

---

# Mathematics Calendar

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

## January 2001

\* 8–12 **Conjectures, Recent Results and Open Problems Related to the Macdonald Polynomials**, Isaac Newton Institute for Mathematical Sciences, Cambridge, UK.

**Organizers:** P. Hanlon, I. G. Macdonald, and A. O. Morris.

**The Program:** In the 1980s, I. G. Macdonald formulated a series of conjectures which predicted the constant terms of expressions that involve an important new class of symmetric functions called the Macdonald polynomials. Since their introduction, these conjectures and polynomials have been a central topic of study in algebraic combinatorics. Of particular note has been the variety of approaches used in efforts to solve the conjectures or to find an algebraic or geometric interpretation for the Macdonald polynomials themselves. In this program we will attempt to unify these different approaches to the Macdonald polynomials and some of the outstanding conjectures that have resulted from this work. Links with other areas such as algebraic geometry, Lie algebras, noncommutative algebra, mathematical physics, and mathematical statistics will be emphasized.

**The EuroWorkshop:** This EuroWorkshop will serve to launch the program on Symmetric Functions and Macdonald Polynomials by providing an introduction to the subject. Specialists will give a series of lectures covering the origins of the subject, the current state of knowledge, and open problems and conjectures.

**Speakers:** A. Garsia (Univ. of California at San Diego); P. Hanlon (Univ. of Michigan); I. Macdonald (Queen Mary College); E. Opdam (Univ. of Amsterdam); J. Stembridge (Univ. of Michigan).

**Further Information and Application Forms:** These are available from the WWW at <http://www.newton.cam.ac.uk/programs/sfmw01.html>, where further information about the EuroWorkshop will be posted and updated.

**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

## February 2001

\* 15–19 **International Conference “Analytic Methods of Analysis and Differential Equations” (AMADEA 2001)**, Belarusian State University, Minsk, Belarus.

**Organizers:** The Belarusian State University and the Institute of Mathematics of the Belarusian National Academy of Sciences, together with Moscow State University.

**Program:** A special session devoted to the memory of academician F. D. Gakhov (1906–1980) will be held. The length of plenary invited lectures is 45 min., reports 20 min., and short communications 10 min. The publication of the abstracts is planned.

**Topics:** (1) Integral Transforms and Special Functions, (2) Differential Equations and Applications, (3) Integral, Difference, Functional Equations and Fractional Calculus, (4) Real and Complex Analysis.

**Information:** Belarus, 220050, Minsk-50, Fr. Skaryny Ave. 4, Belarusian State University, Department of Math and Mech., AMADE-2001; e-mail: [amade99@mmf.bs.u.unibel.by](mailto:amade99@mmf.bs.u.unibel.by); <http://amade.virtualave.net/>.

\* 19–March 2 **Workshop “Random Walks and Statistical Physics”**, Erwin Schrödinger Institute, Vienna, Austria.

**Organizers:** V. A. Kaimanovich (Rennes, France), K. Schmidt (Vienna, Austria), Wolfgang Woess (Graz, Austria).

**Information:** Visit Web site at <http://www.esi.ac.at/Programs/rwalk2001.html>; e-mail: [rwalk@esi.ac.at](mailto:rwalk@esi.ac.at).

\* 23–25 **11th Annual Conference of the Jammu Mathematical Society: Seminar on Analysis, Geometry and Its Applications**, Department of Mathematics, University of Jammu, Jammu, India.

**Organizing Committee:** A. P. Singh (President, JMS), B. S. Komal (Secretary, JMS).

should be sent to the Editor of the *Notices* in care of the American Mathematical Society in Providence or electronically to [notices@ams.org](mailto:notices@ams.org) or [mathcal@ams.org](mailto:mathcal@ams.org).

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

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

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

**Information:** Mathematicians interested in participating should send title and abstract of their talk to either of the organizers, Department of Mathematics, University of Jammu, Jammu-180006, India.

### March 2001

\* 1–3 **Fourth New Mexico Analysis Seminar**, The University of New Mexico, Albuquerque, New Mexico.

**Organizers:** J. Alvarez (jalvarez@math.nmsu.edu), J. Lakey (jlakey@math.nmsu.edu), C. Pereyra (crisp@math.unm.edu).

**Main Speaker:** S. Hofmann, Univ. of Missouri at Columbia, "Recent progress on the square root problem of Kato".

**Description:** This seminar is organized each spring by analysis aficionados at New Mexico State University and The University of New Mexico. The goal is to provide an opportunity for scientific exchange and cooperation among broadly defined analysts. The centerpiece of the seminar is a series of one-hour lectures given by a keynote speaker. There is time allocated for shorter contributed talks. If you would like to attend and/or give a talk, please contact one of the organizers by January 15, 2001. Pending final approval, the organizers expect to have NSF financial support. Doctoral students and recent Ph.D.s are especially encouraged to apply.

\* 8–9 **DIMACS Workshop on Protein Structure and Structural Genomics: Prediction, Determination, Technology and Algorithms**, DIMACS Center, Rutgers University, Piscataway, New Jersey.

**Organizers:** S. Istrail, Celera Genomics; R. Levy, Rutgers Univ.; M. Singh, Princeton Univ.

**Description:** The goal of this workshop is to bring together experimentalists and theoreticians to assess the strengths and weaknesses of current methods for understanding protein structure and to brainstorm about how the growing biological databases will influence development of future methods.

**Contact:** M. Singh, Princeton Univ., mona@cs.princeton.edu.

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

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

\* 12–16 **DIMACS Workshop on Algorithmic and Quantitative Aspects of Real Algebraic Geometry in Mathematics and Computer Science**, DIMACS Center, Rutgers University, Piscataway, New Jersey. **Sponsor:** DIMACS Center.

**Organizers:** R. Pollack, New York Univ.; M.-F. Roy, Univ. of Rennes; M. Sharir, Tel Aviv Univ.

**Description:** Topics to be covered at this workshop include: interactions between real algebraic geometry and computational geometry; efficient recent algorithms in real algebraic geometry; quantitative aspects of basic semi-algebraic sets; lower bounds and real algebraic geometry; quantitative aspects of Pfaffian sets; combinatorial characterization of real algebraic varieties; combinatorial patchworking for constructing real algebraic curves and hypersurfaces; real aspects of enumerative geometry; realization problems in geometry.

**Contact:** R. Pollack, New York Univ., pollack@cims.nyu.edu.

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

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

\* 26–27 **Dimacs Workshop on Resource Management and Scheduling in Next Generation Networks**, DIMACS Center, Rutgers University, Piscataway, New Jersey.

**Organizers:** M. Andrews, Bell Labs; M. Franklin, UC Berkeley; S. Muthukrishnan, AT&T; R. Rajaraman, Northeastern Univ.; Roy Yates, Rutgers Univ.

**Description:** This workshop will focus on all optimization problems that will arise in new network settings. Specific topics include, but are not limited to: physical layer issues, network and transport layer issues, application layer issues.

**Contact:** M. Andrews, Bell Labs, andrews@research.bell-labs.com.

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

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

### April 2001

\* 2–6 **Conference on Levy Processes and Stable Laws**, Warwick University, UK.

**Sponsors:** The organizers thank the London Mathematical Society and the European Union for financial support.

**Topics:** Each day of this meeting will be devoted to exploring recent developments in one of the five themes: Levy processes—basic theory, stable laws, applications (including finance and quantum theory), stochastic calculus, and Levy-type Markov processes.

**Speakers:** The list of speakers includes the following: S. J. Taylor (Sussex), J. F. LeGall (ENS), M. Marcus (CUNY), R. Doney (Manchester), K.-I. Sato (Nagoya), A. Weron (Wroclaw), J. Rosinski (Tennessee), T. Mikosch (Groningen), S. Albeverio (Bonn), E. Eberlein (Freiberg), N. Bouleau (ENPC), H. Kunita (Nanzan), J. Picard (Blaise Pascal), A. Estrade (Orleans), H. Heyer (Tubingen), R. Schilling (Sussex), Z. Chen (Seattle), V. Kolokoltsov (Nottingham Trent), O. Barndorff-Nielsen (Aarhus).

**Information:** Further details can be found on the Web site <http://science.ntu.ac.uk/msor/conf/Levy/>. To participate in the conference, please contact Peta McAllister, peta@maths.warwick.ac.uk, tel: +44-024-76524403, fax: +44-024-76523548.

\* 4–7 **Conference on Automorphic Forms: Concepts, Techniques, Applications and Influence**, Institute for Advanced Study, Princeton, New Jersey.

**Information:** <http://www.math.ias.edu/~huguenin/Automorphform.html>.

\* 18–21 **IV Iberoamerican Conference on Topology and Its Applications**, University of Coimbra, Coimbra, Portugal.

**Organizing Committee:** M. Manuel Clementino, J. Picado, L. Sousa, G. Gutierrez, M. João Ferreira, D. Hofmann.

**Invited Speakers:** B. Banaschewski (McMaster Univ., Canada), M. Erné (Univ. Hannover, Germany), M. Sanchis (Univ. Jaume I, Spain), M. Sobral (Univ. Coimbra, Portugal), F. D. Tall (Univ. Toronto, Canada), A. H. Tomita (Univ. São Paulo, Brazil), F. J. Trigos-Arrieta (California State Univ., USA), J. Vielma (Univ. de los Andes, Venezuela).

**Call for Papers:** Contributed talks of 25 minutes in length in all areas of topology and applications are invited. If you would like to contribute a talk, you may submit your title and abstract on the registration form. Proceedings of the conference will be published.

**Scientific Committee:** O. Alas (Univ. São Paulo, Brazil), M. Manuel Clementino (Univ. Coimbra, Portugal), S. Garcia-Ferreira (UNAM, Mexico), V. Gregori (Univ. Politecnica Valencia, Spain), S. Hernandez (Univ. Jaume I, Spain), H. Herrlich (Univ. Bremen, Germany), H.-P. Künzi (Univ. Cape Town, South Africa), R. Lowen (Univ. Antwerp, Belgium), S. Watson (York Univ., Canada).

**Information:** For detailed information please visit the conference Web page, <http://www.mat.uc.pt/~cita2001/>, or send an e-mail to [cita2001@mat.uc.pt](mailto:cita2001@mat.uc.pt).

\* 26–28 **Solutions of Partial Differential Equations in Periodic Media, The 2001 Spring Lectures at the University of Arkansas**, University of Arkansas Continuing Education Center, Fayetteville, Arkansas.

**Principal Lecturers:** L. Caffarelli and R. de la Llave, Univ. of Texas, Austin.

**Invited Speakers:** S. Angenent (Univ. of Wisconsin), V. V. Bangert (Albert-Ludwigs-Univ. Freiburg), D. Burago (Penn State), A. Candel (California State Univ., Northridge), Y. Li (Rutgers Univ.), F.-H. Lin (Courant Inst. of Math. Sci.), J. Mather (Princeton), J. Viaclovsky (MIT).

**Program:** The meeting will consist of at least five sessions: morning and afternoon sessions on Thursday and Friday and a morning session on Saturday. Each session will begin with a lecture by Professor Caffarelli or Professor de la Llave, followed by two or three talks by invited speakers or contributed papers.

**Call for Papers:** Contributed papers should be submitted before March 1, 2001.

**Funding:** A proposal has been submitted to the National Science Foundation for funds to assist graduate students and young researchers with expenses.

**Information:** L. Capogna, L. Lanzani, or I. Monroe, Dept. of Mathematical Sciences, Hotz 538, Univ. of Arkansas, Fayetteville, AK 72701; or e-mail: lcapogna@comp.uark.edu, lanzani@comp.uark.edu, or imonroe@comp.uark.edu.

### May 2001

\* 2-4 **DIMACS Workshop on Multicasting: Architectures, Algorithms and Applications**, DIMACS Center, Rutgers University, Piscataway, New Jersey.

**Organizers:** M. Adler, Univ. of Mass.; F. Hsu, Fordham Univ.

**Description:** Topics to be covered at the workshop include: IP multicasting; multicast routing protocols and algorithms; multicast transport protocols; multicast congestion control; topology inference and network monitoring using multicasting; multicasting in wireless systems, mobile computing, ad hoc networks; case studies and other issues.

**Contact:** F. Hsu, Fordham Univ., hsu@trill.cis.fordham.edu.

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

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

\* 20-26 **13th International Conference on Formal Power Series and Algebraic Combinatorics**, Arizona State University, Tempe, Arizona.

**Topics:** Algebraic and bijective combinatorics and its relation with other parts of mathematics, combinatorial and computer algebra, computer science, and physics.

**Program:** Invited lectures, contributed presentations, poster sessions, problem sessions, and software demonstrations. A special session will be dedicated to the work of Rodica Simion. Co-authors of Rodica Simion are encouraged to send a poster presentation of their joint work.

**Invited Speakers:** (This list is not yet complete.) I. Barany (Hungary/England), M. Bousquet-Mélou (France), G. Kalai (Israel), R. P. Stanley (USA), W. T. Trotter (USA), M. Vergne (France), H. Wilf (USA).

**Deadlines:** Paper and poster submission: Extended abstracts of at most twelve pages by November 15, 2000. Software submission: January 15, 2001. Open problem session: May 1, 2001. Registration: January 15, 2001.

**Information:** See the conference home page at <http://math.la.asu.edu/~fpsac01/> or e-mail: [fpsac01@asu.edu](mailto:fpsac01@asu.edu).

\* 21-June 8 **School on High-Dimensional Manifold Topology**, International Center for Theoretical Physics (ICTP), Trieste, Italy.

**Organizers:** F. T. Farrell (State Univ. of New York at Binghamton, USA), W. Lueck (Westfälische Wilhelms-Universität, Münster, Germany). **Local Organizer:** Lothar Goettsche (ICTP, Italy).

**Program:** The school will consist of two weeks of lectures followed by one week of conference. Topics include: Surgery theory; Algebraic K- and L-theory; Homotopy groups of the group of diffeomorphisms resp. homeomorphisms of a closed manifold; Controlled topology; Isomorphism Conjecture in algebraic K- and L-theory, Borel Conjecture, Novikov Conjecture, Baum-Connes Conjecture; Exotic aspherical manifolds.

**Lecturers:** M. Davis, F. T. Farrell, T. Goodwillie, I. Hambleton, L. Jones, W. Lueck, F. Quinn, A. Ranicki, T. Schick, S. Stolz.

**Information:** <http://www.ictp.trieste.it/cgi-bin/ICTPsmr/mkhtml/smr2html.pl?smr1312/Announcement/>; e-mail: [smr1312@ictp.trieste.it](mailto:smr1312@ictp.trieste.it).

\* 27-June 2 **Spring School in Analysis: Function Spaces and Interpolation**, Paseky nad Jizerou, Czech Republic.

**Organizers:** J. Lukes and L. Pick (Charles Univ., Prague, Czech Republic).

**Topics:** Function spaces, interpolation, rearrangement estimates, Sobolev inequalities, K-divisibility, Calderon couples, extrapolation.

**Main Speakers:** A. Cianchi (Univ. of Florence, Italy), M. Cwikel (Technion, Haifa, Israel), M. Milman (Florida Atlantic Univ., USA).

**Deadline:** For a reduced fee, February 15, 2001.

**Information:** <http://www.karlin.mff.cuni.cz/katedry/kma/ss/jun01/ss.htm>; e-mail: [pasejune@karlin.mff.cuni.cz](mailto:pasejune@karlin.mff.cuni.cz).

\* 28-June 1 **The Tarski Centenary Conference (including the workshop: Decidability and Complexity, May 27-29)**, Warszawa, Poland.

**Sponsors:** Polish Academy of Sciences-The Banach Center, Warsaw Univ., Warsaw Technical Univ., Polish Society for Logic and Philosophy of Science, Polish Philosophical Society.

**Organizing Committee:** Z. Adamowicz, A. Grzegorzczak, D. Niwinski, E. Orłowska, A. Romanowska, J. Wolenski.

**Information:** D. Niwinski ([niwinski@mimuw.edu.pl](mailto:niwinski@mimuw.edu.pl)), J. Wolenski ([wolenski@jetta.if.uj.edu.pl](mailto:wolenski@jetta.if.uj.edu.pl)).

\* 31-June 3 **IMACS-ACA'2001, The Seventh International IMACS Conference on Applications of Computer Algebra**, Technical Vocational Institute (TVI), Albuquerque, New Mexico.

**Chairmen:** General Chair: B. Pletsch ([bpletsch@tvi.cc.nm.us](mailto:bpletsch@tvi.cc.nm.us)), Program Chair: S. Steinberg ([stanly@math.unm.edu](mailto:stanly@math.unm.edu)), Dis Organizer: M. Wester ([wester@math.unm.edu](mailto:wester@math.unm.edu)).

**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. 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://math.unm.edu/ACA/2001/2001.html>, <http://math.unm.edu/aca.html> (main ACA page).

### June 2001

\* 3-8 **The 6th International Conference on Mathematical Population Dynamics**, Marrakech, Morocco.

**Organizing Committee:** M. Alexandersson (Berkeley), O. Arino (Paris), E. Aitdads (Marrakech), H. Bouslous (Marrakech), R. Bravo de la Parra (Alcala), H. Hbid (Marrakech), M. Khaladi (Marrakech), B. Kimmel (Houston), U. Olofsson (Göteborg), Z. Taib (Göteborg), M. Yahiaoui (Rabat).

**Scope:** The purpose of the conference is to serve as an interdisciplinary meeting where biologists and mathematicians discuss issues of mutual interest. Among the invited and keynote speakers we expect to have the names of some of the most prominent researchers in the area.

**Call for Papers:** Research papers on different aspects of population dynamics are solicited from researchers in a very wide range of areas in biology and applied mathematics.

**Deadlines:** The deadline for preregistration is January 15, 2001. Abstracts must be submitted before January 30, 2001.

**Information:** More information on the conference can be found on the Web at <http://www.math.chalmers.se/~ziad/popdyn/Mpd6/index.html> or by contacting the scientific secretaries of the conference at the following e-mail address: [mpd6@math.chalmers.se](mailto:mpd6@math.chalmers.se).

\* 4-10 **Second Goteborg Conference in Harmonic Analysis and Partial Differential Equations**, Chalmers University of Technology/Goteborg University, Goteborg, Sweden.

**Program:** The conference will consist of plenary lectures and contributed talks in parallel sessions. It will be devoted to presentation of recent results in harmonic analysis and partial differential equations.

- Scientific Committee:** L. Carleson (Stockholm), F. Ricci (Torino), G. Rozenblum (Goteborg), P. Sjöögren (Goteborg), P. Sjölin (Stockholm), J. Sjöstrand (Paris).  
**Information:** [http://www.math.chalmers.se/Math/Research/HarmonicAnalysis/Conferences/hapde\\_01.html](http://www.math.chalmers.se/Math/Research/HarmonicAnalysis/Conferences/hapde_01.html).
- \*10-13 **7th International Meeting on DNA Based Computers**, University of South Florida, Tampa, Florida.  
**Sponsors:** ACM Special Interest Group on Algorithms and Computation Theory (ACM SIGACT); European Association for Theoretical Computer Science (EATCS); Center for Integrated Space Microsystems within JPL, NASA; USF Institute for Biomolecular Science; USF Department of Mathematics; USF Department of Biology; USF Department of Chemistry.  
**Topics:** Papers and poster presentations are sought in all areas that relate to computing with biomolecules including (but not limited to): algorithms and applications, models of biomolecular computation (using DNA and/or other molecules), analysis of laboratory techniques and theoretical models, error correction, sequence design, simulation software, DNA chemistry, DNA motifs, DNA devices, and computational processes in vivo. We particularly encourage papers and posters reporting experimental results.  
**Invited Plenary Lectures:** N. R. Cozzarelli, Univ. of California, Berkeley (DNA topology); J. SantaLucia, Wayne State Univ. (DNA thermodynamics); R. Breaker, Yale Univ. (DNA catalytic activity); R. Lipton, Princeton Univ. (TBA).  
**Information:** <http://www.cas.usf.edu/dna7/>.
- \*14-23 **Third International Conference on Geometry, Integrability and Quantization**, Sts. Constantine and Elena Resort (near Varna), Bulgaria.  
**Organizers:** I. M. Mladenov (Sofia), G. L. Naber (Chico), H. Pedersen (Odense).  
**Goal:** This third edition of the conference aims, like the previous ones, to bring together experts in classical and modern differential geometry, complex analysis, mathematical physics, and related fields in order to assess recent developments in these areas and to stimulate research in related topics.  
**Information:** For more information please contact I. M. Mladenov, [mladenov@bgcict.acad.bg](mailto:mladenov@bgcict.acad.bg); G. L. Naber, [gaber@csuchico.edu](mailto:gaber@csuchico.edu); H. Pedersen, [henrik@imada.sdu.dk](mailto:henrik@imada.sdu.dk).
- \*18-22 **Fourth European Conference on Elliptic and Parabolic Problems—Part I**, Rolduc, Netherlands.  
**Organizing Committee:** J. Bemelmans (Aachen), B. Brighi, A. Brillard (Mulhouse), M. Chipot (Zurich), F. Conrad (Nancy), I. Shafrir (Haifa), V. Valente (IAC, Rome), G. Vergara-Caffarelli (Rome).  
**Presentation:** Starting this year, the former Pont-a-Mousson meeting will be split into two conferences. The first one, devoted to more theoretical aspects, will take place in Rolduc, Netherlands. (The second, with more emphasis on applications, will take place in Gaeta, Italy, September 24-28, 2001.)  
**Conference Topics:** Besides elliptic and parabolic issues, the topics of the conference include geometry, free boundary problems, fluid mechanics, evolution problems in general, calculus of variations, homogenization, control.  
**Invited Speakers:** C. Bandle (Basel), H. Beira o da Veiga (Pisa), X. Cabre (Barcelona), P. G. Ciarlet (Paris), M. Escobedo (Bilbao), H. Farwig\* (Darmstadt), M. Fila (Bratislava), D. Hilhorst\* (Orsay), D. Kinderlehrer (CMU), Y.-Y. Li (Rutgers), F. H. Lin (New York), S. Luckhaus (Leipzig), H. Matano (Tokyo), U. Mosco (Rome), J. C. C. Nitsche (Minneapolis), F. Otto (Bonn), M. Padula (Ferrara), P. Pedregal\* (Ciudad Real), L. A. Peletier (Leiden), J. F. Rodrigues\* (Lisbon), C. J. van Duijn (Amsterdam).  
**Program:** In addition to the main lectures, parallel sessions of short communications will be organized. In particular, thematic sessions will be organized by the starred names in the above list.  
**Deadline:** The deadline for submitting an abstract is April 1, 2001.  
**Information:** Conference e-mail: [rolduc@math.unizh.ch](mailto:rolduc@math.unizh.ch), <http://www.math.unizh.ch/rolducgaeta/>.
- \*21-22 (NEW DATE) **Integration of Diverse Biological Data**, DIMACS Center, Rutgers University, Piscataway, New Jersey. (Sept. 2000, p. 975)  
**Sponsor:** DIMACS Center.  
**Organizers:** A. Califano, IBM, and C. Gilliam, Columbia Univ.  
**Description:** This workshop will focus on combinatorial algorithms and probabilistic models for the analysis and cross-annotation of biological data in diverse databases. We will consider high-dimensional combinatorial algorithms and probabilistic models central to DM for the analysis, clustering, and classification of complex data patterns that can be used to integrate diverse information from many sources.  
**Contact:** A. Califano, IBM, [acal@us.ibm.com](mailto:acal@us.ibm.com).  
**Local Arrangements:** J. Herold, DIMACS Center, [jessicah@dimacs.rutgers.edu](mailto:jessicah@dimacs.rutgers.edu), 732-445-5928.  
**Information:** <http://dimacs.rutgers.edu/Workshops/index.html>.
- \*25-29 **Cmft2001, Computational Methods and Function Theory**, Aveiro, Portugal.  
**Organizers:** H. Malonek (Aveiro, Portugal), N. Papamichael (Nicosia, Cyprus), St. Ruscheweyh (Wurzburg, Germany), E. B. Saff (Tampa, FL, USA).  
**Topics:** The general theme concerns the various aspects of interaction of function theory and scientific computation, but other areas from complex variables (including generalizations like quaternions etc.), approximation theory, and numerical analysis also will be covered.  
**Local Organizing Committee:** H. Malonek (Aveiro, chairman), J. Vitória (Coimbra, co-chairman), A. Branquinho (Coimbra), I. Cação (Aveiro), P. Cerejeiras (Aveiro), I. Falcão (Braga), A. Foulquie (Aveiro), U. Kähler (Aveiro).  
**Information:** <http://event.ua.pt/cmft2001/>.
- \*25-July 6 **NATO Advanced Study Institute “Symmetric Functions 2001: Surveys of Developments and Perspectives”**, Isaac Newton Institute for Mathematical Sciences, Cambridge, UK.  
**Topics:** Macdonald polynomials; combinatorial and asymptotic problems in representation theory, algebraic geometry, and mathematical physics.  
**Organizing Committee:** S. Fomin, G. Olshanski (co-directors), P. Hanlon, I. G. Macdonald, A. Okounkov.  
**Lecturers:** I. Cherednik, P. Diaconis, W. Fulton, M. Haiman, P. Hanlon, A. Klyachko, B. Leclerc, I. G. Macdonald, M. Noumi, A. Okounkov, G. Olshanski, E. Opdam, A. Vershik, A. Zelevinsky.  
**Information:** <http://www.newton.cam.ac.uk/programs/sfmw03.html>, <http://www.math.lsa.umich.edu/~fomin/SF2001/>.
- \*25-July 6 **Workshop “Random Walks and Geometry”**, Erwin Schrödinger Institute, Vienna, Austria.  
**Organizers:** V. A. Kaimanovich (Rennes, France), K. Schmidt (Vienna, Austria), W. Woess (Graz, Austria).  
**Information:** <http://www.esi.ac.at/Programs/rwalk2001.html>, e-mail: [rwalk@esi.ac.at](mailto:rwalk@esi.ac.at).

July 2001

- \*23-August 3 **Combinatorics and Matrix Theory**, University of Wyoming, Laramie, Wyoming.  
**Sponsors:** Rocky Mountain Mathematics Consortium and the University of Wyoming.  
**Program:** The understanding of matrix structure is central to mathematics and particularly to many applications of mathematics. Matrix analysis is also a notably broad user of other parts of mathematics: geometry; analysis; algebraic geometry; etc.; and, in the ascendancy, combinatorics. In return, linear algebra and matrix theory are among the chief tools of modern combinatorics, to the extent that at times the interface between matrix analysis and combinatorics is notably blurred. The emphasis of these lectures will be upon matrix analysis and the increasing role that combinatorial ideas play in understanding matrix structure. The first part of the

series will discuss key topics in advanced matrix analysis. For this a sound first course in linear algebra will be necessary and sufficient. Attention will then turn to a broad discussion of the interface between matrix analysis and combinatorics. In-depth discussion of modern, highly combinatorial topics in matrix analysis, such as matrix completion problems, qualitative matrix theory, structural eigenanalysis and determinantal inequalities, will then follow. Along the way, discussion of appropriate undergraduate research topics (there are many) will be included, and a general view of research and particular topics in this area will be given. The latter part of the series will be largely self-contained (given the initial parts) and should be accessible to those with a sound general mathematical background.

**Speakers:** C. R. Johnson (College of William and Mary), S. Fallat (Univ. of Regina), and B. Shader (Univ. of Wyoming).

**Deadline:** For application/abstracts of talks: April 1, 2001.

**Information:** A. D. Porter or B. L. Shader, Mathematics Department, Univ. of Wyoming, Laramie, WY 82071; e-mail: adporter@uwyo.edu or bshader@uwyo.edu; <http://math.uwyo.edu/>.

### \* 30–August 17 School on Dynamical Systems, Trieste, Italy.

**Sponsor:** Abdus Salam International Centre for Theoretical Physics.

**Directors:** J. Palis (IMPA, Rio de Janeiro, Brazil), Y. Sinai (Princeton Univ. & Landau Inst., Russia); M. Viana (IMPA, Rio de Janeiro, Brazil), J. C. Yoccoz (Collège de France, Paris, France).

**Deadline:** February 28, 2001.

**Information:** Further details available by e-mail from smr1321@ictp.trieste.it.

## August 2001

### \* 8–12 The 9th International Conference on Finite or Infinite Dimensional Complex Analysis and Applications, Hanoi University of Technology, Hanoi, Vietnam.

**Topics:** Complex analysis; Infinite dimensional holomorphy; Complex numerical analysis; General theory of analytic spaces, geometric convexity and partial differential operators; Functional analytic methods in complex analysis and applications to partial differential equations; Clifford analysis, Quaternionic analysis; Mathematical physics; Value distribution theory and related topics.

**Speakers:** H. Begehr, R. P. Gilbert, R. Delanghe, Gonchar, K. Guerlebeck, H. H. Khoai, N. V. Khue, V. P. Palamodov, F. Sommen, L. H. Son, K. H. Shon, W. Sproessig, T. Siu, W. Tutschke, N. Trudinger, C. C. Yang, L. Yang.

**Registration Fee:** US\$200.

**Deadline:** June 30, 2001.

**Organizers:** L. Hung Son, J. Kajiwara, C. C. Yang.

**Information:** [lehung@netnam.org.vn](mailto:lehung@netnam.org.vn).

### \* 22–26 International Conference on Functional Analysis, Kyiv, Ukraine.

**Organizers:** Ministry of Ukraine for Education and Science, Institute of Mathematics of the National Academy of Sciences of Ukraine, Ukrainian Mathematical Society.

**Topics:** (1) Operator theory and operator-differential equations, (2) Spectral problems, (3) Algebraic structures in operator theory, (4) Applications of functional analysis in mathematical physics.

**Information:** V. Ostrovsky, Inst. of Math., National Academy of Sciences of Ukraine, Tereshchenkivska 3, Kyiv, 01601 Ukraine; e-mail: tofa2001@imath.kiev.ua. Further information and the registration form can be found at the conference Web site, <http://www.imath.kiev.ua/~tofa2001/>.

## September 2001

### \* 3–21 School on Control Theory, Trieste, Italy.

**Sponsor:** Abdus Salam International Centre for Theoretical Physics.

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

**Deadline:** March 31, 2001.

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

### \* 24–28 Fourth European Conference on Elliptic and Parabolic Problems—Part II, Gaeta, Italy.

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

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

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

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

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

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

**Information:** e-mail: [gaeta@amath.unizh.ch](mailto:gaeta@amath.unizh.ch), <http://www.math.unizh.ch/rolducgaeta/>.

### \* 26–28 Fluid Structure Interaction 2001, Halkidiki, Greece.

**Organizer:** Wessex Institute of Technology, UK.

**Abstract Deadline:** January 13, 2001.

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

### \* 26–28 ASCM 2001 (The Fifth Asian Symposium on Computer Mathematics), Ehime University, Matsuyama, Japan.

**Program:** ASCM 2001 will provide an international forum for active researchers to review the current state of the art and trends, to report research results and progress, and to exchange ideas for future developments on computer mathematics. Research papers on all aspects of the interaction between computers and mathematics are solicited for the symposium. Specific topics include but are not limited to: Symbolic, algebraic, and geometric computation; Automated mathematical reasoning; Computer-aided problem solving and instruction; Computational algebra and geometry; Symbolic/numeric hybrid methods; Parallel/distributed/network computing; Applications in CAGD/CAD, robotics, and computer vision; Mathematical software design and implementation. The symposium will consist of plenary sessions by invited speakers, regular sessions of contributed papers, and software demonstration.

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

## October 2001

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

**Organizing Committee:** B. Beckermann (Univ. of Lille I, France), A. Bentbib (Faculty of Sciences and Technologies, Marrakesh, Morocco), B. Germain-Bonne (Univ. of Lille I, France), J.-P. Chehab (Univ. of Lille I, France), M. El Alaoui-Talibi (Faculty of Sciences Semlalia, Marrakesh, Morocco), A. Fdil (ENS, Marrakesh, Morocco), A. Lembarki (Faculty of Sciences Semlalia, Marrakesh, Morocco), M. Prévost (Univ. of Littoral, Calais, France), A. Matos (Univ. of Lille

I, France), A. Messaoudi (ENS, Rabat, Morocco), M. Redivo-Zaglia (Univ. of Calabria, Cosenza, Italy), R. Sadaka (ENS, Rabat, Morocco), H. Sadok (Univ. of Littoral, Calais, France), J. Van Iseghem (Univ. of Lille I, France).

**Program:** An international conference to celebrate the 60th birthday of Claude Brezinski and the 10th anniversary of the journal *Numerical Algorithms* that he founded in 1991 and where contributed papers will be published. The themes of the conference will cover all aspects of numerical analysis, in particular those that are related to numerical algorithms.

**Deadline:** For abstracts: May 1, 2001.

**Information and Registration:** A Web site containing all the information about this conference and a registration form can be found at <http://www-lmpa.univ-littoral.fr/~na2001/>. If interested in participating, please respond to this address: na2001@lmpa.univ-littoral.fr.

### November 2001

\*26-30 **AAECC-14, The 14th International Symposium on Applied Algebra, Algebraic Algorithms, and Error-Correcting Codes**, RMIT University, Melbourne, Australia.

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

**Speakers:** R. Calderbank (AT&T, USA), T. Recio (Santander, Spain), J. Massey (Copenhagen, Denmark), V. Pless (Chicago, USA), A. Shokrollahi (Lucent Technologies, USA), M. Sudan (MIT, USA).

**Deadlines:** Submission of papers, January 31, 2001. Accepted papers will appear as a volume of the Springer LNCS series.

**Information:** <http://www.irit.fr/ACTIVITES/AAECC/A14.shtml>.

### December 2001

\*10-14 **ICMI Study Conference on the Future of the Teaching and Learning of Algebra**, University of Melbourne, Australia.

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

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

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

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

---

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.

### June 2002

\*10-16 **Aarhus Topology 2002**, University of Aarhus, Aarhus, Denmark.

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

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

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