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# Mathematics Calendar

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

## April 2007

- \* 12–13 **Second International Workshop on Differential Algebra and Related Topics**, Rutgers University at Newark, Newark, New Jersey.

**Description:** The Kolchin Seminar in Differential Algebra of The City University of New York and the Department of Mathematics at Rutgers University at Newark are pleased to announce the second joint International Workshop and AMS Special Session on Differential Algebra and Related Topics. The joint conferences will bring together experts from different areas related to differential algebra. The purpose is to disseminate the methods and results of differential algebra to other areas, to encourage potential collaborations, and to attract graduate students and new researchers. During the workshop, invited speakers will give expository or survey talks on their fields. The Special Session at the AMS Eastern Section Meeting for Spring 2007 will bring the participants further up to date on the most current research through invited research reports.

**Topics:** The topics include but not limited to: differential and difference algebra, differential Galois theory, differential algebraic geometry, differential algebraic groups, computational differential algebra, Rota-Baxter type algebras, and applications to combinatorics, arithmetic geometry, control theory, dynamical systems, and integrability theories.

**Information:** <http://newark.rutgers.edu/~liguo/DARTIII/diffal.html>.

- \* 13–15 **Midwest Workshop on Complex Analysis and Geometry**, University of Illinois at Chicago, Chicago, Illinois.

**Speakers:** David Barrett (Michigan), Salah Baouendi (UCSD), John D'Angelo (UIUC), Charles Fefferman (Princeton), Eric Fornæss (Michigan), Joseph J. Kohn (Princeton), Madhav Nori (University of

Chicago), Linda Rothschild (UCSD), Yum-Tong Siu (Harvard), Mei-Chi Shaw (Notre Dame), Sidney Webster (University of Chicago).

**Information:** For information, contact the Organizing Committee: Jeff Lewis; [jlewis@uic.edu](mailto:jlewis@uic.edu), David Tartakoff; [dst@uic.edu](mailto:dst@uic.edu), Stephen S. T. You; [yau@uic.edu](mailto:yau@uic.edu).

**Information:** <http://www.math.uic.edu/~lewis/scv2007/>.

- \* 16–July 13 **Dynamical Systems and Number Theory**, Centro di Ricerca Matematica Ennio de Giorgi, Pisa, Italy.

**Tentative Schedule:** (I) April 16–April 27, Renormalization, small divisors, continued fractions and geodesic flows; (II) April 30–May 11, Continued fractions, modular symbols, periods of automorphic forms and theta functions; (III) May 14–June 1, Teichmüller dynamics; (IV) May 28–June 8, TBA; (V) June 11–July 6, Clay Mathematics Institute summer school on Homogeneous flows, moduli spaces, and arithmetic.

**Organizing Committee:** Manfred Einsiedler (Ohio State University), David Ellwood (Clay Mathematics Institute), Alex Eskin (University of Chicago), Dmitry Kleinbock (Brandeis University), Elon LINDENSTRAUSS (chair, Princeton University), Gregory Margulis (Yale University), Stefano Marmi (Scuola Normale Superiore Pisa), Peter Sarnak (Princeton University), Jean-Christophe Yoccoz (Collège de France) and Don Zagier (Max Planck Institut, Bonn and Collège de France)

**Information:** More detailed information will be soon available on the website <http://www.crm.sns.it/>. Detailed information about the Clay School (June 11–July 6) can be retrieved from the website of the Clay Institute [http://www.claymath.org/programs/summer\\_school/2007/](http://www.claymath.org/programs/summer_school/2007/).

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**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](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 **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/>.

May 2007

- \* **18–19 Groups in Galway 2007**, National University of Ireland, Galway, Ireland.  
**Scope:** The scope of the conference covers all areas of group theory, applications, and related fields. This year the conference will once again include a poster session. All interested persons, especially postgraduate students, are invited to contribute to this session.  
**Speakers:** P. Campbell (University of Bristol, UK), Bettina Eick (TU Braunschweig, Germany), Murray Elder (Stevens Institute of Technology, USA), Charles Leedham-Green (Queen Mary, University of London, UK), C. Roney-Dougall (University of St Andrews, UK), H. Smith (Bucknell University, USA).  
**Information:** Prospective participants should register their intention to attend the conference by contacting Dane Flannery (dane.flannery@nuigalway.ie) or Rachel Quinlan (rachel.quinlan@nuigalway.ie). Further information will be posted on the conference website: <http://www.maths.nuigalway.ie/conferences/gig07/> as it becomes available.
- \* **18–20 International Conference on Special Functions & their Applications (7th Annual Conference of SSFA, India)**, St. Thomas College, Arunapuram P.O., Pala, Kottayam, Pin 686574, Kerala, India.  
**Information:** <http://www.ssfa.gq.nu/conf.htm>.
- \* **20–24 Canadian Applied and Industrial Mathematics Society (CAIMS) Annual Meeting**, Banff, Alberta, Canada.  
**Themes:** Applied linear Algebra, Computational PDE's, Cryptography, Dynamical Systems, Fluid Dynamics, Mathematics of Finance, Mathematical Biology, Geophysical Inversion. Each of these themes features a plenary speaker and 6-8 invited speakers. There is also a poster session.  
**Deadlines:** Accommodation at the Banff Centre: February 23, 2007, for guaranteed rooms.  
**Organizers:** Head of Scientific Committee is Peter Lancaster, University of Calgary. Co-chairs of Local Organizing Committee are Ben Aggarwala of the University of Calgary and Jack Macki of the University of Alberta.  
**Information:** For a list of plenary speakers and other information, please visit: <http://www.math.ualberta.ca/ami/caims2007.html>.
- \* **21–24 Cornell Topology Festival**, Cornell, Ithaca, New York.  
**Description:** This year's Festival includes a number of talks in group theory and low-dimensional topology. There will be two introductory workshops in those areas as well as a more general panel discussion.  
**Speakers:** Danny Calegari, Ralph Cohen, Cornelia Drutu, Alex Eskin, Mark Feighn, Ilya Kapovich, Christopher Leininger, Tim Riley, Juan Souto, Gang Tian.  
**Financial Support:** Is available. Young researchers are especially encouraged to apply.  
**Information:** For registration and further details see the Festival web page: <http://www.math.cornell.edu/~festival/>.
- \* **21–25 International Conference on Mathematical Fluid Mechanics**, Hotel Estoril Eden, Estoril, Portugal.  
**Description:** Conference in honor of Giovanni Paolo Galdi (Univ. Pittsburgh) on the occasion of Professor Galdi's 60th birthday.  
**Topics:** Navier-Stokes equations, non-Newtonian models, hydrodynamic stability and fluid-particle interactions.  
**Information:** <http://www.math.ist.utl.pt/cemat/gpgaldi>.
- \* **23–25 Combinatorial and Additive Number Theory (CANT 2007)**, CUNY Graduate Center, New York, New York.  
**Description:** This is the fifth in a series of annual workshops sponsored by the New York Number Theory Seminar on problems in combinatorial and additive number theory and related parts of mathematics. Some funding is available to support graduate students and junior faculty. For more information about attending

or speaking at the workshop, please contact the organizer, Mel Nathanson, at [melvyn.nathanson@lehman.cuny.edu](mailto:melvyn.nathanson@lehman.cuny.edu).

**Information:** The program and a list of speakers will be posted on the conference Website: <http://www.theoryofnumbers.com>.

- \* **28–June 1 Complex Analysis and Geometry XVIII**, G. Hotel Bellavista, Levico Terme (Trento), Italy.  
**Scientific Organizers:** V. Ancona (Firenze), C. Arezzo (Parma), F. Bracci (Roma II) and A. Silva (Roma I).  
**Confirmed Participants:** E. Amar (Bordeaux I), D. Barlet (Nancy), E. Bedford (Bloomington), B. Berndtsson (Chalmers), F. Berteloot (Toulouse), Z. Blocki (Krakow), F. Campana (Nancy), M. Contreras (Sevilla), B. Coupet (Marseille), S. Diaz-Madrigal (Sevilla), T.-C. Dinh (Paris), G. Dloussky (Marseille), B. Drinovec Drnovsek (Ljubljana), F. Forstneric (Ljubljana), B. Gilligan (Regina), J. Globevnik (Ljubljana), V. Guedj (Toulouse), C.D. Hill (Stony Brook), A. Huckleberry (Bochum), A. Iordan (Paris), S.M. Ivashkovich (Lille I), B. Juhl-Joricke (Uppsala), L. Lanzani (Fayetteville), C. Laurent-Thiebaud (S. Martin d'Herès), J. Leiterer (Berlin), L. Lempert (West Lafayette), J.J. Loeb (Angers), Z. Lu (Irvine), J.I. Magnusson (Reykjavik), N. Mir (Rouen), S. Nivoche (Toulouse), K. Oeljeklaus (Marseille), F. Pacard (Paris XII), I. Patyi (Atlanta), D.H. Phong (Columbia), D. Popovici (Toulouse), N. Shcherbina (Wuppertal), G. Schumacher (Marburg), D. Shoikhet (Karmiel), N. Sibony (Orsay), B. Stenones (Ann Arbor), T. Suwa (Niigata), A. Teleman (Marseille), G. Trautmann (Kaiserslautern), J.-P. Vigué (Poitiers), D. Zaitsev (Dublin), S. Zelditch (Johns Hopkins), X. Zhu (Beijing).  
**Registration deadline:** April 30, 2007.  
**Information:** <http://www.science.unitn.it/cirm/>.  
**Contact Information:** A. Micheletti, Secretary of CIRM, Centro Internazionale per la Ricerca Matematica, Istituto Trentino di Cultura, 38050 Povo (Trento); Tel. +39-0461-881628; Telefax +39-0461-810629; email: [michelet@science.unitn.it](mailto:michelet@science.unitn.it).
  - \* **30–June 2 ACMS 16th Biennial Conference**, Messiah College, Grantham, Pennsylvania.  
**Description:** The Association of Christians in the Mathematical Sciences will sponsor their 16th summer conference since 1977.  
**Featured Speakers:** Francis Su from Harvey Mudd College and Jennifer Wiseman who is NASA's Hubble program scientist.  
**Conference Chair:** Angela Hare, Dept of Mathematics, Messiah College; email: [ahare@messiah.edu](mailto:ahare@messiah.edu).  
**Deadline:** Abstracts of proposed papers may be sent to the conference chair before April 6, or until the program is filled.  
**Information:** General information and registration is at <http://www.acmsonline.org>.
- June 2007**
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- \* **2007 International Conference on Learning**, Johannesburg, South Africa.  
**Information:** <http://www.LearningConference.com>.
  - \* **2 Developments in Algebraic Geometry**, Brown University, Providence, Rhode Island.  
**Description:** On the occasion of David Mumford's 70th birthday there will be a one-day conference, in algebraic geometry. The Clay Mathematics Institute is kindly sponsoring the event. The conference will feature five one-hour talks, on recent developments in algebraic geometry following from Mumford's work. The algebraic geometry conference is part of a two-day event. On June 1, 2007 there will be a sister meeting on computer vision. The computer vision component will be held in Newport, Rhode Island.  
**Speakers:** Valery Alexeev, Igor Krichever, Michael Rapoport, Vyacheslav Shokurov, Ulrike Tillmann.  
**Organizing committee:** Ching-Li Chai, Amnon Neeman, Takahiro Shiota.  
**Funding:** We have applied for funding to support graduate students, postdocs and early-career researchers. If the funding materializes, we will be happy to invite as many as we can.

**Information:** Further details, about both conferences, can be found from the joint webpage: <http://www.dam.brown.edu/mumford-conf/>.

\*4–9 **Algebraic Geometry in Higher Dimensions**, G. Hotel Bellavista, Levico Terme (Trento), Italy.

**Scientific Committee:** M. Andreatta (Trento), E. Ballico (Trento), C. Ciliberto (Roma II), Y. Kawamata (Tokyo) and J. Kollár (Princeton).

**Local Organizers:** G. Occhetta (Trento) and R. Pignatelli (Trento).

**Invited Speakers (\* to be confirmed):** V. Alexeev\* (Georgia), L. Badescu (Genova), I. Bauer (Bayreuth), F. Campana (Nancy I), L. Caporaso\* (Roma III), F. Catanese (Bayreuth), L. Chiantini (Siena), B. Fantechi\* (SISSA Trieste), S. Kebekus (Koeln), S. Kovács (Washington), A. Lopez (Roma III), J. McKernan (S. Barbara), M. Mella (Ferrara), R. Miranda (Colorado), Y. Miyaoka\* (Tokyo), S. Mukai (Kyoto), G. Ottaviani (Firenze), R. Pardini (Pisa), T. Peternell (Bayreuth), G.P. Pirola (Pavia), M. Reid (Warwick), F. Russo (Recife), E. Sernesi (Roma III), V. Shokurov\* (Johns Hopkins), A. Sommese (Notre Dame), J. Starr (Stony Brook), B. van Geemen (Milano), A. Verra (Roma III), G. Vezzosi\* (Firenze), A. Vistoli (Bologna), J. Wisniewski (Warsaw).

**Registration deadline:** April 30, 2007.

**Information:** <http://www.science.unitn.it/~occhetta/agh/index.html>; email: [aghdt@gmail.com](mailto:aghdt@gmail.com).

\*7–10 **74th Workshop on General Algebra**, Tampere University of Technology, Tampere, Finland.

**Topics:** The topics of the conference are the traditional topics of the AAA conference series: Universal Algebra and Lattice Theory, Classical Algebra, Applications of Algebra. In the “applications of algebra” area contributions related to Clifford algebras and possible applications of semilattice and tree structures are welcome in particular. In the “classical algebra” area the organizers hope that there will be contributions related to rings, associative algebras, and semigroups. Contributions related to logic are invited in the “universal algebra and lattice theory” area.

**Information:** <http://math.tut.fi/aaa74/>.

**Organizers:** From Tampere University of Technology; Stephan Foldes, Miguel Couceiro; email: [miguel.couceiro@uta.fi](mailto:miguel.couceiro@uta.fi); Lauri Hella, email: [lauri.hella@uta.fi](mailto:lauri.hella@uta.fi); Erkko Lehtonen, email: [erkko.lehtonen@tut.fi](mailto:erkko.lehtonen@tut.fi); Jenő Szigeti, University of Miskolc; email: [jeno.szigeti@uni-miskolc.hu](mailto:jeno.szigeti@uni-miskolc.hu).

\*11–12 **SPEED: Software Performance Enhancement for Encryption and Decryption**, Amsterdam, the Netherlands.

**Important dates:** April 6, 2007: Submission of papers. May 11, 2007: Notification of acceptance or rejection. May 25, 2007: Revised version of accepted papers due. June 11–12, 2007: SPEED workshop in Amsterdam.

**Information:** More details on <http://www.hyperelliptic.org/SPEED/>.

\*24–26 **Mathematical Modelling in Sport**, Salford Quays Conference Centre, Salford, Manchester, UK.

**Description:** The term Sport is interpreted liberally here and includes: Games and Pastimes; Gambling and On-line Gaming; Lotteries; and General Fitness and Health-related Activities.

**Topics:** Analysis of sporting technologies; Analysis of rules and adjudication; Performance measures and models; Optimisation of sports performance; Mathematics education and sport, Econometrics in Sport; Optimal tournament design and scheduling; Competitive strategy; Match outcome models; Decision support systems, Computationally intensive methods.

**Keynote Speakers:** Stephen R. Clarke (Swinburne Sports Statistics, Australia), John Haigh (Sussex University), Rudd Koning (University of Groningen, The Netherlands).

**Information:** email: [pam.bye@ima.org.uk](mailto:pam.bye@ima.org.uk).

\*24–29 **Fifth School on Analysis and Geometry in Metric Spaces**, Grand Hotel Bellavista, Levico Terme (Trento), Italy.

**Aim:** The aim of the school is to offer an outline of the present state of research concerning geometric measure theory on Carnot-Carathéodory groups and on more general metric spaces. Analysis and Geometry on these structures has been object of extensive research in the last few years, with applications ranging from degenerate elliptic equations to optimal control theory and differential geometry. It is intention of the organizers to put together young researchers and well-known researchers active in the field and to encourage informal discussion on current research trends and developments in the area. Young researchers are encouraged to participate: it is possible to support some of them upon request.

**Organizers:** L. Ambrosio (SNS Pisa), B. Franchi (Bologna), R. Serapioni (Trento) and F. Serra Cassano (Trento).

**Short courses by:** G. Citti (Bologna), M. Cowling (Sydney), J. Heinonen (Ann Arbor), M. Ritore (Granada).

**Registration deadline:** May 31, 2007.

**Information:** Visit <http://www.science.unitn.it/cirm/MeSpa07.html>.

\*25–29 **First International Summer School on Geometry, Mechanics and Control**, Castro Urdiales, Cantabria, Spain.

**Description:** The International Summer School on Geometry, Mechanics and Control is oriented to Ph.D. students and to postdoctoral students with undergraduate studies in Mathematics, Physics or Engineering, in particular to those who want to begin its research in geometrical aspects of mechanics, numerical integration, field theory and control theory. In this sense, the courses could be a complement to Ph.D. programs of different Universities. The School is also open to professionals who want to attend advanced and specialized courses oriented to geometrical techniques in those fields.

**Support:** The Summer School is supported by: Mathematica-Consolider; SIMUMAT; CSIC; ULL; Network: Geometry, Mechanics and Control.

**Funds:** A limited number of scholarships for Ph.D. students and advanced undergraduate students, that may cover registration fees, lodging expenses or/and travel expenses, will be provided by the organizers. Applications, including a CV (for Ph.D. students) and CV and a certificate with grades of subjects (for undergraduate students), should be sent before April 30, 2007, to: [gmcnet@ull.es](mailto:gmcnet@ull.es). **Organizing committee:** Manuel de León (CSIC), David Martín de Diego (CSIC), Edith Padrón (ULL).

**Information:** For more information and online registration, see the official webpage of Summer School at: [http://webpages.ull.es/users/gmcnet/Summer\\_School](http://webpages.ull.es/users/gmcnet/Summer_School).

\*28–30 **Third Statistical Days at the University of Luxembourg**, University of Luxembourg, Luxembourg, Luxembourg.

**Program:** The conference is meant for statisticians as well as researchers or postgraduate students working in research conditions not allowing the use of parametric statistics or for researchers handling qualitative variables. The theme of the seminar addresses different topics, such as the evaluation of medical, psychotherapeutic or pedagogical interventions or the study of factors fluctuating over time in economy. The mathematical foundations and the conditions of application of some multi-dimensional non parametric procedures will be discussed, and the current evolution in this realm will be outlined. Configural frequency analysis (CFA), partial least squares (PLS) methods and dynamic factor analysis (DFA) will especially be stressed.

**Main Topics:** Research strategies for small samples respectively non metric data, dynamic factor analysis (DFA), partial least square models (PLS), configural frequency analysis (CFA).

**Invited Speakers:** Ellen Hamaker (Utrecht University), Erwin Lautsch (Universität Kassel), Peter C. M. Molenaar (Pennsylvania State University), Christian Preda (Université de Lille 2), Michel Tenenhaus (HEC Paris), Alexander von Eye (Michigan State University).

**Organizers:** Prof. Dr. Jang Schiltz (University of Luxembourg), Dr. Lony Schiltz (Crp-Santé, Luxembourg).

**Deadlines:** March 31, 2007: Deadline for application for young researchers grants. April 15, 2007: Notification of attribution of the grants. April 30, 2007: Deadline for submission of abstracts. May 15, 2007: Notification of acceptance of contributed papers.  
**Information:** <http://sma.uni.lu/stat3>.

**July 2007**

\* **2-20 Geometric and Topological Methods for Quantum Field Theory**, Villa de Leyva, Colombia.

**Description:** This summer school is the fifth of a series of schools to take place in Colombia. During the school the lecturers will give both mini-courses and specialized talks on their fields of expertise for students at the masters and Ph.D. levels. The length of each course will range from 4 hours to 6 hours and they will serve as introductions to active areas of research these days. The courses are addressed to both physicists and mathematicians, there will be the opportunity for participants to present their research work.

**Topics:** The border line between geometry, topology and quantum field theory.

**Deadline for Registration:** April 15, 2007.

**Information:** <http://matematicas.uniandes.edu.co/summer2007>.

\* **5-8 XVth Oporto Meeting on Geometry, Topology and Physics**, University of the Algarve, Faro, Portugal.

**Main Theme:** The combinatorics, geometry, topology and physics of knot homology.

**Main speakers and invited speakers:** Sergei Gukov (three 1-hour lectures), Mikhail Khovanov (three 1-hour lectures), Peter Ozsvath (three 1-hour lectures), Paul Seidel (three 1-hour lectures), Jacob Rasmussen (1 hour lecture), Paul Turner (1 hour lecture).

**Deadline:** Registration: March 31, 2007.

**Information:** <http://www.ualg.pt/fct/omgtp/>.

\* **8-21 37th Probability Summer School**, Saint-Flour, France.

**Speakers:** J. Buzzi, F. den Hollander, J. Mattingly.

**Information:** <http://math.univ-bpclermont.fr/stflour/>.

\* **16-19 Communicating Mathematics**, Duluth, Minnesota.

**Description:** A conference to inspire research productivity, collaborations, and enthusiasm among mathematicians in all areas, at all stages of their careers. This conference recognizes the 30th anniversary of the Duluth Research Experience for Undergraduates in mathematics and Joseph Gallian's 65th birthday.

**Invited Speakers:** Manjul Bhargava (Princeton University), Tim Chow (Center for Communications Research, Princeton), Ron Graham (UC, San Diego), Aparna Higgins (University of Dayton), Tara Holm (Cornell University), Nathan Kaplan (Princeton University), Dave Witte Morris (University of Lethbridge), David Moulton (Center for Communications Research, Princeton), Lenny Ng (Duke University), Francis Edward Su (Harvey Mudd College), Tad White (National Security Agency), Amie Wilkinson (Northwestern University).

**Information:** Please visit <http://events.olin.edu/CommunicatingMathematics/index.cfm>.

\* **19-22 Applications of Computer Algebra (ACA 2007)**, Oakland University, Rochester, Michigan.

**Theme:** The ACA series of conferences is devoted to promoting the applications and development of Computer Algebra and Symbolic Computation. Topics include computer algebra and symbolic computation in engineering, the sciences, medicine, pure and applied mathematics, education, communication and computer science.

**Topics:** Applications of computer algebra in enumerative and algebraic combinatorics, A. Tefera, M. Apagodu and M. Zeleke; Non-Standard Applications of Computer Algebra, E. Roanes-Lozano, M. Wester; Coding theory, D. Joyner, T. Shaska, C. Shor; Computer algebra in education, M. Beaudin, M. Wester, A. Akritas, B. Pletsch; Computational algebraic geometry, T. Shaska; Symbolic Symmetry Analysis and Its Applications. N. Bila; Algebraic and Numerical Computation for Engineering and Optimization Problems, D. Chibisov,

V. Ganzha, E. W. Mayr; Numerical Algebraic Geometry, C. Wampler, A. Sommese.

**Call for Sessions:** We are still accepting proposals to organize sessions at the conference. Session chairs are expected to organize 4 or more speakers on a theme consistent with that of the conference.

**Organizer:** Proposals for organizing a session should be directed to the Program Chair: Tony Shaska; [shaska@oakland.edu](mailto:shaska@oakland.edu).

**Local Organizers:** J. Nachman, T. Shaska; <http://www.oakland.edu/~shaska/aca07.html>. Note: This replaces the first call on [http://www.ams.org/mathcal/info/2007\\_aug3-6\\_rochester.html](http://www.ams.org/mathcal/info/2007_aug3-6_rochester.html).

\* **21-23 5th International Summer School and Workshop on Pattern Recognition: Call for Participation and Papers**, Plymouth, United Kingdom.

**Description:** The International Summer School on Pattern Recognition is the premier event on research training in the area of pattern recognition and machine learning. The school is fully residential and its registration includes all attendance, and living costs. The vision of the summer school is to empower its participants with the state-of-the-art techniques in pattern recognition and machine learning; to provide a deep understanding of how techniques work, their strengths and limitations, and the future of things to come in this field. Call for Papers and Participation: Starting from 2007, the summer school will include the International Workshop on Advances in Pattern Recognition (IWAPR). IWAPR will have the following characteristics: (a) The workshop is limited to summer school participants who must be one of the authors of the submitted research paper. (b) All submitted papers will be fully reviewed by 2 to 3 referees. All accepted papers will be published online and the best rated accepted papers will be published by Springer-Verlag in a book titled, 'Novel Advances in Pattern Recognition Theory and Applications': ISSPR/IWAPR Proceedings, 2007. (c) IWAPR accepted papers will be presented in poster sessions.

**Topics:** Statistical pattern recognition, Non- and semi-parametric pattern recognition, Evolutionary Computation and Optimisation, Classifiers and their Evaluation, Information Fusion, Applications.

**Deadlines:** Submission Deadline: March 15, 2007.

**Information:** For Summer school: <http://www.patternrecognitionsschool.com>. Workshop: <http://www.iwapr.org>.

\* **22-August 4 Biomedical Modeling and Cardiovascular-Respiratory Control: Theory and Practice**, Schloss Seggau, Leibnitz, (near Graz) Austria.

**Description:** To explore mathematical modeling techniques essential for studying human biomedical and clinical problems at primarily the organ and system level with an emphasis on control mechanisms and clinical problems arising from deficiencies in these control mechanisms. The event includes a 14 day summer school including 11 days of courses (July 22 to Aug. 1) after which the summer school participants attend a 3 day scientific workshop (Aug. 2 to Aug. 4) on the same scientific theme. The summer school component is aimed primarily toward Ph.D. students and new Post-Docs. The three day workshop will be a small scientific workshop which include presentations from approximately 16 additional scientists actively involved in research in the focus theme of the school allowing school participants to apply what they have learned and meet current researchers. Teachers of the summer school and other auditors at the workshop may attend as well.

**Organizers:** Mostafa Bachar, Jerry Batzel, and Franz Kappel, Institute for Mathematics and Scientific Computing, University of Graz, Austria.

**Information:** [http://www.uni-graz.at/mc\\_training\\_schools/graz/index.html](http://www.uni-graz.at/mc_training_schools/graz/index.html).

\* **30-August 4 On Certain L-functions**, Purdue University, West Lafayette, Indiana.

**Organizers:** James Arthur (Toronto), James Cogge (Ohio State), Stephen Gelbart (Weizmann Institute), Stephen Kudla (Toronto),

Dinakar Ramakrishnan (Caltech), and Peter Sarnak (Princeton). Local Organizers: David Goldberg (Purdue) and Jiu Kang Yu (Purdue).

**Information:** email: goldberg@math.purdue.edu.

### August 2007

\* 5–11 **Equadiff 2007**, Vienna University of Technology, Vienna, Austria.

**Topics:** The conference is devoted to all mathematical aspects of differential equations. Central themes are: ordinary differential equations, partial differential equations, delay equations, stochastic differential equations, dynamical systems, numerical analysis, computation and applications.

**Information:** <http://equadiff07.tuwien.ac.at>; email: info@equadiff07.tuwien.ac.at.

\* 6–10 **Enhancing the problem authoring capabilities of WeBWork**, AIM Research Conference Center, Palo Alto, California.

**Description:** This workshop, sponsored by AIM and the NSF, will be devoted to refining and enhancing the WeBWork problem authoring language by providing better macros, tools and examples for writing problems and at the same time making the language easier to use, learn, document, and maintain.

**Organizers:** David Cervone, Michael Gage, and Arnold Pizer.

**Deadline:** April 6, 2007.

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

\* 12–16 **Summer Symposium in Real Analysis XXXI**, Trinity College, Oxford, United Kingdom.

**Description:** The Mathematical Institute and Trinity College, Oxford and the *Real Analysis Exchange* will host the Summer Symposium in Real Analysis XXXI. An important aspect of the conference will be the interplay between classical real analysis and geometric measure theory. The program includes hour long talks by Giovanni Alberti (Pisa), Alexander Olevsikii (Tel Aviv) and David Preiss (Warwick). In addition to the principal lectures we have a number of slots set aside for twenty minute talks. Young researchers are particularly encouraged to present their work.

**Information:** For additional information and online registration see: <http://www.stolaf.edu/people/analysis>. Individual questions concerning conference details may be addressed to the Conference Director, Bernd Kirchheim at [kirchhei@maths.ox.ac.uk](mailto:kirchhei@maths.ox.ac.uk).

\* 19–25 **Loops'07**, Charles University, Prague, Czech Republic.

**Description:** Loops '07 aspires to become a forum for all aspects of loops and quasigroups. We intend not only to highlight new relevant results in algebra and geometry, but also to foster connections to combinatorics, cryptography and group theory. All manifestations of the quasigroup concept are welcome at the conference. There will be a Special Session on Cryptography.

**Workshops:** A series of lectures and seminars, called Workshops Loops '07, will be held immediately before the conference and is aimed at both active researchers and graduate students.

**Information:** <http://www.karlin.mff.cuni.cz/~loops07>.

\* 20–24 **Fourier analytic methods in convex geometry**, AIM Research Conference Center, Palo Alto, California.

**Description:** This workshop, sponsored by AIM and the NSF, concerns the interface between convex geometry and harmonic analysis. Particular attention will be given to applications of Fourier analysis to the study of sections and projections of convex bodies.

**Organizers:** Alexander Koldobsky, Dmitry Ryabogin, and Artem Zvavitch.

**Deadline:** April 20, 2007.

**Information:** Visit <http://aimath.org/ARCC/workshops/fourierconvex.html>.

\* 28–30 **2nd Regional Conference on Ecological and Environmental Modelling (ECOMOD 2007)**, Gurney Hotel, Penang, Malaysia.

**Objectives:** The objective of the conference is to give an opportunity to academicians, scientists, engineers and post-graduates to present the results of their research and development work as well as to share their experience in the use and development of ecological and environmental models. The scope of the conference encompasses the use of mathematical, statistical, computing, science and engineering techniques and concepts in ecological and environmental modelling. Topics to be addressed are: Environmental pollution and treatment; Flora & fauna diversity, population and habitat; Artificial intelligence-techniques and systems; Environmental engineering and technology; GIS, remote sensing and image processing; Mathematical modelling; other related fields.

**Important Dates:** Early Registration Deadline: May 30, 2007. Abstract Submission Deadline: April 30, 2007. Full paper Submission Deadline: August 28, 2007.

**Information:** For more information, please contact: The Secretariat (Att: Assoc. Prof. Dr. Ahmad Sofi man Othman), Ecological and Environmental Modelling (ECOMOD 2007), c/o School of Biological Sciences, Universiti Sains Malaysia, 11800 Pulau Pinang, Malaysia; email: [ecomod2007@usm.my](mailto:ecomod2007@usm.my); fax: 604-6565125.

### September 2007

\* 3–14 **Epidemiology & Control of Infectious Diseases: Introduction to mathematical models of global and emerging infections**, Imperial College, London, England.

**Description:** Our understanding of infectious-disease epidemiology and control has been greatly increased through mathematical modelling. Insights from this increasingly-important and exciting field are now informing policymaking at the highest levels, for pandemic influenza, SARS, HIV/AIDS, TB, malaria, foot-and-mouth disease and other infections. Participants need only a basic mathematical ability (high school level is more than sufficient): most course participants do not use maths regularly, and calculation is done using Excel and the user-friendly modelling package, Berkeley Madonna; hence manipulation of equations is not required. We offer an optional 'maths refresher' day on Sunday 2 September, free of charge.

**Information:** For further details visit the course website: <http://www.imperial.ac.uk/cpd/epidemiology/> which includes full information on how to apply for the course or contact Ulrika Wernmark, Centre for Professional Development, Imperial College London, South Kensington Campus, London SW7 2AZ, Tel: +44 (0)20 7594 6886.

\* 7–11 **KIAS Conference on Geometric Analysis**, KIAS, Seoul, Korea.

**Topics:** Minimal surfaces, constant mean curvature surfaces, Lagrangian submanifolds, Isoperimetric problems, Geometric measure theory, Geometric analysis and PDE's.

**Organizers:** Jaigyoung Choe (KIAS) and Richard Schoen (Stanford). **Invited Speakers:** Richard Schoen (Stanford), Robert Hardt (Rice), Motoko Kotani (Tohoku), Conan Leung (CUHK), Rafe Mazzeo (Stanford), Michael Wolf (Rice), Jon Wolfson (Michigan State), and more to be invited.

**Information:** <http://newton.kias.re.kr/~choe/cga.html>.

\* 10–14 **5th Symposium on Nonlinear Analysis**, Nicolaus Copernicus University, Torun, Poland.

**Scientific Committee:** Lech Górniewicz (chair), Jan Andres, Jurgen Appell, Thomas Bartsch, Kazimierz Goebel, Russel Johnson Wojciech Kryszewski, Wacaw Marzantowicz, Jean Mawhin Paolo Nistri, Zbigniew Peradzyński, Krzysztof Rybakowski Roman Srzednicki, Andrzej Szulkin, Andrzej Wiecek.

**Topics:** Topics in the topological and metric fixed point theory, Topological and variational methods in nonlinear analysis, Qualitative theory of ordinary and partial differential equations and inclusions, Nonsmooth and convex analysis, Critical point theory, Optimal control theory, Applications.

**Information:** <http://www-users.mat.uni.torun.pl/~sna2007/>;  
email: [sna2007@mat.uni.torun.pl](mailto:sna2007@mat.uni.torun.pl).

\*10–15 **10th Quantum Mathematics International Conference: QMath10**, Moeciu, Romania.

**Workshop Topics:** Schroedinger Operators & Inverse Scattering, Random Schroedinger Operators & Random Matrices, Quantum Field Theory & Relativistic Quantum Mechanics, Condensed Matter & Open Systems, Pseudodifferential Operators & Semiclassical Analysis, Quantum Information.

**Scientific Committee:** Yosi Avron (Haifa), Pavel Exner (Prague), Bernard Helffer (Paris), Ari Laptev (Stockholm), Gheorghe Nenciu (Bucharest), Heinz Siedentop (Muenchen).

**Organizers:** The SPECT Program of ESF: The Institute of Mathematics “Simion Stoilow” of the Romanian Academy.

**Plenary Speakers:** M. Esteban, F. Germinet, G.M. Graf, Ch. Hainzl, A. Joye, R. Killip, M. Loss, Ch. Maes, S. Popescu, R. Purice, P. Seba, R. Seiringer, S. Serfaty, R. Wedder, M. Zworski.

**Information:** Contact: [Radu.Purice@imar.ro](mailto:Radu.Purice@imar.ro); tel: +40-21-319.65.09; Institute of Mathematics “Simion Stoilow” of the Romanian Academy; P. O. Box 1-764, RO-014700 Bucharest; <http://www.imar.ro/~purice/QM10/QM10.html>.

\*24–29 **International Algebraic Conference dedicated to the 100th anniversary of D. K. Faddeev**, Euler International Mathematical Institute, St. Petersburg, Russia.

**Organizers:** St. Petersburg State University, St. Petersburg Dept. of the V. A. Steklov Inst. of Math. of the Russian Acad. of Sci., Euler International Math. Inst., Euler Foundation, St. Petersburg Math. Soc.

**Program Committee:** A. V. Yakovlev, S. V. Vostokov, N. A. Vavilov, A. I. Generalov, N. L. Gordeev.

**Information:** email: [novikova@pdmi.ras.ru](mailto:novikova@pdmi.ras.ru); <http://www.pdmi.ras.ru/EIMI/2007/DKF>.

### October 2007

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\*24–27 **Integers Conference 2007**, University of West Georgia, Carrollton, Georgia.

**Purpose:** The Integers Conference 2007 is an international conference in combinatorial number theory, held for the purpose of bringing together mathematicians, students, and others interested in combinatorics and number theory.

**Organizers:** B. Landman, M. Nathanson, J. Nešetřil, R. Nowakowski, C. Pomerance.

**Plenary Speakers:** George Andrews, Vitaly Bergelson, Bryna Kra, Florian Luca, Ken Ono, Van Vu.

**Information:** See <http://www.westga.edu/~math/IntegersConference2007.pdf>.

### December 2007

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\*10–12 **SIAM Conference on Analysis of Partial Differential Equations (PD07)**, Hilton Phoenix East/Mesa, Mesa, Arizona.

**Information:** The Call for Presentations for this conference is available at: <http://www.siam.org/meetings/pd07/>.

**Deadlines:** Minisymposium proposals: May 11, 2007. Abstracts for all contributed and minisymposium presentations: June 11, 2007.

**Information:** For additional information, contact SIAM Conference Department at email: [meetings@siam.org](mailto:meetings@siam.org).

\*10–14 **Triangulations, Heegaard splittings and hyperbolic geometry**, American Institute of Mathematics, Palo Alto, California.

**Description:** This workshop, sponsored by AIM and the NSF, will be devoted to the study of 3-manifolds via two new methods of decomposing them: efficient triangulations and Mom technology. These are reminiscent of the classical tools of triangulations and Heegaard splittings and one goal of the workshop is to draw connections amongst these four structures. Furthermore, we aim to

make connections between these decompositions and the geometry of the manifold.

**Organizers:** Jennifer Schultens and Maggy Tomova.

**Deadline:** August 1, 2007.

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

\*17–22 **Transformation Groups 2007**, Independent University of Moscow, Moscow, Russia.

**Description:** The conference is aimed to review the development of Transformation Group Theory during last decades, to present the most bright recent achievements in this area, and to discuss the perspectives of further research. The motivations for the conference are to gather researchers working on transformation groups in various areas of mathematics, in order to extend their ideas and methods to a broader context and to provide an opportunity for a broad discussion and exchange of ideas and experience between mathematicians from various countries and of different generations. The conference will be dedicated to the anniversary of Ernest Vinberg, who will become seventy in the summer of 2007.

**Invited speakers:** Dmitri N. Akhiezer, Dmitri V. Alexeevsky, Leonid A. Bokut, Michel Brion, Victor M. Buchstaber, Corrado De Concini, Michel Duflo, Alexander G. Elashvili, Victor M. Gichev, Simon G. Gindikin, Victor A. Ginzburg, Victor G. Kac, Alexandre A. Kirillov, Friedrich Knop, Bertram Kostant, Hanspeter Kraft, Shrawan Kumar, Peter Littelmann, Alex Lubotzky, Dominique Luna, Alexander D. Mednykh, Vladimir F. Molchanov, Grigori I. Olshanski, Arkadiy L. Onishchik, Alexander N. Panov, Dmitri I. Panyushev, Alexey N. Parshin, Vladimir L. Popov, M. S. Raghunathan, Osip V. Shvartsman, Tonny A. Springer, Irina D. Suprunenko, Jacques L. Tits, Nikolai A. Vavilov, Anatoly M. Vershik, Andrei Yu. Vesnin, Valentin E. Voskresensky.

**Deadlines:** For registration: September 15, 2007. For abstracts submission: October 15, 2007.

**Information:** Visit <http://www.mccme.ru/tg2007/>;  
email: [tg2007@mccme.ru](mailto:tg2007@mccme.ru).