
Mathematics Calendar

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

February 2003

- * 10-14 **Workshop on Neural Coding**, Mathematical Biosciences Institute (MBI), The Ohio State University, Columbus, Ohio.
Information: phone: 614-292-3648; <http://mbi.osu.edu/>.
- * 13-14 **Computational Electromagnetism-Hewlett-Packard Day**, Isaac Newton Institute for Mathematical Sciences, Cambridge, England.
Information: <http://www.newton.cam.ac.uk/programmes/CPD/>. Isaac Newton Institute for Mathematical Sciences, 20 Clarkson Road, Cambridge, CB3 0EH or CB3 0EH; tel: +44 (0) 1223 335999; fax: +44 (0) 1223 330508; email: info@newton.cam.ac.uk.
- * 17-28 **Area Concentration on Functional Analysis of Nervous Systems: From Tasks to Implementation**, Mathematical Biosciences Institute (MBI), The Ohio State University, Columbus, Ohio.
Information: phone: 614-292-3648; <http://mbi.osu.edu/>.

March 2003

- * 3-7 **Computational Aspects of algebraic curves, and cryptography**, Gainesville, Florida.
Organizers: G. Frey and H. Voelklein.
Topic: Interactions between modern computational tools questions and the theory of algebraic curves.
Information and Support: Graduate students and recent PhD's will be given priority for support for participation in the mini-courses. We especially encourage women and minorities to apply. The workshop is supported by NSA, NSF and the University of Florida. For further information and for application for financial support contact: email: helmut@math.ufl.edu or visit <http://www.math.ufl.edu/~helmut/compalg.html>.

www.math.ufl.edu/~helmut/compalg.html.

- * 3-7 **Mini-courses in cryptography**, Gainesville, Florida.
Organizers: G. Frey and H. Voelklein.
Topics: We plan to offer 4 mini-courses introducing mathematical tools of increasing sophistication. The first course gives a basic introduction to public-key cryptography, describing the cryptographic encryption schemes currently in use. It is accessible to advanced undergraduates. The second course shows how elliptic curve cryptography generalizes to hyperelliptic curve cryptography, and discusses the possible advantages. This requires tools from the classical theory of algebraic curves.
Information and Support: Graduate students and recent PhD's will be given priority for financial support. The workshop is supported by NSA, NSF and the University of Florida. Deadline for applications: January 31, 2003 For further information and for applications contact email: helmut@math.ufl.edu or visit <http://www.math.ufl.edu/~helmut/compalg1.html>.
- * 10-14 **International Conference on High Performance Scientific Computing**, Hanoi, Vietnam.
Information: email: scicom@thevinh.ncst.ac.vn.
- * 17-19 **DIMACS Workshop on Network Information Theory**, DIMACS Center, Rutgers University, Piscataway, New Jersey.
Description: The DIMACS Workshop on Network Information Theory will focus on the area of efficient and reliable communication in multi-terminal settings. This field has recently attracted renewed attention because of key developments that have spawned a rich set of challenging research problems. Applications such as wireless cellular and LAN data services, ad hoc networks and sensor networks

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 the AMS website on the World Wide Web. To access the AMS website, use the URL: <http://www.ams.org/>.

should benefit from these developments. The aim of the workshop is to achieve a better understanding of the underlying information theoretic problems and their solutions.

The workshop topics will include, but are not limited to, the following areas: large communication networks analysis, design, asymptotics; multi-terminal capacity/coding relays, multi-access, random access; multi-terminal source coding distributed sources, multiple descriptions; network coding efficiency and reliability. The workshop will consist of 45-minute invited presentations and ample time for discussion.

Sponsor: DIMACS Center.

Organizers/Contacts: P. Gupta, Bell Laboratories, pgupta@research.bell-labs.com; G. Kramer, Bell Laboratories, gkr@research.bell-labs.com; A. J. van Wijngaarden, Bell Laboratories, alw@research.bell-labs.com.

Local Arrangements: J. Herold, DIMACS Center, jessicah@dimacs.rutgers.edu, 732-445-4581.

Deadlines: Talks are by invitation only. Preregistration deadline is March 10, 2003.

Information: See <http://dimacs.rutgers.edu/Workshops/NetworkInformation/>.

* 21-23 **Fourth International Conference on Intelligent Data Engineering and Automated Learning (IDEAL'03)**, Hong Kong Convention and Exhibition Centre, Hong Kong, P.R. China.

Information: <http://www.comp.hkbu.edu.hk/IDEAL2003/>.

* 24-26 **The 2nd International Conference "Functional spaces. Differential Operators. Problems of Mathematical Education"**, Russian People Friendship University (RPFU), Moscow, Russia.

Program: The conference is dedicated to the 80th anniversary of Professor Lev Dmitrievich Kudryavzev, a corresponding member of the Russian Academy of Sciences. The following sessions are scheduled during the conference: Session 1. Theory of functions and functional spaces, A. V. Arutyunov and M. L. Goldman (co-chairs). Session 2. Differential operators and applications, G. Dyakonov and A. L. Skubachevsky (chairs). Session 3. Problems of mathematics education, V. I. Mikheev and N. Kh. Rozov (co-chairs). Session 4. Education and ethics, Yu. M. Kolyagin and V. A. Gusev (co-chairs). Session 5. History of mathematics and science, V. M. Tikhomirov and S. S. Demidov.

Languages: Russian and English.

Deadline: For submitting completed registration forms and abstracts is February 1, 2003.

Information: Mailing address of the Organizing Committee: 117198, Russia, Moscow, Miklucho-Maklay str., 6, room 240a; email: cs@mail.rudn.rssi.ru.

* 31-April 2 **Tutorial on Olfaction, Audition, and the Sensory Motor System**, Mathematical Biosciences Institute (MBI), The Ohio State University, Columbus, Ohio.

Information: phone: (614) 292-3648; <http://mbi.osu.edu/>.

April 2003

* 2-4 **DIMACS Workshop on Medical Applications in Computational Geometry**, DIMACS Center, Rutgers University, Piscataway, New Jersey.

Short Description: Computer technology plays an increasingly important role in modern medicine and life sciences. Many medical problems are of a strong geometric nature and may benefit from computational geometry techniques. The DIMACS Workshop on Computational Geometry and Medical Applications aims to provide a forum for researchers working in computational geometry, medicine, and other related areas to get together and exchange ideas and to promote cross-fertilization and collaborations among these areas. The theme of the workshop is on the exploration of the applicability of computational geometry to medical problems and the new challenges posed by the current medical research and practice to the geometric computing study. Examples of topics

include surgical simulation and planning, geometric representation and modeling of medical objects and human body tissue structures, geometric problems in medical imaging, computational anatomy, registration and matching of medical objects, etc. The workshop will consist of both invited and solicited contributions.

Sponsor: DIMACS Center.

Organizers and Contacts: D. Chen, Univ. of Notre Dame, dchen@cse.nd.edu; J.-C. Latombe, Stanford Univ., latombe@cs.stanford.edu.

Local Arrangements: J. Herold, DIMACS Center, jessicah@dimacs.rutgers.edu, 732-445-4581.

Deadline: Abstract submissions due February 1, 2003. See Web pages for details.

Information: See <http://dimacs.rutgers.edu/Workshops/Medicalapps/>.

* 3-5 **Workshop on Olfaction**, Mathematical Biosciences Institute (MBI), The Ohio State University, Columbus, Ohio.

Information: phone: 614-292-3648; <http://mbi.osu.edu/>.

* 7-11 **EuroConference—Multiscale Modelling, Multiresolution and Adaptivity**, Isaac Newton Institute for Mathematical Sciences, Cambridge, England.

Information: <http://www.newton.cam.ac.uk/programmes/CPD/>. Isaac Newton Institute for Mathematical Sciences, 20 Clarkson Road, Cambridge, CB3 0EH or CB3 0EH; tel: +44 (0) 1223 335999; fax: +44 (0) 1223 330508; email: info@newton.cam.ac.uk.

* 14-17 **Numerical Methods for Free Boundary Problems**, Isaac Newton Institute for Mathematical Sciences, Cambridge, England.

Information: <http://www.newton.cam.ac.uk/programmes/CPD/>. Isaac Newton Institute for Mathematical Sciences, 20 Clarkson Road, Cambridge, CB3 0EH or CB3 0EH; tel: +44 (0) 1223 335999; fax: +44 (0) 1223 330508; email: info@newton.cam.ac.uk.

* 28-June 20 **Bimestre Intensivo: Microlocal Analysis and Related Subjects**, University of Torino, and Politecnico of Torino, Italy.

Sponsor: INDAM (Istituto Nazionale di Alta Matematica), Italy.

Aim: The scope of "Bimetre Intensivo" is to organize an intensive period of work focused on the four topics listed below. For each of these topics short courses are planned to introduce the problems of research. More specialized talks concerning new results will also be held. In order to encourage the participation of young mathematicians, some grants to support local expenses are available.

Topics: Perturbative methods in nonlinear analysis, Pseudo-differential methods for evolution equations, Quantization and harmonic numerical analysis, Elliptic and hypoelliptic equations.

Scientific Committee: P. Boggiatto, I. Fujita, T. Gramchev, G. Monegato, A. Parmeggiani, J. Pejsachowicz, L. Rodino, A. Tabacco.

Invited Speakers: H. Chen, W. Craig, R. De La Llave, H.-G. Feichtinger, C. Fefferman, D. Gourdin, T. Gramchev, K.-H. Gröchenig, S. Jiang, K. Kajitani, M. Oberguggenberger, A. Parmeggiani, P. Popivanov, P. Rabier, M. Reissig, O. Rozanova, E. Schrohe, B.-W. Schulze, J. Seiler, C. Stuart, D. Tartakoff, J. Toft, G. Weiss, M.-W. Wong, K. Yagdjan, M. Yoshino.

Information: email: indam@dm.unito.it or <http://www.dm.unito.it/convegniseminari/indam/bimestri.htm>.

May 2003

* 5-9 **Théorie des Nombres et Applications**, Université Hassan II of Casablanca and Université de Marrakech, Morocco.

Aim: The meeting plans to bring together number theorists in all areas of number theory and to let them interact with (in particular) Moroccan mathematicians, to initiate new collaborations, and to develop new interests in applications of number theory (like cryptography).

Organizers: S. El Morchid (U. Hassan II Ain Chok, Casablanca) and C. Levesque (CICMA, Univ. Laval, Québec, Canada).

Plenary Speakers: H. Darmon (CICMA, McGill Univ.), R. Kucera (Univ. Brno), C. Greither (Univ. der Bundeswher München), K. Miyake (Tokyo Metropolitan Univ.), M. Waldschmidt (Univ. Paris VI).
Call for Papers: Mathematicians are invited to attend this conference. Those interested in giving a lecture are invited to send an abstract of their planned lectures to one of the organizers, who will send an official invitation upon acceptance of the lecture project. Some proceedings are planned.

Information: email: elmorchid@yahoo.fr or cl@mat.ulaval.ca.

* 5–9 **Workshop on the Auditory System**, Mathematical Biosciences Institute (MBI), The Ohio State University, Columbus, Ohio.

Information: phone: 614-292-3648; <http://mbi.osu.edu/>.

* 15–16 **Partial Differential Equations and Computational Material Science and Solid Mechanics**, Isaac Newton Institute for Mathematical Sciences, Cambridge, England.

Information: <http://www.newton.cam.ac.uk/programmes/CPD/>. Isaac Newton Institute for Mathematical Sciences, 20 Clarkson Road, Cambridge, CB3 0EH or CB3 0EH; tel: +44 (0) 1223 335999; fax: +44 (0) 1223 330508; email: info@newton.cam.ac.uk.

* 19–24 **The V International Conference “Algebra and Number Theory: Modern Problems and Applications”**, Tula State Pedagogical University, Tula, Russia.

Topics: 1. Rings and modules; 2. Groups and algebraic systems; 3. Commutative algebra and algebraic geometry; 4. Computer science in algebra and number theory; 5. The analytic number theory; 6. Transcendent numbers and diophant approximations; 7. Discrete mathematics, geometry of numbers, and cryptography.

Speakers: The list of invited speakers includes: V. Artamonov, G. Arkhipov, V. Bezverkhniy, V. Chubarikov, N. Dobrovolskij, M. Garaev, A. Giambruno, V. Iskovskikh, A. Karatsuba, S. Konjagin, V. Kurakin, V. Latyshev, A. Laurincikas (Lithuania), A. V. Mikhalev, N. Moschevitin, Yu. Nesterenko, A. Nechaev, A. Ol’shanskiy, S. Pikhtilov, I. Sakhaev, I. Shestakov, A. Schinzel (Poland), U. Umirbaev, M. Zaicev, V. Zakharov, A. Zubkov.

Deadlines: The deadline for submission of abstracts is February 1, 2003. The entrance fee will be \$100. Hotel rate is about \$10-20 a day; guest house about \$4 per day. You have to send a copy of a passport two months before the conference to receive a visa.

Information: Fax: 7-0872-354060; email: dobrovol@tspu.tula.ru, pikhtilov@tula.net.

* 23–26 **International Conference on Numerical Analysis & Computational Mathematics (NACoM-2003)**, Anglia Polytechnic University (APU), Cambridge, United Kingdom.

Description: The multidisciplinary field of numerical analysis and computational mathematics is long suffering from major delays in the publication of original papers. In most cases it takes at least 2 to 3 years for a paper to be accepted, and the situation seems to get worse by the year. NACoM-2003 will address this serious problem as follows: (1) The NACoM conference will serve as the medium for the official launch of a new Wiley journal, *Applied Numerical Analysis and Computational Mathematics* (ANACM) (editor-in-chief, T. E. Simos). The journal will provide colleagues with a new, really efficient medium for refereed publications. Generally, in ANACM it is expected that the time between a paper submission and its acceptance for publication will be around 6 months. ANACM will be registered with the Isi Citation Index without delay. (2) The NACoM-2003 conference is expected to attract very high-quality papers, and a refereed selection of them will be published in two special issues of the new journal. (3) This will be an excellent opportunity for colleagues from the international numerical and computational mathematics community to meet in person with members of the ANACM editorial board. Furthermore, high-ranking representatives from Wiley-Europe will be present and will address the participants.

General Chair & Organizer: G. Psihoyios, Anglia Pol. Univ., Cambridge, UK.

Plenary Speakers (to be finalized): J. R. Cash (Imperial College, London, UK), A. Cuyt (Univ. of Antwerp, Belgium), M. Hochbruck (Univ. of Duesseldorf, Germany), W. F. Mitchell (Nat. Inst. of Standards & Technology, USA), G. Vanden Berghe (Univ. of Gent, Belgium), G. A. Watson (Univ. of Dundee, UK).

Call for Papers & Expression of Interest: Submission of original papers is invited for the NACoM-2003 conference. Please initially submit an abstract of up to four A4 pages to the general chair (g.y.psihoyios@apu.ac.uk) by February 28, 2003. Please send a standard LaTeX article style abstract without page numbers. Send the LaTeX and the PostScript files. If you do not plan to present a paper but are seriously thinking of participating, please send a short email to indicate your intention to participate. This will greatly assist in making appropriate plans according to the expected number of participants.

Deadlines: Submission of abstract (on or before February 28, 2003). Abstracts refereed selection (by March 20, 2003). Submission of full-length papers (to be announced).

Information: Further information with regard to parallel-sessions/mini-symposia, poster sessions, deadlines, etc., will be announced in due course and through the website <http://www.apu.ac.uk/appsci/math/NACoM-2003/>.

* 24–30 **Conference in Number Theory in Honour of Professor H. C. Williams**, The Banff Center, Banff, Alberta, Canada.

Information: See <http://www.fields.utoronto.ca/programs/scientific/02-03/numtheory/>.

* 30–June 1 **Annual Meeting of the Canadian Society for History and Philosophy of Mathematics (CSHPM)**, Dalhousie University, Halifax, Nova Scotia, Canada.

Description: The CSHPM is dedicated to scholarship in the history and philosophy of mathematics and in bringing that scholarship to bear on teaching and research in mathematics. It is associated with the journals *Historia Mathematica* and *Philosophia Mathematica*. The meeting includes a Special Session (invited speaker to be announced) on Maritime Mathematics, broadly understood. Talks, in French or English, are solicited both for Contributed Paper Sessions and the Special Session.

Call for Papers: Please submit title and abstract by February 15, 2003.

Special Session: tom.Archibald@acadiau.ca.

Contributed Paper Sessions: baltus@oswego.edu.

Registration and Lodging: Through the Congress of the Social Sciences and Humanities: <http://www.hssfc.ca/>.

Information: <http://www.cshpm.org/>.

June 2003

* 9–13 **Workshop on the Sensory Motor System**, Mathematical Biosciences Institute (MBI), The Ohio State University, Columbus, Ohio.

Information: phone: 614-292-3648; <http://mbi.osu.edu/>.

* 10–14 **Fifth Dublin Differential Equations Conference**, Dublin City University, Dublin, Ireland.

Information: See <http://www.deconf.dcu.ie/>.

* 10–14 **Groups and Group Rings X**, Wisla, Poland.

Description: The conference is intended to extend knowledge of algebraists (not only experts) on groups and group rings and to stimulate research contacts of mathematicians in East, West, and Central Europe. In addition to one-hour lectures given by main speakers, we plan afternoon seminars with short talks (15–30 min.). The abstract (1–2 pages in LaTeX) should be sent by email or regular mail before April 30. Ph.D. students and postgraduate students interested in groups and rings are warmly invited to participate in the conference.

Organizing Committee: J. Galuszka, Gliwice; W. Holubowski, Gliwice; J. Krempa, Warsaw; O. Macedonska, Gliwice; V. Sushchanski,

Gliwice.

Program Committee: R. Bryant, Manchester; O. Kegel, Freiburg; J. Krempa, Warsaw; O. Macedonska, Gliwice; V. Sushchanski, Gliwice.
Main Speakers (preliminary): C. Baginski, Bialystok, Poland; R. M. Bryant, Manchester, UK; F. de Giovanni, Naples, Italy; E. Jespers, Brussels, Belgium; O. H. Kegel, Freiburg, Germany; V. Mikhaelian, Yerevan, Armenia; L. Newelski, Wroclaw, Poland; G. Rosenberger, Dortmund, Germany; R. Schmidt, Kiel, Germany; N. Vavilov, St. Petersburg, Russia; J. S. Wilson, Birmingham, UK; A. Zuk, Lyon, France.

Deadlines: Registration form: before April 1, 2003. Abstract: before April 30, 2003.

Information: <http://www.polsl.gliwice.pl/~groups/>, groups@zeus.polsl.gliwice.pl.

* 17-24 **Furstenfest—Conference on Probability in Mathematics in Honor of H. Furstenberg**, Jerusalem and Beer Sheva, Israel.

Short Description: Most lectures will be delivered by invited speakers who will each give a survey of one of the many fields that Furstenberg has made an impact on.

Organizers: B. Weiss (chairman), D. Berend, E. Glasner, M. Jarden, M. Lin, A. Lubotzky, E. Merzbach.

Contact: D. Berend, email: berend@math.bgu.ac.il.

Information: <http://www.cs.bgu.ac.il/~berend/hillel-conference/index.html>.

* 21-24 **Mathematics of Finite Elements and Applications: Satellite conference at Brunel University**, Isaac Newton Institute for Mathematical Sciences, Cambridge, England.

Information: <http://www.newton.cam.ac.uk/programmes/CPD/>. Isaac Newton Institute for Mathematical Sciences, 20 Clarkson Road, Cambridge, CB3 0EH or CB3 0EH; tel: +44 (0) 1223 335999; fax: +44 (0) 1223 330508; email: info@newton.cam.ac.uk.

* 23-29 **Symmetry in Nonlinear Mathematical Physics**, Institute of Mathematics, Kiev, Ukraine.

Conference Topics: Classical, Nonclassical, Conditional, Approximate and Other Symmetries of Equations of Mathematical Physics; Symmetry in Quantum Mechanics, Quantum Field Theory, Gravity, Fluid Mechanics, Mathematical Biology, Mathematical Economics; Symbolic Computations in Symmetry Analysis; Supersymmetry and Its Generalizations; Representation Theory; q-Algebras and Quantum Groups; Dynamical Systems, Solitons and Integrability; Superintegrability and Separation of Variables.

Information: A. Nikitin, Inst. of Math., Nat. Acad. of Sci. of Ukraine, 3 Tereshchenkivska Street, Kyiv 4, 01601 Ukraine; email: appmath@imath.kiev.ua; fax: +38 044 235 20 10; phone: +38 044 234 63 22 (office), +38 044 250 08 96 (home). Further information is available on our website: <http://www.imath.kiev.ua/~appmath/conf.html> or mirror <http://www.bgu.ac.il/~alexzh/appmath/conf.html>.

July 2003

* 1-5 **EuroConference VBAC 2003: Dedicated to Andrei Tyurin**, Porto, Portugal.

Topics: The meeting will cover a range of topics in the area of vector bundles on algebraic curves with special emphasis on moduli spaces and topology.

Funding: Will be available for accommodation, registration fee and possibly travel expenses for young researchers (up to 35) from the EU and associated states (at the moment Bulgaria, Cyprus, Czech Republic, Estonia, Hungary, Latvia, Lithuania, Poland, Romania, Slovakia, Slovenia, Iceland, Liechtenstein, Norway and Israel), with priority given to those from less favoured regions and to women researchers. Limited support may be available for young researchers from other countries.

Deadlines: If you wish to give a talk and/or apply for financial support, please register before March 1, 2003. Otherwise, please register before April 15, 2003 (after this date we may not be able to guarantee availability of accommodation).

Information and Registration: <http://www.math.ist.utl.pt/~cfloren/VBAC2003.html>.

* 7-18 **Discrete Dynamical Systems and Their Applications to Population Dynamics**, University of Wyoming, Laramie, Wyoming.

Program: The course will cover the basic theory of semidynamical systems as defined by difference equations (or maps) and their application to population dynamics and ecology. Main topics will be stability and bifurcation theory. A significant part of the course will be devoted to case studies in which difference equations have played a fundamental role in recent experimental projects designed to study nonlinear phenomena in population dynamics. Included will be a detailed discussion of the experiment that provided the first demonstration of chaos in a real biological population.

Speakers: J. M. Cushing, Univ. of Arizona; S. Henson, Andrews Univ.

Sponsors: Rocky Mountain Mathematics Consortium and the Univ. of Wyoming.

Deadline: For applications/abstracts of talks: April 1, 2003.

Information: B. L. Shader, Math. Dept., Univ. of Wyoming, Laramie, WY 82071; email: bshader@uwyo.edu; <http://math.uwyo.edu/>.

* 21-25 **Infinite Dimensional Algebras and Quantum Integrable Systems**, Faro, Portugal.

Description: This is a satellite workshop of the XIV International Congress on Mathematical Physics, Lisbon, July 28-August 2, 2003, and is intended to focus on recent developments in infinite dimensional algebras and their applications to quantum integrable systems. The workshop will be held at the University of Algarve, Faro, southern Portugal. There will be invited lectures and contributed talks from the participants.

Invited Speakers (* to be confirmed): P. Deift, N. Reshetikhin, E. Frenkel*, M. Semenov-Tian-Shansky, A. Fring, F. Smirnov, V. Kac*, L. Takhtajan, D. Lebedev, V. Tarasov, J. M. Maillet, V. Tolstoy.

Organizing Committee: C. Burdik, P. P. Kulish, N. Manojlovic, H. Samtleben, A. Stolin, J. C. Zambrini.

Information: <http://www.ualg.pt/cma/idaquis/announcement.html>.

* 23-24 **Workshop on Categorification and Higher-Order Geometry**, Instituto Superior Tecnico, Lisbon, Portugal.

Program: There will be invited talks by main speakers as well as contributed talks.

Main Speakers: The confirmed main speakers to date are: J. Baez, Univ. California at Riverside (on categorification of Yang-Mills theory); L. Breen (Univ. Paris 13) (on non-Abelian gerbes); Louis Crane, Kansas State Univ. (to be announced); Mikhail Khovanov, Univ. California at Davis (on categorification of the Jones polynomial); Stephan Stolz, Univ. Notre Dame (on elliptic objects).

Organizers: M. Mackaay, mmackaay@ualg.pt; R. Picken, rpicken@math.ist.utl.pt.

Deadlines: People interested in giving a contributed talk should contact the organisers as soon as possible to register their interest and should send a title and abstract before January 31, 2003. The list of accepted talks will be announced before April 1.

Information: This workshop is a satellite event of the International Conference on Mathematical Physics, July 28th-August 2, 2003, Lisbon, Portugal (<http://icmp2003.net/>). Due to the limitations of the budget, it is unlikely that financial support will be available except for the main speakers and perhaps some local students. Further information will be provided on the conference homepage: <http://www.math.ist.utl.pt/~rpicken/CHOG2003>.

* 23-26 **The Joint Meeting of ISAMA 2003 and the 6th Annual BRIDGES Conference**, University of Granada, Spain.

Tour: One-day special conference tour "The Beauty and Mathematics of the Alhambra" on July 26, 2003.

Conference Topics: Mathematical Visualization, Mathematics and Music, Computer Generated Art, Symmetry Structures, Origami,

Mathematics and Architecture, Tessellations and Tilings, Aesthetical Connections between Mathematics and Humanities, Geometric Art in Two and Three Dimensions, Geometries in Quilting.

Description: The conference will feature presentations of regular, plenary, and short papers. These will all be selected from the pool of submitted papers. Regular and plenary presentations require a paper of about 8 pages; short presentations require a 1–2 page extended abstract. The regular presentations will be given about a 30-minute time slot. The best papers or the ones that promise to appeal to the largest part of the audience will be selected for plenary presentations in a 45-minute time slot. Short presentations will be given a 20-minute slot.

The conference also plans to offer a few hands-on workshops as in its past conferences, as well as a visit to the Alhambra, and possibly yet another tour of nearby towns or villages.

The conference plans to publish refereed proceedings, to be distributed at the conference. Thus there is a tight and firm schedule.

Deadlines: Deadline for paper submissions for review: February 1, 2003. Submit five copies. Notification of acceptance of paper: April 1, 2003. Deadline for preparation of final camera-ready manuscript: May 1, 2003. Send two copies. Proceedings: Papers published in the proceedings must follow the specified format and the guidelines for the preparation of the camera-ready manuscript. These instructions can be found at: <http://www.sckans.edu/~bridges/>.

Organizers: Registration and Reservations: J. Barrallo, Univ. of the Basque Country ETS Arquitectura, Plaza Onati, 20018 San Sebastian, Spain; email: mapbacaj@sa.ehu.es. Logistics, Scheduling and Exhibit: N. Friedman, Dept. of Math. and Stat., Univ. at Albany, State Univ. of New York, Albany, NY 12222; email: artmath@math.albany.edu. Space Management: J. A. Maldonado and J. Martinez, Univ. of Granada, Spain. Conference Proceedings: R. Sarhangi, Math. Dept., Towson Univ., 8000 York Road, Towson, MD 21252; (410) 704-4922; email: rsarhangi@towson.edu. Papers & Presentations: C. Séquin, EECS, Comput. Sci. Division, Soda Hall #1776, Univ. of California, Berkeley, CA 94720-1776; email: sequin@cs.berkeley.edu.

* 24–26 **First Joint ISBA-IMS Meeting**, Intercontinental Hotel, Isla Verde, San Juan, Puerto Rico.

Information: Please visit <http://www.cnet.clu.edu/math/IMS-ISBA-PR2003/>.

* 29–August 1 **Tenth Workshop on Logic, Language, Information and Computation (WoLLIC'2003)**, Ouro Preto, Minas Gerais, Brazil.

Sponsor: An ASL-sponsored meeting.

Description: This is the tenth in a series of workshops intended to foster interdisciplinary research in pure and applied logic.

Speakers (tentative): E. Allender, D. Miller, H. Rott, H. Schwichtenberg, and S. Weinstein.

Organizers: A. Arratia, A. Carbone, M. Coniglio, G. Dowek, A. Fleury, D. Kozen, M. Marx, L. C. Pereira, A. C. da Rocha Costa, D. Spreen, J. Vaananen, and R. Wassermann. The co-chairs of the Organizing Committee are E. Pimentel and R. de Queiroz.

Deadlines: The deadline for submission of papers is March 1, 2003.

Financial Aid: Graduate students and recent Ph.D.'s in logic may apply for modest grants to attend the workshop; the deadline for applications is March 1, 2003.

Information: <http://www.cin.ufpe.br/~wollic/wollic2003/>.

* 29–August 2 **IMS New Researchers Conference**, University of California, Davis, California.

Information: <http://www-rohan.sdsu.edu/~ralevine/NRC/>.

August 2003

* 18–22 **ENUMATH 2003: The European Conference on Numerical Mathematics and Advanced Applications**, Prague, Czech Republic.

Organizer: Charles Univ. Prague, Faculty of Math. and Physics (M. Feistauer); Inst. of Chem. Tech., Dept. of Math. (A. Klíř).

Local Organizing Committee: V. Dolejší, M. Feistauer, J. Felcman, P. Knobloch, K. Najzar, E. Plandorová, J. Segethová.

Scientific Committee: O. Axelsson (Netherlands), C. Bernardi (France), C. Canuto (Italy), M. Griebel (Germany), R. Hoppe (Germany), G. Kobelkov (Russia), M. Křížek (Czech Republic), P. Neittaanmäki (Finland), O. Pironneau (France), A. Quarteroni (Italy/Switzerland), C. Schwab (Switzerland), E. Süli (Great Britain), W. Wendland (Germany).

Program Committee: F. Brezzi (Italy), M. Feistauer (Czech Republic), R. Glowinski (France/USA), R. Jeltsch (Switzerland), Yu. Kuznetsov (Russia/USA), J. Periaux (France), R. Rannacher (Germany).

Invited Plenary Speakers: A. Bermudez (Spain), R. Blaheta (Czech Republic), T. Gallouët (France), J. Haslinger (Czech Republic), R. Hiptmair (Germany), T. J. R. Hughes (USA), J. Rappaz (Switzerland), A. Russo (Italy), V. Schultz (Germany), A. Tveito (Norway).

Call for Papers: The program of the conference will include invited 50-minute lectures and 25-minute communications. A limited number of minisymposia (2 hours or, exceptionally, 4 hours) will be organized. Abstracts of communications and proposals of minisymposia should be sent to the contact address by February 28, 2003.

Information: email: enumath@karlin.mff.cuni.cz or <http://www.karlin.mff.cuni.cz/~enumath/>.

* 28–30 **International Conference on Computability and Complexity in Analysis**, University of Cincinnati, Cincinnati, Ohio.

Description: The conference is concerned with the theory of computability and complexity over real-valued data.

Sponsor: An ASL-sponsored meeting.

Invited Speakers: D. Bridges, R. Downey, P. Hertling, I. Kalantari, V. Kreinovich, B. Kushner, J. Lutz, J. Tucker, and K. Weihrauch.

Organizers: The chair of the scientific program committee is K. Weihrauch, and the chair of the local organizing committee is N. Zhong.

Deadlines: The deadline for submission of papers is June 2, 2003. Limited funds are available to conference participants, in particular to young researchers and Ph.D. students.

Information: <http://www.informatik.fernuni-hagen.de/cca/cca2003/>.

September 2003

* 12–16 **International Conference of Computational Methods in Sciences and Engineering (ICCMSE 2003)**, Kastoria, Greece.

Description: In the past decades many significant insights have been made in several areas of computational methods in sciences and engineering. New problems and methodologies have appeared. There is permanently a need in these fields for the advancement of information exchange. The aim of the conference is to bring together computational scientists and engineers from several disciplines in order to share methods, methodologies, and ideas.

Topics: The topics to be covered include (but are not limited to): Computational mathematics, computational physics, computational chemistry, computational engineering, computational mechanics, computational finance, computational medicine, computational biology, computational economics, high-performance computing, mathematical methods in sciences and engineering, industrial mathematics, etc.

Organizers: General Chair: Z. Kalogiratou, Tech. Educ. Inst. of W. Macedonia, Kastoria, Greece. Invited Chair: T. E. Simos, Univ. of Peloponnese, Tripolis, Greece.

Contact Information: Secretary ICCMSE, email: iccmse@uop.gr; 26 Menelaou Street, Amfitea Paleon Faliron, GR-175 64, Athens, Greece; fax: +30210 94 20 091.

Information: <http://www.uop.gr/~iccmse/>, <http://kastoria.teikoz.gr/~iccmse/>.

*30–October 7 **Mathematics in Armenia—Advances and Perspectives**, Institute of Mathematics of National Academy of Sciences of Armenia, Yerevan, Armenia.

Main Topics: Real and complex analysis, Probability and mathematical statistics, Differential and integral equations, Algebra and geometry.

Organizing Committee: G. Gevorkian, M. Ginovian, A. Hakobyan, B. Nahapetian, A. Sahakia.

Speakers: S. Adian (Russia), D. Drasin (USA), N. Nikolskii (France), S. Aivazian (Russia), P. Gauthier (Canada), S. Nikolskii (Russia), R. Ambartzumyan (Armenia), L. Gogoladze (Georgia), A. Olevskii (Israel), N. Arakelian (Armenia), A. Gonchar (Russia), K. Oskolkov (USA), O. Besov (Russia), I. Ibragimov (Russia), H. Shahgholian (Sweden), J. Brennan (USA), B. Kashin (Russia), V. Temlyakov (USA), X. Cabre (USA), W. Luh (Germany), P. Ul'yanov (Russia), L. Caffarelli (USA), V. Mikhailov (Russia), N. Uraltseva (Russia), Z. Ciesielski (Poland), R. Minlos (Russia).

Deadline: for Application: April 1, 2003.

Information: email: conf@instmath.sci.am; <http://math.sci.am/conf.html>.

October 2003

*13–17 2003 **IEEE/WIC International Conference on Web Intelligence (WI 2003)**, Tianlun Dynasty Hotel, Beijing, China.

Description: Web Intelligence (WI) is a new direction for scientific research and development that explores the fundamental roles as well as practical impacts of Artificial Intelligence (AI) and advanced Information Technology (IT) on the next generation of Web-empowered products, systems, services, and activities. The 2003 IEEE/WIC International Conference on Web Intelligence (WI 2003) is held jointly with the 2003 IEEE/WIC International Conference on Intelligent Agent Technology (IAT 2003, <http://www.comp.hkbu.edu.hk/IAT03/>). The IEEE/WIC 2003 joint conferences are sponsored and organized by IEEE Computer Society Technical Committee on Computational Intelligence (TCCI) (<http://www.cs.uvm.edu/~7Exwu/tfvi/index.shtml>) and by Web Intelligence Consortium (WIC) (<http://wi-consortium.org/>).

Topics: Intelligent Web-Based Business and Grid Computing, Knowledge Networks and Management, Ubiquitous Computing and Social Intelligence, Intelligent Human-Web Interaction, Web Information Management, Web Information Retrieval, Web Agents, Web Mining and Farming, Emerging Web Technology.

Information: <http://www.comp.hkbu.edu.hk/WI03/>.

*28–31 **Fourteenth International Symposium on Methodologies for Intelligent Systems**, Maebashi TERRSA, Maebashi City, Japan.

Description: This symposium is intended to attract individuals who are actively engaged both in theoretical and practical aspects of intelligent systems. The goal is to provide a platform for a useful exchange between theoreticians and practitioners, and to foster the cross-fertilization of ideas in the following areas: active media human-computer interaction, autonomic and evolutionary computation, intelligent agent technology, intelligent information retrieval, intelligent information systems, knowledge representation and integration, knowledge discovery and data mining, logic for artificial intelligence, soft computing, web intelligence. In addition, we solicit papers dealing with applications of intelligent systems in complex/novel domains, e.g. human genome, global change, manufacturing, health care, etc. Authors are invited to submit their manuscript in the LNCS/LNAI style (maximum 10 pages). All paper submissions will be handled electronically. Detailed instructions are provided on the conference homepage at <http://www.wi-lab.com/ismis03/>.

Deadlines: Submission of Papers: March 10, 2003. Acceptance Notification: May 15, 2003. Final Paper: June 30, 2003.

Call for Papers: ISMIS 2003.

Information: For additional information contact: Z. W. Ras (ISMIS 2003), Univ. of North Carolina, Dept. of Computer Science, Charlotte, NC 28226; Fax: 704-547-3516; email: ras@uncc.edu. N. Zhong (ISMIS

2003), Department of Information Engineering, Maebashi Institute of Technology, 460-1, Kamisadori-Cho, Maebashi-City, 371-0816, Japan; telephone & fax: +81-27-265-7366; email: zhong@maebashi-it.ac.jp.

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 2004

*24–28 **European Congress on Computational Methods in Applied Sciences and Engineering**, Jyväskylä, Finland.

Scientific Programme: The scientific programme of the Congress consists of invited keynote lectures by leading experts, mini-symposiums, special technological sessions, contributed papers, and poster presentations. Further details will be given in the Third Announcement (May 2003).

Congress Topics: Computational fluid mechanics, Computational solid and structural mechanics, Computational acoustics, Computational electromagnetics, Computational chemistry, Computational mathematics and numerical methods, Inverse problems, Optimization and control, Computational methods in life sciences, Industrial applications.

Call for Papers: Prospective authors are kindly invited to visit the Congress web site in order to submit their two-page abstracts on topics related to the themes of the Congress by November 15, 2003.

Further Information: The congress website <http://www.mit.jyu.fi/eccomas2004/> or ECCOMAS Chairman, Prof. Pekka Neittaanmäki, Univ. of Jyväskylä, Dept. of Math. Inform. Tech., P.O. Box 35 FIN-40014 Univ. of Jyväskylä, Finland; fax: +358 14 260 2771; email: pn@mit.jyu.fi; ECCOMAS 2004 Congress Secretariat, Ms. Pirjo-Leena Pitkänen, Jyväskylä Congresses, P.O. Box 212 FIN-40101, Jyväskylä, Finland; fax +358 14 339 8159; email: pirjo-leena.pitkanen@jyvaskyla.fi.