

Mathematics Calendar

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

March 1998

* 4-8 **Workshop on Computational Conformal Geometry**, Florida State University, Tallahassee, Florida.

Topics: Computations on Riemann surfaces and algebraic curves.

Participants: E. Bujalance, P. Buser, A. Costa, H. Helling, R. Kulkarni, B. Maskit, G. Rosenberger, K.-D. Semmler, K. Stephenson.

Organizers: J. Denny, S. McNeil, M. Seppala.

Information: <http://klein.math.fsu.edu/~seppala/Symbolic/Workshops/CCGatFSU98/Announcement.html>.

9-13 **Twenty-ninth Southeastern International Conference on Combinatorics, Graph Theory and Computing**, Florida Atlantic University, Boca Raton, Florida. (Dec. 1997, p. 1496)

9-14 **Emerging Applications of Dynamical Systems**, University of Minnesota, Minneapolis, Minnesota. (Sept. 1997, p. 1026)

12-14 **Spring Topology and Dynamics Conference**, George Mason University, Fairfax, Virginia. (Sept. 1997, p. 1026)

14-15 **Knots, Braids, and Mapping Class Groups: A Conference in Low-Dimensional Topology in Honor of Joan Birman's 70th Birthday**, Columbia University/Barnard College, New York, New York. (Sept. 1997,

p. 1026)

14-18 **Arizona Winter School 1998: Workshop on Diophantine Geometry Related to the ABC Conjecture**, The University of Arizona, Tucson, Arizona. (Jan. 1998, p. 108)

16-18 **Conference on Complex Hyperbolic Geometry and Discrete Groups**, Okayama University of Science, Okayama, Japan. (Oct. 1997, p. 1056)

20-21 **AMS Southeastern Sectional Meeting**, University of Louisville, Louisville, Kentucky. (Dec. 1996, p. 1560)

Information: R. Cascella, rgc@ams.org.

* 21-24 **International Conference on Non-linear Partial Differential Equations and Applications**, Northwestern University, Evanston, Illinois.

Scientific Program: The program will consist of 50-minute plenary talks and 30-minute invited section talks.

Speakers: Invited speakers include: J. Bourgain (IAS), L. Caffarelli* (Austin), A. Chang* (UCLA), P. Constantin* (Chicago), D. Christodoulou (Princeton), C. Dafermos* (Brown), S. Davis (Northwestern), A. Friedman* (Minnesota), J. Glimm* (Stony Brook), D. Hoff* (Indiana), C. Kenig* (Chicago), P. Lax (New York), T.-P. Liu* (Stanford), A. Majda* (New

York), J. Moser (ETH), C. Morawetz* (New York), S. Muller* (Leipzig), S. Osher* (UCLA), B. Perthame* (Paris), R. Schoen (Stanford), V. Solonnikov (St Petersburg), G. Talenti* (Florence), and S.-T. Yau* (Harvard). * confirmed

Support: Some funds will be available to help support the participation of graduate students, post-doctoral researchers, and senior researchers who have no grant support. People who belong to currently underrepresented groups (minorities and women) are particularly encouraged to apply. Decisions will be made beginning January 10, 1998.

Sponsors: National Science Foundation, Department of Mathematics and Office of the Vice President for Research and Graduate Studies of Northwestern University.

Organizing Committee: G.-Q. Chen, E. DiBenedetto, T. Ilmanen, and D. Tataru, Department of Mathematics, Northwestern University.

Information: <http://math.nwu.edu/~gqchen/pde98/index.html>. If you have any further questions related to the conference, please contact M. Rubin at 847-491-8035, 847-491-8906 (fax), or melanie@math.nwu.edu. To have your e-mail address added to the distribution list, or to contact the organizers, please send a note at pde@math.nwu.edu.

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.)

23-25 **DIMACS Workshop on Discrete Mathematical Chemistry**, DIMACS Center, Rutgers University, Piscataway, New Jersey. (Sept. 1997, p. 1026)

23-27 **Geometric Stochastic Analysis and Fine Properties of Stochastic Processes**, Mathematical Sciences Research Institute, Berkeley, CA 94720-5070. (Sept. 1997, p. 1026)

23-28 **EC Summer School: Arithmetic Geometry; Part I: Instructional Conference: Current Trends in Arithmetical Algebraic Geometry**, Newton Institute, Cambridge, United Kingdom. (Jan. 1998, p. 109)

23-29 **Japan-U.S. Mathematics Institute Conference and Workshop on Meromorphic Mappings and Intrinsic Metrics in Complex Geometry**, Johns Hopkins University, Baltimore, Maryland. (Nov. 1997, p. 1362)

25-28 **Global Analysis 30 Years Later**, University of Cincinnati, Cincinnati, Ohio. (Nov. 1996, p. 1384)

*25-31 **Calculus of Variations and Related Topics**, Haifa, Israel.

Forum: This conference will commemorate 300 years of the calculus of variations, and will cover topics of current research interest, such as critical point theory (with applications to partial differential equations) and optimal control.

Organizing Committee: A. Ioffe, R. Nussbaum, S. Reich, I. Shafir, and H. Sussmann.

Speakers: A. Ambrosetti, Z. Artstein, H. Atouch, A. Bahri, E. J. Balder, J. Ball, V. Benci, F. Bethuel, J. Borwein, G. Buttazzo, K. C. Chang, M. Chipot, F. H. Clarke, J.-N. Corvellec, G. Dal Maso, A. V. Dmitruk, A. Dontchev, H. Fattorini, H. Frankowska, L. Freddi, M. Giacquinta, F. Helein, S. Hildebrandt, H. Th. Jongen, D. Kinderlehrer, A. Leizarowitz, P. Loewen, K. Malanowski, M. Marcus, A. Marino, J. Mawhin, A. A. Miljutin, V. Mizel, B. Mordukhovich, L. Nirenberg, R. Nussbaum, N. P. Osmolovskii, P. Rabinowitz, R. T. Rockafellar, J. Rubinstein, E. Schwartzman, S. Simons, H. Sussmann, L. Tartar, J. Taylor, V. M. Tikhomirov, R. Vinter, J. Warga, M. Willem, G. Wolansky, Y. Yomdin, A. Zaslavski, E. Zehnder.

Information: For further information and registration form, contact S. Schur (Secretary), Dept. Math., Technion-Israel Institute of Technology, 32000 Haifa, Israel; fax: 972-4-832-4654; e-mail: iasm@technion.technion.ac.il.

27-28 **AMS Central Section Meeting**, Kansas State University, Manhattan, KS. (Sept. 1997, p. 1027)

Information: W. Drady, AMS, P.O. Box 6887, Providence, RI 02940; e-mail: wsd@math.ams.org.

30-April 3 **European Joint Conferences on Theory and Practice of Software (ETAPS), Preliminary announcement and call for satellite events**, Lisbon, Portugal. (Nov. 1996, p. 1385)

30-April 3 **Third Workshop on Randomized Parallel Computing (Call for Papers)**, Orlando, Florida. (Feb. 1998, p. 292)

30-April 4 **EC Summer School: Arithmetic Geometry: Part II: Rational Points**, Newton Institute, Cambridge, United Kingdom. (Jan. 1998, p. 109)

April 1998

4-5 **AMS Eastern Sectional Meeting**, Temple University, Philadelphia, Pennsylvania. (Dec. 1996, p. 1560)

Information: R. Cascella, rgc@ams.org.

4-5 **Rivière-Fabes Symposium on Analysis and PDE**, University of Minnesota, Minneapolis, Minnesota. (Feb. 1998, p. 292)

*4-5 **Seventh Southern California Geometric Analysis Seminar**, Mathematics Department, University of California, Irvine, California.

Invited Speakers: S. Donaldson (Stanford - Oxford), J. Escobar (Cornell), N. Hitchin (Oxford), H. Hofer (Courant), Y.-T. Siu (Harvard), C.-L. Terng (Northeastern).

Support: Some support is available for graduate students and postdocs. The SCGAS particularly encourages the participation of women and members of underrepresented groups.

Information: Organizing committee: P. Li, R. Reilly, R. Wentworth, Dept. of Mathematics, University of California, Irvine, CA 92697-3875; scgas@math.uci.edu; fax: 714-824-7993. WWW home page: <http://www.math.uci.edu/~scgas/scgas.html>.

14-July 17 **Topology Semester**, Centre de Recerca Matemàtica, Bellaterra, Spain. (Feb. 1998, p. 292)

*16-17 **Models and Numerical Methods in Transport Theory and in Mathematical Physics: An international conference dedicated to V. Boffi on his 70th birthday**, Rome, Italy.

Program: The conference is aimed at bringing together scientists with interest in all fields of mathematical physics and applied mathematics which are related to transport theory. It is structured in a number of invited lectures, each one given by an eminent specialist in the field, about the state of the art and the most recent available results, in order to promote exchange of ideas and methods, as well as dissemination of advanced scientific knowledge, in the interested research community. Both mathematical modeling and numerical techniques will be emphasized. The main lectures will be published in a special issues of the journal "Transport Theory and Statistical Physics".

Organizing Committee: G. Frosali (Firenze), G. Spiga (Parma), R. Spigler (Roma).

Scientific Committee: M. Anile (Catania), A. Belleni-Morante (Firenze), P. Benvenuti (Roma), V. Capasso (Milano), M. Fabrizio (Bologna), G. Frosali (Firenze), R. Monaco (Torino), R. Piva (Roma), L. Salvadori (Trento), G. Spiga (Parma), R. Spigler (Roma), G. Toscani (Pavia).

Invited Speakers: N. Bellomo, C. Cercignani, L. De Socio, J. Dornig, A. Fasano, B. D. Ganapol, C. Marchioro, E. Massa, J. Mika, H. Neunzert, T. Nonnenmacher, P. Podio-Guidugli, J. Pomraning, S. Rionero, R. Scozzafava.

Information: G. Frosali, fax +39-55-471787; e-mail: frosali@dma.unifi.it and via WWW at <http://www.dma.unifi.it/~congressi/>.

16-18 **Twenty-Second Arkansas Spring Lectures in the Mathematical Sciences**, Fayetteville, Arkansas. (Sept. 1997, p. 1027)

19-22 **Supporting Educational, Faculty & TA Development Within Departments and Disciplines**, Austin, Texas. (Nov. 1997, p. 1362)

20-23 **International Conference on Interval Methods and their Application in Global Optimization (INTERVAL '98)**, Nanjing, China. (Oct. 1997, p. 1156)

20-24 **International Conference on Theoretical Computer Science in Honour of Professor Manuel Blum's 60th Birthday**, City University of Hong Kong, Hong Kong. (Jan. 1998, p. 109)

20-24 **Workshop on Probability: Theory and Applications**, Nottingham Trent University, Nottingham, England. (Dec. 1997, p. 1496)

25 **Midwest Numerical Analysis Day 1998**, Western Illinois University, Macomb, Illinois. (Jan. 1998, p. 109)

25-26 **AMS Western Sectional Meeting**, University of California-Davis, CA. (Apr. 1997, p. 481)

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

26-June 27 **Commutative Algebra, Homological Algebra, and Representation Theory**, Italy. (Jan. 1998, p. 109)

*27-28 **DIMACS Workshop on Mathematical Methods for High Performance Data Mining Applications**, Computer Science Dept., Princeton University, Princeton, New Jersey.

Sponsor: DIMACS Center.

Organizers: H. E. Kulsrud (CCR-P/IDA), R. Grossman (Univ. of Illinois at Chicago and Magnify, Inc).

Contacts: H. E. Kulsrud, laney@ccr-p.ida.org.

Local Arrangements: S. Barbu, Princeton University, barbu@cs.princeton.edu, tel: 609-609-1771.

Focus: Data Mining is the automatic discovery of patterns, associations, changes, and anomalies in data sets. Scaling data mining to massive data sets requires new algorithms and combining techniques from high performance computing and data management with techniques from statistics and machine learning. This workshop will emphasize techniques to scale and parallelize algorithms. Of particular interest is the application of methods to specific types

of problems and the areas of success and failure.

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

27-29 **Conference on Real Numbers and Computers**, Pierre et Marie Curie University, Paris, France. (Sept. 1997, p. 1027)

27-May 1 **Emerging Applications of Dynamical Systems**, University of Minnesota, Minneapolis, Minnesota. (Sept. 1997, p. 1028)

* 28-May 2 **Second Conference on Probabilities and Stochastic Analysis**, Cadi Ayyad University, Faculty of Sciences Semlalia, Marrakech, Morocco.

Program: The program consists of three courses delivered by invited speakers and contributed talks by participants on various topics related to probability and stochastic analysis.

Invited Speakers: I. Gyongy (Univ. of Edinburgh), B. Roynette (Univ. de Nancy), and D. Talay (INRIA, Sophia).

Organizing Committee: M. Eddahbi (secretary), D. Nualart, Y. Ouknine (chairman), and M. Sanz Sole.

Conference Language: The language for all activities of the conference will be English or French.

Information: Y. Ouknine, Departement de Mathematiques Faculte des Sciences, Semlalia B.P. S 15, Marrakech, Morocco; fax: 212-4-43-74-09; e-mail: yo@mbox.azure.net.

29-May 1 **Nonlinear* Problems in Aviation and Aerospace**, Daytona Beach, Florida. (Sept. 1997, p. 1028)

May 1998

* 1-2 **The Duke Mathematics Journal and International Mathematics Research Notices Conference**, Duke University, Durham, North Carolina.

Organizers: R. Hain and J. Wahl.

Information: More information may be obtained from <http://www.math.duke.edu/conference/> or by sending e-mail to A. Langen, langen@math.duke.edu.

* 1-2 **Mid-Atlantic Algebra Conference**, James Madison University, Harrisonburg, Virginia.

Scope: This meeting of this continuing series of algebra conferences will be held at James Madison University. Sessions will be held on the afternoon of Friday, May 1, and on both the morning and the afternoon of Saturday, May 2. G. Baumslag will be the principal speaker, giving hour talks Friday and Saturday. The remaining time will be for twenty-minute talks by participants. Attendees who wish to speak should let the organizers know by April 18, 1998.

Organizers: C. Droms, C. Lyons, and G. Peterson.

Information: Contact G. Peterson, e-mail: peter@math.jmu.edu.

1-3 **Conference on Algebraic Combinatorics and Applications**, Oakland University, Rochester, Michigan. (Dec. 1997, p. 1497)

2-4 **Quadratic Forms and Orthogonal Groups: Conference in Honor of the 70th Birthday of O. Timothy O'Meara**, University of Notre Dame, Notre Dame, Indiana. (Feb. 1998, p. 292)

3-6 **Fourier Analysis and Applications (FAA98)**, Kuwait University, Kuwait. (Jan. 1998, p. 110)

4-8 **NSF-CBMS Regional Research Conference on Wavelet Analysis as a Tool for Computational and Harmonic Analysis**, University of Central Florida, Orlando, Florida. (Jan. 1998, p. 110)

6-8 **Astrophysics and Algorithms: A DIMACS Workshop on Massive Astronomical Data Sets**, Computer Science Dept., Princeton University, Princeton, New Jersey. (Oct. 1997, p. 1157)

7-9 **Fourth SIAM Conference on Control and Its Applications**, Omni Jacksonville Hotel, Jacksonville, Florida. (Oct. 1997, p. 1157)

11-15 **Emerging Applications of Dynamical Systems**, University of Minnesota, Minneapolis, Minnesota. (Sept. 1997, p. 1028)

11-15 **Workshop in Mathematical Population Dynamics**, Gothenburg Stochastic Centre, Chalmers University of Technology, Gothenburg, Sweden. (Oct. 1997, p. 1157)

* 13-15 **The Japan-USA-Vietnam Workshop on Research and Education in Systems, Computation and Control Engineering (RESCCE'98)**, Hanoi, Vietnam.

Scope: The objective of this workshop is to bring together researchers and educators from Japan, the United States, and Vietnam to discuss the integration of research and education in the field of dynamic systems and control engineering.

The control theory and related areas in computations and communications as well as application problems in process control, manufacturing, and mechanical systems will be covered. The workshop should serve as a springboard for initiating a long-lasting cooperation of the three countries as well as neighboring Asian countries on this important subject.

International Program Committee: D. Auslander (USA), P. T. Cat (VN), T. Fukuda (Japan), K. Furuta (Japan), P. M. Ha (VN), S. Hosoe (Japan), S. Kawaji (Japan), T. Mita (Japan), V. N. Phat (VN), R. V. Quoc (USA), N. N. San (VN), S. Sastry (USA), N. K. Son (VN), N. D. Thinh, M. Tomizuka (Japan), T.-C. Tsao (USA).

Potential Invited Speakers: Vietnam: P.T. Cat, P.M. Ha, N.C. Hien, C.T. Huynh, D.C. Khanh, V.N. Phat, N.N. San, N.K. Son, H.D. Tuan, H. Tuy. Japan: M. Akari, T. Fukuda, K. Furuta, S. Kawaji, K. Kosuge, T. Mita, N. Suda, S. Hosoe. USA: D. Auslander, R. V. Quoc, S. Sastry, N. D. Thinh, M. Tomizuka, K. Youcef-Toumi, T.-C. Tsao.

Topics: Research and education in systems, computation and control engineering; infrastructure for control education and research; the role of automation in industrialization; design of control systems; methods and computer tools; control theory and applications: robust control, fuzzy logic control, neural-net control, optimal control, stability and sensitivity of control systems; process control, computer control; real-time software engineering; manufacturing and instrumentation; robotics, mechatronics.

Registration Fee: expected to be 100 USD. Payment to be made on arrival.

Important Dates: February 25, 1998: submission of papers; March 30, 1998: notification of acceptance of contributed papers; April 20, 1998: final version of paper (camera-ready manuscript); May 13-15, 1998: workshop.

Information: Contact: RESCCE'98, V. N. Phat, Institute of Mathematics, P.O. Box 631, Bo Ho 10000, Hanoi, Vietnam; tel: 84-4-8361317; fax: 84-4-8343303; e-mail: vnphat@thevinh.ac.vn.

* 18-22 **Fifth Conference on Probability**, Technical University of Czestochowa, Czestochowa (Poraj), Poland.

Aim: The aim of the conference is to report on and to discuss recent developments and problems in the field of probability theory and its applications.

Organizers: The Fifth Conference is organized jointly by the Institute of Mathematics of Polish Academy of Science, Institute of Mathematics and Computer Science of Technical University of Czestochowa, and Institute of Mathematics of Warsaw University of Technology.

Information: W. Dziubdziela, Institute of Mathematics and Computer Science, ul. Dabrowskiego 73, 42-200 Czestochowa, Poland; e-mail: probab98@matinf.pcz.czyst.pl.

18-23 **Third Conference on Function Spaces**, Southern Illinois University at Edwardsville, Edwardsville, Illinois. (Oct. 1997, p. 1157)

18-24 **Laminations and Foliations in Dynamics, Geometry, and Topology**, Institute for Mathematical Sciences, State University of New York at Stony Brook, Stony Brook, New York. (Jan. 1998, p. 110)

* 20-22 **DIMACS Workshop on External Memory Algorithms and Visualization**, DIMACS Center, Rutgers University, Piscataway, New Jersey.

Organizers: J. Abello, A. Birilis, S. Mahaney, Y. Matias, T. Munzner, W. Sweldens, J. Vitter, K. P. Vo.

Aim: We are witnessing a proliferation of applications that need to process large amounts of information. I/O between main and external memory is becoming an increasingly significant bottleneck. How, where and in what circumstances to involve the user are central questions and

visualization may provide some of the answers. This workshop aims at fostering the cooperation among theoreticians and practitioners in the fields of external memory algorithms and/or visualization.

Deadline: For submissions: February 28, 1998.

Contacts: J. Abello, abello@research.att.com, 973-360-8649 (phone), 973-360-8077 (fax). Local arrangements P. Pravat, DIMACS Center, pravato@dimacs.rutgers.edu, 732-445-5929.

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

20–23 Continued Fractions: From Analytic Number Theory to Constructive Approximation, University of Missouri, Columbia, Missouri. (Feb. 1998, p. 292)

* **21–25 The 26th Annual Canadian Operator Theory and Operator Algebras Symposium**, University of Alberta, Edmonton, Alberta, Canada.

Invited Speakers: R. Curto (Iowa), K. R. Davidson (Waterloo), G. E. Elliott (Toronto), D. W. Hadwin (New Hampshire), D. Handelman (Ottawa), E. Kaniuth (Paderborn), D. Larson (Texas A&M), G. K. Pedersen (Copenhagen), V. Paulsen (Houston), Z.-J. Ruan (Illinois at Urbana-Champaign), R. R. Smith (Texas A&M).

Information: Please send e-mail to either L.Marcoux@ualberta.ca or tlau@vega.math.ualberta.ca. Information will also be posted to the following website: <http://www.math.ualberta.ca/~lmarcoux/spots.html>.

24–31 International Algebraic Conference (Dedicated to the Memory of A. G. Kurosh), Moscow State University, Faculty of Mechanics and Mathematics, Department of Algebra, Moscow, Russia. (Jan. 1998, p. 110)

25–27 The Delft Meeting on Functional Analysis and Nonlinear Partial Differential Equations, Delft University of Technology, Delft, The Netherlands. (Feb. 1998, p. 293)

25–29 Conference on Combinatorial and Global Optimization, Chania, Crete, Greece. (Jan. 1998, p. 110)

26–29 ICDCS'98, the 18th International Conference on Distributed Computing Systems, Center of Mathematics and Computer Science (CWI), Amsterdam, The Netherlands. (Oct. 1997, p. 1157)

27–29 Joint DIMACS-CMU-Georgia Tech Workshop on Large Scale Discrete Optimization, DIMACS Center, Rutgers University, Piscataway, New Jersey. (Oct. 1997, p. 1157)

27–June 2 Advanced Course on Classifying Spaces and Cohomology of Groups, Centre de Recerca Matemàtica, Bellaterra, Spain. (Feb. 1998, p. 293)

* **28–30 First Spanish-Italian Meeting on Fi-**

nanacial Mathematics, University of Almeria, Almeria, Spain.

Sponsors: University of Almeria and Second University of Napoli.

Organizers and Contacts: S. C. Rambaud, e-mail: scrucz@ualm.es; and A. G. S. Ventre, e-mail: alventre@unina.it.

Aim: A variety of approaches are possible when working in financial mathematics. One of them is oriented in building theories up to be cast within some general economic paradigm; another, although sensitive to general theories, consists in developing models embodying relevant details of reality. A gap between standard finance theory and the common financial reality must be covered with a bridge. The bricks of the bridge could be (at least partially) provided by a Spanish-Italian Meeting on Financial Mathematics.

Deadline: Papers of a length up to 10 pages should be submitted no later than March 30, 1998.

28–31 19th Annual Meeting of Canadian Applied Mathematics Society (CAMS/SCMA) and 13th Canadian Symposium on Fluid Dynamics, Simon Fraser University, Burnaby, British Columbia, Canada. (Sept. 1997, p. 1028)

31–June 6 Sixth International Spring School “Nonlinear Analysis, Function Spaces and Applications”, Prague, Czech Republic. (Sept. 1997, p. 1028)

June 1998

June–July MODELLING '98, 1st IMACS Conference on Mathematical Modelling and Computational Methods in Mechanics and Geodynamics, Prague, Czech Republic. (Oct. 1997, p. 1157)

1–4 IASTED International Conference on Computer Graphics and Imaging, Halifax, Canada. (Dec. 1997, p. 1497)

1–4 Mathematics and Design 98, The University of the Basque Country, San Sebastian, Spain. (Dec. 1997, p. 1497)

1–5 Emerging Applications of Dynamical Systems, University of Minnesota, Minneapolis, Minnesota. (Sept. 1997, p. 1028)

1–5 Fifth International Conference on p-Adic Functional Analysis, A. Mickiewicz University of Poznań, Poland. (Sept. 1997, p. 1028)

1–5 Fourth International Conference on Mathematical and Numerical Aspects of Wave Propagation, Colorado School of Mines, Golden, Colorado. (Jan. 1998, p. 110)

1–5 Model Theory, Algebra and Arithmetic, Mathematical Sciences Research Institute, Berkeley, CA. (Sept. 1997, p. 1028)

3–6 Seventh Conference of the International Linear Algebra Society, The Hans Schneider Linear Algebra Conference, University of Wisconsin-Madison, Madison, Wisconsin. (Nov. 1997, p. 1362)

4–10 1998 Barcelona Conference on Algebraic Topology, Centre de Recerca Matemàtica, Bellaterra, Spain. (Feb. 1998, p. 293)

7–19 NATO ASI—1998 CRM Summer School, Banff, Alberta, Canada.

* **8–12 The 1998 Barrett Memorial Lectures: Discrete Conformal Geometry**, University of Tennessee, Knoxville, Tennessee.

Speakers: The principal lecturers are J. Cannon (Brigham Young), J. Heinonen (Michigan), and O. Schramm (Weizmann Institute); each will give a series of three 1-hour talks. There will be additional invited speakers for 1-hour talks, sessions for contributed papers, and a poster/demo session for computational aspects of the topic.

Funding: Some funding is anticipated for those without other support; participation by young researchers and graduate students is particularly encouraged.

Topics: The work of various researchers, prominent among them, Thurston, Sullivan, Gromov, and Cannon, have pointed the way to surprising connections between the “discrete” world of purely combinatorial objects on the one hand and the “conformal” world associated with rigid analytic and geometric structures on the other. Broad examples include tilings and tessellations, the combinatorial Riemann mapping theorem, Alexandrov spaces, discrete notions of hyperbolicity in graph and combinatorial group theory, discrete potential theory, combinatorial proofs in quasiconformal mapping, symbolic dynamics, combinatorial moduli and discrete Teichmüller spaces, Grothendieck’s dessins d’enfants, and the discrete analytic structures associated with circle packings.

Goal: This conference is not for specialists in any one area. The goal is to bring together researchers from various areas who are nevertheless uncovering similar links between the discrete and the conformal worlds—to foster interactions across areas by mathematicians who sense some underlying unity and are willing to share their ideas and viewpoints.

Organizer: K. Stephenson.

Information: Visit the Web page at <http://www.math.utk.edu/Barrett98/> for latest details on registration, accommodations, funding, deadlines, etc. Send e-mail to barrett98@math.utk.edu for further information.

9–11 1998 International Conference on Dynamic Systems and Differential Equations, Shanghai Jiao Tong University, Shanghai, The People’s Republic of China. (Sept. 1997, p. 1028)

10–12 From Erdős to Algorithms: Applications of the Probabilistic Method, DIMACS Center, Rutgers University, Piscataway, New Jersey (Jan. 1998, p. 111)

12–13 The Third Biennial Symposium on Mathematical Modeling in the Undergraduate Curriculum, University of Wisconsin,

La Crosse, Wisconsin. (Jan. 1998, p. 111)

***12-18 NSF/CBMS Regional Conference in the Mathematical Sciences**, Fort Collins, Colorado.

Topic: Division algebras.

Principal Description: The principal lecturer will give a series of ten one-hour talks on division algebras over a five day period. There will be a small number of additional one-hour talks on this topic.

Information: Contact the conference coordinator: F. DeMeyer, Dept. of Mathematics, Colorado State Univ., Fort Collins CO 80523, e-mail: demeyer@math.colostate.edu, or view our web page <http://www.math.colostate.edu/>.

***13-15 CMS Summer 1998 Meeting**, University of New Brunswick, Saint John, New Brunswick.

Program: This meeting will feature plenary speakers from a broad spectrum of mathematics by top mathematicians. It will also feature sessions in various areas of mathematics.

Plenary Speakers: K. Davidson (Waterloo), D. Gromoll (SUNY Stony Brook), E. Lutwak (Polytechnic Univ., Brooklyn), S. Schanuel (SUNY Buffalo).

Prize Lectures: The Jeffery-Williams Lecture will be given by G. Elliott, Univ. of Toronto. The Krieger-Nelson Lecture will be given by Catherine Sulem, Univ. of Toronto.

Public Lecture: W. Lawvere, SUNY Buffalo, will deliver a public lecture on Monday, June 15, at 8:00 p.m.

Symposia: There will be symposia in six areas. The session titles and speakers are: *Category Theory*: (Org: R. Wood, Dalhousie Univ.); M. Barr (McGill), M. Bunge (McGill), P. Freyd (Pennsylvania), A. Joyal (UQAM), F. W. Lawvere (SUNY Buffalo), M. Makkai (McGill), S. Niefield (Union), R. Pare (Dalhousie), J. W. Pelletier (York), S. Schanuel (SUNY Buffalo), M. Tierney (Rutgers), W. Tholen (York), R. F. C. Walters (Sydney).

Convex Geometry: (Org: A. C. Thompson, Dalhousie Univ.); L. Batten (Manitoba), T. Bisztriczky (Calgary), J. Bracho (Nat. Univ. Mexico), R. Dawson (SMU), B. Dekster (Mt. Allison), R. Erdahl (Queens), C. Fisher (Regina), R. Gardner (W. Washington), P. Goodey (U. of Oklahoma), E. Grinberg (Temple and Polytechnic Univ.), P. Gruber (Vienna), D. Klain (Georgia Tech.), A. Koldobsky (Univ. Texas, San Antonio), J. D. Lewis (Edmonton), B. Monson (UNB), K. Rybnikov (Queens), R. Schneider (Freiburg, Germany), R. Vitale (U. Conn), A. Weiss (York), E. Werner (Case Western Reserve), G. Zhang (Polytechnic Univ.).

Operator Theory: (Org: H. Radjavi, Dalhousie Univ.); H. Bercovici (Indiana), M. D. Choi (Toronto), R. Curto (Iowa), K. Davidson (Waterloo), D. Farenick (Regina), D. Hadwin (New Hampshire), M. Lamoureux (Calgary), L. Livshits (Colby), V. Lomonosov (Kent State), G. MacDonald (U.P.E.I.), L. Marcoux (Alberta), B. Mathes (Colby), E. Nordgren

(New Hampshire), V. Paulsen (Houston), S. Power (Lancaster, U.K.), R. Rosenthal (Toronto), P. Semrl (Maribor, Slovenia), A. Sourour (Victoria).

Relativity and Geometry: (Org: Jacques Hurtubise and Niky Kamran, McGill Univ.); R. Bielawski (Max-Planck Institute, Bonn), C. Boyer (New Mexico), A. Coley (Dalhousie Univ.), A. Dancer (McMaster), P. Ehrlich (Florida), T. Ilmanen (Max-Planck Institute, Leipzig), M. Kossowski (South Carolina), H. Kunzle (Alberta), R. McLenaghan (Waterloo), M. Min-Oo (McMaster), B. Tupper (New Brunswick), J. Wainwright (Waterloo), M. Wang (McMaster), G. Weinstein (Alabama).

Education—Mathematicians Teaching Statistics: (Org: M. Tingley and B. Monson, Univ. of New Brunswick - Fredericton); R. Dawson (SMU), D. Hamilton (Dalhousie).

Combinatorics: (Self-supporting session) (Org: K. Heinrich and B. Alspach, Simon Fraser Univ. and A. Punnen, Univ. of New Brunswick - Fredericton); speakers TBA.

Graduate Student Seminar: (Org: J. Mills, Univ. of New Brunswick - Saint John); A special session is being organized for graduate students. Anyone interested in participating in the organization of this program should contact the meeting director at the following address: md-s98@cms.math.ca.

Contributed Papers: Contributed papers of 15 minutes' duration are invited, and **graduate students are particularly urged to participate**. For an abstract to be eligible, the abstract must be received **before March 15, 1998**. The abstract must be accompanied by its contributor's registration form and appropriate fees.

Information: Canadian Mathematical Society, 577 King Edward, Suite 109, POB 450, Station A, Ottawa, Ontario, Canada K1N 6N5; tel: 613-562-5702, fax: 613-565-1539; e-mail: meetings@cms.math.ca; WWW: <http://www.came1.math.ca/CMS/Events/summer98/>.

15-17 Conference on Advances in Applied and Computational Mathematics, Mathematical Sciences Research Institute, Berkeley, California. (Feb. 1998, p. 293)

***15-19 International Conference on Local Differentiable Dynamics and Applications to Bifurcation Theory**, Limburgs Universitair Centrum (L.U.C.), Diepenbeek, Belgium.

Organizers: P. Bonckaert, F. Dumortier.

Scientific Committee: P. Bonckaert, F. Cano, F. Dumortier, R. Roussarie, F. Takens.

Theme: Understanding differentiable dynamics, described by vector fields and diffeomorphisms, and proving rigorous results often require analytical methods such as: linearization, normal forms, desingularization, invariant manifolds and foliations, etc. What is their precise importance in bifurcation and perturbation theory, and how do these fields lead to interesting new questions concerning these analytical methods? Emphasis will be put on the geometric ideas

underlying the different techniques and the relations between them. We hope to present a number of survey talks on the subject.

Main Speakers (tentative): G. Belitsky, H. Broer, S. N. Chow, Y. Il'yashenko, H. Kokubu, J. Llibre, M. J. Pacifico, J. Palis, C. Robinson, R. Roussarie, C. Rousseau, C. Simo, J. Sotomayor, F. Takens, M. Viana, J. Yakovenko, J. C. Yoccoz, M. Zhitomirskii.

Information: <http://www.luc.ac.be/Research/DySy/Conference.html>.

15-20 Second International Conference on Differential Equations and Applications, St. Petersburg State Technical University, St. Petersburg, Russia. (Oct. 1997, p. 1157)

***16-19 Conference on the Theory of Phase Transitions and Free Boundary Problems**, Center for Mathematical Sciences, Zhejiang University, Hangzhou, China.

Scientific Committee: L. Caffarelli (Texas), G. Dong (Hangzhou), A. Friedman (Minnesota), L. Jiang (Shanghai), N. Kenmochi (Japan), T.-T. Li (Shanghai), F. Lin, chair (Chicago).

Organizing Committee: S. Chen, chair (Hangzhou), X. Pan (Hangzhou), S. Zheng (Shanghai).

Scope and Topics: The conference will concentrate on the theory of phase transitions and free boundary problems and their applications. The topics will also include (but not be limited to) phase field equations, sharp interfaces, geometric flows, peak and concentration phenomena, and mathematical superconductivities.

List of Speakers: The following is a tentative list of speakers. An asterisk indicates a confirmed speaker. This list will be updated in a subsequent announcement. *P. Bates (BYU), *L. Caffarelli (Texas), S. J. Chapman (Oxford), S. X. Chen (Shanghai), *X. F. Chen (Pittsburgh), E. DiBenedetto (Northwestern Univ.), *G. C. Dong (Hangzhou), Q. Du (HKUST), *C. Evans (Berkeley), *A. Friedman (Minnesota), *T. Gamba (Texas), Y. Giga (Japan), *Z. C. Guan (Hangzhou), C. F. Gui (UBC, Canada), B. L. Guo (Beijing), K.-H. Hoffmann (Munich), *J. X. Hong (Shanghai), J. Howison (Oxford), *B. Hu (Notre Dame Univ.), T. Ileanan (Northwestern Univ.), H. Ishii (Japan), *L. S. Jiang (Shanghai), *S. Jimbo (Japan), *N. Kenmochi (Japan), *T. T. Li (Shanghai), C. S. Lin (Taiwan), *F. H. Lin (Chicago), *K. N. Lu (BYU), S. Luckhaus (Bonn), *M. Mimura (Japan), W. M. Ni (Minnesota), S. Omata (Japan), *T. C. Ouyang (BYU), *X. B. Pan (Hangzhou), *Y. W. Qi (HKUST), T. Riviere (France), *S. Shao (Cleveland), B. Stoebe (Bonn), *L. H. Wang (Iowa/UCLA), *X. F. Wang (Tulane), *J. Wu (ARO), *S. P. Wu (Hangzhou), Q. X. Ye (Beijing), *H. M. Ying (Notre Dame Univ.), *S. M. Zheng (Shanghai).

Information: Updated information can be found at the Web site: <http://math.zju.edu.cn/conference.html>. Inquiries concerning the conference should be sent to X. Pan, 1998 PDE Conference, Center for Mathematical Sciences, Zhejiang Univ.,

Hangzhou 310027, China; or by e-mail to ama_chensp@ema.zju.edu.cn.

17-23 **6th Purdue International Symposium on Statistics**, West Lafayette, Indiana. (Sept. 1997, p. 1028)

*19-22 **Conference on Control of Distributed Parameter and Stochastic Systems**, Hangzhou, China.

Sponsors: The State Education Commission of China, The National Natural Science Foundation of China, The International Federation for Information and Processing (IFIP), Zhejiang University, Fudan University.

Organizing Committee: S. Chen (Zhejiang Univ.), X. Li (Fudan Univ.), Z. Liu (Univ. of Minnesota at Duluth), G. Yin (Wayne State Univ.), J. Yong (Fudan Univ.), X.Y. Zhou (The Chinese Univ. of Hong Kong).

Advisory Committee: J. Burns (Virginia Tech.), H. F. Chen (Chinese Academy of Science, China), W. H. Fleming (Brown Univ.), I. Lasiecka (Univ. of Virginia), B. Pasik-Duncan (Univ. of Kansas), S. Peng (Shandong Univ., China), T. I. Seidman (Univ. of Maryland at Baltimore County), R. Triggiani (Univ. of Virginia).

Scope and Topics: The conference will concentrate on control of distributed parameter and stochastic systems. The topics will include (but are not limited to) the following: adaptive control, controllability, filtering, identification, manufacturing systems, mathematical finance/insurance, numerical approximation, optimal control, stabilization.

Format: There will be two parallel sessions: distributed parameter systems and stochastic systems. Each speaker will be given 40 minutes for the presentation.

Proceedings: It is expected that the proceedings will be published by either Chapman and Hall or Zhejiang University Press after the conference. Proceedings will include refereed written versions of the talks by the speakers. Detailed instructions will be provided later.

Abstract: To help finalize the organizational matter, each invited speaker is asked to submit a one-page abstract of the presentation to J. Yong by e-mail (TeX or L^ATeX files) fax, or airmail by November 1, 1997. The preferred form is the e-mail submission to jyong@ms.fudan.edu.cn; fax: 86-21-65494190; mailing address: J. Yong, Dept. of Mathematics, Fudan Univ., Shanghai 200433, China.

Information: Updated information can be found at the Web site: <http://math.zju.edu.cn/conference.html>. Inquiries concerning the conference should be addressed to J. Yong or X. Y. Zhou at the following addresses: J. Yong, e-mail: jyong@ms.fudan.edu.cn; fax: 86-21-65494190; X. Y. Zhou, e-mail: xyzhou@se.cuhk.edu.hk, fax: 852-2603-5505.

*19-23 **International Interdisciplinary Symposium: Mathematics in the Sciences**, Leipzig, Germany.

Organizers: Adrejewski Foundation and the Max-Planck-Institute for Mathematics in the Sciences (Leipzig).

Goal: The goal of this outstanding symposium is to promote the flow of ideas between mathematics and the sciences in both directions and to open new perspectives for the future.

Lecturers: The following scientists have agreed to give 1-hour lectures: A. Ashtekar, M. Atiyah, J. Ball, R. Bank, A. Connes, S. Edwards, M. Eigen, M. Gromov, H. Hofer, R. James, A. Katok, E. Lieb, B. Schutz, Y. Sinai, L. Tartar, S. Varadhan, J. Wess, S. Yau.

Organizing Committee: J. Jost, S. Mueller, E. Zeidler (MIS), and representing the Adrejewski Foundation, B. Geyer (Leipzig Univ.) and D. Luest (Humboldt Univ., Berlin).

Information: <http://www.mis.mpg.de/conferences/symp.98/>.

21-24 **LICS'98 (The Thirteenth Annual IEEE Symposium on Logic in Computer Science**, Indiana University Conference Center, Indianapolis. (Sept. 1997, p. 1029)

21-26 **Thirteenth U.S. National Congress of Theoretical & Applied Mechanics**, University of Florida, Gainesville, Florida. (Sept. 1997, p. 1029)

22-26 **The Eighth International Conference on Fibonacci Numbers and Their Applications**, Rochester, New York. (Sept. 1997, p. 1029)

*22-26 **Mathematical Results in Quantum Mechanics (QMath7)**, Doppler Institute of the Czech Technical University, Prague, Czech Republic.

Organizers: Nuclear Physics Institute of the Czech Academy of Sciences, and Doppler Institute of the Czech Technical University.

Topics: Quantum chaos, quantum dots and waveguides, parameter-dependent Hamiltonians, Schrödinger operators - bound states and scattering, Schrödinger operator spectra and localization properties, solvable models.

Invited Speakers: J. E. Avron (Haifa), J. Bellisard (Toulouse), M. S. Birman (St. Petersburg), G. Casati (Milano), J. M. Combes (Marseille and Toulon), F. Gestesy (Columbia-Missouri), E. H. Lieb (Princeton), L. A. Pastur (Kharkov and Paris), R. Seiler (Berlin), B. Simon (Pasadena), J. Yngvason (Vienna).

Deadline: For abstracts: March 31, 1998.

Related Events: Vienna, Schr. operators ... (first half of June, cf. thoffman@esi.ac.at) and Prague, Quantum groups (June 18-20, cf. burdik@dec1.fjfi.cvut.cz).

Information: e-mail: qmath7@ujf.cas.cz; mail: P. Exner, Nuclear Physics Institute, Academy of Sciences, CZ-250 68 Rez near Prague, Czech Republic. <http://www.ujf.cas.cz/~exner/cf98.html>; fax: 0420-2-685-7003; phone: 0420-2-6617-3293.

22-26 **Third International Conference on Monte Carlo and Quasi-Monte Carlo Methods in Scientific Computing**, The Clare-

mont Colleges, Claremont, California. (Oct. 1997, p. 1158)

22-27 **Third Siberian Congress on Industrial and Applied Mathematics (INPRIM-98) dedicated to the memory of S. L. Sobolev (1908-1989)**, Novosibirsk Akademgorodok, Russia. (Sept. 1997, p. 1029)

*22-July 3 **Mathematics and Molecular Biology: Science for the 21st Century**, University of California at Berkeley, California.

Program: The Program in Mathematics and Molecular Biology (PMMB), with support from the Burroughs Wellcome Fund Interfaces Program, will conduct an introductory short course on research, training and career opportunities at the interface between mathematics and molecular biology. The goal of the short course is to encourage promising students from the physical, chemical and mathematical sciences to apply their unique knowledge and talents to biological problems. Full support (travel and living expenses) is available for selected students in the physical/chemical/mathematical sciences who are in residence at universities in the United States and Canada. Upper level undergraduates and graduate students are invited to apply. The short course will include introductory lectures, laboratory and computer experiences, and discussion groups.

Topics and Teachers: Modern Genome Analysis: P. O. Brown (Stanford Univ.), S. J. Spengler (Lawrence Berkeley Lab.), M. S. Waterman (Univ. Southern California); Nucleic Acid Structure and Topology: N. R. Cozzarelli (U. C. Berkeley), L. Kauffman (U. Illinois at Chicago), D. W. Sumners (Florida State U.), I. Tinoco (U. C. Berkeley); Protein Structure and Folding: B. Berger (MIT), C. Brooks, (Scripps Res. Inst.), M. Levitt (Stanford U.), J. Onuchic (U. C. San Diego), A. Sali (Rockefeller); Quantitative Analysis of Evolution: T. Speed (U. C. Berkeley), E. Thompson (U. Washington).

Information: For information and application materials contact: PMMB, Department of Mathematics, Florida State University, Tallahassee, FL 32306-4510; tel: 850-644-8710; fax: 850-644-6612; e-mail: pmbb@math.fsu.edu; URL: <http://www.math.fsu.edu/~pmbb/>.

Deadline: For receipt of applications: April 1, 1998. Women and minorities are encouraged to apply.

*22-August 28 **Astrophysical and Geophysical Flows as Dynamical Systems, GFD Summer Study Program**, Woods Hole Oceanographic Institution, Woods Hole, Massachusetts.

Focus: Many problems in the astrophysical and geophysical sciences surround fluid flows of a very complicated nature. In most situations, the flows are turbulent, and often the problems of interest are complicated further by other physical effects such as rotation, magnetic fields, and chemical and phase changes. Over the last decades, dynamical systems techniques have been

fashioned and usefully applied to a variety of relatively simple systems. Attempts have also been made to apply these techniques to the much more complicated problems in astro- and geophysics. Yet how far can this kind of approach be taken?

In the 1998 summer study program, the focus will be on the application of dynamical systems techniques in astro- and geophysical flows. The techniques will be described in detail, and the successes to date in applying them to various problems will be explored. A major, provocative theme of the summer will be whether these techniques allow us anything more than a light, qualitative explanation of the phenomena we see.

The introductory lectures will consist of a discussion of astrophysical and geophysical problems by A. Provenzale, paralleled with tutorials on dynamical systems by C. Tresser and J. D. Crawford.

Fellowships: Up to ten competitive fellowships are available for graduate or post-doctoral students. Successful applicants will receive stipends of \$3,900 and an allowance for travel expenses within the United States. Fellows are expected to be in residence for the full ten weeks of the program. The application deadline is February 14, 1998. Awards will be announced by April 1, 1998. We particularly encourage applications from women and members of underrepresented groups.

Information: Application forms may be obtained from: Education Office, Clark Laboratory, MS #31, Fellowship Committee, Woods Hole Oceanographic Institution, 360 Woods Hole Road, Woods Hole, MA 02543-1541; tel: 508-289-2219; e-mail: 1campbell@whoi.edu; fax: 508-457-2188. Further information and an electronic application form for student fellowships are available online at <http://www.whoi.edu/gfd/>. Prospective senior visitors, please contact N. Balmforth, the Program Coordinator, by email at njb@hank.ucsd.edu.

24-26 **Centennial Congress on M. C. Escher (1898-1972)**, University of Rome "La Sapienza", Rome, Italy. (Feb. 1998, p. 293)

* 24-27 **Thirteenth Summer Conference on Topology and Its Applications with Workshops on Set-Theoretic Topology and Topological Groups**, Universidad Nacional Autónoma de México (UNAM), Mexico City, D.F. Mexico.

Organizing Committee: S. García-Ferreira (UNAM), I. Puga (UNAM), M. Sanchis (Jaume I), A. Tamariz (UNAM), V. Tkachuk (UAM), J. Trigos-Arrieta (Cal. State Bakersfield), R. G. Wilson (UAM).

Invited Speakers: A. V. Arhangelskii (Moscow State and Ohio), A. Bella (Catania), A. García-Máynez (UNAM), A. Illanes (UNAM), R. Kopperman (CCNY), K. Kunen (Wisconsin), R. McCoy, (V. P. I.), T. Nogura (Ehime). **Workshop Lecturers:** I. Juhasz (Hungarian Academy of Sciences) and M. Tkačenko (UAM).

Special Sessions: There will be special sessions on Continuum Theory (coordinated by S. B. Nadler Jr., West Virginia, and W. Charatonik, UNAM), Set-Theoretic Topology (A. Dow, York), Topological Algebraic Structures (W.W. Comfort, Wesleyan, and O. Okunev, UNAM) and Uniform and Quasi-uniform Structures (H. Kunzi, Berne, and S. Romaguera, Politècnica de Valencia). Additionally, there will be a special lecture by D. B. Shakhmatov (Ehime) dedicated to A. V. Arhangelskii on the occasion of his sixtieth birthday.

Topics: All areas of topology-related mathematics, especially set-theoretic topology, continuum theory, geometric topology, and applications of topology to computer science and other areas of mathematics.

Call for Papers: Please send abstracts for contributed papers by June 1, 1998, to top8@xanum.uam.mx.

Information: Contact top8@xanum.uam.mx, or see the conference home page at <http://www.iztapalapa.uam.mx/summer98/>, or write to R. G. Wilson, Apartado Postal 84-004, 10580 Mexico D.F., Mexico.

25 **LICS'98 Workshop on Formal Methods and Security Protocols**, Indianapolis, Indiana. (Jan. 1998, p. 111)

25 **LICS'98 Workshop on Logic and Diagrammatic Information (LDI'98)**, Indianapolis, Indiana. (Jan. 1998, p. 111)

25-27 **International Conference on Scientific Computing and Mathematical Modeling IMACS'98**, Alicante, Spain. (Jan. 1998, p. 111)

28-July 2 **Pacific Rim Geometry Conference**, University of British Columbia, Vancouver, British Columbia. (Dec. 1997, p. 1498)

28-July 3 **Conference on Computer-Aided Verification (CAV'98)**, Vancouver, British Columbia. (Jan. 1998, p. 111)

28-July 3 **The Third St. Petersburg Workshop on Simulation**, St. Petersburg, Russia. (Jan. 1998, p. 112)

29-July 1 **Parallel Computing and Algorithms in Economics and Finance (Call for Papers)**, University of Cambridge, Cambridge, United Kingdom. (Feb. 1998, p. 293)

* 29-July 2 **The First International Conference on Functional Differential Equations (FDE1)**, The Research Institute, The College of Judea and Samaria, Ariel, Israel.

Organizing Committee: L. Berezanskii, A. Domoshnitsky, Y. Goltser, G. Kresin, E. Litsyn (chair), and E. Merzbach.

Information: E. Litsyn, elena@black.wisdom.weizmann.ac.il.

* 29-July 2 **International Workshop on Orthogonal Polynomials: Numerical and Symbolic Algorithms**, Madrid, Spain.

Aim: The main aim of the next edition of the workshop is that a reduced number of invited mathematicians discuss and review

recent progress in the theory of orthogonal polynomials, with special emphasis on the numerical applications and symbolic algorithms.

Topics: To be considered will be: quadrature formulas, spectral methods in boundary value problems, numerical linear algebra, symbolic algorithms and software, combinatorics.

Contributions: It will be possible for participants who are interested to present their own contributions in the above-mentioned areas. Because of the reduced numbers of short communications, we ask such participants who want to present their work to send as soon as possible (April 30, 1998) the abstract (no more than one page). Priority will be given to those talks closely related to the main subject of the workshop. For online registration visit the WWW page site at <http://dulcinea.uc3m.es/users/workshop/iwop98.html>.

Invited Speakers: W. Gautschi (Purdue Univ.), G. Golub (Stanford Univ.), W. Koepf (Hochschule für Technik), Y. Maday (Univ. Pierre et Marie Curie), M. Petkovšek (Univ. of Ljubljana), D. Zeilberger (Temple Univ.).

Organizing Committee: M. Alfaro, R. Álvarez-Nodarse, J. Arvesú, F. Marcellán (chair).

Information: Contact: R. Álvarez-Nodarse (nodar@math.uc3m.es) or F. Marcellán (pacomarc@ing.uc3m.es), Departamento de Matemáticas, Escuela Politécnica Superior, Universidad Carlos III de Madrid, Butarque 15, 28911, Leganés, Madrid, Spain; fax: 34-1-624-94-30.

29-July 3 **Arakelov Theory, Values of L-Functions**, Newton Institute, Cambridge, United Kingdom. (Jan. 1998, p. 112)

29-July 3 **Second International Conference on Bifurcation Theory and its Numerical Analysis**, Xi'an Jiaotong University, Xi'an, P.R. China. (Dec. 1997, p. 1498)

July 1998

* 3-6 **International Conference on the Teaching of Mathematics**, Village of Pythagorion, Samos, Greece.

Scope: The objective of this international conference is to examine new ways of teaching undergraduate mathematics. It will provide a unique and centralized forum and bring together faculty members from various countries who are committed to introducing and using innovative teaching methods. The conference will be of great interest to mathematics faculty as well as to anyone involved in the teaching and learning process of undergraduate mathematics. **Topics:** Educational research, technology, innovative teaching formats, distance learning, reform on specific courses, connections with other disciplines.

Invited Speakers: A. Gleason (Harvard Univ.), C. Laborde (Univ. Joseph Fourier), S. Negrepointis (Univ. of Athens), J. Persens (Univ. of the Western Cape), D. Tall (Warwick Univ.), J. Uhl (Univ. of Illinois), B. Waits (The Ohio State Univ.), E. C. Wittmann (Univ.

Dortmund).

Call for Papers: Contributed papers and poster session submissions are invited for the conference.

Contributed Papers: Contributed paper sessions will consist of several 20-minute presentations. Such presentations should concern original work which has not been published elsewhere. Poster sessions will consist of poster displays scheduled at specific times during the conference. Proposals for papers and displays should contain: an identification of the proposal as a paper or a display, title of the proposal, the name(s) of the author(s) and preferred address and e-mail address of the contact person for the proposal, an extended abstract of 1-1/2 pages double spaced, an identification of the conference topic under which the proposal fits. Please submit your proposal by e-mail (ASCII files only): (if you do not have access to e-mail, send three (3) copies to): W. Barker, Dept. of Mathematics, Yale University, P.O. Box 208283, New Haven, CT 06520-8283; tel: 203-432-7055; fax: 203-432-7316; e-mail: bbarker@math.yale.edu.

Information: Contact: J. Baldwin, Dept. of Math. and Comp. Sci., Capital Univ., Columbus, OH 43209; e-mail: jbaldwin@capital.edu. For information on local arrangements (only): D. Kandilakis, Dept. of Math., Univ. of Aegean, Samos, Greece; e-mail: dkan@aegean.gr; <http://icg.fas.harvard.edu/~samos98/>.

5-9 **1998 New Zealand Mathematics Colloquium**, Victoria University of Wellington, New Zealand. (Dec. 1997, p. 1498)

5-10 **15th International Conference on Automated Deduction (CADE-15)**, Lindau, Germany. (Jan. 1998, p. 112)

6-10 **International Conference on Ordered Algebraic Structures and Related Areas (OAS '98)**, The Center for Chinese and American Studies, Nanjing University, Nanjing, P. R. China. (Jan. 1998, p. 112)

6-10 **Twenty-Third Australasian Conference on Combinatorial Mathematics and Combinatorial Computing**, The University of Queensland, Brisbane, Australia. (Sept. 1997, p. 1029)

6-17 **Mathematical Models in Population Biology and Epidemiology: From Elementary to the Frontier**, University of Wyoming, Laramie, Wyoming. (Jan. 1998, p. 112)

7-9 **Thirteenth International Conference on Artificial Intelligence in Engineering (AIENG 98)**, Galway, Ireland. (Dec. 1997, p. 1498)

7-11 (Note: NEW DATE) **The 1st IMACS Conference on Mathematical Modelling and Computational Methods in Mechanics and Geodynamics Modelling '98**, Prague, Czech Republic. (Oct. 1997, p. 1157)

* 7-11 **Chance Workshop**, Dartmouth College, Hanover, New Hampshire.

Aim: Chance is a new introductory quantitative literacy course which teaches basic concepts from probability and statistics in the context of current issues in the news such as medical trials, opinion polls, weather prediction, and the use of DNA fingerprinting in the courts. The aim of the course is to make students better able to understand and critically analyze chance news. The Chance course makes significant use of group learning and activities. The workshop will allow college teachers to experience a brief version of the Chance course and to learn how it is taught.

Applications: Applications can be obtained from the Chance web site or by e-mailing to jlsnell@dartmouth.edu or writing to J. L. Snell, Department of Mathematics, Dartmouth College, 6188 Bradley Hall, Hanover NH, 03755-3551. The deadline for applications is March 15, 1998.

Support: This workshop is supported by the NSF.

Information: More information about the Chance course can be found at the Chance web site: <http://www.dartmouth.edu/~chance/>.

7-17 **Emerging Applications of Dynamical Systems**, University of Minnesota, Minneapolis, Minnesota. (Sept. 1997, p. 1029)

8-10 **4th International Conference on Lattice Paths Combinatorics and Applications**, University of Vienna, Vienna, Austria (Dec. 1997, p. 1498)

8-11 **IFAC-LSS '98, Symposium on Large Scale Systems: Theory and Applications**, Patras, Greece. (Oct. 1997, p. 1158)

9-10 **Workshop on New Methods in Applied and Computational Mathematics (NEMACOM'98)**, Hervey Bay, Queensland, Australia. (Feb. 1998, p. 294)

12-August 1 **IAS/Park City Mathematics Institute**, Park City, Utah. (Jan. 1998, p. 113)

13-17 **International Colloquium on Automata, Languages, and Programming (ICALP'98)**, Aalborg, Denmark. (Jan. 1998, p. 113)

13-17 **1998 SIAM Annual Meeting**, University of Toronto, Toronto, Ontario, Canada. (Jan. 1998, p. 113)

19-24 **International Symposium on Optical Science, Engineering, and Instrumentation, Vision Geometry VII (SD91)**, San Diego, California. (Jan. 1998, p. 113)

* 19-25 **IV International Conference on Non-Associative Algebra and Its Applications**, Institute of Mathematics and Statistics, University of Sao Paulo, Sao Paulo, Brazil.

Organizers: The Institute of Mathematics and Statistics (USP) in conjunction with the Institute for Advanced Studies (USP), the Institute of Physics (USP) and the Institute of Theoretical Physics (UNESP).

Program: The program consists of conferences delivered by invited speakers and

contributed short talks by participants on various topics related to the field of non-associative algebra and its applications.

Organizing Committee: R. C. F. Costa (chairman), A. Grishkov, H. Guzzo Jr., L. A. Peresi.

Information: Please visit the conference's home page at <http://www.ime.usp.br/~ivnonalg/> or contact the organizing committee by e-mail ivnonalg@ime.usp.br.

19-August 2 **7th Workshop on Stochastic Analysis**, Didim, Turkey. (Sept. 1997, p. 1029)

20-25 **Exactly Solvable Models in Mathematical Physics**, Chelyabinsk University of Technology, Chelyabinsk, Russia (Feb. 1998, p. 294)

24-25 **Second International Conference on Matrix-Analytic Methods in Stochastic Models**, Winnipeg, Manitoba, Canada. (Sept. 1997, p. 1029)

* 26-31 **III Iberoamerican Congress of Mathematics Education (III CIBEM)**, Universidad Central de Venezuela, Caracas, Venezuela.

Aim: The Iberoamerican Congress of Mathematics Education was held at the University of Sevilla, Spain, in 1990. From then on they have been held every four years. The aim of the CIBEM is to promote the interchange of research and development of relevance for the Iberoamerican region in the field of mathematics education.

Call for Contributions: To the Scientific Program: deadline January 31, 1998.

Information: W. Beyer, Coordinator, Scientific Program Committee, Apartado Postal 54087, UCV 1053-A, Caracas, Venezuela; e-mail: iiicibem@sagi.ucv.edu.ve, asovemat@sagi.ucv.edu.ve.

26-August 1 **XV Escola de Algebra**, Canela, Rio Grande do Sul, Brazil. (Feb. 1998, p. 294)

27-August 7 **SMS-NATO ASI: Nonlinear Analysis, Differential Equations, and Control**, Université de Montreal, Montreal, Canada. (dec. 1997, p. 1498)

29-August 7 **Frontiers of Combinatorics**, Los Alamos National Laboratory, Los Alamos, New Mexico. (Feb. 1998, p. 294)

August 1998

August-December **The Fields Institute for Research in Mathematical Sciences Program in Probability and Its Applications**, The Fields Institute, Toronto, Ontario, Canada. (Sept. 1997, p. 1029)

* 3-7 **Art and Mathematics Conference (AM98)**, University of California at Berkeley, Berkeley, California.

Speakers: J. Conway, H. Ferguson, D. Hoffman, and W. Thurston.

Information: Contact N. Friedman, Dept. of Math., Univ. at Albany-SUNY, Albany, NY 12222; tel: 518-442-4621, fax: 518-442-4731; artmath@math.albany.edu; or C. Sequin, EECS, CS Div., Univ. of California,

Soda Hall, Berkeley, CA 94720-1776; tel: 510-642-5103, fax: 510-642-5775; sequin@cs.berkeley.edu or visit <http://http.cs.berkeley.edu/~sequin/AM98/index.html>.

3-7 Conference on Lattices and Universal Algebra, JATE Bolyai Institute, Szeged, Hungary. (Oct. 1997, p. 1158)

3-7 XI - Brazilian Meeting of Topology, Departamento de Matematica do Instituto de Geociencias e Ciencias Exatas da UNESP - Rio Claro, Sao Paulo, Brazil. (Dec. 1997, p. 1499)

* **3-21 Mathematical Geophysics Summer School**, Department of Mathematics, Stanford University, Stanford, California.

Program: MGSS is a five-year NSF-funded program organized by Stanford Mathematics. Its purpose is to attract the attention and interest of theoreticians to the many interesting and important problems in geophysics, as well as to define mathematically, address and solve some of these problems. Topics include Seismic Imaging (August 3-21, 1998), Geophysical Tomography (August 1999), and Waves and Heterogeneous Media (2000). The 3-week program will be divided into three roughly equal parts covering applications, theory and computation. There will be daily introductory lectures in the mornings. More specialized lectures (for smaller groups) and seminars will be scheduled in the afternoons.

Information: For more information and application form: <http://cartan.stanford.edu/mgss/>, or MGSS@math.stanford.edu, or W. Perez, Dept. of Mathematics, Stanford Univ., Stanford, CA 94305-2125.

* **4-15 Summer School on Low Dimensional Topology**, Budapest, Hungary.

Organizing Committee: K. Böröczky Jr. (Math. Inst. Acad, Budapest), A. Némethi (Ohio State Univ.), R. Rimányi (Eötvös Univ., Budapest), A. Stipsicz (Eötvös Univ.), A. Szűcs (Eötvös Univ.).

Speakers: M. Davis (Ohio State Univ.): Non-positively curved spaces; A. Némethi (Ohio State Univ.): The link of surface singularities; W. Neumann (Univ. of Melbourne, Australia): Geometry of 3-manifolds; R. Stern (Univ. of California, Irvine): Differential topology of 4-dimensional manifolds.

Information: The level of the lectures is of a 2nd year PhD course. The lecture series will be accompanied by tutorials. We hope to provide accommodation for the participants. Abstracts and updated information is available at <http://www.math-inst.hu/~carlos/difftop.html>. For registration or any questions, contact K. Böröczky Jr. at carlos@math-inst.hu. Deadline for application: March 1, 1998.

7-10 European Summer School: Markov Chain Monte Carlo Methods, Rebild, Denmark. (Feb. 1998, p. 294)

* **9-11 The Fourth International IMACS Conference on Applications of Computer Al-**

gebra, Czech Technical University, Prague, Czech Republic.

Program Chairs: V. Edneral (edneral@theory.npi.msu.su), W. Kuechlin (kuechlin@informatik.uni-tuebingen.de), R. Liska (liska@siduri.fjfi.cvut.cz).

Organizing Committee: S. Steinberg, M. Wester.

Local Arrangements: J. Limpouch, M. Sinor, Faculty of Nuclear Sciences and Physical Engineering, Czech Technical Univ.

Scope: 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.

Meeting Format: The meeting will be run in the standard IMACS format where individuals are invited to organize a special session by contacting the program chairs. All paper submissions must be directed to an organizer of an appropriate special session, which will be listed at the Web sites.

List of Sessions (preliminary): Mechanics; ODEs; problem solving environments; high energy physics; PDEs and symmetries; symbolic-numeric interfaces; general relativity; Hamiltonian systems; seminumerical methods; robotics; geometry; automatic differentiation; control theory; grand challenges; interval arithmetic; industrial applications; software integration; education.

Information: For more information see <http://www-troja.fjfi.cvut.cz/aca98/> (or the US mirror <http://math.unm.edu/ACA/1998/index.html>) or send e-mail to aca98@siduri.fjfi.cvut.cz.

9-15 Conference on Geometry and Topology, University of Aarhus, Aarhus, Denmark. (Dec. 1997, p. 1499)

10-13 Integral Methods in Science and Engineering '98, Michigan Technological University, Houghton, Michigan. (Dec. 1997, p. 1499)

10-14 From Individuals to Populations, Ceske Budejovice, Czech Republic. (Sept. 1997, p. 1030)

10-17 The 4th International Conference on Theory of Groups (GROUP-KOREA 1998), Pusan National University, Pusan, Korea. (Feb. 1998, p. 294)

* **13-15 International Symposium on Symbolic and Algebraic Computation (ISSAC'98 Rostock)**, Universität Rostock, Rostock, Germany.

Sponsor: GI, in cooperation with ACM-SIGSAM.

Forum: ISSAC is a yearly international symposium that provides an opportunity to learn of new developments and to present original research results in all areas of symbolic mathematical computation.

Topics: Include, but are not limited to: algorithmic mathematics, computer science, applications.

Activities: The planned activities include invited presentations, research and survey papers, poster sessions, tutorial courses, vendor exhibits, and software demonstrations. Proceedings will be distributed at the symposium.

Proposals for workshops, tutorial courses, demonstrations, panel discussions, or related activities are welcomed. User-groups, editorial boards, or other associations desiring meeting space during the course of the symposium are encouraged to contact the conference organizers.

Important Dates: January 20, 1998: Submitted papers must be received. March 24, 1998: Notification of acceptance. April 28, 1998: Camera-ready papers must be received.

Information: <http://wwwteo.informatik.uni-rostock.de/ISSAC98/>.

* **13-16 Conference on Commutative Algebra in Honour of David Rees's 80th Year (a satellite conference of ICM-98)**, Exeter, United Kingdom.

Program: The conference, which is supported financially by the London Mathematical Society and is open to all interested mathematicians, is expected to concentrate on recent and current research in aspects of commutative algebra related to the work of David Rees, including reductions and integral closures of ideals, Rees rings and algebras, uniform Artin-Rees theorems, mixed multiplicities, and Hilbert functions.

Invited Speakers: Among those who have already accepted invitations to speak are C. Huneke (Purdue), D. Katz (Kansas), D. Kirby (Southampton), L. O'Carroll (Edinburgh), N. V. Trung (Hanoi), G. Valla (Genoa), and J. K. Verma (Bombay).

Organizers: R. Y. Sharp (Sheffield) and P. Vámos (Exeter).

Registration Fee: Participants from developed countries will be expected to pay a registration fee of £35.

Information: e-mail: car-meet@maths.ex.ac.uk; conference Web site: http://www.maths.ex.ac.uk/conf_rees.html.

13-17 Seventh International Colloquium on Numerical Analysis and Computer Science with Applications, Plovdiv, Bulgaria. (Sept. 1997, p. 1030)

15-23 International Workshop on Non-linear and Improperly Posed Problems, Kocaeli, Turkey. (Feb. 1998, p. 294)

16-21 1998 IEEE International Symposium on Information Theory, Massachusetts Institute of Technology, Cambridge, Massachusetts. (Sept. 1997, p. 1030)

* **17-September 2 XXVIIIth Probability Summer School, Saint-Flour, Cantal, France.**

Invited Speakers: M. Emery (C.N.R.S.), A. Nemirovski (Technion-Israel Inst. of Tech.), D. Voiculescu (Univ. of California, Berkeley).

Inscriptions and Information: P. Bernard, Université Blaise Pascal, Mathématiques Appliquées, F63177 Aubiere Cedex; tel:

04-73-40-70-52 or 04-73-40-70-50; fax: 04-73-40-70-64; e-mail: bernard@ucfma.univ-bpclermont.fr.

18–23 **Ninth International Colloquium on Differential Equations**, Plovdiv, Bulgaria. (Sept. 1997, p. 1030)

18–27 **International Congress of Mathematicians (ICM98)**, Berlin, Germany. (June 1996, p. 702)

19–21 **20th Anniversary of Boundary Elements Conference (BEM 20)**, University of Central Florida, Orlando, Florida. (Dec. 1997, p. 1499)

19–23 **4th International Conference on Numerical Methods and Applications**, Sofia, Bulgaria. (Dec. 1997, p. 1499)

24–29 **Fields Institute Workshop on Mathematical Physics of Polymers and Percolation**, The Fields Institute for Research in Mathematical Sciences, Toronto, Ontario, Canada. (Feb. 1998, p. 294)

* 27–31 **ICDEA98 Fourth International Conference on Difference Equations and Applications**, Institute of Mathematics, Poznan University of Technology, Poland.

Topics: General theory of difference equations, asymptotic behaviour, oscillation theory, stability theory, chaos, discrete dynamical systems, discrete transformations, discrete inequalities, numerical methods, approximation theory, control theory, stochastic processes, applications in industrial mathematics and engineering, discrete models in natural sciences, biology, economy etc., miscellaneous.

Main Speakers and Invited Lectures: R. Agarwal (Singapore), K. Aomoto (Japan), O. Arino (France), H. Brunner (Canada), S. Elyadi (USA), L. Erbe (Canada), S. S. Cheng (Taiwan), J. Graef (USA), I. Gyori (Hungary), T. Kaczorek (Poland), I. Kiguradze (Georgia), P. Kloeden (Australia), A. Lasota (Poland), A. Peterson (USA), T. Sauer (USA), A. N. Sharkovsky (Ukraine), B. G. Zhang (China). There will be an open problem session by G. Ladas (USA).

Information: For registration and further information contact: ICDEA98 secretary: A. Marlewski, icdea98@math.put.poznan.pl. For the information on the World Wide Web: <http://www.tup.edu.pl/hypertext/put/mm/ICDEA98.html>.

* 28–September 3 **Fractal Geometry and Stochastics II**, Univ of Greifswald, Greifswald, Germany.

Topics: Fractal sets and measures, geometric measure theory, stochastic processes and random fractals, connections with dynamical systems, harmonic analysis on fractals.

Invited Speakers: Fukushima, Kahane, Lyubich, Mandelbrot, Moran, Olsen, Peres, Preiss, Solomyak, Taqqu.

Organizers: C. Bandt (Greifswald), S. Graf (Passau), M. Zähle (Jena). Sponsored by Deutsche Forschungsgemeinschaft.

Information: <http://www.math-inf.uni-greifswald.de/~fgs2/>; e-mail: frac@uni-greifswald.de; fax: +49-3834-864615.

* 30–September 4 **XII Conference on Analytic Functions**, Lublin, Poland.

Organizers: J. G. Krzyz, J. Lawrynowicz, J. Siciak, J. Szynal, E. Zlotkiewicz.

Topics: Conformal and quasiconformal mappings, polynomials, complex dynamics, complex analysis in C^n , Clifford analysis.

Call for Papers: Abstracts of contributed papers of one page at most should be submitted before June 30, preferably by e-mail (using AMS- \LaTeX), to the organizers. The proceedings of the conference will be published as a carefully refereed special issue of the *Annales Universitatis Mariae Curie-Sklodowska* Sect. A.

Fees: The conference fees are US\$150 (if paid by June 30) or US\$200 (if paid at the conference). The fees cover conference materials, refreshments, and lunch (Monday to Friday).

Information: XII Conference on Analytic Functions, Department of Mathematics, M. Curie-Sklodowska Univ., Plac M. Curie-Sklodowskiej 1, 20-031 Lublin, Poland; e-mail: nowakm@golem.umcs.lublin.pl. Updated information about the conference will be available on our WWW homepage: <http://golem.umcs.lublin.pl/~funal/>.

30–September 5 **Algebraic Number Theory and Diophantine Analysis**, Graz, Austria. (Sept. 1997, p. 1030)

31–September 4 **Conference on Functional Analysis, Partial Differential Equations and Applications, in honor of V. Mazya**, Rostock, Germany. (Dec. 1997, p. 1500)

31–September 6 **International Conference on Mathematics and Applications Dedicated to the 90th Anniversary of L. S. Pontryagin**, Steklov Mathematical Institute and Moscow State (Lomonosov) University, Moscow, Russia. (Sept. 1997, p. 1030)

September 1998

1–9 **Fourth International Workshop on Complex Structures and Vector Fields**, St. Constantine resort (near Varna), Bulgaria. (Sept. 1997, p. 1031)

2–5 **1998 Conference on Computational Physics (CCP 1998)**, Granada, Spain. (Feb. 1998, p. 295)

12–13 **Central Sectional Meeting**, DePaul University, Chicago, IL. (Sept. 1997, p. 1031)

16–18 **Seventh International Conference on Hydraulic Engineering Software (HYDROSOFT 98)**, Centro di in Como, Italy. (Dec. 1997, p. 1500)

17–20 **The Third Annual Conference on Research in Undergraduate Mathematics Education**, Century Center, South Bend, Indiana. (Feb. 1998, p. 295)

* 17–29 **Ninth Crimean Autumn Mathematical Symposium on Spectral and Evolutionary Problems**, Crimea, Ukraine.

Deadline: May 15, 1998.

Organizers: Simferopol State University, Mathematical Foundation of Crimea.

24–26 **4th Hellenic European Conference on Computer Mathematics and Its Applications (HERCMA '98)**, Athens, Greece. (Oct. 1997, p. 1158)

28–30 **International Conference on Ordinal and Symbolic Data Analysis (OSDA98)**, University of Massachusetts, Lincoln Campus Center, Amherst, Massachusetts. (Dec. 1997, p. 1500)

28–October 4 **International Conference "Dynamical Systems: Stability, Control, Optimization (DSSCO'98)"**, Minsk, Belarus. (Oct. 1997, p. 1158)

October 1998

2–4 **Midwest Conference on the History of Mathematics (with a special session on History of Logic)**, Iowa State University, Ames, Iowa. (Feb. 1998, p. 295)

5–10 **Fields Institute Workshop on Hydrodynamic Limits**, The Fields Institute for Research in Mathematical Sciences, Toronto, Ontario, Canada. (Feb. 1998, p. 295)

9–10 **AMS Southeastern Sectional Meeting**, Wake Forest University, Winston-Salem, North Carolina. (Sept. 1997, p. 1031)

* 14–17 **Trends in Mathematical Physics**, University of Tennessee, Knoxville, Tennessee.

Aim: The UTK Departments of Mathematics and Physics are jointly hosting a conference in mathematical physics, to bring together researchers with various backgrounds in mathematics and/or in physics for a series of expository lectures on selected areas in mathematical physics. The aim is to explore the common features shared by various fields of mathematical physics and the underlying mathematics and to create links between researchers across discipline boundaries.

Topics: The conference will consist of a series of plenary lectures on selected topics, both theoretical and computational, including: dendritic growth/pattern formation, mean curvature flow, lattice gauge theory, gauge-theoretic invariants/topology, gravitation/cosmology, fermion dynamical symmetries/Lie algebras.

Speakers: The following speakers have accepted an invitation to give three hour-long lectures each: M. Glicksman (RPI), G. Huisken (Tubingen), C. Michael (Liverpool), C. Taubes (Harvard), C.-L. Wu (Taiwan). Additional speakers are expected.

Funding: Some funds are available to provide financial assistance to graduate students and postdoctoral fellows wishing to attend.

Information: Additional info and updates at the conference Web site: <http://ares.math.utk.edu/maphya/>.

22–23 **SIAM Workshop on Mathematical**

Foundations for Features in CAD, Engineering, and Manufacturing, Somerset Inn, Troy, Michigan. (Jan. 1998, p. 113)

24–25 **AMS Eastern Sectional Meeting**, Pennsylvania State University, State College, PA. (Sept. 1997, p. 1031)

Information: R. Cascella, rgc@ams.org.

25–28 **Fractal 98, Complexity and Fractals in the Sciences**, Valletta, Malta. (Dec. 1997, p. 1500)

25–29 **Fields Institute Workshop on Monte Carlo Methods**, The Fields Institute for Research in Mathematical Sciences, Toronto, Ontario, Canada. (Feb. 1998, p. 295)

November 1998

* 2–7 **International Conference on Potential Analysis**, Hammamet, Tunisia.

Organizing Committee: D. Feyel (Evry), E. Haouala (Tunis), F. Hirsch (Evry), M. Hmissi (Tunis).

Scientific Committee: Honorary member: G. Choquet (Paris). Members: A. Ancona (Orsay), D. Bakry (Toulouse), P. J. Fitzsimmons (San Diego), M. Fukushima (Osaka), W. Hansen (Bielefeld), L. I. Hedberg (Linköping), T. Lyons (London), G. Mokobodzki (Paris), D. Nualart (Barcelona), M. Roeckner (Bielefeld) H. Ben Saad (Tunis).

Topics: The themes to be dealt with are those of the journal *Potential Analysis*, devoted to the interactions among potential theory, probability, geometry, and functional analysis. The topics include classical potential theory and its applications to PDEs; nonlinear generalizations; operators, semi-groups, harmonic spaces, Dirichlet spaces; probabilistic interpretations and applications; Markovian stochastic differential equations and diffusion processes; connections with other theories such as harmonic analysis, dynamical systems, martingale theory and stochastic integration; geometry and diffusions on manifolds.

Official Languages: English and French.

Venue and Accommodations: The conference will take place in Hammamet, in one of its beautiful hotels. Hammamet is a well-known touristic city of Tunisia. It is located on the shores of the Cap Bon and right on the sea.

Information: Departement de Mathematiques, Facult des Sciences de Tunis, 1060 Le Belvdre. Tunis, Tunisia; fax: 216-1-885350; e-mail: ezdine.haouala@fst.rnu.tn.

14–15 **AMS Western Sectional Meeting**, University of Arizona, Tucson, AZ. (Sept. 1997, p. 1031)

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

December 1998

14–18 **First International Conference on Semigroups of Operators, Theory and Applications**, Marriot Hotel, Newport Beach, California. (Feb. 1998, p. 296)

January 1999

January–June **The Fields Institute for Research in Mathematical Sciences Program in Probability and Its Applications**, The Fields Institute, Toronto, Ontario, Canada.

13–16 **Joint Mathematics Meeting**, San Antonio Convention Center, San Antonio, Texas.

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

July 1999

* 7–17 **Emerging Applications of Dynamical Systems**, University of Minnesota, Minneapolis, Minnesota.

Information: R. N. Shekoury, e-mail: shekoury@go.com.jo.

August 1999

* 19–21 **20th Anniversary of Boundary Elements Conference (BEM 20)**, University of Central Florida, Orlando, Florida.

Information: R. N. Shekoury, e-mail: shekoury@go.com.jo.