
Mathematics Calendar

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

December 2007

1 National Conference on Technology and Innovation in Mathematics Education, IIT Bombay, Mumbai, India. (Sept. 2007, p. 1070)

3-7 Rigidity and polyhedral combinatorics, American Institute of Mathematics, Palo Alto, California. (Jun/Jul 2007, p. 782)

7-11 Fourth Pacific Rim Conference on Mathematics: Celebrating the Tenth Anniversary of the Liu Bie Ju Centre for Mathematical Sciences, City University of Hong Kong, Hong Kong. (Jan. 2007, p. 64)

10-12 SIAM Conference on Analysis of Partial Differential Equations (PD07), Hilton Phoenix East/Mesa, Mesa, Arizona. (Apr. 2007, p. 560)

10-14 Triangulations, Heegaard splittings and hyperbolic geometry, American Institute of Mathematics, Palo Alto, California. (Apr. 2007, p. 560)

11-14 Workshop on Chaos and Ergodicity of Realistic Hamiltonian Systems, Centre de recherches mathématiques, Université de Montréal, Montréal, Québec, Canada. (Jun/Jul 2007, p. 782)

12-15 First Joint International Meeting between the AMS and the New Zealand Mathematical Society (NZMS), Wellington, New Zealand. (Jun/Jul. 2006, p. 714)

***12-15 Winter School "Geometric group theory"**, Georg-August Universität at Göttingen Mathematical Institute, Göttingen, Germany.

Description: Geometric group theory studies infinite (discrete) groups from the point of view of their geometric properties. A particularly interesting class of groups are those which share

some aspects of negative curvature. Martin Bridson will give an introduction into some of the newer developments in this direction, studying, in particular, special properties of groups which act on spaces of non-positive curvature. Automorphism groups of free groups do not quite have negative curvature, but other methods from low-dimensional topology are available to study these groups and, in particular, their cohomology. This will be discussed by Karen Vogtman. A class of groups with rather different properties are the self-similar ones. Laurent Bartholdi will introduce us to tools to study these groups, coming from finite-state automata and actions on trees, and relate them to negatively curved group by explaining exciting CAT(0)-groups constructed that way by Burger and Mozes.

Information: <http://www.uni-math.gwdg.de/GeoGT/>.

15-17 First Announcement and Call for Papers: The Eighth Asian Symposium on Computer Mathematics (ASCM 2007), National University of Singapore, Singapore. (Jun/Jul 2007, p. 782)

15-17 International Symposium on Recent Advances in Mathematics & Its Applications (ISRAMA 2007), Calcutta, India. (Jun/Jul 2007, p. 782)

16-20 The Twelfth Asian Technology Conference in Mathematics (ATCM2007), Taipei, Taiwan. (Mar. 2007, p. 441)

17-19 The 3rd Indian International Conference on Artificial Intelligence (IICAI-07), Pune, India. (Jun/Jul 2007, p. 782)

17-22 Transformation Groups 2007, Independent University of Moscow, Moscow, Russia. (Apr. 2007, p. 560)

19-22 International Conference on Advances in Mathematics: Historical Developments & Engineering Applications, Indian

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/>.

Society for History of Mathematics and G. B. Pant University at Pant Nagar, India. (Nov. 2007, p. 1402)

30-January 4 **Conference on Representations of Algebras, Groups and Semigroups**, Bar-Ilan University, Ramat-Gan, Israel and the Netanya Academic College, Netanya, Israel. (Jun/Jul 2007, p. 782)

January 2008

1-March 31 **DocCourse in Combinatorics and Geometry: Additive Combinatorics**, Centre de Recerca Matemàtica, Bellaterra, Italy. (Oct. 2007, p. 1189)

2-4 **Tenth International Symposium on Artificial Intelligence and Mathematics (ISAIM 2008)**, Fort Lauderdale, Florida. (Oct. 2007, p. 1189)

6-9 **Joint Mathematics Meetings**, San Diego, California. (Jun/Jul 2007, p. 782)

6-13 **1st Odense Winter School on Geometry and Theoretical Physics**, University of Southern Denmark, Campusvej 55, DK-5230, Odense M, Denmark. (Nov. 2007, p. 1403)

* 7-11 **Scientific Computing Applications in Surgical Simulation of Soft Tissues**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California.

Description: Scientific Overview: In this short course, we will be investigating the most promising directions for algorithm design, use of architectures, surgical simulation interface design and procedures that lend themselves to simulation by encouraging interdisciplinary cooperation between medicine, engineering, applied math and computer science.

Organizing Committee: Court Cutting, Dwight Meglan, Silvia Salinas-Blemker, Joseph Teran.

Application/Registration: An application/registration form is available at: <http://www.ipam.ucla.edu/programs/vs2008/>. The application is for people requesting financial support to attend the workshop. If you don't intend to do this, you may simply register. Applications received by November 26, 2007 will receive fullest consideration. Encouraging the careers of women and minority mathematicians and scientists is an important component of IPAM's mission and we welcome their applications.

Information: email: sbeggs@ipam.ucla.edu; <http://www.ipam.ucla.edu/programs/vs2008/>.

7-27 **Data-driven and Physically-based Models for Characterization of Processes in Hydrology, Hydraulics, Oceanography and Climate Change**, Institute for Mathematical Sciences, National University of Singapore, Singapore. (Nov. 2007, p. 1403)

7-June 27 **Statistical Theory and Methods for Complex, High-Dimensional Data**, Isaac Newton Institute for Mathematical Sciences, Cambridge, United Kingdom. (Jun/Jul. 2006, p. 714)

10-11 **IMA Tutorial: Mathematics of Proteins**, University of Minnesota, Minneapolis, Minnesota. (Dec. 2006, p. 1381)

10-13 **First Announcement for Thirteenth Annual Conference and First International Conference of Gwalior Academy of Mathematical Sciences (GAMS) with Symposium on Mathematical Modeling in Engineering and Biosciences**, Anand Engineering College, Agra, U.P. India. (Aug. 2007, p. 918)

14-18 **IMA Workshop: Protein Folding**, University of Minnesota, Minneapolis, Minnesota. (Dec. 2006, p. 1381)

14-18 **The uniform boundedness conjecture in arithmetic dynamics**, American Institute of Mathematics, Palo Alto, California. (May 2007, p. 666)

* 14-18 **Workshop on Random Walks, Particle Systems and Random Media**, Facultad de Matematicas, Pontificia Universidad Catolica de Chile, Santiago, Chile.

Description: The meeting will bring together mathematicians and mathematical-physicists working in the areas of random media, particle systems, random walks and reaction-diffusion equations.

Organizers: Alejandro Ramirez and Vlas Sidoravicius.

Sponsors: Pontificia Universidad Catolica de Chile, National Science Foundation-PIRE, Nucleo Milenio.

Information: <http://workshop2008.mat.puc.cl>.

14-July 4 **Combinatorics and Statistical Mechanics**, Isaac Newton Institute for Mathematical Sciences, Cambridge, United Kingdom. (Dec. 2006, p. 1381)

20-22 **ACM-SIAM Symposium on Discrete Algorithms (SODA08)**, Holiday Inn Golden Gateway, San Francisco, California. (Jun/Jul 2007, p. 782)

* 21-24 **Conference in Geometric Analysis**, Institute of Mathematics, University of Bern, Bern, Switzerland.

Description: The main scope of the conference is presenting the recent development in the area of geometric analysis and its applications. Topics of interest include analysis on Carnot-Carathéodory spaces, calculus of variations, geometric measure theory and partial differential equations.

Sponsors: The conference is sponsored by the EU project GALA (Geometric Analysis on Lie Groups and Applications) and the ESF project HCAA (Harmonic and Complex Analysis and its Applications).

Information: <http://www.geoan.unibe.ch>.

* 28-February 1 **Holomorphic partial differential equations, small divisors and summability**, CIRM, Marseilles, France.

Description: We aim to bring together mathematicians working in holomorphic dynamics or PDEs/functional equations, at a time when important questions and methods in these domains appear to be increasingly interrelated.

Themes: The themes covered will include (i) holomorphic PDE's, obstruction to holomorphy of solutions, (ii) dynamics of non-linear PDE's and their geometric features, (iii) Gevrey solutions, summability of divergent series, Stokes phenomena, (iv) small divisors phenomena, and (v) exact WKB analysis.

Information: http://www.cirm.univ-mrs.fr/web.ang/liste_rencontre/Rencontres2008/Renc309/Renc309.html.

28-February 1 **Image Analysis Challenges in Molecular Microscopy**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California. (Aug. 2007, p. 918)

February 2008

* 1-June 15 **ESI Programme on "Combinatorics and Statistical Physics"**, The Erwin Schrödinger International Institute for Mathematical Physics, Vienna, Austria.

Description: The research programme's aim is to bring together researchers from, essentially, three communities from mathematics and physics: (1) Enumerative Combinatorics; (2) Analytic Combinatorics; (3) Statistical Physics, in order to intensify the fruitful interactions between the researchers in these and related communities which have become more and more frequent in the recent past. A Workshop on "Combinatorics and Statistical Physics" will take place May 18-31, 2008.

Organizers: Mireille Bousquet-Mélou (Université Bordeaux 1), Michael Drmota (Vienna University of Technology), Christian Krattenthaler (University of Vienna), Bernard Nienhuis (University of Amsterdam).

Information: <http://www.mat.univie.ac.at/~kratt/esi/>.

* 4-8 **Conference on Perspectives in Mathematical Sciences**, Indian Statistical Institute, Bangalore, India.

Description: The Theoretical Statistics and Mathematics Unit of the Indian Statistical Institute, Bangalore Centre, is organizing a 5 day Conference on "Perspectives in Mathematical Sciences" during February 4-8, 2008. This is the Platinum Jubilee year of the Indian

Statistical Institute. The idea is to bring in distinguished scientists to give the perspectives of current research and the directions for further research in the area of their expertise. We plan to publish the Proceedings of this Conference.

Contact: To participate in the Conference, please contact Prof. N. S. Narasimha Sastry by email (cpms@isibang.ac.in). After receiving the acceptance from us to you to participate in this Conference, kindly send a Demand Draft for Rs.1,000/- (Rupees One thousand only) towards the registration fee drawn in favour of the Indian Statistical Institute, Bangalore Centre.

4-14 Advanced Course on Simplicial Methods in Higher Categories, Centre de Recerca Matemàtica, Bellaterra, Italy. (Oct. 2007, p. 1190)

* **6-12 Workshop on Geometry and Integrability**, Melbourne, Australia.

Description: The aim of this workshop is to investigate interactions between two- and three-dimensional integrable lattice models and geometry and topology. This meeting will feature lecture series on 6, 7, and 8 February, and contributed talks by participants on 11 and 12 February. The lecture series are designed to range from an introductory and elementary level to a more advanced treatment.

Information: email: degier@ms.unimelb.edu.au; <http://www.ms.unimelb.edu.au/~degier/GandI08.php>.

11-15 Expanders in Pure and Applied Mathematics, Institute for Pure and Applied Math (IPAM), UCLA, Los Angeles, California. (Nov. 2007, p. 1403)

12-16 Foundations of Lattice-Valued Mathematics with Applications to Algebra and Topology, Linz, Austria. (Oct. 2007, p. 1190)

18-22 Workshop on Algorithms (part of thematic programme Algorithms: New Directions and Applications), Crown Hotel, Napier, New Zealand. (Nov. 2007, p. 1403)

* **21-22 February Fourier Talks 2008**, University of Maryland, College Park, Maryland.

Description: The two-day February Fourier Talks, organized by the Norbert Wiener Center in the Department of Mathematics at the University of Maryland, College Park, feature a diverse array of invited talks in the field of Harmonic Analysis and Applications. A single track of presentations from top academic, industry, and government researchers is scheduled, allowing ample time for interaction with other participants. FFT 2008 will take place February 21-22, in the Department of Mathematics at Maryland, with talks to run all day Thursday and Friday. Thursday evening will end with a keynote address by Peter Carr (Bloomberg; Courant), followed by light dinner and drinks for all participants and friends of the Norbert Wiener Center. A colloquium talk will be given on Friday afternoon by Victor Wickerhauser (Wash U).

Information: <http://www.norbertwiener.umd.edu/FFT/FFT08>.

* **25-29 Graph Cuts and Related Discrete or Continuous Optimization Problems**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California.

Scientific Overview: The aim of the workshop is to put together mathematicians and computer scientists interested in graph cuts (or network flows) to build a bridge between important classes of discrete and continuous optimization problems. The workshop will cover both theoretical/mathematical aspects, as well as algorithms and applications in computer vision and image processing.

Organizing Committee: Yuri Boykov, Daniel Cremers, Jerome Darbon, Hiroshi Ishikawa, Vladimir Kolmogorov, Stanley Osher.

Application/Registration: An application/registration form is available at: <http://www.ipam.ucla.edu/programs/gc2008/>. The application is for people requesting financial support to attend the workshop. If you don't intend to do this, you may simply register. Applications received by January 14, 2008, will receive

fullest consideration. Encouraging the careers of women and minority mathematicians and scientists is an important component of IPAM's mission and we welcome their applications.

Information: <http://www.ipam.ucla.edu/programs/gc2008/>.

* **25-29 International School on Geometry and Physics: Moduli Spaces in Geometry, Topology and Physics**, International Center of Mathematical Meetings, Castro Urdiales, Cantabria, Spain.

Description: The purpose of this school is to introduce graduate students and postdocs to active fields in the theory of moduli spaces and their interplay with geometry, topology and theoretical physics.

Program: The school will consist of 5 introductory courses: Higgs Bundles (by P. Gothen, Univ. Porto), Tilings, Dimers and Quiver Gauge Theories (by A. Hanany, Imperial College and Technion), Derived Categories (by A. King, Univ. Bath), A Hitchin-Kobayashi Correspondence for Higgs Bundles (by I. Mundet i Riera, Univ. Barcelona), Geometric Invariant Theory and Moduli Spaces (by A. Schmitt, Freie Univ. Berlin). There will also be a special lecture: The Geometric Langlands Programme (by Tomas Gomez, CSIC Madrid).

Information: Registration period: November 1-December 31, 2007. Organizing Committee: L. Alvarez-Consul (CSIC Madrid, Chairman), M. Fernandez (Univ. Pais Vasco), O. Garcia-Prada (CSIC Madrid), D. Hernandez Ruiperez (Univ. Salamanca), R. M. Miro-Roig (Univ. Barcelona), Vicente Munoz (CSIC Madrid).

March 2008

2-7 IX International Conference "Approximation and Optimization in the Caribbean", Sunrise Beach Hotel, San Andres Island, Colombia. (Jun/Jul 2007, p. 782)

3-7 IMA Workshop: Organization of Biological Networks, University of Minnesota, Minneapolis, Minnesota. (Dec. 2006, p. 1381)

9-12 LUMS 2nd International Conference on Mathematics and its Applications in Information Technology 2008, Lahore University of Management Sciences (LUMS), Lahore, Pakistan. (Sept. 2007, p. 1073)

10-June 13 Optimal Transport (Long Program), UCLA, Los Angeles, California. (Jun/Jul 2007, p. 983)

* **12-14 International Workshop Moduli spaces of Vector Bundles: Algebro-Geometric Aspects**, Universitat de Barcelona, Barcelona, Spain.

Description: There will be a set of lectures offered by leaders in the field and designed to discuss on current research in theory of moduli spaces of vector bundles, both from the algebraic and geometric point of view. The list of confirmed speakers includes: L. Álvarez-Cónsul, O. Biquard, C. Brambilla, D. Faenzi, M. Lehn, C. Lopez, G. Ottaviani, A. Schmitt, C. Sorger, M. Teixidor, G. Trautmann, A. Werner (TBC).

Information: <http://www.mat.csic.es/webpages/moduli2008/ub/>.

12-19 Advanced Course on Geometric Flows and Hyperbolic Geometry, Centre de Recerca Matemàtica, Bellaterra, Italy. (Oct. 2007, p. 1190)

13-15 The 42nd Annual Spring Topology and Dynamical Systems Conference, The University of Wisconsin Milwaukee, Milwaukee, Wisconsin. (Nov. 2007, p. 1403)

15-16 AMS Eastern Section Meeting, Courant Institute of New York University, New York, New York. (Jun/Jul 2007, p. 983)

17-21 Nonlinear PDEs of mixed type arising in mechanics and geometry, American Institute of Mathematics, Palo Alto, California. (Jun/Jul 2007, p. 983)

19-21 The IAENG International Conference on Operations Research 2008, Regal Kowloon Hotel, Kowloon, Hong Kong. (Jun/Jul 2007, p. 983)

28–29 **The 34th Annual New York State Regional Graduate Mathematics Conference**, Syracuse University, Syracuse, New York. (Nov. 2007, p. 1403)

28–30 **AMS Southeastern Section Meeting**, Louisiana State University, Baton Rouge, Louisiana. (Jun/Jul 2007, p. 983)

31–April 2 **SIAM International Conference on Numerical Combustion (NC08)**, Portola Plaza at Monterey Bay, Monterey, California. (Sept. 2007, p. 1074)

31–April 4 **Applications of universal algebra and logic to the constraint satisfaction problem**, American Institute of Mathematics, Palo Alto, California. (Jun/Jul 2007, p. 783)

*31–April 4 **Aspects of Optimal Transport in Geometry and Calculus of Variations**, Institute for Pure and Applied Mathematics, UCLA, Los Angeles, California.

Description: This workshop will be devoted to the interplay between the theory of optimal transport, geometrical inequalities and nonlinear partial differential equations. Specific topics will include optimization and evolution problems arising in geometry, urban planning, mathematical biology, kinetic theory, and fluid flows. A major emphasis will be pinpointing new research directions and applications.

Organizing Committee: Wilfrid Gangbo, Luigi Ambrosio, Yann Brenier, José Carrillo, and Craig Evans.

Application/Registration: An application/registration form is available at: <http://www.ipam.ucla.edu/programs/otws1/>. Applications received by February 18, 2008 will receive fullest consideration. Encouraging the careers of women and minority mathematicians and scientists is an important component of IPAM's mission and we welcome their applications. You may also simply register and attend the workshop without IPAM funding.

Information: <http://www.ipam.ucla.edu/programs/otws1/>.

31–April 5 **International Workshop on Multi-Rate Processes and Hysteresis MURPHYS2008**, University College Cork, Cork, Ireland. (Nov. 2007, p. 1404)

April 2008

4–6 **AMS Central Section Meeting**, Indiana University, Bloomington, Indiana. (Jun/Jul 2007, p. 783)

11–13 **The Eleventh Rivi re-Fabes Symposium on Analysis and PDE**, University of Minnesota, Minneapolis, Minnesota. (Nov. 2007, p. 1404)

*14–18 **Numerics and Dynamics for Optimal Transport**, Institute for Pure and Applied Mathematics, UCLA, Los Angeles, California.

Description: The purpose of this workshop is to bring together a diverse group of mathematicians and other scientists to discuss dynamical and numerical aspects of optimal transport.

Organizing Committee: Yann Brenier, Karl Glasner, Allen Tannenbaum, and Richard Tsai.

Application/Registration: An application and registration form is available at <http://www.ipam.ucla.edu/programs/otws2/>. Applications received by March 3, 2008 will receive fullest consideration. Encouraging the careers of women and minority mathematicians and scientists is an important component of IPAM's mission and we welcome their applications. You may also simply register and attend without IPAM funding.

Information: <http://www.ipam.ucla.edu/programs/otws2/>.

17–18 **IMA Workshop: Network Dynamics and Cell Physiology**, University of Minnesota, Minneapolis, Minnesota. (Dec. 2006, p. 1381)

21–25 **IMA Workshop: Design Principles in Biological Systems**, University of Minnesota, Minneapolis, Minnesota. (Dec. 2006, p. 1381)

24–26 **SIAM International Conference on Data Mining**, Hyatt Regency Hotel, Atlanta, Georgia. (Oct. 2007, p. 1190)

28–May 9 **NATO Advanced Study Institute, New Challenges in Digital Communications**, Vlora, Albania. (Sept. 2007, p. 1074)

May 2008

3–4 **AMS Western Section Meeting**, Claremont McKenna College, Claremont, California. (Jun/Jul 2007, p. 783)

*5–9 **Percolation on transitive graphs**, American Institute of Mathematics, Palo Alto, California.

Description: Geometric properties of Cayley graphs often turn out to have counterparts in the probabilistic world, and vice versa, but the translations between the different viewpoints are not always trivial. The aim of this workshop is to bring together people working in geometric group theory, probability and dynamics to learn from each other about the relevant techniques in these fields and thus generate new momentum to solve some of the persistent open problems. This workshop will be devoted to percolation on transitive graphs, most importantly, on Cayley graphs of finitely generated infinite groups.

Organizers: Gabor Pete and Mark Sapir.

Sponsors: AIM and the NSF.

Deadline: February 1, 2008.

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

*5–9 **Topics in PDEs and Applications 2008**, Universitat Polit cnica de Catalunya, Barcelona, Spain.

Co-ordinators: Xavier Cabr , Universitat Polit cnica de Catalunya; Juan Soler, Universidad de Granada.

Speakers: Henri Berestycki, EHESS-Paris; Haim Brezis, Universit  P. et M. Curie and Rutgers University; Carlos Kenig, University of Chicago; Robert Kohn, Courant Institute, New York University; Gan Tian, Princeton University.

Information: http://www.crm.cat/pde2_2008.

5–June 27 **Mathematical Imaging and Digital Media**, Institute for Mathematical Sciences, National University of Singapore, Singapore. (Nov. 2007, p. 1404)

10–13 **SIAM Conference on Optimization**, Boston Park Plaza Hotel and Towers, Boston, Massachusetts. (Oct. 2007, p. 1190)

11–14 **SIAM Conference on Mathematical Aspects of Materials Science (MS08)**, Doubletree Hotel Philadelphia, Philadelphia, Pennsylvania. (Sept. 2007, p. 1074)

11–16 **CHT-08: Advances in Computational Heat Transfer**, Kenzi Farah Hotel, Marrakech, Morocco. (Jun/Jul 2007, p. 783)

12–16 **Ferroelectric Phenomena in Soft Matter Systems**, American Institute of Mathematics, Palo Alto, California. (Jun/Jul 2007, p. 783)

13–17 **Spectral geometry and related topics**, University of Potsdam, Germany. (Nov. 2007, p. 1404)

*15–17 **GESTA 2008**, Universitat Polit cnica de Catalunya, Barcelona, Spain.

Co-ordinators: Jaume Amor s, Universitat Polit cnica de Catalunya; Eva Miranda, Universitat Aut noma de Barcelona; Ignasi Mundet, Universitat Polit cnica de Catalunya.

Speakers: To be announced.

Information: <http://www.crm.cat/GESTA>.

15–17 **Twelfth International Conference Devoted to the Memory of Academician Mykhailo Kravchuk (Krawtchouk) (1892–1942)**, Kyiv, Ukraine. (Jun/Jul 2007, p. 783)

18–21 **The 7th AIMS International Conference on Dynamical Systems, Differential Equations and Applications**, University of Texas at Arlington, Arlington, Texas. (May 2007, p. 666)

*19–23 **Optimal Transport in the Human Body: Lungs and Blood**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California.

Description: This workshop will bring together experts, postdocs and students with research interests in the respiratory and cardiovascular systems, as well as in optimal transport. It will allow participants from a variety of fields to gain a perspective of cross-disciplinary aspects of the same fundamental topic and provide an opportunity to establish new research collaborations.

Organizing Committee: Suncica Canic, Denis Grebenkov, Bertrand Maury, Anne Marie Robertson.

Application/Registration: An application/registration form is available at: <http://www.ipam.ucla.edu/programs/otws4/>. The application is for people requesting financial support to attend the workshop. If you don't intend to do this, you may simply register. Applications received by April 7, 2008 will receive fullest consideration. Encouraging the careers of women and minority mathematicians and scientists is an important component of IPAM's mission and we welcome their applications.

Information: <http://www.ipam.ucla.edu/programs/otws4/>.

19–24 Lie Theory and Geometry: The Mathematical Legacy of Bertram Kostant, Pacific Institute of Mathematical Sciences, Vancouver, Canada. (Nov. 2007, p. 1404)

26–30 ICCA8: 8th International Conference on Clifford Algebras and their Applications in Mathematical Physics, UNICAMP, Campinas, Brazil. (Nov. 2007, p. 1404)

* **26–30 The International Conferences: Inverse Problems: Modeling and Simulation**, Oludeniz-Fethiye, Turkey.

Description: The main aim of these conferences is to bring together all classical and new inverse problems from international scientific schools, and to discuss new challenges of inverse problems in current interdisciplinary science and future directions. All these International Conferences are organized under the auspices of the leading international journals *Inverse Problems*, *Inverse Problems in Science and Engineering* and *Inverse and Ill-Posed Problems*.

Organizers: The organizers of the conference, in particular the Oludeniz Municipality, are putting together an excellent social program consisting of tours to historic places and boat rides. The Conference is also sponsored by the Scientific and Technological Research Council of Turkey (TUBITAK), the International Association formed by the European Community, for the Promotion of Co-operation with Scientists from the New Independent States of the Former Soviet Union (INTAS).

Information: <http://www.ipms-conference.org/>.

26–30 IMA Workshop: Quantitative Approaches to Cell Motility and Chemotaxis, University of Minnesota, Minneapolis, Minnesota. (Dec. 2006, p. 1381)

26–30 Spring school in nonlinear partial differential equations, Université catholique de Louvain, Louvain-La-Neuve, Belgium. (Sept. 2007, p. 1074)

* **29–31 Brownian Motion and Random Walks in Mathematics and in Physics**, Institut de Recherche Mathématique Avancée (Université Louis Pasteur), Strasbourg, France.

Confirmed Speakers: A. Comtet (Univ. Paris VI); F. Debbasch (Univ. Paris VI); F. Den Hollander (Math. Institute, Leiden); B. Duplantier (CEA, Saclay); V. Kaimanovitch (Jacobs Univ. Bremen); T. Lévy (Ecole Normale Supérieure, Paris); K. Schmidt (Erwin Schroedinger Institute, Wien); W. Werner (Univ. Paris Sud, Orsay).

Information: Consult the URL page and/or contact the organizers: Jacques Franchi (franchi@math.u-strasbg.fr) and Athanasios Papadopoulos (papadop@math.u-strasbg.fr) URL: <http://www-irma.u-strasbg.fr/article545.html>.

June 2008

4–7 First Joint International Meeting with the Sociedade Brasileira de Matematica, Instituto Nacional de Matematica Pura e Aplicada (IMPA), Rio de Janeiro, Brazil. (Jun/Jul 2007, p. 784)

* **6–10 International Conference on Discrete Mathematics-ICDM 2008**, University of Mysore, Mysore, India.

Description: ICDM 2008 is being organized jointly by ADMA (Academy of Discrete Mathematics), SRCIIDMS (Srinivasa Ramanujan Center for Intensification of Interdisciplinary Interaction in Discrete Mathematical Sciences, Mysore) and University of Mysore. The Academic Program will consist of plenary talks, other invited talks and poster presentations. Plenary talks will be given by Mike Fellows (Australia), Herbert Fleischner (Austria), Steve Hedetniemi(USA), Sandi Klavzar (Slovenia) and Xuding Zhu (Taiwan). There will be 30 other invited talks by leading discrete mathematicians of the world. Interested persons, both from within India and abroad, are welcome to register as participants. Notes of the lectures of all the invited speakers will be provided at the time of the conference. Refereed Proceedings of the conference will be published by March 2009.

Information: <http://www.adma.co.in> (or) ICDM 2008 through Google

* **9–13 Free Boundary Problems, Theory and Applications, 2008**, KTH, Stockholm, Sweden.

Description: Next year the meeting will take place in Stockholm. The meeting is, by now, a traditional event that gathers most people within the field of free boundary problems. The meeting will be held June 9–13, 2008, and will bring experts from the field of Partial Differential Equations, who are specialists in free boundary problems.

Information: <http://www.math.kth.se/FBP08/>.

9–13 12th International Conference on Hyperbolic Problems: Theory, Numerics, Applications, University of Maryland, College Park, Maryland. (Jun/Jul 2007, p. 784)

* **9–13 FVCA5 5th International Symposium on Finite Volumes for Complex Applications Problems and Perspectives**, Aussois, Savoie, France.

Description: The goal of the symposium is to bring together mathematicians, physicists and engineers who are concerned with Finite Volume Techniques in a wide context. Examples for the broad field of applications are fluid dynamics, magnetohydrodynamics, structural analysis or nuclear physics. A closer look reveals many interesting phenomena and mathematical or numerical difficulties, such as true error analysis and adaptivity, modelling of multi-phase phenomena or fitting problems, stiff terms in convection/diffusion equations and sources. New ideas may be presented, even if they have not yet shown full success. The demonstration of limits or drawbacks of methods is explicitly welcome. Contributions may put main emphasis on theoretical as well as applied topics. Most welcome are contributions, concerned with unsolved or not yet fully solved problems and possible new attempts.

Information: <http://www.latp.univ-mrs.fr/fvca5/>.

9–19 Advances in Set-Theoretic Topology: Conference in Honour of Tsugunori Nogura on his 60th Birthday, Centre for Scientific Culture "Ettore Majorana", Erice, Sicily, Italy. (Jun/Jul 2007, p. 784)

* **9–20 Parallel Numerical Methods for Partial Differential Equations**, University of Wyoming, Laramie, Wyoming.

Purpose: To bring participants to a good understanding of the numerical methods presently in use for the solution of partial differential equations and have on-hand experience with their implementation in a modern computer environment. Emphasis will be put on high-order accurate methods for time-dependent problems such as Spectral Element and Discontinuous Galerkin methods. Applications include numerical solution of fluid flow equations, electromagnetic wave propagation and weather and climate prediction.

Speakers: Jan Hesthaven (Brown University), Henry Tufo (Colorado University Boulder and National Center for Atmospheric Research) and Tim Warburton (Rice University).

Sponsors: Rocky Mountain Mathematics Consortium. IMA and NSF Funding pending.

Deadline: For application/abstracts of talks: April 1, 2008.

Organizers: D. Stanescu and A.D. Porter (U. of Wyoming).

Information: D. Stanescu, Department of Mathematics, University of Wyoming, Laramie WY 82071; email: stanescu@uwyo.edu; http://www.uwyo.edu/rmmc_2008.

* 16–22 **CRM-CIM Workshop GAP VI: Workshop on Geometry and Physics**, Universitat Politècnica de Catalunya, Barcelona, Spain.

Co-ordinators: Rui Loja, Instituto Superior Técnico, Lisboa; Eva Miranda, Universitat Autònoma de Barcelona.

Speakers: Yves Colin de Verdière, Institut Fourier; Johannes Duistermaat, Universiteit Utrecht; Hakan Eliasson, Institut de Mathématiques de Jussieu; Rahul Pandharipande, Princeton University.

Information: <http://www.crm.cat/GAPVI>.

17–20 **4th Croatian Mathematical Congress**, Department of Mathematics, University of Osijek, Osijek, Croatia. (Jun/Jul 2007, p. 784)

17–22 **Differential Equations and Topology**, Lomonosov Moscow State University, Moscow, Russia. (Nov. 2007, p. 1404)

18–21 **Conference on Algebra and its Applications, in honor of S. K. Jain's 70th birthday**, Ohio University, Athens, Ohio. (Nov. 2007, p. 1404)

22–28 **Combinatorics 2008**, Costermano, Verona, Italy. (Sept. 2007, p. 1075)

23–27 **Hermitian Symmetric Spaces, Jordan Algebras and Related Problems**, CIRM Luminy, Marseille, France. (Jun/Jul 2007, p. 784)

23–27 **Homotopical Group Theory and Topological Algebraic Geometry**, Max Planck Institute for Mathematics, Bonn, Germany. (Oct. 2007, p. 1190)

* 23–28 **Conference on Moment Maps**, Universitat Politècnica de Catalunya, Barcelona, Spain.

Co-ordinators: Rui Loja, Instituto Superior Técnico, Lisboa; Eva Miranda, Universitat Autònoma de Barcelona.

Speakers: To be announced.

Information: <http://www.crm.cat/GAPVI>.

25–27 **ICNPAA 2008: Mathematical Problems in Engineering, Aerospace and Sciences [Theory, Methods (includes Experimental, Computational) and Applications]**, University of Genoa, Italy. (Jun/Jul 2007, p. 784)

29–July 4 **IWASAWA 2008**, Kloster Irsee, Germany. (Jun/Jul 2007, p. 784)

* 30–July 3 **Analysis, PDEs and Applications. On the occasion of the 70th birthday of Vladimir Maz'ya**, INDAM (Istituto Nazionale di Alta Matematica “Francesco Severi”) - Università degli Studi di Roma “La Sapienza”, Roma, Italy.

Topics: Linear and non-linear PDEs, Asymptotic and numerical methods for PDEs including homogenization and boundary elements, Spectral theory, Harmonic Analysis, Approximation theory, Wavelets, Elasticity Theory, Function Spaces, Ill-posed problems, Non-linear potential theory, Fluid Mechanics, History of Mathematics.

Information: <http://www.mat.uniroma1.it/~mazya08/>.

30–July 4 **ICMI/IASE Study: Statistics Education in School Mathematics: Challenges for Teaching and Teacher Education**, ITESM, Monterrey, Mexico. (Dec. 2006, p. 1381)

* 30–July 5 **HOCAT 2008: Homotopy Structures in Geometry and Algebra; Derived Categories, Higher Categories**, Universitat Politècnica de Catalunya, Barcelona, Spain.

Co-ordinators: Carles Casacuberta, University de Barcelona; Joachim Kock, Universitat Autònoma de Barcelona.

Speakers: John Baez, University of California at Riverside; Paul Balmer, ETH Zürich; Dave Benson, University of Aberdeen; Tom Bridgeland, University of Sheffield; Soren Galatius, Stanford University; Ezra Getzler, Northwestern University; Mikhail Kapranov, Yale University; Jacob Lurie, Harvard University; Haynes Miller, Massachusetts Institute of Technology; Raphaël Rouquier, University of Oxford; Bertrand Toën, Université Paul Sabatier; Michel van der Bergh, Universiteit Hasselt.

Information: <http://www.crm.cat/HOCAT2008>.

July 2008

2–4 **The 2008 International Conference of Applied and Engineering Mathematics (ICAEM 2008)**, Imperial College London, London, United Kingdom. (Nov. 2007, p. 1404)

7–9 **SIAM Conference on Imaging Science (IS08)**, Town & Country Resort and Convention Center, San Diego, California. (Nov. 2007, p. 1405)

7–11 **Spring Meeting of the Swiss Mathematical Society: Conference on Complex Analysis 2008–In honour of Linda Rothschild**, University of Fribourg, Switzerland. (Nov. 2007, p. 1405)

7–11 **VIII International Colloquium on Differential Geometry (E. Vidal Abascal Centennial Congress)** (Sept. 2007, p. 1076), Santiago de Compostela, Spain.

13–16 **CTAC08: The 14th Biennial Computational Techniques and Applications Conference**, Australian National University, Canberra, ACT, Australia. (Nov. 2007, p. 1405)

* 14–17 **Random Matrix Theory and Wireless Communication**, Boulder, Colorado.

Description: The workshop aims to bring together researchers in both mathematics and engineering working at the intersection of these exciting fields.

Information: http://math.colorado.edu/~brider/RMT_workshop/rmt_workshop.html.

14–18 **5th European Congress of Mathematics**, Amsterdam, the Netherlands. (Feb. 2007, p. 308)

14–December 19 **Mathematics and Physics of Anderson Localization: 50 Years After**, Isaac Newton Institute for Mathematical Sciences, Cambridge, United Kingdom. (Jun/Jul. 2006, p. 714)

22–26 **International Workshop on Operator Theory and its Applications (IWOTA)**, College of William and Mary, Williamsburg, Virginia. (Feb. 2007, p. 308)

* 22–26 **Noncommutative Structures in Mathematics and Physics**, Brussels, Belgium.

Description: Among the recent developments in the study of algebraic structures, three strongly interrelated trends seem to be outstanding: a quest for a more algebraic version of noncommutative geometry, generalizations of Hopf algebras as symmetry structures, and the program of categorification. A powerful complement to the latter is the idea of considering algebraic or physical structures on whole categories rather than on individual mathematical objects. The conference aims to relate progress in these directions stemming from work in different subfields of mathematics, including algebra, representation theory, algebraic geometry, operator algebras, and theoretical and mathematical physics.

Speakers include: J. Andersen, G. Böhm, C. De Concini, K. Fredenhagen, M. Kapranov, E. Karolinsky, C. Kassel, M. Khovanov, G. Landi, Y. Manin, M. Markl, H.-J. Schneider, M. Van den Bergh, S. Waldmann.

Information: <http://dwispc8.vub.ac.be/NoMaP>.

* 24–26 **Current Trends and Challenges in Model Selection and Related Areas**, University of Vienna, Vienna, Austria.

Description: The workshop will provide a forum for presentation and discussion of current trends and challenging problems in

model selection and related shrinkage methods.

Invited Speakers: Yannick Baraud (Universite de Nice Sophia-Antipoli), Rudy Beran (UC Davis), Ed George (The Wharton School), Patrik Guggenberger (UCLA), Ching-Kang Ing (Academia Sinica), Paul Kabaila (LaTrobe Univ.), Gabor Lugosi (Pompeu Fabra Univ.), and Yuhong Yang (Univ. of Minnesota). Contributed presentations are welcome.

Information: See http://www.univie.ac.at/workshop_modelselection/; email: hannes.leebe@yale.edu.

August 2008

19–22 **Duality and Involutions in Representation Theory**, National University of Ireland, Maynooth, Co. Kildare, Ireland. (Nov. 2007, p. 1405)

* 25–29 **Geometry and Analysis**, Royal Institute of Technology, Stockholm, Sweden.

Description: This conference, to be held at the Royal Institute of Technology in Stockholm, brings together leading specialists on nonlinear wave equations, geometric analysis and general relativity. Among the topics to be covered are Ricci flow, conformal geometry, nonlinear wave equations, black hole uniqueness and stability, as well as aspects of the constraint equations and the initial value problem for the Einstein equations.

Confirmed Speakers: Serge Alinhac (Paris), Håkan Andreasson (Göteborg), Simon Brendle (Stanford), Alice Chang (Princeton), Helmut Friedrich (Albert Einstein Institute), Gregory Galloway (Miami), Gerhard Huisken (Albert Einstein Institute), Alexandru Ionescu (Wisconsin), Sergiu Klainerman (Princeton), Bruce Kleiner (Yale), Heinz-Otto Kreiss (UCLA), Dan Lee (Duke), Frank Merle (Paris), Alan Rendall (Albert Einstein Institute), Igor Rodnianski (Princeton), Wilhelm Schlag (Chicago), Richard Schoen (Stanford), Daniel Tataru (Berkeley).

Information: <http://www.math.kth.se/ag08/>.

26–December 19 **The Nature of High Reynolds Number Turbulence**, Isaac Newton Institute for Mathematical Sciences, Cambridge, United Kingdom. (Jun/Jul. 2006, p. 714)

September 2008

* 2–5 **X Spanish Meeting on Cryptology and Information Security (X RECSI)**, Hospederia Fonseca, Salamanca, Spain.

Description: The Spanish Meeting on Cryptology and Information Security is a biennial conference that can be considered as the most important Spanish conference that works on Cryptology and Information Security. X RECSI will be the tenth of a series. The main goals of X RECSI are two: To show the most important and recent advances in the design, development, implementation, realisation and application of efficient and secure cryptographic algorithms, and to review the first two years of the establishment of the DNI-e. Three lectures will be presented by international researchers of prestige as for the Cryptology and Information Security community. Also people from Spanish government and private sector will present another four lectures. Moreover several contributions will be presented in two parallel sessions (Cryptology and Information Security) and a roundtable will be organized whose participants belong to the most important Spanish security companies.

Information: <http://www.usal.es/xrecsi/english/main.htm>.

* 8–12 **Long Program: Internet Multi-Resolution Analysis: Foundations, Applications and Practice**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California.

Description: The focus of this IPAM program will be on innovations and breakthroughs in the theoretical foundations and practical implementations of a network-centric multi-resolution analysis (MRA). Participants will learn about Internet MRA from the perspectives of mathematics, statistics, computer science and engineering—and will meet a diverse group of people and have an opportunity to form new collaborations. There will be opening

tutorials, four workshops, and a culminating workshop at Lake Arrowhead.

Organizing Committee: Paul Barford, John Doyle, Anna Gilbert, Mauro Maggioni, Craig Partridge, Matthew Roughan, and Walter Willinger.

Application: An application form is available at: <http://www.ipam.ucla.edu/programs/mra2008/>. Applications for individual workshops will be posted on individual workshop home pages. Encouraging the careers of women and minority mathematicians and scientists is an important component of IPAM's mission and we welcome their applications.

Information: <http://www.ipam.ucla.edu/programs/mra2008/>.

12–18 **Models in Developing Mathematics Education**, Dresden University of Applied Sciences, Dresden, Germany. (Apr. 2007, p. 498)

24–27 (REVISED INFORMATION) **Vector Measures, Integration and Applications**, Katholische Universitaet Eichstaett-Ingolstadt, Eichstaett, Germany. (Feb. 2007, p. 308)

October 2008

4–5 **AMS Western Section Meeting**, University of British Columbia and the Pacific Institute of Mathematical Sciences, Vancouver, Canada. (Jun/Jul 2007, p. 784)

11–12 **AMS Eastern Section Meeting**, Wesleyan University, Middletown, Connecticut. (Jun/Jul 2007, p. 784)

17–19 **AMS Central Section Meeting**, Western Michigan University, Kalamazoo, Michigan. (Jun/Jul 2007, p. 784)

24–26 **AMS Southeastern Section Meeting**, University of Alabama, Huntsville, Alabama. (Jun/Jul 2007, p. 784)

December 2008

17–21 **First Joint International Meeting with the Shanghai Mathematical Society**, Shanghai, China. (Jun/Jul 2007, p. 784)

November 2009

1–30 **5th Asian Mathematical Conference (AMC2009)**, Penang/Kulalumpur, Malaysia.