

Mathematics Calendar

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

February 2000

1-5 **Harmonic Maps and Minimal Immersions**, Caparide, (Lisbon), Portugal. (Jan. 2000, p. 80)

7-11 **MSRI Workshop on The Mathematics of Quantum Computation**, MSRI, Berkeley, California. (June/July 1999, p. 713)

8-12 **ANZIAM 2000**, Copthorne Resort, Waitangi, New Zealand. (Sept. 1999, p. 980)

9-13 **IMA Workshop: Resource Recovery**, IMA, University of Minnesota, Minneapolis, Minnesota. (May 1999, p. 596)

12-13 **Workshop on Nonlinear Dispersive Equations**, Stanford University, Palo Alto, California. (Jan. 2000, p. 80)

* 14-19 **Spring School: Operator Algebras and Index Theory on Manifolds with Singularities**, University of Potsdam, Potsdam, Germany.

Topics: Boundary value problems, heat equation methods, edge and corner pseudo-differential operators, index theory on singular and non-compact spaces, asymptotics of solutions, anisotropic operators, hyperbolic singular problems, nonlinear problems.

Organizers: E. Schrohe, (schrohe@math.uni-potsdam.de) and B.-W. Schulze, (schulze@math.uni-potsdam.de).

Sponsors: The conference is supported by the Max-Planck-Gesellschaft zur Förderung der Wissenschaften e.V. and by the Deutsche Forschungsgemeinschaft.

Participation: Graduate students and young researchers are particularly welcome to attend.

Information: For information about the conference and possible support please contact the organizers.

14-25 **MSRI Workshop on the Interactions between Algebraic Geometry and Noncommutative Algebra**, MSRI, Berkeley, California. (June/July 1999, p. 713)

15-18 **Workshop on Combinatorial and Computational Mathematics: Present and Future**, Pohang Univ. of Science and Technology (POSTECH), Pohang, South Korea. (Dec. 1999, p. 1433)

* 19-23 **New Trends in Potential Theory and Applications**, University of Bielefeld, Bielefeld, Germany.

Program: This conference is meant to be a continuation of a series of international conferences on Potential Theory and related fields (as, e.g., the ones in Prague '87, Amersfoort '91, Kouty '94, Hammamet '98). The beginning of the new millennium seems appropriate to reflect on the current developments and to specify new promising

directions of research in this classical area of mathematics. Emphasis will be given to various applications, in particular, in mathematical physics. We would also like to celebrate the 60th birthday of our colleague and friend, Wolfhard Hansen, on the afternoon of February 22.

Topics: The conference will include the topics: differential geometry, Dirichlet forms, fractals, linear and nonlinear PDE, Schrödinger operators, Markov processes, stochastic analysis.

Information: Anyone interested in taking part in the conference should contact the organizers via e-mail. Further information will be provided soon. V. Metz, Fakultät für Mathematik, Universität Bielefeld, Postfach 10 01 31, D-33501 Bielefeld, Germany; e-mail: metz@mathematik.uni-bielefeld.de.

20-22 **International Conference on Stochastic Optimization: Algorithms and Applications**, University of Florida, Center for Applied Optimization, Gainesville, Florida. (Jan. 1999, p. 72)

* 20-22 **Workshop on Computing Approximate Solutions to NP-Hard Problems**, Princeton University, Princeton, New Jersey.

Sponsors: DIMACS Center; Rutgers Univer-

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

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

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

should be sent to the Editor of the *Notices* in care of the American Mathematical Society in Providence or electronically to notices@ams.org or mathcal@ams.org.

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

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

The Mathematics Calendar, as well as Meetings and Conferences of the AMS, is now available electronically through e-MATH on the World Wide Web. To access e-MATH, use the URL: <http://e-math.ams.org/> (or <http://www.ams.org/>). (For those with VT100-type terminals or for those without WWW browsing software, connect to e-MATH via Telnet ([telnet e-math.ams.org](telnet://e-math.ams.org); login and password e-math) and use the Lynx option from the main menu.)

sity; and Princeton University, Department of Computer Science.

Organizers: S. Arora (Princeton Univ.), arora@cs.princeton.edu; E. Tardos (Cornell Univ.), eva@cs.cornell.edu; L. Trevisan (Columbia Univ.), luca@cs.columbia.edu.

Local Arrangements: Sandy Barbu, barbu@cs.princeton.edu, 609-258-4562.

Short Description: This workshop focuses on the design and analysis approximation algorithms, heuristics that compute solutions whose value is probably within some fixed factor of the optimal. The workshop will start with a set of plenary talks, geared to a broad audience, surveying the current state of the art in this growing area. These will be followed by talks on recent results in approximation algorithms and lower bounds. We plan to leave enough free time during the workshop that the participants can discuss open problems and make progress during the workshop.

Information: <http://dimacs.rutgers.edu/Workshop/Approx/>.

* 23-24 **Workshop on Faster Exact Solutions for NP-Hard Problems**, Princeton University, Princeton, New Jersey.

Sponsors: DIMACS Center, Rutgers University.

Organizers: M. Paturi (Univ. of California, San Diego), paturi@cs.ucsd.edu; R. Beigel (Univ. of Illinois at Chicago), beigel@uic.edu.

Contact: Mohan Paturi, Univ. of California, San Diego, paturi@cs.ucsd.edu.

Local Arrangements: Sandy Barbu, barbu@cs.princeton.edu, 609-258-4562.

Short Description: We seek out faster exact solutions for NP-hard problems, not only for their own sake, but also in order to gain insights into complexity. This workshop is organized to specifically examine the following topics for NP-hard problems: (1) algorithms with improved exponential-time complexity, (2) relationships among the complexities, (3) obstacles to subexponential algorithms, and (4) heuristics for faster exponential-time algorithms and empirical studies. The workshop will consist mostly of short presentations (30 minutes) and one or two full-length presentations (60 minutes). Anyone who wishes to give a talk should contact the organizers by December 31, 1999.

Information: <http://dimacs.rutgers.edu/Workshops/Faster/>.

24-26 **Third New Mexico Analysis Seminar**, New Mexico State University, Las Cruces, New Mexico. (Feb. 2000, p. 282)

25-26 **XV SIDIM (Inter-university Mathematical Research Seminar)**, University of Puerto Rico, Mayaguez Campus, Mayaguez, Puerto Rico. (Sept. 1999, p. 980)

26-March 3 **Sven Hagströmer & Mats Qviberg's Foundation Symposium on Geometry and Regularity of Free Boundaries**, KTH, Stockholm, Sweden. (Feb. 2000,

p. 282)

28-March 3 **Eighth International Conference on Hyperbolic Problems**, Otto-von-Guericke University, Magdeburg, Germany. (Sept. 1999, p. 980)

March 2000

2-4 **Recent Progress in The Study of Harmonic Measure from a Geometric and an Analytic Point of View**, University of Arkansas Continuing Education Center, Fayetteville, Arkansas. (Dec. 1999, p. 1433)

5-8 **Eighth International Conference on Numerical Combustion**, Amelia Inn and Beach Club, Amelia Plantation, Amelia Island, Florida. (Feb. 2000, p. 282)

6-7 **Data Processing on the Web: A Look into the Future**, DIMACS Center, Rutgers University, Piscataway, New Jersey. (Dec. 1999, p. 1433)

6-10 **4th International Conference on Operations Research Optimization, Probability and Statistics, Mathematical Economics and Algorithms**, Havana, Cuba. (Oct. 1999, p. 1107)

6-10 **International Conference on Differential Geometry and Quantum Physics**, TU Berlin, Germany. (Sept. 1999, p. 980)

6-17 **Homogenization and Effective Media Theories**, Mathematical Sciences Research Institute, Berkeley, California. (Sept. 1998, p. 1053)

11-15 **Arizona Winter School 2000: Topics in the Arithmetic of Function Fields**, The University of Arizona, Tucson, Arizona. (Feb. 2000, p. 282)

13-16 **Geometry and Applications**, Sobolev Institute of Mathematics, Novosibirsk, Russia. (Jan. 2000, p. 80)

13-17 **International Conference on Fundamental Sciences: Mathematics and Theoretical Physics**, Singapore, China. (Nov. 1999, p. 1286)

* 15-18 **Memphis Lectures on Mathematics**, University of Memphis, Memphis, TN.

Topic: Partial differential equations.

Funding: Limited funding is available for graduate students and young researchers to attend.

Information: Contact either goldst@msci.memphis.edu or gizhang@memphis.edu.

15-19 **IMA Workshop: Atmospheric Modeling**, IMA, University of Minnesota, Minneapolis, Minnesota. (May 1999, p. 596)

16 **Marvin Rosenblum Day**, University of Virginia, Charlottesville, Virginia. (Jan. 2000, p. 81)

* 16 **Yamabe Memorial Lecture**, School of Mathematics, University of Minnesota, Minneapolis, Minnesota.

Speaker: Professor Jeff Cheeger of Courant Institute will speak on analysis on metric measure spaces.

Sponsors: This series has been established jointly by Northwestern University and

the University of Minnesota in memory of Hidehiko Yamabe (1923-1960), whose significant work on topological groups and geometry were outstanding contributions to modern mathematics.

Events: Tea will be served at 3:00 p.m. in Vincent Hall 120. A dinner is planned for that evening. Please let Kathy Swedell (612-626-7422) know if you are planning to attend the dinner.

16-18 **Seminar on Stochastic Processes, 2000**, The University of Utah, Salt Lake City, Utah. (Feb. 1999, p. 278)

17-18 **Southeastern Analysis Meeting**, University of Virginia, Charlottesville, Virginia. (Jan. 2000, p. 81)

* 17-26 **JAMI 2000: Recent Advances in Homotopy Theory**, Johns Hopkins University, Baltimore, Maryland.

Program: Invited talks and contributed talks. A banquet on March 25 will honor the 60th birthdays of P. Landweber and S. Priddy.

Organizers: J. M. Boardman, D. Davis, J.-P. Meyer, J. Morava, W. S. Wilson.

Speakers: G. Arone (Aberdeen), D. Christensen (IAS), W. Dwyer (Notre Dame), P. Goerss (Northwestern), P. Hu (Chicago), K. Iriye (Osaka), N. Iwase (Kyushu), Y. Kawamoto (Hiroshima), I. Kriz (Michigan), M. Mahowald (Northwestern), J. P. May (Chicago), R. McCarthy (Illinois), J. McClure (Purdue), H. Miller (MIT), N. Minami (Nagoya), L. Nave (MIT), G. Nishida (Kyoto), S. Priddy (Northwestern), D. Ravenel (Rochester), J. Rognes (Oslo), H. Sadofsky (Oregon), K. Shimomura (Kochi), B. Shipley (Purdue), J. Smith (Purdue), P. Turner (Heriot-Watt), V. Voevodsky (IAS), N. Yagita (Ibaragi).

Information: See <http://mathnt.mat.jhu.edu/jami9900>, or contact W. S. Wilson at wsw@math.jhu.edu.

20-22 **DIMACS Workshop on Cryptography and Intractability**, DIMACS Center, Rutgers University, Piscataway, New Jersey. (Nov. 1999, p. 1286)

20-31 **Superconvergence in Finite Element Methods**, Mathematical Sciences Research Institute, Berkeley, California. (Sept. 1998, p. 1053)

* 25-26 **Midwest Partial Differential Equations Seminar**, Purdue University, West Lafayette, Indiana.

Speakers: L. Caffarelli (Univ. of Texas), G. Q. Chen (Northwestern Univ.), T. Christiansen (Univ. of Missouri), M. Feldman (Univ. of Wisconsin), C. Kenig (Univ. of Chicago), D. Kinderlehrer (Carnegie Mellon Univ.), M. Loss (Georgia Institute of Technology), N. Nadirashvili (Univ. of Chicago), T. Riviere (Ecole Normale Supérieure de Cachan).

Information: See the Web site <http://www.math.purdue.edu/research/events/mwpde.html>.

27-31 **Quantum Groups**, Morelia, Mexico. (Oct. 1999, p. 1108)

31–April 2 **CombinaTexas: The South-Central Regional Combinatorics Conference**, Texas A&M University, College Station, Texas. (Jan. 2000, p. 81)

April 2000

1–2 **AMS Eastern Section Meeting**, University of Massachusetts, Lowell, Massachusetts. (Nov. 1998, p. 1378)

Information: Information will be posted to the meetings pages in e-MATH.

7–9 **AMS Central Sectional Meeting**, University of Notre Dame, Notre Dame, Indiana. (Sept. 1997, p. 1031)

Information: W. Drady, e-mail: wsd@ams.org.

9–16 **The Klee-Grünbaum Festival of Geometry**, Ein Gev, Israel. (June/July 1999, p. 713)

11–14 **Harmonic Maps and Curvature Properties of Submanifolds, 2**, University of Leeds, England. (Sept. 1999, p. 981)

14–16 **AMS Southeastern Section Meeting**, University of Southwestern Louisiana, Lafayette, Louisiana. (Mar. 1999, p. 380)

Information: See the AMS Meetings & Conferences pages on e-MATH, or contact Donna Salter, dls@ams.org.

15 **50th Algebra Day**, Carleton University, Ottawa, Canada. (Jan. 2000, p. 81)

16–19 **FRACTAL 2000: “Complexity and Fractals in the Sciences”, 6th International Multidisciplinary Conference**, Singapore. (May 1999, p. 596)

17–18 **Management of Digital Intellectual Property**, DIMACS Center, Rutgers University, Piscataway, New Jersey. (Dec. 1999, p. 1434)

17–28 **Elastic Shells: Modeling, Analysis and Numerics**, Mathematical Sciences Research Institute, Berkeley, California. (Sept. 1998, p. 1054)

23–29 **Spring School on Functional Analysis**, Paseky nad Jizerou, Czech Republic. (Jan. 2000, p. 81)

25–May 6 **NATO Advanced Study Institute, Nonlinear Dynamics in Life and Social Sciences**, Moscow, Russia. (Nov. 1999, p. 1287)

28–30 **Riviere-Fabes Symposium on Analysis and PDE**, University of Minnesota, Minneapolis, Minnesota. (Jan. 2000, p. 81)

May 2000

1–5 **Dispersive Corrections to Transport Equations**, IMA, University of Minnesota, Minneapolis, Minnesota. (Feb. 2000, p. 283)

1–5 **IMA Workshop: Dispersive Corrections to Transport Equations**, IMA, University of Minnesota, Minneapolis, Minnesota. (May 1999, p. 596)

8–12 **Geometric and Topological Aspects of Group Theory**, MSRI, Berkeley, California. (Oct. 1999, p. 1108)

10–12 **ICNPAA-2000, Third International Conference on Nonlinear Problems in Aviation and Aerospace (Methods and Software)**, Daytona Beach, Florida. (June/July 1999, p. 714)

* 11–15 **International Conference Dedicated to 150th Birthday of Sofia Kovalevskaya: Theory of Partial Differential Equations and Special Topics of Theory of Ordinary Differential Equations**, Euler International Mathematical Institute, St. Petersburg, Russia.

Organizers: Steklov Institute of Mathematics at St. Petersburg, Euler International Mathematical Institute, St. Petersburg Mathematical Society, St. Petersburg State University.

Program Committee: L. D. Faddeev, chair (St. Petersburg, Russia), O. A. Ladyzhenskaya (St. Petersburg, Russia), V. M. Babich (St. Petersburg, Russia), E. F. Mischenko (Moscow, Russia), M. A. Semenov-Tyan-Shansky (Russia-France), N. N. Ural'tseva (St. Petersburg, Russia).

Topics: Preferable topics connect with famous papers of S. V. Kovalevskaya: Cauchy-Kovalevskaya theorem and Kovalevskaya case of the rotation of a solid body about a fixed point.

Information: <http://www.pdmi.ras.ru/EIMI/2000/sofia/>.

15–18 **Representation Theory and Computational Algebra**, University of Georgia, Athens, Georgia. (Nov. 1999, p. 1287)

* 15–19 **International Conference on Mathematical Physics, Simulation and Approximate Methods**, Obninsk, Russia. (Dec. 1999, p. 1434)

Dedication: This conference is dedicated to the memory of famous Russian mathematician Andrey Tikhonov (1906–1993). He influenced the development of topology, mathematical physics, differential equations theory with small parameter, ill-posed problems, numerical methods, and mathematical simulations in physics.

Topics: The following sections are supposed: (1) conservation laws, (2) mathematical modelling, (3) numerical methods, (4) small parameter methods, (5) ill-posed problems.

Organizer: Chairman of the Program Committee is academician A. Samarskii.

Datelines: Deadline for abstracts: 15 April 2000.

Information: Prof. V. A. Galkin, Dept. Applied Mathematics, IATE, Obninsk, 249020, Russia; e-mail: tikhonov@iate.obninsk.ru, galkin@iate.obninsk.ru.

15–19 **International Workshop and Conference in Mathematical Analysis and Applications**, Department of Mathematics, Chiangmai University, Thailand.

17–20 **Trends in Approximation Theory, an International Symposium Celebrating the 60th Birthday of Larry L. Schumaker, held in conjunction with the 15th**

Annual Shanks Lecture, Vanderbilt University, Nashville, Tennessee. (May 1999, p. 596)

18–19 **IMA Tutorial: Simulation of Transport in Transition Regimes**, IMA, University of Minnesota, Minneapolis, Minnesota. (May 1999, p. 597)

18–21 **Year 2000 International Conference on Dynamical Systems and Differential Equations**, Kennesaw State University, Kennesaw, Georgia. (June/July 1999, p. 714)

19–21 **Middle School Mathematics Teacher Preparation**, Branson, Missouri. (Feb. 2000, p. 283)

20–22 **Schloessmann Seminar on Mathematical Models in Biology, Chemistry, and Physics**, Bad Lausick, Germany. (Dec. 1999, p. 1434)

20–25 **Summer School on Stereology and Geometric Tomography**, Sandbjerg Manor, Denmark. (Sept. 1999, p. 981)

* 21–24 **Rencontre 2000 des Mathématiciens Algériens (Meeting 2000 of Algerian Mathematicians)**, Algiers, Algeria.

Information: The Web site of the meeting is <http://www.ama.ass.dz>.

21–26 **Millennial Conference on Number Theory**, University of Illinois, Urbana, Illinois. (May 1999, p. 597)

22–26 **IMA Workshop: Simulation of Transport in Transition Regimes**, IMA, University of Minnesota, Minneapolis, Minnesota. (May 1999, p. 597)

23–27 **Great Plains Operator Theory Symposium (GPOTS)**, The Caribe Hilton Hotel, San Juan, Puerto Rico. (Feb. 2000, p. 283)

23–27 **Summer Symposium in Real Analysis**, University of North Texas, Denton, Texas. (Sept. 1999, p. 981)

24–26 **Advances in Fluid Mechanics**, Montreal, Canada. (Aug. 1999, p. 815)

28–June 2 **Nonlinear Analysis 2000**→, Courant Institute, New York University, New York. (June/July 1999, p. 714)

28–June 3 **Combinatorics 2000**, Hotel Serapo, Gaeta, Italy. (Feb. 2000, p. 283)

28–June 3 **Spring School on Analysis**, Paseky nad Jizerou, Czech Republic. (Jan. 2000, p. 81)

29–June 2 **Second International Encounter on Integer-Valued Polynomials**, CIRM, Luminy, France. (Feb. 2000, p. 283)

29–June 9 **Foliation: Geometry and Dynamics Revisited**, Banach Center, Warsaw, Poland. (June/July 1999, p. 714; Nov. 1999, p. 1287)

29–June 9 **NATO Advanced Study Institute “Special Functions 2000”**, Arizona State University, Tempe, Arizona. (Feb. 2000, p. 283)

June 2000

* 1-3 **7th Chico Topology Conference**, California State University, Chico, Chico, CA. **Focus:** The conference is devoted to the topology of continuum theory. There will be four or five 1-hour talks plus sessions for contributed talks.

Organizer: E. J. Vought, Department of Mathematics and Statistics, California State University, Chico, Chico, CA 95929.

Abstracts: Abstracts should be sent in hard copy to E. J. Vought at the above address. The deadline for submission is April 20, 2000.

Information: Contact E. J. Vought at the above address or at either of these e-mail addresses: eeevought@worldnet.att.net or evought@csuchico.edu.

3-7 **1999-2000 ASL Annual Meeting**, University of Illinois at Urbana-Champaign, Illinois. (Jan. 1999, p. 72)

* 3-8 **The Sixth International Conference on Mathematical Population Dynamics**, Marrakech, Morocco.

Program: The Sixth International Conference on Mathematical Population Dynamics is an interdisciplinary meeting of biologists and mathematicians concerned with populations of bio molecules, genes, cells, and living organisms, as well as other topics of mathematical population biology and epidemiology. The meeting will be focused on (both deterministic and stochastic) mathematical theory, model analysis, and modelling of quantitative data pertaining to cell and molecular biology, epidemiology, cancer research, population genetics, population biology, and other related areas. Proposals for topics and subjects may be submitted to the conference secretaries: M. Alexandersson, U. Olofsson, Z. Taib.

Application: Please send the application by mail, fax, e-mail; or send the online form that can be found at the conference home page, preferably before September 1, 1999, to one of the scientific secretaries and mark the envelop "MPD6".

Information: Department of Mathematics, Chalmers University of Technology, and the University of Göteborg, S-412 96 Göteborg, Sweden; phone: +46 31 772 35 30; fax: +46 31 772 35 08; e-mail: mpd6@math.chalmers.se.

4-9 **Ninth Quadrennial International Conference on Graph Theory, Combinatorics, Algorithms, and Applications**, Western Michigan University, Kalamazoo, Michigan. (Oct. 1999, p. 1108)

5-9 **Advances in Convex Analysis and Global Optimization Honoring the Memory of C. Caratheodory (1873-1950)**, Pythagorion, Samos, Greece. (Dec. 1999, p. 1435)

5-9 **IMA Workshop: Multiscale Models for Surface Evolution and Reacting Flows**, IMA, University of Minnesota, Minneapolis, Minnesota. (May 1999, p. 597)

* 5-10 **The Fifth International Petrozavodsk Conference "Probabilistic Methods in Discrete Mathematics"**, Institute of Applied Mathematical Research, Russian Academy of Institute of Applied Mathematical Research, Petrozavodsk, Russia.

Conference Sections: (1) Probabilistic problems in combinatorial analysis, (2) statistical problems in discrete mathematics, (3) mathematical methods of information security, (4) dynamic games.

Conference Languages: Official languages of the conference are Russian and English.

Information: <http://www.krc.karelia.ru/structure/math/conf/probab1/index.shtml/>. Deadline for submission of registration forms and abstracts is March 15, 2000.

7-11 **Ph.D. Euroconference on Complex Analysis and Holomorphic Dynamics**, Platja d'Aro (Costa Brava), Catalonia, Spain. (Jan. 2000, p. 81)

* 7-15 **International Conference on Geometry, Integrability and Quantization**, St. Constantine Resort (near Varna), Bulgaria.

Goal: This second edition of the conference aims, like the previous one, to bring together experts in differential geometry, complex analysis, mathematical physics, and related fields in order to assess recent developments in these areas and to stimulate research in intermediate topics.

Organizers: I. M. Mladenov (Sofia), G. L. Naber (Chico).

Information: For more information, please contact I. M. Mladenov: mladenov@bgcict.acad.br or G. L. Naber: gnaber@csuchico.edu.

12-15 **Integral Methods in Science and Engineering (IMSE2000)**, Banff Conference Centre, Banff, Alberta, Canada. (June/July 1999, p. 714)

12-15 **Tenth SIAM Conference on Discrete Mathematics**, Radisson Hotel Metrodome, Minneapolis, Minnesota. (Feb. 2000, p. 283)

12-17 **Third International Conference on Differential Equations and Applications (DIFFEQ'2000)**, St. Petersburg State Technical University, St. Petersburg, Russia. (Oct. 1999, p. 1108)

13-16 (NEW DATE) **First AMS-Scandinavian International Mathematics Meeting**, University of Odense, Odense, Denmark. (Mar. 1999, p. 381)

14-17 **International Workshop in Operator Theory and Its Applications (IWOTA 2000)**, Bordeaux Univ., Bordeaux, France. (Aug. 1999, p. 815)

15-17 **2nd Croatian Mathematical Congress**, University of Zagreb, Croatia. (Feb. 2000, p. 283)

16-17 **The Fourth Biennial Symposium on Mathematical Modeling in the Undergraduate Curriculum**, University of Wisconsin-La Crosse, Wisconsin. (Dec. 1999, p. 1435)

* 17-22 **Mathematical Analysis: EuroConference on Partial Differential Equations and Their Applications to Geometry and Physics**, Castelvecchio Pascoli, Italy.

Information: Scientific program and list of speakers available at: <http://www.esf.org/euresco/00/pc00094a/>.

Deadline for Applications: March 24, 2000.

Contact Person: R. Heywood, rheywood@esf.org.

18-21 **MCS 2000 International Conference on Monte Carlo Simulation**, Monte Carlo, Monaco. (June/July 1999, p. 714)

19-26 **Dynamical Systems**, Cetraro Cosenza, Italy. (Feb. 2000, p. 283)

19-30 **Probabilistic Combinatorics**, University of Wyoming, Laramie, Wyoming. (Jan. 2000, p. 81)

* 20-24 **Ninth Summer St. Petersburg Meeting in Mathematical Analysis**, Euler International Mathematical Institute, St. Petersburg, Russia.

Organizers: Steklov Institute of Mathematics at St. Petersburg and the Euler International Mathematical Institute.

Organizing Committee: V. I. Vasyunin, S. V. Kisliakov, N. N. Nikolsky.

Information: <http://www.pdmi.ras.ru/EIMI/2000/analysis9/>.

22-24 **CUR 2000: Research in Undergraduate Education**, The College of Wooster, Wooster, Ohio. (Nov. 1999, p. 1287)

* 24-30 **Numerical Methods for Evolution Partial Differential Equations**, Anogia, Crete, Greece.

Background: The Foundation for Research and Technology-Hellas (Institute of Applied and Computational Mathematics) in collaboration with the University of Crete (Department of Mathematics) will continue in 2000 the series Euroconferences in Mathematics on Crete.

Organizers: G. Akrivis (Ioannina, Greece), M. Crouzeix (Rennes, France).

Sponsor: The Training and Mobility of Researchers Programme of the Commission of the European Union.

Main Speakers: T. Gallouet (Marseille, France), R. Nochetto (Maryland), J. Rappaz (Lausanne, Switzerland), V. Thomee (Goeteborg, Sweden), L. Wahlbin (Cornell University).

Support: The Training and Mobility of Researchers Programme financially supports young researchers from the countries of the European Economic Area and Israel, as well as researchers from certain countries in Central and Eastern Europe, to enable them to attend the conferences. There will also be some limited funds from other sources available to support participants not belonging to the above groups. Support can cover (all or certain) travel, living, and registration expenses.

Information: S. Papadopolou, Dept. of Mathematics, Univ. of Crete, Heraklion, Crete, Greece; fax: 81-393881; e-mail:

souzana@math.ucl.ac.uk, or G. Akrivis, Dept. Of Computer Science, Univ. of Ioannina, Ioannina 45110, Greece; e-mail: akrivis@cs.uoi.gr.

*25-28 **ACA'2000: IMACS Conference on Applications of Computer Algebra**, Steklov Institute of Mathematics at St. Petersburg, St. Petersburg, Russia.

Organizers: Steklov Institute of Mathematics at St. Petersburg, Euler International Mathematical Institute, St. Petersburg Mathematical Society, St. Petersburg State University.

Committee: General chair: N. Vassiliev (St. Petersburg, Russia), Program chairs: V. Edneral (Moscow, Russia), R. Liska (Prague, Czech Republic), M. Wester (Albuquerque, USA).

Focus: The meeting will focus on actual or possible applications of nontrivial computer algebra techniques to other fields and substantial interactions of computer algebra with other fields. The meeting will be run in the standard IMACS format, where individuals are invited to organize a special session. Individuals can propose a special session by contacting the program chairs. All paper submissions must be directed to an organizer of an appropriate special session.

Information: <http://www.pdmi.ras.ru/EIMI/2000/imacs/>.

26-28 **Heat Transfer 2000, Advanced Computational Methods in Heat Transfer**, Madrid, Spain. (Nov. 1999, p. 1287)

26-28 **The 5th Workshop on Numerical Ranges and Numerical Radii**, Nafplio, Greece. (Dec. 1999, p. 1435)

26-29 **Fifteenth Annual IEEE Symposium on Logic in Computer Science**, Santa Barbara, California. (Feb. 2000, p. 283)

*26-30 **Conference on Differential Equations and Dynamical Systems in Honor of Waldyr Oliva**, Instituto Superior Tecnico, Lisbon, Portugal.

Confirmed Invited Speakers: P. Collet (Ecole Polytechnique), P. Cordaro (Univ. S. Paulo), E. Faria (Univ. S. Paulo), D. de Figueiredo (UNICAMP), G. Fusco (Univ. L'Aquila), G. Gallavotti (Univ. Roma I), A. Galves (Univ. S. Paulo), J. K. Hale (Georgia Tech), R. Langevin (Univ. Bourgogne), O. Lopes (UNICAMP), W. M. Oliva (Inst. Sup. Técnico), M. Peixoto (IMPA), H. Rodrigues (Univ. S. Paulo), R. Roussarie (Univ. Bourgogne), C. Simó (Univ. Barcelona), J. Sotomayor (Univ. S. Paulo), M. Teixeira (UNICAMP), M. Viana (IMPA), J. Xia (Northwestern Univ.).

Organizers: F. P. da Costa, R. L. Fernandes, P. G. Henriques, and C. Rocha (Center for Mathematical Analysis, Geometry, and Dynamical Systems, IST, Lisbon).

Registration: Participants should send an application to the organizers not later than April 30, 2000. The registration fee is 5000 Portuguese Escudos (free for students).

Information: For additional information please contact the organizers at the address: Dep. Matemática, Instituto Superior Técnico, Avenida Rovisco Pais 1, P-1049-001 Lisboa, Portugal; fax: 351-213523014; e-mail: wolivacf@math.ist.utl.pt; URL address: http://www.math.ist.utl.pt/cam/encontros/_oliva.html.

26-30 **Formal Power Series and Algebraic Combinatorics (FPSAC'00)**, Moscow State University, Moscow, Russia. (Sept. 1999, p. 981)

*26-30 **Nonlinear Modeling and Control, An International Seminar**, Nayanova University, Samara, Russia.

Purpose: The seminar's aim is the exchange of information about recent trends in mathematical modeling and control theory and their applications to various problems in physics, chemistry, biology, medicine, the economy, and industrial concerns.

Call for Papers: Original papers related to the aim of the seminar are solicited. Potential speakers should submit an abstract before April 30. The cover page should contain title, affiliation, and e-mail address of each author. Electronic submissions in LaTeX are encouraged.

Information and Submission: V. Sobolev (organizer, e-mail: sable@ssu.samara.ru), or H. Gorelova (seminar coordinator, e-mail: gor@rs34.ssau.ru or gorhel@ssu.samara.ru; Nayanova University, Molodogvardeiskaya 196, Samara, 443001, Russia.

*26-30 **Using Scientific Notebook and Teach and Learn Mathematics**, Colorado State University, Fort Collins, Colorado.

Information: For more information see <http://hardy.math.colostate.edu/workshop/>.

27-July 1 **The 18th International Conference on Operator Theory**, University of the West, Timisoara, Romania. (Jan. 2000, p. 81)

28-July 6 **Diophantine Approximation**, Cetraro Cosenza, Italy. (Feb. 2000, p. 284)

30-July 2 **2000 Centennial Vranceanu**, Romanian Academy, Bucharest University, Romania. (Jan. 2000, p. 81)

July 2000

2-15 **NATO Advanced Study Institute 20th Century Harmonic Analysis—a Celebration**, Il Ciocco Resort Hotel, Tuscany, Italy. (Nov. 1999, p. 1287)

3-7 **ALHAMBRA 2000**, Granada, Spain. (Oct. 1999, p. 1108)

3-7 **ANTS IV (Algorithmic Number Theory Symposium IV)**, Korteweg de Vries Institute for Mathematics, University of Amsterdam, The Netherlands. (Oct. 1998, p. 1230)

*3-7 **Com2MaC Conference on Association Schemes, Codes and Designs**, Pohang University of Science and Technology, Pohang, Korea.

Program: Plenary lectures (45-60 minutes), invited lectures, and contributed presentations of 30 minutes.

Plenary Speakers: E. Bannai, A. Brouwer, C. Godsil, T. Ito, A. A. Ivanov, M. Ozeki, V. Pless, C. E. Praeger, D. K. Ray-Chaudhuri, N. J. A. Sloane, P. Terwilliger, M. Tsfasman, J. H. van Lint, Z.-X. Wan.

Deadlines: Authors are invited to submit an extended abstract before February 29, 2000, by e-mail to sysong@iastakte.edu or at the address: Sung-Yell Song, Department of Mathematics, Iowa State University, Ames, IA 50011, USA. The submitted abstract should include a short summary with a maximum of 200 words. Notification of acceptance will be given by March 15, 2000. Limited funds are available for partial support of particular graduate students and junior researchers, whose abstracts are accepted. All requests should be submitted by March 31, 2000. The authors whose papers are accepted will be required to register for the conference by May 15, 2000.

Information: Com2MaC@postech.ac.kr; sysong@iastate.edu; <http://Com2MaC.postech.ac.kr/>.

3-7 **Functional Analysis Valencia 2000**, Technical University of Valencia, Valencia, Spain. (Jan. 1999, p. 72)

3-7 **Sixth International Conference on p-Adic Analysis**, Ioannina, Greece. (June/July 1999, p. 715)

*3-7 **Symposium on Geometry of Submanifolds and Related Problems**, Granada, Spain.

Topics: In this symposium, we will consider the following topics: General theory of submanifolds with emphasis in minimal submanifolds, constant mean curvature hypersurfaces, Willmore immersions, submanifolds of Kaehler manifolds and submanifolds of semi-Riemannian manifolds. We will also be interested in the study of eigenvalues of the Laplace and Dirac operators, mainly in those aspects related with submanifolds, such as lower and upper estimates of eigenvalues on submanifolds and characterization of particular submanifolds by means of these spectral invariants.

Organizers: The conference is organized by S. Montiel (Univ. Granada), O. Hijazi (Univ. Henri Poincaré - Nancy I - France).

Information: More information is available from the Web page <http://ugr.es/local/alhambra2000/>.

*3-7 **Symposium on Orthogonal Polynomials**, Granada, Spain.

Contents and Scope: Over the last years the theory of orthogonal polynomials has attracted considerable attention. The main reason for this interest lies in their applicability in areas such as approximation theory, numerical analysis, scattering theory, nuclear physics, solid state physics, digital signal processing, electrical engineering and so forth. The aim of this symposium is

to bring together specialists from several areas interested in different aspects of the theory and applications of orthogonal polynomials, as well as to provide a meeting point for the presentation and discussion of new developments in the field.

Organizers: The conference is organized by F. M. Espanol (Univ. Granada, Spain) and M. P. Gonzalez (Univ. Granada, Spain).

Information: More information is available from the Web page <http://ugr.es/local/alhambra2000/>.

*3-7 **Symposium on Representation Theory of Algebras**, Granada, Spain.

Contents and Scope: This symposium aims to show the state of the art of the broad field representation theory of algebras. This theory includes the study of the structure and representation of ring and algebras; also groups, Lie algebras and superalgebras, quivers, posets, etc.; as well as rings of differential operators, C^* -algebras, quantum groups and Hopf algebras.

Organizers: The symposium is organized by A. Verschoren (Univ. Antwerp - Belgium) (aver@wins.uia.ac.be) and P. J. Martinez (Univ. Granada - Spain) (pjara@ugr.es).

Information: More information is available from the Web page <http://ugr.es/local/alhambra2000/>.

*3-7 **Symposium on Symmetry**, Granada, Spain.

Contents and Scope: Symmetry has been widely known as a central concept in science since ancient times. Symmetry also plays an important methodological role in modern art and science. Inspired by various cultural traditions, from Europe to Africa and from the Far East to America, symmetry can bridge different branches of science and arts, as well as different human cultures, and thus avoid overspecialization and some related problems. In this symposium, we are interested especially about the modern viewpoints of symmetry: 1. Regularity of periodical and nonperiodical designs, the crystallographic groups and their relationship with the symmetry of ornamentation, and NEC groups. 2. Theory of color. 3. Applications of symmetry theory to other sciences.

Organizers: The symposium is organized by Denes Nagy (U. Tsukuba - Japan) nagy@bk.tsukuba.ac.jp.

Information: More information is available from the Web page <http://ugr.es/local/alhambra2000/>.

3-9 **Mathematical Aspects of Evolving Interfaces**, Funchal, Portugal. (Feb. 2000, p. 284)

3-14 **SMS-NATO ASI: Approximation, Complex Analysis, and Potential Theory**, Université de Montréal, Canada. (Dec. 1999, p. 1435)

4-6 **Catop2000**, Department of Mathematics, University of Fribourg, Fribourg, Switzerland. (Oct. 1999, p. 1109)

5-7 **Scandinavian Workshop on Algorithm Theory**, Bergen, Norway. (Nov. 1999, p. 1287)

*5-8 **The 6th Barcelona Logic Meeting**, Barcelona, Spain

Topics: All areas of mathematical logic, with an emphasis in algebraic logic, model theory and set theory. The scientific program will consist of several one-hour invited lectures and a number of twenty-minute contributed talks.

Invited Speakers: J. L. Balcázar (Univ. Politècnica de Catalunya), J. T. Baldwin (Univ. of Illinois at Chicago), P. Dellunde (Univ. Autònoma de Barcelona), Sy. D. Friedman (Univ. Wien), P. Koepke (Univ. Bonn), J. D. Monk (Univ. of Colorado at Boulder), Y. Peterzil (Univ. of Haifa), A. Pillay (Univ. of Illinois at Urbana-Champaign), Y. Venema (Univ. of Amsterdam), M. Zakharyashev (Keldysh Inst. for Applied Mathematics, Moscow).

Information: Any further information, forms to register and to apply for financial assistance, hotel information, etc., will be available on the Web site of the Congress <http://crm.es/6blm>, or from the e-mail address 6blm@crm.es or by writing to 6th BLM, Centre de Recerca Matemàtica (CRM), Apartat 50, 08193 Bellaterra (Barcelona), Spain.

5-8 **International Conference on Ordinal and Symbolic Data Analysis - OSDA 2000**, Université Libre de Bruxelles (ULB), Brussels, Belgium. (Feb. 2000, p. 284)

6-8 **The 6th Barcelona Logic Meeting**, Barcelona, Spain. (Nov. 1999, p. 1287)

9-15 **AGRAM Conference on Abelian Groups, Rings and Modules**, The University of Western Australia, Perth, Australia. (June/July 1999, p. 715)

9-15 **Mathematical Methods for Protein Structure Analysis and Design**, Martina Franca, Taranto, Italy. (Feb. 2000, p. 284)

9-28 **Workshop On Mathematical Models of Individual and Public Choice**, University of California, Irvine, California. (Oct. 1999, p. 1109)

10-14 **2000 SIAM Annual Meeting**, Westin Rio Mar Beach Resort and Country Club, Rio Grande, Puerto Rico. (Feb. 2000, p. 284)

*10-14 **Third European Congress of Mathematics (3ecm)**, Barcelona, Spain. (Feb. 2000, p. 284)

Organizers: Societat Catalana de Matemàtiques, under the auspices of the European Mathematical Society.

Plenary Lectures: R. Dijkgraaf, H. Föllmer, H. W. Lenstra Jr., Yu. I. Manin, Y. Meyer, C. Simó, M.-F. Vignéras, O. Viro, A. J. Wiles. There will also be parallel lectures and minisymposia.

Other Activities: The scientific program of the congress also includes parallel lectures, mini-symposia, lectures by EMS prize winners, roundtable discussions, poster sessions, presentations of mathematical soft-

ware, and exhibitions of video and multimedia with mathematical content.

Deadlines: For registration at a reduced fee: April 1, 2000. For grant requests: January 31. For submission of poster abstracts: March 1. For submissions of mathematical software, video, and multimedia: February 1. For proposals of satellite activities: February 1.

Information: Further information can be found at the Web sites <http://www.iec.es/3ecm/> and <http://www.si.upc.es/3ecm/>, which should also be used for registration. Mail can be sent to Societat Catalana de Matemàtiques, Institut d'Estudis Catalans, Carrer del Carme 47, E-08001 Barcelona, Spain; e-mail: 3ecm@iec.es.

13-17 **International Conference on Foundations of Computational Mathematics in honor of Professor Steve Smale's 70th Birthday**, City University of Hong Kong, Kowloon, Hong Kong. (Jan. 2000, p. 81)

16-August 5 **IAS/Park City Mathematics Institute**, Institute for Advanced Study, Princeton, New Jersey. (Dec. 1999, p. 1435)

17-21 **Colloquium on Semigroups**, József Attila University, Bolyai Institute, Szeged, Hungary. (Feb. 2000, p. 284)

17-21 **Ninth International Conference on Fibonacci Numbers and their Applications**, Luxembourg-City, Luxembourg. (Sept. 1999, p. 982)

17-22 **International Congress on Mathematical Physics**, Imperial College, London, United Kingdom. (Nov. 1998, p. 1378)

17-22 **I Colloquium on Lie Theory and Applications**, E.T.S.I. Telecomunicaciones, Vigo, Spain. (June/July 1999, p. 715)

19-26 **Conference on Algebra and Algebraic Geometry with Applications**, Purdue University, West Lafayette, Indiana. (Jan. 2000, p. 82)

19-26 **The Third World Congress of Non-linear Analysts (WCNA-2000)**, Catania, Italy. (Feb. 1998, p. 296)

*20-24 **International Workshop on Number Theory in Honor of Professor Chao Ko's 90th Birthday**, Sichuan University, Chengdu, P.R. China.

Topics: This conference will focus on arithmetic algebraic geometry, analytic number theory, arithmetic of function fields, L-functions, diophantine equations, and applications of number theory in cryptography.

Scientific Committee: Y. Wang (Chair), K. Feng (Co-Chair), Q. Sun (Co-Chair), D. Pei, T. Zhan, Z. Jia, S. Zhang (USA), D. Wan (USA), M. Liao (Hong Kong), J. Yu (Taiwan).

Organizing Committee: T. Lu (Chair), Y. Liu (Co-Chair), A. Li (Co-Chair), D. Xu (Secretary-General), S. Yan, Z. Han, Q. Zhang, G. Peng.

Format: In addition to some invited lectures, we anticipate a small number of contributed lectures. Abstracts of contributed papers should be received by April 30, 2000. Abstracts should be typed in LaTeX,

not to exceed one page, and sent by e-mail to G. Peng, (ghpeng@mail.sc.cninfo.net) or Q. Zhang, (sszibbh@mail.sc.cninfo.net). **Information:** Please contact G. Peng or Q. Zheng at the above e-mail addresses or visit <http://math.uci.edu/~dwan/ko.html/>.

21–31 **2000 ASL European Summer Meeting (Logic Colloquium 2000)**, Paris, France. (Oct. 1998, p. 1230)

* 22–28 **New Mathematical Methods in Continuum Mechanics**, Anogia, Crete, Greece. **Background:** The Foundation for Research and Technology-Hellas (Institute of Applied and Computational Mathematics) in collaboration with the University of Crete (Department of Mathematics) will continue in 2000 the series Euroconferences in Mathematics on Crete.

Organizers: J. Ball (Oxford, United Kingdom), S. Mueller (Leipzig, Germany).

Sponsor: The Training and Mobility of Researchers Programme of the Commission of the European Union.

Main Speakers: A. Bressan (SISSA Trieste, Italy), G. Francfort (Paris-Nord, France), G. Friesecke (Oxford, United Kingdom), R. James (Minnesota), V. Sverak (Minnesota).

Support: The Training and Mobility of Researchers Programme financially supports young researchers from the countries of the European Economic Area and Israel, as well as researchers from certain countries in Central and Eastern Europe, to enable them to attend the conferences. There will also be some limited funds from other sources available to support participants not belonging to the above groups. Support can cover (all or certain) travel, living, and registration expenses.

Information: S. Papadopoulou, Dept. of Mathematics, Univ. of Crete, Heraklion, Crete, Greece; fax: 81-393881; e-mail: souzana@math.ucl.ac.uk or J. Ball, Mathematical Institute, Oxford University, 24-29 St. Giles, Oxford OX1 3LB, United Kingdom; e-mail: ball@maths.ox.ac.uk.

* 24–29 **SIAG OP-SF Summer School 2000**, Laredo, Spain.

Program: The SIAM Activity group (SIAG) on Orthogonal Polynomials and Special Functions (OP-SF) intends to organize a series of summer schools starting this year (2000). The first of such meetings will take place in Laredo, Spain, and its main goal is to give five introductory courses in advanced research topics on Orthogonal Polynomials and Special Functions. Courses will be presented by A. J. Duran (Univ. de Sevilla, Spain), H. T. Koelink (Technische Univ. Delft, The Netherlands), K. T-R. McLaughlin (Univ. of Arizona), J. Prestin (Inst. of Biomathematics and Biometry, Neuherberg, Germany), J. Stokman (Centre de Mathématiques de Jussieu, Univ. Pierre et Marie Curie, France). Some free discussions as well as some informal seminars will also be available.

Participants: The expected audience are graduate and recent postgraduate students (around 25 people who will receive grants for their living expenses and accommodation) and active researchers (around 35 people).

Organizing Committee: The organizing committee is: R. Álvarez-Nodarse (Univ. de Sevilla, Spain), F. Marcellán (Univ. Carlos III, Spain), W. Van Assche (Univ. Katholieke Univ. Leuven, Belgium), and R. Yáñez (Univ. de Granada, Spain).

Information: For further information, please contact R. Álvarez-Nodarse, (ran@cica.es) or F. Marcellán, (pacomarc@ing.uc3m.es).

28–30 **The Third Annual Conference of Bridges: Mathematical Connections in Art, Music, and Science**, Southwestern College, Winfield, Kansas. (Dec. 1999, p. 1436)

* 29–August 4 **Curves and Abelian Varieties over Finite Fields and Their Applications**, Anogia, Crete, Greece.

Background: The Foundation for Research and Technology-Hellas (Institute of Applied and Computational Mathematics) in collaboration with the University of Crete (Department of Mathematics) will continue in 2000 the series Euroconferences in Mathematics on Crete.

Organizers: G. van der Geer (Amsterdam, Holland), R. Schoof (Rome, Italy).

Sponsor: The Training and Mobility of Researchers Programme of the Commission of the European Union.

Main Speakers: N. Elkies (Harvard Univ.), G. van der Geer (Amsterdam, Holland), R. Pellikaan (Eindhoven, Holland), R. Schoof (Rome, Italy), M. Tsfasman (Marseille, France).

Support: The Training and Mobility of Researchers Programme financially supports young researchers from the countries of the European Economic Area and Israel, as well as researchers from certain countries in Central and Eastern Europe, to enable them to attend the conferences. There will also be some limited funds from other sources available to support participants not belonging to the above groups. Support can cover (all or certain) travel, living, and registration expenses.

Information: S. Papadopoulou, Dept. of Mathematics, Univ. of Crete, Heraklion, Crete, Greece; fax: 81-393881; e-mail: souzana@math.ucl.ac.uk, or G. van der Geer, Faculty of Mathematics, Univ. van Amsterdam, 1018 WB Amsterdam, The Netherlands; e-mail: geer@wins.uva.nl.

30–August 5 **ICOR 2000**, Innsbruck, Austria. (Feb. 2000, p. 284)

31–August 3 **Third Conference of Balkan Society of Geometers**, Univ. Politehnica of Bucharest, Bucharest, Romania. (June/July 1999, p. 715)

31–August 4 **Numerical Modelling in Continuum Mechanics**, Prague, Czech Republic. (Jan. 2000, p. 82)

31–August 5 **KNOTS 2000, KAIST**, Yongpyong Resort, Kangwon-do, Korea (South of). (Nov. 1999, p. 1288)

* 31–August 18 **Mathematical Geophysics Summer School**, Stanford University, Stanford, California.

Program: The Mathematical Geophysics Summer School (MGSS) is an NSF-funded program being held at Stanford University during the month of August from 1998–2002. Its overall purpose is to attract the attention and interest of theoreticians (applied mathematicians in particular) to the many interesting and important problems in geophysics, as well as to define mathematically, address and solve some of these problems. The topic for MGSS 2000 is Waves and Inhomogeneous Media.

Information: For more information and an application, see the Web page at <http://cartan.stanford.edu/mgss/> or e-mail: mgss@math.stanford.edu.

August 2000

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

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

* 1–6 **Clifford Analysis, Its Applications to Mathematical Physics and Related Topics: In Honor of the Occasion of L. K. Hua's 90th Birthday**, Beijing, China

Scientific Program Committee: X. Ji (Beijing), T. Qian (Australia), M. Mitrea (USA), Q. Lu (Beijing), J. Ryan (USA), W. Lin (Guangzhou), W. Sproessing (Germany), S. Gong (Beijing), A. McIntosh (Australia), Z. Wu (Guangzhou), M. Shapiro (Mexico), R. DeLanghe (Belgium), D. Struppa (USA), Z. Wu (USA), E. Meister (Germany), K. Guerlebeck (Germany), Th. Rassias (Greece).

Contact Persons: X. Ji, (xhji@math03.math.ac.cn); J. Ryan, (jryan@comp.uark.edu); and W. Sproessig, (sproessig@math.tu-freiberg.de). Web Page: <http://mathe.tu-freiberg.de/beijing2000/>. Deadline for abstracts: June 1, 2000.

2–18 **Rings, Modules and Representations – Constanta 2000**, Ovidius University, Constanta, Romania. (Dec. 1999, p. 1436)

* 3–5 **Mathematical Association of America's Mathfest 2000**, UCLA, Los Angeles, CA.

* 6–9 **ISSAC 2000 — International Symposium on Symbolic and Algebraic Computation**, St. Andrews University, Scotland

Information: For more information, please refer to the conference Web page, <http://gap.dcs.st-and.ac.uk/issac2000/>. E-mail inquiries may be sent to issac2000@dcs.st-and.ac.uk or to one of the conference committee members listed below: General Chair: T. Recio, recio@matesco.

unican.es; Local Arrangements Chair: S. Linton, sal@dcs.st-and.ac.uk; Program Committee Chair: C. Bajaj, bajaj@cs.utexas.edu; Tutorial Chair: J. Schicho, josef.schicho@risc.uni-linz.ac.at; Exhibitor Chair: M. Maza, Numerical Algorithms Group, marc@nag.co.uk; Poster Session Chair: A. Cohen, amc@win.tue.nl; Editor: C. Traverso, traverso@posso.dm.unipi.it; Treasurer: C. Campbell, cmc@st-andrews.ac.uk; Publicity Chair: P. Chin, pchin@wlu.ca.

7-12 Mathematical Challenges of the 21st Century, UCLA, Los Angeles, California. (Mar. 1999, p. 381)

7-12 Nevanlinna Colloquium, University of Helsinki, Helsinki, Finland. (May 1998, p. 642)

9-12 Third International Palestinian Conference on Mathematics and Mathematical Education, Bethlehem University, Palestine. (Feb. 2000, p. 284)

* **19-25 Discrete and Algorithmic Geometry**, Anogia, Crete, Greece.

Background: The Foundation for Research and Technology-Hellas (Institute of Applied and Computational Mathematics) in collaboration with the University of Crete (Department of Mathematics) will continue in 2000 the series Euroconferences in Mathematics on Crete.

Organizers: G. M. Ziegler (Berlin, Germany), E. Welzl (Zurich, Switzerland).

Sponsor: The Training and Mobility of Researchers Programme of the Commission of the European Union.

Main Speakers: G. Kalai (Jerusalem, Israel), R. Seidel (Saarbruecken, Germany), J. Snoeyink (Vancouver, Canada), E. Welzl (Zurich, Switzerland), G. M. Ziegler (Berlin, Germany).

Support: The Training and Mobility of Researchers Programme financially supports young researchers from the countries of the European Economic Area and Israel, as well as researchers from certain countries in Central and Eastern Europe, to enable them to attend the conferences. There will also be some limited funds from other sources available to support participants not belonging to the above groups. Support can cover (all or certain) travel, living, and registration expenses.

Information: S. Papadopoulou, Dept. of Mathematics, Univ. of Crete, Heraklion, Crete, Greece; fax: 81-393881; e-mail: souzana@math.uh.gr, or G. M. Ziegler, Fachbereich Mathematik, Technische Univ., Berlin, Strasse des 17 Juni 135, 10623 Berlin, Germany; e-mail: ziegler@math.tu-berlin.de.

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

21-25 16th IMACS World Congress (IMACS

Congress 2000), Lausanne, Switzerland. (Oct. 1999, p. 1109)

22-24 The Fifth Iranian Statistics Conference, Isfahan University of Technology, Isfahan, Iran. (June/July 1999, p. 715)

September 2000

September 2000-June 2001 Mathematical Logic, Mittag-Leffler Institute, Djursholm, Sweden. (Feb. 2000, p. 285)

3-10 Noncommutative Geometry, Martina Franca, Taranto, Italy. (Feb. 2000, p. 285)

* **4-6 BEM 22 — 22nd International Conference on the Boundary Element Method**, New Hall, Cambridge University, UK

Organizers: Wessex Institute of Technology (WIT), Ashurst Lodge, Southampton, SO40 7AA, UK.

Information: For further details contact Karen Savage, BEM 22/1485; e-mail: ksavage@wessex.ac.uk; Web site: <http://wessex.ac.uk/conferences/2000/>; tel: 44 (0) 238 029 3223; fax: 44 (0) 238 029 2853.

* **4-15 Spatial Structures in Biology and Ecology: Models and Methods**, Taranto, Italy.

Description: The European Society for Mathematical and Theoretical Biology (ESMTB) will sponsor a Biomathematics Summer School to be held in Martina Franca (Taranto, Italy).

Deadlines: Scholarship applications: April 30, 2000. Communication of scholarship attributions: May 30, 2000. Reduced-fee registrations: June 30, 2000.

Information: Updated information about the school as well as a direct Web contact form is to be found on the Web page: http://mat.unimi.it/~miriam/ismtb/martina-ss/summer_school.html/.

5-16 Advanced Course on Algebraic Quantum Groups, Centre de Recerca Matemàtica, Campus of the Universitat Autònoma de Barcelona, Bellaterra, Spain. (Jan. 2000, p. 82)

* **8-10 IMA Career Workshop: Connecting Women in Mathematical Sciences to Industry**, IMA, University of Minnesota, Minneapolis, Minnesota.

Organizers: R. E. Chang, S. Lenhart (Univ. of Tennessee), M. H. Wright (Bell Labs).

Information: Institute for Mathematics and its Applications, University of Minnesota, 207 Church St. SE, 400 Lind Hall, Minneapolis, MN 55455. Phone: 612-624-6066, e-mail: staff@ima.umn.edu or Web page: http://ima.umn.edu/women_in_industry.html/.

* **11-15 IMA Short Course: Markov Processes and Markov Random Fields, Information Theory, Statistical Estimation**, IMA, University of Minnesota, Minneapolis, Minnesota.

Organizers: S. Geman (Brown Univ.). **Information:** Institute for Mathematics and its Applications, University of Minnesota,

207 Church St. SE, 400 Lind Hall, Minneapolis, MN 55455. Phone: 612-624-6066, e-mail: staff@ima.umn.edu or Web page: <http://ima.umn.edu/multimedia/fall/t1.html/>.

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

12-15 International Workshop on Operator Theory and Applications (IWOTA), Faro, Portugal. (Oct. 1999, p. 1109)

* **15-17 Homogenization and Materials Science**, University of Akron, Akron, Ohio.

Description: An international conference in honor of the late Professor Ulrich Hornung of Bundeswehr University, Munich, Germany.

Topics: Nonlinear homogenization, effective computational schemes for composites and strongly heterogeneous materials, porous media, polymeric composites, saves in heterogeneous materials, mesoscale models derived from the microscale, evolution of microstructure, and homogenization applications in biology.

Organizing Committee: USA - L. Beryland, A. Friedman, S. I. Hariharan, W. Mattice, and G. Young. Europe - M. Bendsoe, D. Cioranescu, A. Damlamian, and W. Jäger.

Honorary Chair of the Scientific Committee: J. L. Lions.

Information: For more information visit <http://uakron.edu/ARTSCI/index.html/> and select Conferences, Seminars & Lectures.

* **18-22 IMA Workshop 1: Mathematical Foundations of Speech Processing and Recognition**, IMA, University of Minnesota, Minneapolis, Minnesota.

Organizers: S. Khudanpur (John Hopkins Univ), M. Ostendorf (Boston Univ., Univ. of Washington), R. Rosenfeld (Carnegie Mellon Univ.).

Information: Institute for Mathematics and its Applications, University of Minnesota, 207 Church St. SE, 400 Lind Hall, Minneapolis, MN 55455. Phone: 612-624-6066, e-mail: staff@ima.umn.edu or Web page: <http://ima.umn.edu/multimedia/fall/m1.html/>.

18-22 International Data Analysis Conference, Innsbruck, Austria. (Mar. 99, p. 381)

18-23 International Congress on Differential Geometry, in Memory of Alfred Gray (1939-1998), Bilbao, Spain. (Sept. 1999, p. 982)

19-22 SCAN 2000: 9th GAMM - IMACS International Symposium on Scientific Computing, Computer Arithmetic, and Validated Numerics, University of Karlsruhe, Karlsruhe, Germany. (Nov. 1999, p. 1288)

22-24 AMS Central Section Meeting, University of Toronto, Toronto, Ontario, Canada. (Nov. 1998, p. 1378)

Information: Information will be posted on the meetings pages of e-MATH.

25-27 **The Third International Workshop on Automated Deduction in Geometry**, ETH, Zurich, Switzerland. (Feb. 2000, p. 285)

October 2000

7-10 **International Conference on the Mathematical Modeling and Computational Experiments (ICMMCE)**, Dushanbe, Tajikistan. (Jan. 2000, p. 82)

* 11-14 **IMA Mini-Symposium: Brain Imaging**, IMA, University of Minnesota, Minneapolis, Minnesota.

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

* 16-20 **IMA Workshop 2: Image Processing and Low Level Vision**, IMA, University of Minnesota, Minneapolis, Minnesota.

Organizers: A. Tannenbaum (Univ. of Minnesota), P. Olver (Univ. of Minnesota), D. McClure (Brown Univ.), P. Perone (Caltech).
Information: Institute for Mathematics and its Applications, University of Minnesota, 207 Church St. SE, 400 Lind Hall, Minneapolis, MN 55455. Phone: 612-624-6066, e-mail: staff@ima.umn.edu or Web page: <http://ima.umn.edu/multimedia/fall/m2.html>.

* 19-21 **Midwest Differential Equation Conference on Differential and Difference Equations**, Concordia College, Moodhead, MN

Plenary Speakers: M. Bohner (Missouri-Rolla), L. Erbe (Nebraska-Lincoln), J. Henderson (Auburn), J. Muldowney (Alberta), G. Sell (Minnesota).

Deadlines: Deadlines for contributed paper abstracts and other conference information may be found on the conference Website <http://cord.edu/kfaculty/andersod/midwestde.htm>.

23-25 **Third International Conference on Applied Mathematics and Engineering Sciences**, Ecole Hassania des Travaux Publics, Casablanca, Morocco. (Dec. 1999, p. 1436)

23-27 **Third Asian Mathematical Conference (AMC2000)**, Manila, Philippines. (Dec. 1999, p. 1436)

* 30-November 3 **IMA Workshop 3: Mathematical Foundations of Natural Language Modeling**, IMA, University of Minnesota, Minneapolis, Minnesota.

Organizers: R. Rosenfeld (Carnegie Mellon Univ.), S. Khudanpur (John Hopkins Univ.), M. Johnson (Brown Univ.), F. Jelinek (John Hopkins Univ).

Information: Institute for Mathematics and its Applications, University of Minnesota, 207 Church St. SE, 400 Lind Hall, Minneapolis, MN 55455. Phone: 612-624-6066,

e-mail: staff@ima.umn.edu or Web page: <http://ima.umn.edu/multimedia/fall/m3.html>.

November 2000

3-5 **AMS Northeastern Section Meeting**, Columbia University, New York, New York. (Nov. 1998, p. 1378)

Information: Information will be posted on the meetings pages on e-MATH.

* 13-17 **IMA Workshop 4: Image Analysis and High Level Vision Modeling**, IMA, University of Minnesota, Minneapolis, Minnesota.

Organizers: P. Olver (Univ. of Minnesota), A. Tannenbaum (Univ. of Minnesota), D. Geman, S. Zucker (Yale), Y. Amit (Univ. of Chicago).

Information: Institute for Mathematics and its Applications, University of Minnesota, 207 Church St. SE, 400 Lind Hall, Minneapolis, MN 55455. Phone: 612-624-6066, e-mail: staff@ima.umn.edu or Web page: <http://ima.umn.edu/multimedia/fall/m4.html>.

January 2001

January-May **MSRI Program in Spectral Invariants—Analytic and Geometric Aspects**, Mathematical Sciences Research Institute, Berkeley, California. (Sept. 1998, p. 1054)

4-8 **Second Pacific Rim Conference on Mathematics**, Institute of Mathematics, Academia Sinica, Taipei, R.O.C. (Taiwan). (Dec. 1999, p. 1436)

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

* 17-19 **IMA Mini-Symposium: Fractals in Multimedia**, IMA, University of Minnesota, Minneapolis, Minnesota

Organizers: M. Barnsley (Georgia Tech).
Information: Institute for Mathematics and its Applications, University of Minnesota, 207 Church St. SE, 400 Lind Hall, Minneapolis, MN 55455. Phone: 612-624-6066, e-mail: staff@ima.umn.edu or Web page: <http://ima.umn.edu/multimedia/winter/ms.html>.

* 25-26 **IMA Tutorial: Digital Libraries**, IMA, University of Minnesota, Minneapolis, Minnesota.

Organizers: A. Tewfik (Univ. of Minnesota).
Information: Institute for Mathematics and its Applications, University of Minnesota, 207 Church St. SE, 400 Lind Hall, Minneapolis, MN 55455. Phone: 612-624-6066, e-mail: staff@ima.umn.edu or Web page: <http://ima.umn.edu/multimedia/winter/tut.html>.

* 29-February 2 **IMA Workshop 5: Digital Libraries: Data Modeling and Representa-**

tion, IMA, University of Minnesota, Minneapolis, Minnesota.

Organizers: R. Gray (Stanford Univ.), J. Johnston (AT&T), M. Orchard (Princeton Univ.), S. Shakhbar (Univ. of Minnesota).

Information: Institute for Mathematics and its Applications, University of Minnesota, 207 Church St. SE, 400 Lind Hall, Minneapolis, MN 55455. Phone: 612-624-6066, e-mail: staff@ima.umn.edu or Web page: <http://ima.umn.edu/multimedia/winter/m5.html>.

February 2001

* 12-16 **IMA Workshop 6A: Digital Libraries: Digital Asset Management**, IMA, University of Minnesota, Minneapolis, Minnesota.

Organizers: M. Barnsley (Georgia Tech), G. Cybenko (Dartmouth), D. Du (Univ. of Minnesota).

Information: Institute for Mathematics and its Applications, University of Minnesota, 207 Church St. SE, 400 Lind Hall, Minneapolis, MN 55455. Phone: 612-624-6066, e-mail: staff@ima.umn.edu or Web page: <http://ima.umn.edu/multimedia/winter/m6.html>.

* 26-March 2 **IMA Workshop 6B: Digital Libraries: Classification, Retrieval and Visualization**, IMA, University of Minnesota, Minneapolis, Minnesota.

Organizers: D. Forsyth (UC Berkeley), B.-L. Yeo (Intel), other organizers to be announced.

Information: Institute for Mathematics and its Applications, University of Minnesota, 207 Church St. SE, 400 Lind Hall, Minneapolis, MN 55455. Phone: 612-624-6066, e-mail: staff@ima.umn.edu or Web page: <http://ima.umn.edu/multimedia/winter/m7.html>.

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

April 2001

* 9-13 **Joint IDR-IMA Workshop: Ideal Data Representation**, IMA, University of Minnesota, Minneapolis, Minnesota.

Organizers: R. DeVore (IDR Organizer, Univ. of South Carolina-Columbia), A. Ron (IDR Organizer, Univ. of Wisconsin - Madison), P. Van Fleet (Workshop Organizer, Univ. of Saint Thomas).

Information: Institute for Mathematics and its Applications, University of Minnesota, 207 Church St. SE, 400 Lind Hall, Minneapolis, MN 55455. Phone: 612-624-6066, e-mail: staff@ima.umn.edu or Web page: <http://ima.umn.edu/multimedia/spring/idr.html>.

* 19-20 **IMA Tutorial: Geometric Design**, IMA, University of Minnesota, Minneapolis, Minnesota.

Organizers: L. Schumaker (Vanderbilt Univ.), R. Chang.

Information: Institute for Mathematics and its Applications, University of Minnesota, 207 Church St. SE, 400 Lind Hall, Minneapolis, MN 55455. Phone: 612-624-6066, e-mail: staff@ima.umn.edu or Web page: <http://ima.umn.edu/multimedia/spring/tut7.html/>.

* 23-27 **IMA Workshop 7: Geometric Design**, IMA, University of Minnesota, Minneapolis, Minnesota.

Organizers: L. Schumaker (Vanderbilt) and R. Chang.

Information: Institute for Mathematics and its Applications, University of Minnesota, 207 Church St. SE, 400 Lind Hall, Minneapolis, MN 55455. Phone: 612-624-6066, e-mail: staff@ima.umn.edu or Web page: <http://ima.umn.edu/multimedia/spring/m7.html/>.

May 2001

* 10-11 **IMA Tutorial: Computer Graphics**, IMA, University of Minnesota, Minneapolis, Minnesota.

Organizers: T. DeRose (Pixar).

Information: Institute for Mathematics and its Applications, University of Minnesota, 207 Church St. SE, 400 Lind Hall, Minneapolis, MN 55455. Phone: 612-624-6066, e-mail: staff@ima.umn.edu or Web page: <http://ima.umn.edu/multimedia/spring/tut8.html/>.

* 14-18 **IMA Workshop 8: Computer Graphics**, IMA, University of Minnesota, Minneapolis, Minnesota.

Organizers: T. DeRose (Pixar), P. Schroder (Caltech).

Information: Institute for Mathematics and its Applications, University of Minnesota, 207 Church St. SE, 400 Lind Hall, Minneapolis, MN 55455. Phone: 612-624-6066, e-mail: staff@ima.umn.edu or Web page: <http://ima.umn.edu/multimedia/spring/m8.html/>.

June 2001

* 11-15 **IMA Workshop: Haptics, Virtual Reality and Human Computer Interaction**, IMA, University of Minnesota, Minneapolis, Minnesota.

Organizers: K. Kolarov (Interval Research Corp.).

Information: Institute for Mathematics and its Applications, University of Minnesota, 207 Church St. SE, 400 Lind Hall, Minneapolis, MN 55455. Phone: 612-624-6066, e-mail: staff@ima.umn.edu or Web page: <http://ima.umn.edu/multimedia/spring/m9.html/>.