about all aspects of ICCM 2001 is available on the following Web site: <http://iccm2001.cts.nthu.edu.tw/>. It includes an application for entrance visa to Taiwan, accommodations, registration, and abstract submission, etc. Correspondence or questions regarding this congress should be directed to iccm2001@cts.nthu.edu.tw. The address, phone, and fax numbers of ICCM 2001 are: ICCM 2001, c/o National Center for Theoretic Sciences, National Tsing Hua University, Hsin-Chu 300, Taiwan; tel: +886-3-574-5254; fax: +886-3-572-8168.

19-21 International Conference on Statistics, Combinatorics and Related Areas and The Eighth International Conference of the Forum for Interdisciplinary Mathematics, University of Wollongong, Wollongong, NSW, Australia. (Mar. 2001, p. 338)

Conveners: S. N. Mishra, President of the Forum, Department of Mathematics and Statistics, Univ. of South Alabama, Mobile, AL 36688-0002; tel: +1-334-461-1642; fax: +1-334-460-7969; mishra@mathstat.usouthal.edu; C. M. Gulati, School of Mathematics and Applied Statistics, Univ. of Wollongong, Wollongong, NSW 2522, Australia; tel: +61-2-4221-3836; fax: +61-2-4221-4845; chandra_gulati@uow.edu.au.

Information: <http://www.uow.edu.au/informatics/math/statconference/>.

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 the AMS website.

7-12 School on Stochastic Partial Differential Equations and Applications-VI, Grand Hotel Bellavista, Levico, Terme (Trento), Italy. (Aug. 2001, p. 750)

Scientific Committee: G. Da Prato (S.N.S. Pisa), D. Nualart (Barcelona), E. Pardoux (Marseille), M. Roekner (Bielefeld), and L. Tubaro (Trento).

Information: 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; <http://www.science.unitn.it/cirm/>.

9-12 International Conference on Inverse Problems—Recent Development in Theories and Numeric, City University of Hong Kong, Hong Kong. (June/July 2001, p. 630)

Objective: The purpose of this conference is to establish a first and strong collaboration link between the universities of Hong Kong and worldwide leading researchers in inverse problems. The conference will address both theoretical (mathematics), applied (engineering) and development aspects of inverse problems.

Topics: Financial Problems, Image Processing Problems, Inverse Problems Related to the Industries, Medical Problems, Nodal Problems, Optimization Problems, Parameter Identification and Control, Sampling Problems, Spectral Problems. The following recent theoretical developments and numerical approaches related to the above topics are emphasized: Well-Posedness, Uniqueness, Stability, Reconstruction Scheme, Numerical Methods.

Invited Plenary Speakers (keynote talks): G. Bao (Michigan Univ.), J. Cheng (Fudan Univ., China), V. Isakov (Wichita State Univ., KS), P. C. Sabatier (Univ. des Sciences et Techniques du Languedoc, France),

Invited Speakers (introductory talks): D. Anikonov (Inst. of Applied Mathematics, Vladivostok, Russia), H. Engl (Johannes Kepler Univ., Linz, Austria), J. Frankel (Tennessee Univ.), D. Fujiwara (Kyoto Univ., Japan), A. Kirsch (Fridericiana Karlsruhe Univ., Germany), J. S. Pang (The Johns Hopkins Univ.), J. K. Seo (Yonsei Univ., Korea), K. Tanuma (Osaka Kyoiku Univ., Japan), D. D. Trong (Ho Chi Ming City Univ., Vietnam), J. Z. Zhang (City Univ. of Hong Kong).

Call for Papers: Titles and abstracts of contributed papers must be received by August 31, 2001. The abstracts should be typed in \LaTeX , not to exceed one A4 page, and sent to the secretary by e-mail.

Address: J. Hui, Secretary, Department of Mathematics, City Univ. of Hong Kong, 83 Tat Chee Avenue, Kowloon Tong, Hong Kong; tel: (852) 2788 7140; fax: (852) 2788 8561; e-mail: ma1p@cityu.edu.hk.

*** 11–15 NSF-CBMS Regional Research Conference Arrangements and Mathematical Physics**, Louisiana State University, Baton Rouge, Louisiana.

Organizer: D. C. Cohen.

Focus: The focus of this conference will be on hyperplanes arrangements, multivariable hypergeometric functions, and their applications in mathematical physics. The principal lecturer, Alexander Varchenko, will deliver a series of ten lectures entitled "Arrangements, Hypergeometric Functions, and KZ-Type Equations". There will also be a limited number of talks by other speakers.

Information: <http://www.math.lsu.edu/~cbms/>; e-mail: cbms@math.lsu.edu.

14–17 International Conference on Combinatorial Matrix Theory, Postech, Pohang, Korea. (June/July 2001, p. 630)

Conference Themes: Combinatorics, combinatorial matrix theory and related areas of computational and core matrix theory.

Conference Chairs: R. A. Brualdi (Univ. of Wisconsin-Madison, brualdi@math.wisc.edu), S.-G. Hwang (Kyungpook Univ., Korea, sghwang@knu.ac.kr).

Invited Speakers: R. Brualdi, A. Krauter, B. Shader, J.-Y. Shao, S. Kirkland (plenary), J. Shen (plenary), D. Hershkowitz, J. Seberry, C. Onn, K. Okubo, Y. Nam, B. Liu, I. Wanless, M. Fiedler, T.S. Michael, J. Li, P. Tetali, F. Zhang, L. Qiao, W. Haemers, B.-S. Tam, C. Johnson.

Call for Papers: The program will consist of hour-long or 40-minute invited lectures and 25-minute contributed talks. Abstracts, at most one page and typed in English, are invited by June 15, 2001.

Information: e-mail: sglee@math.skku.ac.kr; fax: 82-31-290-7033; mailing address: Co-organizer, International Conference on Combinatorial Matrix Theory, Department of Mathematics, College of Science, SungKyunKwan University, Suwon 440-746, Korea; <http://matrix.skku.ac.kr/sglee/postech/postech.htm>.

*** 21–25 2nd MaPhySto Conference on Lévy Processes—Theory and Applications**, University of Aarhus, Denmark.

Description: This conference is a sequel to the international conference with the same title, organized by MaPhySto January 7–22, 1999.

Organizing Committee: K.-I. Sato (Nagoya Univ.), T. Mikosch (Univ. of Copenhagen), E. Nicolato (Univ. of Aarhus), G. Peskir (Univ. of Aarhus), O. E. Barndorff-Nielsen (Univ. of Aarhus).

Information: Regularly updated information can be obtained from <http://www.maphysto.dk/events/2ndLevyConf2002/>.

21–28 Winter School on Computations in Coxeter Groups, Centre de Recherches Mathématiques (CRM), Université de Montréal, Montréal (Québec), Canada.

Organizers: W. Casselman (UBC), R. Bédard (UQAM), F. Du Cloux (Lyon I).

Description: These short courses are designed to show how techniques from computer algebra can be applied to effective computation in Coxeter groups.

Information: Those wishing to participate in the above activities are invited to write to: L. Pelletier, Centre de Recherches Mathématiques (CRM), Université de Montréal, C.P. 6128, Succ. Centre-ville, Montréal, (Québec), Canada H3C 3J7; e-mail: ACTIVITES@CRM.UMontreal.CA; or visit <http://www.CRM.UMontreal.CA/geometry/>.

28–February 1 The International Conference on Factorization, Singular Operators and Related Problems, Dedicated to the 70th Anniversary of Professor Gueorgui Litvinchuk, Madeira University, Madeira, Portugal. (June/July 2001, p. 630)

Scientific Program Committee: A. Antonevich (Belarusia), A. Boettcher (Germany), B. Bojarskii (Poland), R. Duduchava (Georgia), M. Kaashoek (Netherlands), N. Karapetians (Russia), Yu. Karlovich (Mexico), V. Kokilashvili (Georgia), N. Krupnik (Israel), V. Mazya

(Sweden), V. Rabinovich (Mexico), B. Silbermann (Germany), I. Simonenko (Russia), I. Spitkovsky (USA), N. Vasilevskii (Mexico).

Information/Registration: <http://www.digiways.com/fsorp/>.

February 2002

2–3 9th Southern California Geometric Analysis Seminar, University of California at Irvine. (June/July 2001, p. 630)

Description: There will be six top mathematicians in geometric analysis giving talks. Enough time will be allowed for participants to communicate with each other in this two-day seminar.

List of Speakers: TBA.

Information: <http://www.math.uci.edu/~scgas/>. Contact Z. Lu, zlu@math.uci.edu.

27–March 3 Group Actions on Rational Varieties, Centre de Recherches Mathématiques (CRM), Université de Montréal, Montréal (Québec), Canada. (Aug. 2001, p. 750)

Organizer: P. Russell (McGill).

Focus: The workshop will focus on recent developments in automorphisms of affine spaces and related algebraic varieties with simple topology, in particular exotic affine spaces (algebraic varieties homeomorphic to an affine space).

Participants: T. Asanuma (Toyama), T. Bandman (Bar-Ilan), D. Daigle (Ottawa), A. Van den Essen (Nijmegen), G. Freudenburg (Southern Indiana), M. Gizatullin (UTFSM), R. Gurjar (Tata), I. Dolgachev (Michigan), J. Winkelmann (Bochum), S. Kaliman (Miami), K. Masuda (Himeji), F. Knop (Rutgers), M. Koras, H. Kraft (Basel), L. Makar-Limanov (Wayne State), L. Moser-Jauslin (Bourgogne), M. Miyanishi (Osaka), P. Cassou-Nogues (Bordeaux), V. Popov (MIEM), A. Sathaye (Kentucky), G. Schwarz (Brandeis), D. Wright, M. Zaidenberg (Grenoble), D. Zhang (Singapore).

Information: Those wishing to participate in the above activities are invited to write to: L. Pelletier, Centre de Recherches Mathématiques (CRM), Université de Montréal, C.P. 6128, Succ. Centre-ville, Montréal, (Québec), Canada H3C 3J7; e-mail: ACTIVITES@CRM.UMontreal.CA; or visit <http://www.CRM.UMontreal.CA/geometry/>.

March 2002

*** 15–17 The 49th Midwest Partial Differential Equations Seminar in Honor of David Adams, Ron Gariepy and John Lewis**, University of Kentucky, Lexington, Kentucky.

Description: This conference will honor the achievements of D. Adams, R. Gariepy and J. Lewis on the occasion of their sixtieth birthdays. The speakers will discuss problems in the areas related to the research of these mathematicians, including elliptic partial differential equations, potential theory, and harmonic analysis.

Confirmed Speakers: M. G. Crandall, H. J. Choe, L. C. Evans, D. Danielli, B. Hardt, J. Heinonen, S. Hofmann, C. E. Kenig, M. Pierre, A. Vogel, C. Wang, W. P. Ziemer.

Organizing Committee: R. Brown, P. Hislop, Z. Shen.

Financial Assistance: Funds are available to support participants. Priority will be given to students and recent Ph.D.'s as well as members of underrepresented groups. This conference is supported by the NSF, the University of Kentucky, and the Institute for Mathematics and its Applications as part of its participating institutions (PIs) conference series. Participants from PIs may attend the conference with PI funds.

Information: <http://www.ms.uky.edu/~midwpde/>, or contact Z. Shen at Dept. of Math., Univ. of Kentucky, Lexington, KY 40506 (shenz@ms.uky.edu).

*** 18–20 International Conference on Algebra and Its Applications**, Chulalongkorn University, Bangkok, Thailand.

Information: W. Hemakul, Dept. of Math., Chulalongkorn Univ., Bangkok 10330, Thailand; Wanida.H@Chula.ac.th.

21–22 8th Rhine Workshop on Computer Algebra, Mannheim, Germany. (May 2001, p. 531)

Topics: The topics of the workshop include all aspects of computer algebra, from theory to applications and systems.

Information: Updated information is available on the WWW at <http://www.uni-mannheim.de/RWCA/>.

21–23 **Spring Topology and Dynamics Conference**, University of Texas, Austin, Texas. (Aug. 2001, p. 751)

Program: The areas covered will include set-theoretic topology, continuum theory, dynamical systems, geometric topology, and geometric group theory. The program will include both invited and contributed talks.

Organizing Committee: C. Gordon, J. Luecke, A. Reid.

26–30 **The 2002 UAB International Conference on Differential Equations and Mathematical Physics**, University of Alabama at Birmingham, Birmingham, Alabama. (Aug. 2001, p. 751)

Program: Topics in the general area of linear and nonlinear differential equations and their relation to mathematical physics will be emphasized. This will include topics such as the analysis of Schrödinger operators, quantum electrodynamics, fluid dynamics, conservation laws, evolution equations, spectral and scattering theory including inverse problems, wave transport in disordered media, dynamical systems, as well as related topics.

Organizing Committee: Y. Karpeshina, G. Stolz, R. Weikard, Y. Zeng.

Plenary Speakers: M. Aizenman, Princeton Univ.; J. Fröhlich, ETH, Zürich; F. Gesztesy, Univ. of Missouri; J. Glimm, SUNY at Stony Brook; S. Jitomirskaya, UC Irvine; A. Laptev, KTH, Stockholm; J. Lebowitz, Rutgers Univ.; E. Lieb, Princeton Univ.; T.-P. Liu, Stanford Univ. and Academia Sinica (Taiwan); J. Sjöstrand, École Polytechnique, Paris; R. Weder, UNAM, Mexico City.

Special Sessions (organizer in parentheses): Conservation Laws (G.-Q. Chen, Northwestern Univ.); Dynamics and Mathematical Physics (N. Simanyi, UAB); Incompressible Flow (S. Friedlander, Univ. of Illinois at Chicago); Inverse Problems (J. McLaughlin, Rensselaer); Quantum Mechanics and Spectral Theory (G. M. Graf, ETH, Zürich); Spectral Problems in Solid State Physics (P. Kuchment, Wichita).

Information: <http://www.math.uab.edu/uab02/>.

26–April 4 **Instructional Conference on Combinatorial Aspects of Mathematical Analysis**, International Centre for Mathematical Sciences, Edinburgh, UK. (June/July 2001, p. 630)

Information: Please see the ICMS Web pages for further details on programme, speakers, registration, etc.: <http://www.ma.hw.ac.uk/icms/current/>.

April 2002

8–19 **Invariant Theory**, Queen's University, Kingston, Ontario, Canada. (Aug. 2001, p. 751)

Organizers: D. Wehlau (Queen's), E. Campbell (Queen's).

Description: The first week will be devoted to introductory lectures aimed at graduate students by P. Fleischmann (Kent), H. Kraft (Basel), G. W. Schwarz (Brandeis), and H. Derksen (MIT). The second week will be devoted to a workshop on invariant theory.

Other Invited Speakers: M. Brion, B. Broer, C. De Concini, L. Helminck, M. Hunziker, G. Kemper, N. Kechagias, F. Knop, P. Littelmann, L. Moser-Jauslin, V. Popov, Y. Sanderson, R. J. Shank, N. Thiery, W. van der Kallen, E. Vinberg.

Information: Those wishing to participate in the above activities are invited to write to: L. Pelletier, Centre de Recherches Mathématiques (CRM), Université de Montréal, C.P. 6128, Succ. Centre-ville, Montréal, (Québec), Canada H3C 3J7; e-mail: ACTIVITES@CRM.UMontreal.CA; or visit <http://www.CRM.UMontreal.CA/geometry/>.

30–May 17 **Concentration Period on the Langlands Programme for Function Fields**, Centre de Recherches Mathématiques (CRM), Université de Montréal, Montréal (Québec), Canada. (Aug. 2001, p. 751)

Organizers: H. Darmon (McGill), J. Hurtubise (CRM).

Description: A three-week extended workshop, with the first two weeks devoted to survey lectures for graduate students: Week 1: Survey lectures on preliminary material: stacks, chtoucas, perverse

sheaves and D-modules,opers. Lectures by D. Ben Zvi (Chicago), D. Goss (Ohio State), A. Polishchuk (Boston), Ch. Sorger (Nantes), K. Vilonen (Northwestern). Week 2: Aisenstadt lectures given by L. Lafforgue (IHES) and E. Frenkel (Berkeley) covering recent results in the Langlands programme over function fields, in both characteristic 0 and characteristic p. During the first two weeks, R. Langlands will also give a series of lectures. Week 3: A conference, celebrating Robert Langlands's 65th birthday. The concentration period is to be followed by the 2002 Canadian Number Theory Association conference.

Information: Those wishing to participate in the above activities are invited to write to: L. Pelletier, Centre de Recherches Mathématiques (CRM), Université de Montréal, C.P. 6128, Succ. Centre-ville, Montréal, (Québec), Canada H3C 3J7; e-mail: ACTIVITES@CRM.UMontreal.CA; or visit <http://www.CRM.UMontreal.CA/geometry/>.

May 2002

20–25 **6th International Conference on Clifford Algebras and Their Applications in Mathematical Physics**, Tennessee Technological University, Cookeville, Tennessee. (Aug. 2001, p. 751)

Description: This is a continuation of a 16-year-old sequence of international conferences devoted to the mathematical aspects of Clifford algebras and their varied applications in mathematical physics, cybernetics, robotics, image processing, and engineering.

Information: See <http://math.tntech.edu/rafal/cookeville/cookeville.html>, or contact the organizers: R. Ablamowicz, rablamowicz@tntech.edu; Dept. of Math., Box 5054, Tennessee Technological Univ., Cookeville, TN 38505; tel 931-372-3441, 372-3569; fax: 931-372-6353; home page: <http://math.tntech.edu/rafal/>; and J. Ryan, jryan@comp.uark.edu; Dept. of Math., Univ. of Arkansas, Fayetteville, AR 72701; tel: 501-575-6334; fax: 501-575-8630; home page: <http://comp.uark.edu/~jryan/>.

24–27 **The Fourth International Conference on "Dynamical Systems and Differential Equations"**, University of North Carolina at Wilmington, Wilmington, North Carolina. (Aug. 2001, p. 751)

Format: Plenary invited one-hour lectures, minisymposia (45-minute talks), special sessions (30-minute talks), and contributed sessions (20-minute talks).

Invited Speakers: M. Ghil, A. Giorgilli, T. Hou, H. Matano, W.-M. Ni, H. Othmer, C. V. Pao, N. S. Papageorgiou, P. Rabinowitz, M. Viana.

Topics: Analysis, applied analysis, differential equations and dynamical systems, in the broadest sense. Applications to real-world problems, including chemical, physical, and life sciences, in the forms of mathematical modeling and computations.

Call for Papers: Contributed papers are invited. Abstracts must be submitted by February 15, 2002, to X. Lu, Chair of Local Organizing Committee, Dept. of Mathematics & Statistics, Univ. of North Carolina at Wilmington, Wilmington, NC 28403. If you are interested in organizing a special session for the conference, please contact: S. Hu (shh209f@smsu.edu), Dept. of Math., Southwest Missouri State Univ., Springfield, MO 65804.

Deadlines: Abstracts: February 15, 2002; Preregistration: March 15, 2002 (both form and fees).

Information: Contact: X. Lu (lux@umcwil.edu; tel: 910-962-3673; fax: 910-962-7107), Dept. of Math. & Stat., Univ. of North Carolina at Wilmington, Wilmington, NC 28403. Or visit <http://www.umcwil.edu/mathconf/> for more detailed and regularly updated information (such as travel, hotel, abstract submission, proceedings, etc.) and downloadable registration forms.

27–June 10 **Computational Lie Theory**, Centre de Recherches Mathématiques (CRM), Université de Montréal, Montréal (Québec), Canada. (Aug. 2001, p. 751)

Organizers: W. Casselman (UBC) and F. Knop (Rutgers).

Focus: This extended workshop is aimed at researchers interested in explicit computations in Lie theory, in particular Coxeter groups. In addition to the usual talks, there will also be several series of survey lectures suitable for graduate students by M. Brion (Grenoble), M. Geck (Lyon), F. Knop (Rutgers), P. Littelmann (Wuppertal), G.

Olshanskii (IITP), and J. Stembridge (Michigan). G. Lusztig (MIT) will be delivering some of his Aisenstadt lectures during the period of the conference.

Invited Participants: D. L. Alvis (Indiana), A. A. Klyachko (Bilkent), R. Bédard (UQAM), R. Bezrukavnikov (Chicago), S. Billey (MIT), M. Brion (Joseph Fourier), I. Cherednik (North Carolina), F. du Cloux (Lyon I), M. J. Dyer (Notre Dame), W. Fulton (Michigan) M. Geck (Lyon), M. Haiman (North California, San Diego), G. J. Heckman (Nijmegen), A. G. Helminck (Carolina), F. Knop (Rutgers), S. Kumar (North Carolina at Chapel Hill), P. Littelmann (Bergische), R. MacPherson (IAS), J. McKay (Concordia), M. Noumi (Kobe), A. Okounkov (California, Berkeley), G. Olshanski (Moscow), E. M. Opdam (Amsterdam), A. Ram (Wisconsin), Y. B. Sanderson (William Paterson) T. A. Springer (Utrecht), J. R. Stembridge (Michigan), B. Sturmfels (California, Berkeley), P. Trapa (Harvard), J. F. van Diejen (Chile), M. van Leeuwen (Poitiers), D. A. Vogan Jr. (MIT), N. R. Wallach (California, San Diego), G. S. Warrington (Harvard), A. Zelevinski (Northeastern).

Information: Those wishing to participate in the above activities are invited to write to: L. Pelletier, Centre de Recherches Mathématiques (CRM), Université de Montréal, C.P. 6128, Succ. Centre-ville, Montréal, (Québec), Canada H3C 3J7; e-mail: ACTIVITES@CRM.UMontreal.CA; or visit <http://www.CRM.UMontreal.CA/geometry/>.

June 2002

* 4–13 3rd Linear Algebra Workshop, Bled, Slovenia.

Program: The main theme of the meeting is the interplay between operator theory and algebra. A few hours of talks are scheduled for the morning sessions, while afternoons are reserved for work in smaller groups.

Organizers: R. Drnovek, T. Koir, M. Omladiè.

Scientific Organizing Committee: R. Drnovek, L. Grunenfelder, T. Koir, M. Omladiè, H. Radjavi.

Information: All information can be found on the Web site: <http://www.ijp.si/ftp/pub/stop/law/>.

10–13 **The Tenth Conference of the International Linear Algebra Society**, Auburn University, Auburn, Alabama. (June/July 2001, p. 630)

Theme: The theme of the conference is “Challenges in Matrix Theory” and will encompass all branches of linear algebra and matrix theory, i.e., core, applied, and numerical.

Information: More details on the conference, such as the list of invited speakers, social events, travel, registration, and hotel information, as well as abstract deadlines, etc., will be available on the dedicated Web site <http://www.auburn.edu/event/ilas2002/> and on ILASNET.

10–15 **Algebraic Transformation Groups**, Centre de Recherches Mathématiques (CRM), Université e Montréal, Montréal (Québec), Canada. (Aug. 2001, p. 752)

Organizers: A. Broer (Montréal) and J. Carrell (UBC).

Description: The purpose of the meeting is to bring together experts in algebraic groups, algebraic geometry, representation theory and related areas, especially those touching on: geometric methods in representation theory using tools like equivariant cohomology and perverse sheaves, the Hilbert scheme of points on a surface and its connection with the $n!$ -conjecture in algebraic combinatorics, equivariant versions of cohomology and Chow groups related to flag manifolds and Schubert varieties, quantum cohomology and Schubert calculus.

Participants: A. Bertram (Utah), M. Brion (Grenoble), C. De Concini (Rome), W. Fulton (Michigan), V. Ginzburg (Chicago), M. Haiman (UCSD), M. Kapranov (Toronto), A. Knutson (Berkeley), B. Kostant (MIT), S. Kumar (North Carolina), L. Manivel (Grenoble), E. Meinrenken (Toronto), I. Mirkovic (Massachusetts), H. Nakajima (Kyoto), D. Peterson (UBC), C. Procesi (Rome), E. Vasserot (Cergy-Pontoise), C. Woodward (Rutgers).

Information: Those wishing to participate in the above activities are invited to write to: L. Pelletier, Centre de Recherches Mathématiques (CRM), Université de Montréal, C.P. 6128, Succ. Centre-ville, Montréal,

(Québec), Canada H3C 3J7; e-mail: ACTIVITES@CRM.UMontreal.CA; or visit <http://www.CRM.UMontreal.CA/geometry/>.

10–16 **Aarhus Topology 2002**, University of Aarhus, Aarhus, Denmark. (Jan. 2001, p. 55)

Description: The 6th Aarhus Topology Conference, celebrating Madsen's sixtieth birthday.

Organizing Committee: J. Dupont (chair), H. J. Munkholm, L. Hesselholt, L. Fajstrup.

Information: <http://www.math.auc.dk/~fajstrup/AT2002/index.html>.

17–21 **Seventh International Conference on p-Adic Functional Analysis**, University of Nijmegen, The Netherlands. (June/July 2001, p. 630)

Program: Research talks on analysis over valued fields other than the real or complex numbers (such as the p -adic number field or Krull valued fields). Main mathematics subject classifications: 46S10, 47S10, 32P05, 26E30.

Scientific Committee: W. Schikhof (Nijmegen, The Netherlands), A. Escassut (Clermont Ferrand, France), C. Perez-Garcia (Santander, Spain).

Speakers (preliminary list): J. Araujo, J. M. Bayod, M. Berz, A. Boutabaa, B. Diarra, A. Escassut, N. De Grande-De Kimpe, L. Van Hamme, J. Kakol, A. Katsaras, H. Keller, A. Khrennikov, A. Kochubei, A. Lemm, H. Ochsenius, C. Perez-Garcia, D. Pombo Jr., S. Priess, P. Ribenboim, A. Salinier, W. Schikhof, N. Shell, W. Sliwa, S. Vega.

Information: <http://www.sci.kun.nl/math/p-adic2002/> or e-mail: schikhof@sci.kun.nl.

23–28 **Fourteenth U.S. National Congress of Theoretical and Applied Mathematics**, Virginia Polytechnic Institute and State University, Blacksburg, Virginia. (Dec. 2000, p. 1437)

Sponsors: The U.S. National Committee on Theoretical and Applied Mechanics and its participating societies: Acoustical Society of America, American Institute of Aeronautics and Astronautics, American Institute of Chemical Engineers, American Mathematical Society, American Physical Society, American Society of Testing and Materials, American Society of Civil Engineers, American Society of Mechanical Engineers, Society for Experimental Mechanics, Society for Industrial and Applied Mathematics, Society for Naval Architects and Marine Engineers, Society of Engineering Science, Society of Rheology.

Scientific Program Committee: F. Hussain, cochair; M. W. Hyer, cochair; R. J. Adrian; S. A. Berger; B. J. Cantwell; H. G. Hornung; G. Homsy; J. L. Junkins; F. C. Moon; Y. D. S. Rajapakse; J. Riley; W. N. Sharpe, Jr.; C. Wark.

Program: The scientific sessions of the congress will consist of general lectures, topical symposia of invited papers, and contributed paper sessions. Contributed papers are solicited in all areas of applied mechanics. Final selection for presentation will be made by the Scientific Committee of the congress based on 300-word abstracts submitted by January 31, 2002.

Abstract Submission: Prospective presenters are invited to either mail 3 copies of a one-page abstract or submit by e-mail, by fax (540-231-4574), or on the conference Web site (preferred mode of submission). Include on the abstract page: the author's name(s) (if multiple authors, indicate contact person), business affiliation(s), address(es), e-mail(s), phone and fax numbers, and up to 5 key words. See addresses below.

Information: Inquiries regarding the congress should be addressed to: USNCTAM14, ESM Department, Mail Code 0219, Virginia Tech, Blacksburg, VA 24061; e-mail: usncam14@vt.edu; tel: 540-231-5045 or 6505; fax: 540-231-4574. Congress Web site: <http://www.esm.vt.edu/usncam14/>.

30–July 14 **5th Summer School/Conference: Let's Face Chaos through Nonlinear Dynamics**, Maribor, Slovenia. (Aug. 2001, p. 752)

Program: Nonlinear dynamics, synergetics, physics of complex systems in pure and applied sciences, including pure and applied mathematics, theoretical and experimental physics, biophysics and

physiology, chemistry, astrophysics, econophysics, technology and engineering, and even sociology.

Organizers: M. Robnik, G. Casati, P. Cvitanovic, S. Grossmann, H. Haken, T. Bountis, H. Hasegawa, J.-L. Pichard, T. Prosen, A. Stefanovska.

Information: <http://www.camtp.uni-mb.si/chaos/2002/>.

July 2002

1-6 2nd International Conference on the Teaching of Mathematics, Island of Crete, Greece. (June/July 2001, p. 631)

Sponsors: Capital Univ., ETH-Zurich, Harvey Mudd College, The Ohio State Univ., Univ. of Crete, John Wiley & Sons.

Organizers: I. Vakalis, Capital Univ.; D. Hughes Hallett, Univ. of Arizona; C. Kourouniotis, Univ. of Crete, Greece; C. Tzanakis, Univ. of Crete, Greece.

Scope: The conference will address new ways of teaching undergraduate mathematics. It will provide a unique and centralized forum and bring together faculty members from countries with varied educational systems who are committed to introducing innovative teaching methods and new pedagogies. The conference will be of great interest to mathematics faculty as well as to anyone involved in the teaching and learning of mathematics.

Invited Speakers: (The following are confirmed speakers. List updated as invitations are accepted.) H. Bass, D. Ball (Univ. of Michigan); O.-N. Kwon (Ewha Women's Univ., Korea); A. Schoenfeld (UC, Berkeley); M. de Guzman (Univ. Complutense de Madrid, Spain); J. P. Bourguignon (Institut des Hautes Études Scientifiques, France); D. Smith (Duke Univ.).

Format of Proposals/Deadlines: Contributed papers will be 30-minute presentations. Proposals for papers and poster sessions should contain: (a) an identification of the proposal as an oral or poster presentation, (b) title and names of authors (full address and e-mail of the contact author), (c) a one-page abstract. More detailed submission guidelines and procedures will be posted on the Web site during summer 2001. Electronic submissions to: D. Quinney, Dept. of Mathematics, Keele University, UK; e-mail: D. Quinney@Keele.ac.uk.

Submission of Proposals: (received by): November 10, 2001; Notification to authors (sent by): January 15, 2002; Submission of full paper: February 28, 2002.

Information: <http://www.math.uoc.gr/~ictm2/>.

* **13-19 Symbolic Computational Algebra 2002: Fields Institute Special Meeting on Symbolic and Numeric Computation in Geometry, Algebra and Analysis**, Univ. of Western Ontario, London, Ontario, Canada.

Organizers: R. Corless, E. Green, S. Hosten, R. Laubenbacher, V. Powers, G. Reid.

Focus: A pre-conference workshop (July 13-14, 2002) is aimed at graduate students, nonspecialists, and researchers wishing to enter the field. The conference (July 15-19, 2002) will focus on recent theoretical developments in computational algebra and geometry, together with new applications and implementations using symbolic manipulation. Application areas include: differential and polynomial equation solving, coding theory, symbolic-numeric methods, signal processing, and invariantized methods.

Information: <http://www.orcca.on.ca/sca2002/>; e-mail: sca2002@orcca.on.ca.

14-18 The Fourth International Conference on Matrix Analytic Methods in Stochastic Models, University of Adelaide, Adelaide, Australia. (June/July 2001, p. 631)

Scope: The conference will provide an international forum for the presentation of recent results on matrix-analytic methods in stochastic models. Its scope includes development of the methodology as well as the related algorithmic implementations and applications in communications, production and manufacturing engineering; it also includes computer experiments in the investigation of specific probability models. The program committee would particularly like to encourage submissions that report the application of ma-

trix analytic methods to practical problems which have arisen in industry.

Submission Procedure: Prospective authors are invited to submit a full paper. Manuscripts should be original, as they will be peer refereed, with the conference proceedings being published for broad circulation.

Deadlines: Full paper submission: September 1, 2001. Notification of acceptance/revision required/rejection: December 21, 2001. Revised version due: March 1, 2002. Final notification for papers with delayed decision: March 15, 2002.

Student Papers: The organizers wish to encourage students to attend the conference. To that effect, financial assistance will be made available on a limited basis and a streamlined submission procedure will be implemented. Details will be published on the conference Web page.

Information: <http://www.trc.adelaide.edu.au/mam4/>. Queries should be addressed to MAM4@trc.adelaide.edu.au.

August 2002

3-10 Logic Colloquium 2002 (ASL European Summer Meeting), Westfälische Wilhelms-Universität, Münster, Germany. (June/July 2001, p. 631)

Invited One-Hour Talks: J. Avigad (Pittsburgh, PA), A. Beckmann (Münster), T. Carlson (Columbus, OH), R. Constable (Ithaca, NY), K. Dosen (Toulouse), M. Gitik (Tel Aviv), V. Halbach (Konstanz), B. Khoushainov (Auckland), S. Lempp (Madison, WI), T. Pitassi (Tucson, AZ), R. Schindler (Wien), K. Tent (Würzburg).

Tutorials: L. Beklemishev (Moscow/Utrecht), S. Cook (Toronto, ON), O. Lessmann (Chicago, IL), S. Thomas (Piscataway, NJ).

Special Sessions: Computability Theory, Non-monotonic Logic, Set Theory.

Information: <http://www.math.uni-muenster.de/LC2002/>.

* **5-9 Conference on Ill-Posed and Inverse Problems**, Sobolev Institute of Mathematics, Novosibirsk, Russia.

Organizers: Sobolev Institute of Mathematics, Novosibirsk State University.

International Program Committee: V. G. Romanov (chair), Sobolev Inst. of Math., Novosibirsk, Russia; Ju. E. Anikonov, Sobolev Inst. of Math., Novosibirsk, Russia; M. I. Belishev, Steklov Math. Inst., Sankt-Petersburg Division, Sankt-Petersburg, Russia; A. L. Bukhgiem, Sobolev Inst. of Math., Novosibirsk, Russia; D. Colton, Univ. of Delaware, Newark, USA; A. M. Denisov, Moscow State Univ., Moscow, Russia; H. W. Engl, Industrial Math. Inst., Johannes Kepler Univ., Linz, Austria; A. M. Fedotov, Inst. of Comput. Tech., Novosibirsk, Russia; Y. Iso, Kyoto Univ., Kyoto, Japan; S. I. Kabanikhin (vice-chair), Sobolev Inst. of Math., Novosibirsk, Russia; O. A. Klimenko (secretary), Sobolev Inst. of Math., Novosibirsk, Russia; R. Kress, Inst. for Numerical and Appl. Math., Goettingen, Germany; M. M. Lavrent'ev Jr., Sobolev Inst. of Math., Novosibirsk, Russia; A. Lorenzi, Milan Univ., Milan, Italy; G. I. Marchuk, Inst. of Comput. Math., Moscow, Russia; Z. Nashed, Univ. of Delaware, Newark, USA; P. Sabatier, Montpellier Univ., France; O. Scherzer, Univ. of Bayreuth, Germany; S. I. Smagin, Computing Center, Khabarovsk, Russia; V. N. Strakhov, Inst. of Physics of Earth, Moscow, Russia; Y. M. Sultangazin, Inst. of Space Investigations, Alma-Ata, Kazakhstan; J. Sylvester, Univ. of Washington, Seattle, USA; G. Uhlmann, Univ. of Washington, Seattle, USA; V. V. Vasin, Inst. of Math. and Mech., Ekaterinburg, Russia; A. G. Yagola, Moscow State Univ., Moscow, Russia; Sh. Yarmuhamedov, Samarkand State Univ., Samarkand, Uzbekistan.

Information: Further information is available at <http://www.math.nsc.ru/conference/mml>.

5-15 New Directions in Dynamical Systems 2002 (ICM 2002 Satellite Conference), Ryukoku University and Kyoto University, Kyoto, Japan. (June/July 2001, p. 631)

Objective: The objective of the conference is to stimulate the exchange of new ideas in various fields of dynamical systems. Any field of dynamical systems theory will be treated in NDDS2002,

with special emphasis on new directions of research for future development. The topics include: smooth dynamical systems, complex dynamical systems and foliations, ergodic theory, Hamiltonian systems, low-dimensional dynamics, topological methods, rigidity, bifurcation theory.

Program: The conference will consist of two parts: The first week is mainly formed by a series of lectures on selected topics. This will be held at Ryukoku University from August 5 to 9. The second week is formed by invited and contributed talks, including short communications, which will be held at Kyoto University from August 11 to 15.

Invited Speakers: M. Lyubich (SUNY, Stony Brook), L.-S. Young* (Courant Institute), E. R. Pujals (UFRJ), J. Xia (Northwestern Univ.) (* to be confirmed).

Plenary Lecturers: V. Baladi (Univ. de Paris-Sud), V. Y. Kaloshin (Princeton Univ.), C. McMullen (Harvard Univ.), J. Palis (IMPA), M. Shub (IBM Watson), M. Viana (IMPA), J.-C. Yoccoz* (College de France), J. Yorke (Univ. of Maryland) (* to be confirmed).

Information: <http://nads.math.h.kyoto-u.ac.jp/>.

*12-16 **Integrability and Topology**, South Ural State University, Chelyabinsk, Russia.

Scope: Integrable and partly integrable systems in mathematical physics, topology of manifolds, the interface between mathematical physics and topology.

Purpose: The very same mathematical structures often arise in both the theory of integrable systems of mathematical physics and topology. It is enough to mention the Yang-Baxter equation with its generalizations, such as tetrahedron equation, and the pentagon equation (and its generalizations, again). The purpose of this conference is to bring together people working in these areas.

Organizers: J. S. Carter (Univ. of South Alabama, USA), L. Crane (Kansas State Univ., USA), N. Euler (Lulea Univ. of Tech., Sweden), G. von Gehlen (Univ. Bonn, Germany), S. Kamada (Osaka City Univ., Japan), R. Kashaev (Steklov Math. Inst., St.-Petersburg, Russia), I. Korepanov (South Ural State Univ., Chelyabinsk, Russia), A. Kundu (Saha Inst. of Nucl. Phys., Calcutta, India), M. Mackaay (Univ. Algarve, Portugal), H. Murakami (Tokyo Inst. of Tech., Japan), V. Novokshenov (Inst. of Math., Ufa, Russia), J. Roberts (Univ. of California, San Diego, USA), C. Rovelli (Centre de Phys. Theor., CNRS Luminy, Marseille, France), M. Saito (Univ. of South Florida, USA), S. Sergeev (Joint Inst. for Nucl. Res., Dubna, Russia), J. Stasheff (Univ. of North Carolina, USA).

Information: <http://www.susu.ac.ru/en/pmf/duds/iat/> or http://www.sm.luth.se/~norbert/home_journal/chelyabinsk.html.

12-16 **MTNS 2002, Fifteenth International Symposium on Mathematical Theory of Networks and Systems**, University of Notre Dame, Notre Dame, Indiana. (Dec. 2000, p. 1437)

Symposium Chair: J. Rosenthal.

Information: Conference Web page: <http://www.nd.edu/~mtns/>.

16-18 **Symposium on Stochastics and Applications (SSA)—An ICM-2002 Satellite Conference**, National University of Singapore, Singapore. (June/July 2001, p. 631)

Topics: Financial mathematics, Gaussian random fields, Markov chain Monte Carlo, probability approximations, random matrices.

Organizing Committee: L. H. Y. Chen, National Univ. of Singapore (chair); Z. Bai, National Univ. of Singapore; K.-P. Choi, National Univ. of Singapore; A. Y. C. Kuk, National Univ. of Singapore; S.-L. Lee, National Univ. of Singapore; W.-L. Loh, National Univ. of Singapore; J.-H. Lou, National Univ. of Singapore; Q.-M. Shao, Univ. of Oregon; Y. Sun, National Univ. of Singapore; Y. K. N. Truong, National Univ. of Singapore and Univ. of North Carolina at Chapel Hill.

Contacts: The Organising Committee, SSA 2002, c/o Department of Mathematics, National Univ. of Singapore, 2 Science Drive 2, Singapore 117543, Republic of Singapore.

Information: fax: 65-779 5452; e-mail: ssa@math.nus.edu.sg; <http://www.math.nus.edu.sg/ssa/>.

20-28 **ICM-2002**, Beijing, China. (Oct. 2000, p. 1146)

Description: The Organizing Committee is pleased to announce that the next International Congress of Mathematicians will take place in Beijing, People's Republic of China, from Tuesday, August 20, through Tuesday, August 27, 2002. It will be held under the auspices of the International Mathematical Union (IMU) and sponsored by many other institutions.

Mathematical Program: Responsibility for the scientific program lies with the program committee appointed by IMU. There will be one-hour plenary lectures covering recent developments in the major areas of mathematics and forty-five-minute invited lectures in nineteen sections. Every registered participant (traditionally called ordinary member) of the congress will have the opportunity to give a short presentation, either during a poster session or in the form of a fifteen-minute lecture. A formal call for such presentations will be issued in the second announcement. Informal mathematical seminars may be organized at the initiative of groups of participants. English, French, German, and Russian are the official languages of the congress. All plenary and invited lectures will be published in the proceedings of ICM-2002; after the congress, a complimentary copy of these proceedings will be sent to each ordinary member. Abstracts of all lectures and of all short presentations will be distributed free of charge to ordinary members at congress check-in.

Awards: The Fields Medals and the Nevanlinna Prize will be awarded during the opening ceremony on the first day of the congress.

Information: Up-to-date information about all aspects of ICM-2002 is available on the following Web site: <http://www.icm2002.org.cn/>. This includes information about registration, abstract submission, etc. Correspondence should be directed to: icm2002@beijing.icm2002.ac.cn. Registration forms and accommodation requests will be made available on the ICM-2002 server in January 2002.

20-28 **Satellite Conferences for ICM 2002**, Beijing, China. (Aug. 2001, p. 752)

Information: <http://www.icm2002.org.cn/satellite/index.html>.

May 2003

*20-24 **The 31st Annual Canadian Operator Theory and Operator Algebras Symposium**, UNB, Fredericton, New Brunswick, Canada.

Information: <http://www.math.unb.ca/cos.html>.