
Mathematics Calendar

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

January 2006

- * **5–15 International Workshop on Teichmüller Theory and Moduli Problems**, Harish-Chandra Research Institute (HRI), Allahabad, India.

Description: The principal aim of the workshop is to bring closer two mathematical traditions, namely the Ahlfors-Bers school of the complex analytic approach to Teichmüller theory, and the algebro-geometric tradition of the moduli of vector bundles that has flourished in India. Another aim of the workshop is to introduce young researchers to some fundamental techniques and recent developments in the fields. The Workshop is funded by National Science Foundation (USA), Department of Science and Technology (India), Infosys foundations.

Organizers: Ravi Kulkarni (HRI, India), Sudeb Mitra (CUNY, USA), Indranil Biswas (TIFR, India).

Information: <http://www.mri.ernet.in/~teich>. To attend the Workshop contact email: teich@mri.ernet.in.

February 2006

- * **3–5 CUNY Geometric Analysis 2006: The Laplace and Length Spectra**, CUNY Graduate Center, New York, New York.

Confirmed Speakers: C. Croke, Univ. of Pennsylvania, Carolyn Gordon, Dartmouth College, R. Gornet, Univ. of Texas at Arlington, N. Hingston, The College of New Jersey, M. Kotani, Tohoku Univ., A. Nabutovsky, Univ. Toronto and Penn State, I. Polterovich, Univ. Montreal, R. Rotman, Penn State and Univ. Toronto, P. Sarnak, Princeton Univ., T. Sunada, Meiji Univ., Z. I. Szabo, CUNY Grad. Center and Lehman College, A. Vasy, Stanford Univ. and MIT.

Organizers: Y. Petridis, C. Sormani, J. Dodziuk.

Registration: Free for students, \$20 for others who register before

Jan. 15 and \$30 onsite.

Information: <http://comet.lehman.cuny.edu/sormani/conf/2006/geom06.html>.

- * **26–March 4 The 2006 Talbot workshop: Automorphisms of manifolds**, North Conway, New Hampshire.

Description: The Talbot workshop will constitute a weeklong retreat in New Hampshire, bringing together a small group of graduate students and junior faculty in an informal and collaborative environment to study the topology of homeomorphism and diffeomorphism groups of manifolds and related topics in surgery, geometric topology, algebraic K-theory, calculus of functors, and index theory.

Plenary speaker: Michael Weiss.

Organizers: Chris Douglas, John Francis, Andre Henriques, Mike Hill.

Contact: For more information about participating in the workshop, email Mike Hill (mikehill@math.mit.edu).

Information: <http://www-math.mit.edu/~jnkf/talbot>.

March 2006

- * **2–5 SouthEastern Analysis Meeting, SEAM XXII**, University of Florida, Gainesville, Florida.

Description: The University of Florida math department is hosting the 22nd edition of SEAM as part of its special year in probability and analysis.

Information: For conference details, visit the special year web site <http://www.math.ufl.edu/~sam/payr>.

- * **12–25 RSES/ESI Educational Workshop on Discrete Probability**, Erwin Schrodinger Institute (ESI), Vienna, Austria.

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 **eight 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/July, 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/>.

Minicourses: By Persi Diaconis (Stanford), Alexander Gamburd (Princeton), Gregory Lawler (Cornell), Christophe Pittet (Marseille).
Organizers: V. A. Kaimanovich (Bremen), K. Schmidt (Vienna), W. Woess (Graz).

Information: <http://www.math.tugraz.at/mathc/esi2006/>.

*** 27–31 Spectral Theory and Mathematical Physics, A Conference in Honor of Barry Simon's 60th Birthday**, California Institute of Technology, Pasadena, California.

Aim: The conference aims to bring together scholars from around the world for fruitful scientific exchange in a broad range of areas reflecting Barry Simon's scientific interests over the years in Mathematical Physics and Analysis.

Confirmed Speakers: Michael Aizenman (Princeton), Yosi Avron (Technion, Haifa), Alexei Borodin (Caltech, Pasadena), Jean Bourgain (IAS, Princeton), David Damanik (Caltech, Pasadena), E. Brian Davies (King's College, London), Percy Deift (Courant Institute, New York), Laszlo Erdős (Univ. Munich), Richard Froese (UBC, Vancouver), Jürg Fröhlich (ETH-Zürich), Christian Gerard (Univ. Paris Sud, Orsay), Leonid Golinskii (ILT, Kharkov), Gian Michele Graf (ETH-Zürich), George Hagedorn (Virginia Tech, Blacksburg), Evans Harrell (Georgia Tech, Atlanta), Ira Herbst (Univ. Virginia, Charlottesville), Dirk Hundertmark (U. Illinois, Urbana-Champaign), Vojkan Jaksic (McGill U., Montreal), Svetlana Jitomirskaya (UC Irvine), Sergey Khrushchev (Atılım U., Ankara), Rowan Killip (UCLA), Alexander Kiselev (Univ. Wisconsin, Madison), Yoram Last (Hebrew U., Jerusalem), Peter Perry (Univ. Kentucky, Lexington), William Reinhardt (Univ. Washington, Seattle), Lon Rosen (UBC, Vancouver), Wilhelm Schlag (Caltech, Pasadena), Terence Tao (UCLA), Vilmos Totik (Univ. South Florida, Tampa; Univ. Szeged).

Topics: The conference is organized around a topic of the day with reviews of some of Barry Simon's work and typically several reviews on the state of the art of various aspects of the principal subject on each day. The topics are distributed as follows: Monday: Quantum Field Theory, Statistical Mechanics, and Random Matrix Theory; Tuesday: General Nonrelativistic Quantum Mechanics, including N-Body Systems and Resonances; Wednesday: Nonrelativistic Quantum Mechanics in Electric and Magnetic Fields; Semi-Classical Limit; Thursday: Singular Continuous Spectrum, Random and Ergodic Schrödinger Operators; Friday: Orthogonal Polynomials; Non-Selfadjoint Spectral Theory.

Contacts: Cherie Galvez (SimonFest@caltech.edu); Fritz Gesztesy (fritz@math.missouri.edu).

Information: <http://www.math.caltech.edu/mp2006conf.html>.

*** 30–April 5 CRM-Clay School on Additive Combinatorics**, Centre de Recherches Mathématiques, Montréal, Quebec, Canada.

Description: Additive combinatorics is one of the most exciting areas in mathematics today, involving ideas from number theory, harmonic and functional analysis, ergodic theory, combinatorics, probability theory and discrete geometry. The school will give the background in these areas to help the students begin to appreciate some of the recent spectacular theorems, such as the result of Green and Tao that there are infinitely many k-term arithmetic progressions of primes and Bourgain's bounds on exponential sums. This school is intended to give to graduate students, postdoctoral fellows and junior faculty an opportunity to participate in these new developments.

Support: The School is supported by CRM, NSERC, NSF, the Clay Foundation and DIMATIA.

Information: email: paradis@crm.umontreal.ca.

April 2006

*** 22–27 Design Theory, Graph Theory, and Computational Methods**, IPM, Tehran, Iran.

Organizers: Samad Hedayat (Univ. of Illinois at Chicago, USA), Hadi Kharaghani (Univ. of Lethbridge, Canada), Gholamreza B. Khosrovshahi (IPM and Univ. of Tehran, Iran), Shahriar Shahriari (Pomona College, USA).

Confirmed Speakers: Aart Blokhuis (Eindhoven Univ. of Technology, Netherlands), Andries E. Brouwer (Eindhoven Univ. of Technology, Netherlands), Jeff Dinitz (Univ. of Vermont, USA), Willem H. Haemers (Tilburg Univ., Netherlands), Brendan McKay (Australian National Univ., Australia), Patric Östergård (Helsinki Univ. of Technology, Finland), Qing Xiang (Univ. of Delaware, USA).

Information: <http://www.ipm.ac.ir/combinatoricsII/deadline.htm>.

*** 30–May 5 Conference on Topology, Geometry and Physics**, Columbia University, New York, New York.

Description: The conference will be in honor of John Morgan's 60th Birthday. It will take place from May 1–4. It will be preceded by an intensive workshop on gauge theory, symplectic geometry and related topics on April 30th, and will conclude with an intensive workshop on geometrization and hyperbolic geometry on May 5th.

Organizers: Robert Friedman, David Gabai, Peter Ozsváth, András Stipsicz, Zoltán Szabó.

Information: More information will be posted on the conference home page as it becomes available: <http://www.math.columbia.edu/~petero/MorganConference.html>.

May 2006

*** 14–20 International Symposium on Functional Equations**, University of Louisville, Louisville, Kentucky.

Topics: Functional equations and inequalities, mean values, functional equations on algebraic structures, Hyers-Ulam stability, regularity properties of solutions, conditional functional equations, iteration theory; applications of the above, in particular to the natural, social, and behavioral sciences.

Local Organizers: T. Riedel (thomas.riedel@louisville.edu) and P. K. Sahoo (sahoo@louisville.edu), University of Louisville, Department of Mathematics, Louisville, KY 40292, USA.

Scientific Committee: J. Aczél (Honorary Chair; Waterloo, ON, Canada), Z. Daróczy (Debrecen, Hungary), R. Ger (Chair; Katowice, Poland), J. Rätz (Bern, Switzerland), L. Reich (Graz, Austria), and A. Sklar (Chicago, IL, USA).

Information: Participation at these annual meetings is by invitation only. Those wishing to be invited to this or one of the following meetings, send details of their interest and, preferably, publications (paper copies) and/or manuscripts with their postal and email address to: R. Ger, Institute of Mathematics, Silesian University, Bankowa 14, PL-40-007 Katowice, Poland (romanger@us.edu.pl) before March 1, 2006.

*** 22–26 13th International Conference on Gambling & Risk Taking**, Harrah's Lake Tahoe, Stateline, Nevada.

Description: This once-every-three-year event covers a broad variety of disciplines including mathematics of games. It attracts professional researchers, academics, government and regulatory officials, and gaming executives from around the world.

Call for papers: To view the call for papers, see <http://www.unr.edu/gaming> and click above the photo of Lake Tahoe.

Deadline: Submission deadline: January 15, 2006.

Organizers: Institute for the Study of Gambling & Commercial Gaming, College of Business Administration, University of Nevada, Reno.

Information: Contact: Judy Cornelius (corneliu@unr.nevada.edu) or Danielle Crowther (dcrowthe@unr.nevada.edu); or call 775-784-1442.

*** 22–27 "Banach spaces and their applications in Analysis", in honor of Nigel Kalton's 60th birthday**, Miami University, Oxford, Ohio.

Areas of emphasis: Nonlinear theory (Lipschitz classifications of Banach and metric spaces and related topics), Isomorphic theory of Banach spaces including connections with combinatorics and set theory, Algebraic and homological methods in Banach spaces, Approximation theory and algorithms in Banach spaces (greedy

algorithms, interpolation etc.), Functional calculus and applications to Partial Differential Equations.

Principal speakers: Yuri Brudnyi (Technion-Israel Institute of Technology, Israel), Jesus M. F. Castillo (Univ. of Extremadura, Spain), Marianna Csornyei (Univ. College, London, UK), Stephen Dilworth (Univ. of South Carolina), Gilles Godefroy (Univ. Paris VI, France), William B. Johnson (Texas A&M Univ.), Joram Lindenstrauss (Hebrew Univ., Israel), Assaf Naor (Microsoft Research), Edward Odell (Univ. of Texas), Aleksander Pelczynski (Polish Academy of Sciences, Poland), David Preiss (Univ. College, London, UK), Gideon Schechtman (Weizmann Institute of Science, Israel), Thomas Schlumprecht (Texas A&M Univ.), Vladimir Temlyakov (Univ. of South Carolina), Nicole Tomczak-Jaegermann (Univ. of Alberta, Canada), Roman Vershynin (Univ. of California-Davis), Lutz Weis (Univ. Karlsruhe, Germany), Przemyslaw Wojtaszczyk (Warsaw Univ., Poland).

Information: <http://www.users.muohio.edu/randrib/bsaa2006.html>.

Organizers: Beata Randrianantoanina (randrib@muohio.edu), Narcisse Randrianantoanina (randrin@muohio.edu).

* 28-30 **Annual Meeting of the Canadian Society for History and Philosophy of Mathematics (CSHPM)**, York University Toronto, Ontario, 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 Mathematics and the Wider Culture. Talks, in French or English, are solicited both for Contributed Paper Sessions and the Special Session.

Deadlines: Please submit title and abstract by February 1, 2006.

Organizers: Special Session: Sylvia Svitak, email: smsvitak@earthlink.net; Contributed Paper Sessions: Christopher Baltus, email: baltus@oswego.edu.

Information: Registration and lodging are through the Congress of the Social Sciences and Humanities: <http://www.fedcan.ca/congress2006>. For more information visit <http://www.cshpm.org>.

* 30-June 2 **DAYS on DIFFRACTION-2006**, St. Petersburg University & St. Petersburg Branch Steklov Math. Inst., St. Petersburg, Russia.

Program: Mathematical aspects of wave propagation. Asymptotic techniques. Scattering and diffraction. Electromagnetics. Sound propagation and vibration. Elastic waves and seismology. Nonlinear waves. Microwave and quantum waveguides. Inverse problems. Numerical approaches. Non-stationary phenomena.

Organizers: St. Petersburg Dept. of Steklov's Math. Institute. Division of Physics of St. Petersburg University. Euler International Mathematical Institute. Co-Chairs Prof. V. M. Babich and Prof. V. S. Buldyrev.

Deadlines: Proposals to organize a session and abstract submissions: Feb. 15, 2006. Notification of acceptance: March 15, 2006. Registration: April 1, 2006. Full paper submission: Sept. 15, 2006.

Information: <http://math.nw.ru/dd06>.

June 2006

* 5-9 **Poisson 2006: Poisson Geometry in Mathematics and Physics**, National Olympic Memorial Youth Center, Tokyo, Japan.

Purpose: This conference continues a series of biannual conferences which emphasize not only Poisson geometry itself, but also its relations to other areas of mathematics and to physics. This 5th conference will focus on Poisson structures and Dirac structures, Poisson groupoids, Lie and Courant algebroids, Hamiltonian systems and generalized moment maps, deformation quantization, Poisson sigma models, and string theory.

Confirmed speakers: A. Alekseev (Geneva), H. Bursztyn (Rio de Janeiro), A. Cattaneo (Zurich), M. Crainic (Utrecht), J.-P. Dufour (Montpellier), R. Fernandes (Lisbon), M. Gekhtman (South Bend), V.

Ginzburg (Santa Cruz), M. Gualtieri (Cambridge), N. Ikeda (Shiga), A. Karabegov (Abilene), M. Kontsevich (Bures-sur-Yvette), J. -H. Lu (Hong Kong), S. Merkulov (Stockholm), J. S. Park (Seoul), T. Ratiu (Lausanne), M. Rieffel (Berkeley), P. Schapira (Paris) B. Tsygan (Evanston), M. van den Bergh (Diepenbeek), S. Waldmann (Freiburg), A. Weinstein (Berkeley), P. Xu (University Park), H. Yoshimura (Tokyo), Y. Zhang (Beijing).

Scientific committee: A. Alekseev (Geneva), A. Cattaneo (Zurich), J. Grabowski (Warsaw), S. Gutt (Brussels), Y. Kosmann-Schwarzbach (Palaiseau), J. -H. Lu (Hong Kong), T. Z. Nguyen (Toulouse), T. Ratiu (Lausanne), A. Weinstein (Berkeley), P. Xu (University Park).

Organizing committee: P. Bieliavsky (Louvain-la-Neuve), G. Dito (Dijon), Y. Maeda (Yokohama), K. Mikami (Akita), N. Nakanishi (Gifu), A. Yoshioka (Tokyo).

Information: email: maeda@math.keio.ac.jp; <http://www.u-bourgogne.fr/monge/g.dito/poisson2006>. Other information: A pre-school for this conference will also be held from May 31-June 2, 2006 at Keio University, Yokohama, Japan. Lecturers will be: M. Kontsevich (Bures-sur-Yvette), E. Meinrenken (Toronto), T. Z. Nguyen (Toulouse).

* 11-14 **ICMSE 2006- International Conference in Mathematics, Sciences and Science Education**, University of Aveiro, Aveiro, Portugal.

Description: The International Conference in Mathematics, Sciences and Science Education, ICMSE 2006, provides opportunities for mathematics and science teachers, educators and researchers to contribute and listen to research presentations and be actively involved in special interest groups developed around the conference theme of Mathematics Education, Science Education and History of Science. It is a precious occasion to hear about primary, secondary and university mathematics and science matters which aims to encourage and promote quality research in these areas.

Topics: Relevant topics include but are not restricted to History of Science and New Trends in Science Education and Technology applied to Mathematics, Physics, Chemistry and Computer Sciences.

Information: <http://gag.mat.ua.pt/ICMSE/index.html>.

* 13-17 **The Fifteenth International Workshop on Matrices and Statistics**, Uppsala, Sweden.

Purpose: To stimulate research, in an informal setting, and to foster the interaction of researchers in the interface between matrix theory and statistics. Additional emphasis will be put on related numerical linear algebra issues and numerical solution methods, relevant to problems arising in statistics. The workshop will include both invited and contributed talks.

Speakers: Theodore Anderson, Stanford University, USA; Gene Golub, Stanford University, USA; David Harville, IBM Thomas J. Watson Research Center, USA; Sabine Van Huffel, Katholieke Universiteit Leuven, Belgium; Ingram Olkin, Stanford University, USA; Friedrich Pukelsheim, University of Augsburg, Germany; Yousef Saad, University of Minnesota, USA; Muni Srivastava, University of Toronto, Canada.

Information: Please visit <http://www.bth.se/iwms2006/iwms06.html>.

* 16-20 **CAIMS-MITACS Joint Annual Conference**, York University, Toronto, Ontario, Canada.

Workshop Topics: The meeting features a number of invited scientific sessions in the areas of: Bioinformatics. Communication and Security in Ad Hoc Networks. Data Mining (joint with the Statistical Society of Canada). Fluid Dynamics (the 17th Canadian Symposium on Fluid Dynamics). Image Processing and Inverse Problems. Industrial Mathematics. Financial Mathematics. Nonlinear Dynamics in the Health Sciences. Operations Research and Optimization. Scientific Computing. Symbolic Computation. Visual Mathematics.

Information: Any questions or requests for more information should be addressed by e-mail to ac06@mitacs.ca; <http://www.mitacs.ca/AC06>.

*19–23 **Formal Power Series and Algebraic Combinatorics 2006**, Catamaran Resort Hotel, Pacific Beach, San Diego, California.

Topics: All aspects of combinatorics and their relations with other parts of mathematics, physics, computer science, and biology.

Speakers: Marge Bayer (University of Kansas), Fan Chung (Univ. Calif., San Diego), Jim Haglund (Ohio State University), Tom Koornwinder (Univ. van Amsterdam), Seok-Jin Kang (Seoul National University), Nigel Ray (University of Manchester), Bruce Sagan (Michigan State University), Michelle Wachs (University of Miami).

Information: Deadlines: Submission of abstracts: November 15, 2006. Notification of Acceptance: February 15, 2006. Request for Support: March 1, 2006. Reduced Registration Fees: April 1, 2006. Additional information can be found at <http://garsia.math.yorku.ca/fpsac06/>.

*19–30 **SMS 2006/NATO Advanced Study Institute–Combinatorial Optimization: Methods and Applications**, Université de Montréal, Montréal (QC) Canada.

Topics: Will include (but will not be restricted to) integer and mixed integer programming, game theory, convexity in combinatorial optimization, facility location, VLSI design, and supply chain management.

Aim: This summer school is aimed primarily at doctoral students, postdoctoral fellows, and junior faculty.

Lecturers: Gérard Cornuejols (Carnegie Mellon University), Sanjeeb Dash (IBM T. J. Watson Research Center), Friedrich Eisenbrand (Max-Planck-Institut für Informatik), Lisa K. Fleischer (Carnegie Mellon University), Michael X. Goemans (M.I.T.), Yuri Kochetov (Russian Academy of Sciences), Bernhard Korte (University of Bonn), Gleb Koshevoy (Russian Academy of Sciences), Shmuel Onn (Technion-Israel Institute of Technology), Dieter Rautenbach (University of Bonn), Najiba Sbihi (Ecole Mohammadia D'ingénieurs), Jens Vygen (University of Bonn).

Information: Financial support available. For full consideration, requests for participation or financial assistance must be received before February 28, 2006. Information/application form: <http://www.dms.umontreal.ca/sms/>; belanger@dms.umontreal.ca.

*23–26 **2006 International Conference on Topology and its Applications**, Aegion, Greece.

Description: All areas of Topology and its Applications are included (especially General Topology, Applied General Topology, Set-Theoretic Topology, Geometric Topology, Topological Groups, Dimension Theory, Dynamical Systems and Continua Theory, Computational Topology, History of Topology).

Deadlines: For the Participation Form is May 31, 2006. For the Abstract Form is May 31, 2006. For the Accommodation Form is March 31, 2006.

Organizing Committee: S. D. Iliadis (University of Patras)–Chairman, D. N. Georgiou (University of Patras), V. M. Costaras (Aegion), C. G. Fotopoulos (Aegion), C. A. Vasilakopoulos (Aegion).

Information: <http://www.math.upatras.gr/~aegion/>; email: aegion@math.upatras.gr.

July 2006

*9–15 **DIMACS Reconnect Conference 2006: Reconnecting Teaching Faculty to the Mathematical Sciences Research Enterprise**, Morgan State University, Baltimore, Maryland.

Description: This conference exposes faculty teaching undergraduates to the mathematical sciences research enterprise by introducing them to a current research topic relevant to the classroom through a series of lectures by a leading expert and involving them in writing materials useful in the classroom. Participants have the possibility of following up by preparing these materials for publication in the DIMACS Educational Modules Series.

Topic: Simple and Complex Discrete-time Population Models in Ecology and Epidemiology.

Principal Speaker: Abdul-Aziz Yakubu, Howard University (ayakubu@Howard.edu).

Conference Organizers: A. Nkwanta, Morgan State University, (nkwanta@jewel.morgan.edu); F. S. Roberts, Rutgers University (fr Roberts@dimacs.rutgers.edu).

Information: To receive more information, visit our web site at <http://dimacs.rutgers.edu/reconnect/> or contact the Reconnect Program Coordinator, at reconnect@dimacs.rutgers.edu; tel: 732-445-4304.

*24–28 **The Eleventh International Conference on Difference Equations and Applications**, Kyoto University, Kyoto, Japan.

Purpose: The purpose of the Conference is to bring together both experts and novices in the theory and application of Difference Equations and Discrete Dynamical Systems together with experts in mathematical economics and finance. The participants will present their results and help chart the course for further developments in the twenty first century by raising the following important questions and issues: 1. Identifying new directions in the general theory of Difference Equations and discrete Dynamical Systems. 2. Applications of difference equations with special emphasis on Mathematical Economics and Finance. 3. Exploring the interplay between Economics and other applied areas utilizing Difference Equations.

Plenary Speakers: The plenary speakers will be experts chosen from the many areas of Difference Equations in general. Contributed talks in any area of Difference Equations are welcome and will be considered.

Organizers: The conference is organized by the Institute of Economic Research, the Faculty of Economics, and the Faculty of Mathematics, Kyoto University in cooperation with Kieo University and Okayama University of Science. The conference will be held under the auspices of the Mathematical Society of Japan and the International Society of Difference Equations (ISDE).

Scientific Committee: The Scientific Committee consists of K. Aomoto (Japan), S. Elaydi (USA) (Chairman), J. Hietarinta (Finland), K. Okamoto (Japan), G. Ladas (USA), G. Sell (USA), A. N. Sharkovsky (Ukraine), J. Yorke (USA), M. Shishikura (Japan). The plenary speakers are J. Yorke (Maryland), M. Golubitsky (Houston), F. Takens (Groningenb). Program Committee: Kazuo Nishimura (Kyoto U.) (Chairman), Hiroshi Kokubu (Kyoto U.), Nobuyuki Tose (Keio U.), Yoshihisa Hamaya (Okayama U. of Science). Local Organizing Committee: Hiroshi Teruyama (Kyoto U.), Akihisa Shibata (Kyoto U.), Hideki Iwaki (Kyoto U.), Se-il Mun (Kyoto U.).

Information: For more information and details about the conference you may contact Professor Kazuo Nishimura: nishimura@kier.kyoto-u.ac.jp or Professor Saber Elaydi: selaydi@trinity.edu.

*24–28 **The Eleventh International Conference on Difference Equations and Applications**, Kyoto University, Kyoto, Japan.

Purpose: To bring together both experts and novices in the theory and application of Difference Equations and Discrete Dynamical Systems together with experts in mathematical economics and finance.

Plenary Speakers: J. Yorke (Maryland), M. Golubitsky (Houston), F. Takens (Groningenb).

Organizers: The Institute of Economic Research, the Faculty of Economics, and the Faculty of Mathematics, Kyoto University in cooperation with Kieo University and Okayama University of Science.

Scientific Committee: K. Aomoto (Japan), S. Elaydi (USA) (Chairman), J. Hietarinta (Finland), K. Okamoto (Japan), G. Ladas (USA), G. Sell (USA), A. N. Sharkovsky (Ukraine), J. Yorke (USA), M. Shishikura (Japan).

Program Committee: Kazuo Nishimura (Kyoto Univ.) (Chairman), Hiroshi Kokubu (Kyoto Univ.), Nobuyuki Tose (Keio Univ.), Yoshihisa Hamaya (Okayama Univ. of Science). Local Organizing Committee: Hiroshi Teruyama (Kyoto Univ.), Akihisa Shibata (Kyoto Univ.), Hideki Iwaki (Kyoto Univ.), Se-il Mun (Kyoto Univ.).

Information: Kazuo Nishimura: nishimura@kier.kyoto-u.ac.jp or Saber Elaydi: selaydi@trinity.edu.

*31–August 4 **Numerical invariants of singularities and higher-dimensional algebraic varieties**, AIM Research Conference Center, Palo Alto, California.

Workshop topics: This workshop, sponsored by AIM and the NSF, will be devoted to certain numerical measures of the singularities of a divisor or holomorphic function. These invariants—notably the log-canonical threshold or complex singularity index—have appeared in recent years in a surprisingly wide variety of mathematical problems. The idea of the workshop is to bring together researchers working in the various different directions, in the hopes of generating some valuable cross-fertilization.

Organizers: Nero Budur, Lawrence Ein, Robert Lazarsfeld, Mircea Mustata, Aleksandr V. Pukhlikov, and Vyacheslav Shokurov.

Application deadline: April 25, 2006.

Information: <http://aimath.org/ARCC/workshops/singularvariety.html>.

August 2006

*2–4 **31st Sapporo Symposium on Partial Differential Equations**, Department of Mathematics, Hokkaido University, Sapporo, Japan.

Description: The Sapporo Symposium on Partial Differential Equations has been held annually to present the latest developments on PDE with a broad spectrum of interests not limited to the methods of a particular school.

Organizers: T. Ozawa, Y. Giga, S. Jimbo, G. Nakamura, Y. Tonegawa, K. Tsutaya; email: cri@math.sci.hokudai.ac.jp.

Information: http://coe.math.sci.hokudai.ac.jp/sympo/sapporo/program_en.html.

*16–19 **First announcement: Satellite Conference on Algebraic Geometry**, Segovia, Spain.

Description: Satellite Conferences are relevant scientific activities organized around ICM Madrid 2006. This conference will deal with recent trends in Algebraic Geometry.

Plenary lectures: There will be two plenary lectures in the mornings.

Invited speakers: J. I. Burgos, G. M. Greuel, P. Griffiths, J. Lipman, Z. Mebkhout, T. Pantev, M. Reid, A. Sommese.

Information: <http://www.escet.urjc.es/satellite/>.

*16–19 **Trends and Challenges in the Calculus of Variations and its Applications**, Toledo, Spain.

Invited Speakers: G. Allaire (Paris), A. Braides (Rome), S. Conti (Leipzig), C. De Lellis (Zurich), D. Faraco (Madrid), I. Fonseca (Pittsburgh), B. Kirchheim (Oxford), J. Kristensen (Oxford), C. Larsen (WPI, USA), G. Leoni (Pittsburgh), J. J. Manfredi (Pittsburgh), S. Serfaty (New York).

Scientific Committee: L. Ambrosio (SNS, Pisa), J. Ball (Oxford), D. Kinderlehrer (Pittsburgh), R. Kohn (New York), S. Müller (MPI, Leipzig), E. Zuazua (UAM, Madrid).

Organizers: E. Aranda, J. C. Bellido (Co-ordinator), P. Pedregal (University of Castilla-La Mancha).

Call for Applications: Young researchers have the possibility to apply for giving a short talk. The Scientific Committee will make a selection among the received applications. The deadline for applying for a talk is March 15th, 2006.

Registration: Pre-registration is already open on-line. Registration will start by the beginning of February.

Information: <http://matematicas.uclm.es/toledo2006>; email: JoseCarlos.Bellido@uclm.es.

September 2006

*4–8 **Barcelona Analysis Conference**, University of Barcelona, Barcelona, Spain.

Description: BAC06 has been recognized as a Satellite Conference of the International Congress of Mathematicians, Madrid 2006. The meeting will take place at the historical building of the University of Barcelona.

Main areas of interest: Harmonic Analysis, Geometric Measure Theory, Real and Functional Analysis, Complex Analysis, Signal Analysis, Aspects of the above related to PDE's.

Information: email: bac06@imub.ub.es; <http://www.imub.ub.es/bac06/>.

*4–29 **The Painlevé Equations and Monodromy Problems**, Isaac Newton Institute for Mathematical Sciences, Cambridge, England.

Organizers: Professor P. P. Boalch (ENS Paris), Professor P. A. Clarkson (Kent), Professor L. Mason (Oxford), Professor Y. Ohyaama (Osaka).

Information: <http://www.newton.cam.ac.uk/programmes/PEM/>.

*9–12 **SIAM Conference on Nonlinear Waves and Coherent Structures**, University of Washington, Seattle, Washington.

Description: Nonlinear waves and coherent structures is a broad area of applied mathematics. Its theoretical aspects are relevant to subjects as diverse as general relativity, high-energy particle physics, fluid and solid mechanics, plasmas, nonlinear electrical circuits, Bose-Einstein condensation, nonlinear optics, random media, atmosphere and ocean dynamics, chemical reactions, and biology. One of the most successful and topical applications is the propagation of information in optical fibers, but remarkable agreement between theory and experiments can be claimed in many of the fields mentioned above.

Goals: The goals of this meeting are to provide an opportunity for the cross-fertilization among the different fields of applications and to increase the understanding and communication between the mathematicians who build the theory and the scientists who use it. The conference is designed to facilitate presentations of advances in nonlinear waves and coherent structures, ranging from basic mathematical research to various applications. It is expected to draw attendees from the mathematical, biological, engineering and physical sciences, and thus provide a strong impetus to new and innovative work in the field.

Organizers: The organizing committee will make every effort to attract a large pool of members from different backgrounds and at different stages in their careers.

Information: Additional information is available at <http://www.siam.org/meetings/nw06/index.php>.

*11–15 **Groups of Diffeomorphisms 2006**, University of Tokyo, Tokyo, Japan.

Topics: Groups of diffeomorphisms, Moduli and classifying spaces, Mapping class groups, Characteristic classes, K-theory.

Scientific Committee: T. Tsuboi (Univ. Tokyo), D. Kotschick (Univ. Munich), N. Kawazumi (Univ. Tokyo), Y. Mitsumatsu (Chuo Univ.), T. Kitano (Tokyo Inst. Tech.).

Organizing Committee: Y. Mitsumatsu, M. Fujii, Y. Kasahara, T. Kitano, T. Morifuji.

Speakers: Joan Birman, Kiyoshi Igusa, Nariya Kawazumi, Dieter Kotschick, Shigeyuki Morita, Robert Penner, Takashi Tsuboi, Karen Vogtmann.

Information: <http://faculty.ms.u-tokyo.ac.jp/~gd2006/index.html>.

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

July 2007

*9–13 **European Dynamics Days 2007**, Loughborough University, United Kingdom.

Organizers: Mark Groves, John Terry (Loughborough University), Mark Fromhold, Gregor Tanner (University of Nottingham).

Information: Email Mark Groves (M.D.Groves@lboro.ac.uk).