
Mathematics Calendar

Please submit conference information for the Mathematics Calendar through the Mathematics Calendar submission form at <http://www.ams.org/cgi-bin/mathcal-submit.pl>.
The most comprehensive and up-to-date Mathematics Calendar information is available on the AMS website at <http://www.ams.org/mathcal/>.

November 2011

1–3 **Central and Eastern European Software Engineering Conference in Russia (CEE-SECR 2011)**, Moscow, Russian Federation. (Jun/Jul. 2011, p. 859)

1–3 **International Seminar on the Application of Science and Mathematics 2011**, Putra World Trade Centre, Kuala Lumpur, Malaysia. (Jun/Jul. 2011, p. 860)

1–5 **International conference of Settat on Operator algebras and applications**, Faculty of Sciences and Techniques, University Hassan I. Settat, Morocco. (Mar. 2011, p. 496)

1–5 **VI International Conference on Non Associative Algebra and its Applications**, Universidad de Zaragoza, Spain.

3–6 **Mirror Symmetry in the Midwest**, Kansas State University, Manhattan, Kansas. (Oct. 2011, p. 1323)

5–6 **Second International Conference on Biologically Inspired Cognitive Architectures (BICA 2011)**, Holiday Inn Arlington, Arlington, VA, next to Washington DC. (Jun/Jul. 2011, p. 860)

5–8 **ICMIS2011: 2nd International Conference on Mathematics & Information Science**, Sohag University, Sohag, Egypt. (Jun/Jul. 2011, p. 860)

7–10 **International Workshop on Theoretical Aspects of the Discrete Time Quantum Walk**, Instituto de Física Corpuscular, Valencia, Spain. (Sept. 2011, p. 1179)

7–11 **Advanced Course on Approximation Theory and Fourier Analysis**, Centre de Recerca Matemàtica, Bellaterra, Barcelona, Spain. (Sept. 2011, p. 1179)

7–11 **AIM Workshop: The Klein project**, American Institute of Mathematics, Palo Alto, California. (May 2011, p. 744)

7–11 **Workshop: Boltzmann Models in Kinetic Theory**, ICERM, Providence, Rhode Island. (Jun/Jul. 2011, p. 860)

7–11 **Waves in Science and Engineering WISE 2011**, Mexico City, Mexico. (Jun/Jul. 2011, p. 860)

10–11 **International Conference on Web Information System and Computing Education**, Hotel Sleep Withinn, Bangkok, Thailand. (Nov. 2011, p. 1493)

* 10–11 **The Computer-Based Math Education Summit**, The Royal Institution, London, England.

Description: The two-day summit will address the worldwide math education crisis by answering the question, “In an era of ubiquitous computing, how should we rebuild math education from the ground up, to keep pace with and drive progress in the real world?” By bringing together an unprecedented cross-section of leaders with a stake in math—from industry, technology, government, and education—the summit will address math (and associated STEM) education from all perspectives to kick-start a rational, computer-based new direction.

Information: <http://computerbasedmath.org/events/londonsummit2011/index.html>.

10–12 **The Fourth International Theoretical and Practical Conference: Object Systems–2011 (English session)**, Rostov-on-Don, Russia. (Oct. 2011, p. 1323)

12 **Information Theory and Shrinkage Estimation**, American University, Washington, District of Columbia. (Mar. 2011, p. 496)

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 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. 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/>.

14–18 **IMA Workshop: Large Data Sets in Medical Informatics**, Institute for Mathematics and its Applications (IMA), University of Minnesota, Minneapolis, Minnesota. (Nov. 2010, p. 1349)

15–19 **Geometry and Arithmetic around Teichmüller Theory**, Galatasaray University, Istanbul, Turkey. (Oct. 2011, p. 1323)

17–18 **Jornadas de Criptografía (Spanish Cryptography Days)**, Murcia, Spain. (May 2011, p. 744)

19–21 **International Conference on Analysis and its Applications**, Department of Mathematics, Aligarh Muslim University, Aligarh, India. (Dec. 2010, p. 1498)

28–29 **International Conference on Information System, Computer Engineering & Application—ICISCEA 2011**, Hotel Meritus, Singapore, Singapore. (Nov. 2011, p. 1493)

28–December 2 **School of Applied Mathematics and Innovation 2010: Celestial Mechanics and Computing Orbits**, Campus Rodrigo Noguera Laborde of Universidad Sergio Arboleda, Carrera 29D 30 - 207 Troncal del Caribe Santa Marta, Colombia. (Jun/Jul. 2011, p. 860)

28–December 2 **Workshop on Computational Security**, Centre de Recerca Matemàtica, Bellaterra, Barcelona, Spain.

29–December 2 **International Conference on Design and Modeling in Science, Education, and Technology: DeMset 2011**, Orlando, Florida. (Nov. 2011, p. 1493)

December 2011

1–14 **US-Africa Advanced Study Institute on Analysis, Dynamical Systems, and Mathematical Biology and Research Workshop on Mathematical Modeling of Biological Systems**, Livingstone, Zambia. (Sept. 2011, p. 1180)

1–April 1 **Call for papers: A special issue of *Symmetry* (ISSN 2073-8994) “Symmetry in Probability and Inference”**, *Symmetry Journal*, MDPI Publishing, Basel, Switzerland. (Mar. 2011, p. 497)

2–4 **Introduction to Neutrosophic Physics: Unmatter & Unparticle**, The University of New Mexico, Mathematics & Sciences Department, 200 College Rd., Gallup, New Mexico. (Mar. 2011, p. 497)

* 3–4 **Palmetto Number Theory Series XVII**, Clemson University, Clemson, South Carolina.

Description: This is the 17th meeting of the Palmetto Number Theory Series. This is a number theory conference held in the Southeast featuring 4 plenary speakers, a graduate student plenary speaker, and contributed talks.

Information: <http://www.math.clemson.edu/~jimlb/PANTS/PANTS17/pants17.html>.

4–6 **National Conference on Ramanujan’s Work in the Field of Hypergeometric Series and its Applications**, Department of Mathematics, T.D.P.G. College, Jaunpur, India. (Oct. 2011, p. 1323)

4–9 **LISA’11: 25th Large Installation System Administration Conference**, Sheraton Boston Hotel at 39 Dalton St., Boston, Massachusetts. (Feb. 2011, p. 336)

5–7 **International symposium on recurrence plots**, Hong Kong Polytechnic University, Hong Kong, China. (Jun/Jul. 2011, p. 860)

5–9 **AIM Workshop: Stability, hyperbolicity, and zero localization of functions**, American Institute of Mathematics, Palo Alto, California. (May 2011, p. 744)

5–9 **Quantitative Geometry in Computer Science**, Mathematical Sciences Research Institute, Berkeley, California. (Oct. 2011, p. 1323)

* 6–10 **International Workshop in Cyber Security 2011**, St. Joseph’s College, Irinjalakuda 680121, Thrissur District, Kerala State, India South, India.

Description: The advent of Internet with its impact on every aspect of human society has brought in its wake the menace security

threat too. This combo-event comprising a three-day-workshop followed by a two-day-conference will principally dwell on the following topics: Principles of computer systems security, techniques of attack and defense, network attacks and defenses, operating system holes, application security (web, e-mail, databases), viruses, social engineering attacks, privacy and digital rights management, symmetric encryption and message integrity, buffer overflow attacks and defenses, public key encryption, user authentication, firewalls, zero knowledge protocols, viruses: building and defending, network security protocols, digital signatures, coding theory and algebraic design theory. Besides lectures, research papers on frontier areas presented by young research scholars, senior researchers, technocrats and technologists will form part of the event.

Information: <http://www.stjosephs.edu.in/iwcs2k11>.

7–9 **Mathematics of Traffic Flow Modeling, Estimation and Control**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California. (Oct. 2011, p. 1323)

9–11 **International Conference on Recent Advances in Mathematical Sciences & Applications**, Calcutta Mathematical Society AE-374, Sector-I, Salt Lake city, Kolkata-700064, West Bengal, India. (Sept. 2011, p. 1181)

12–15 **13th IMA International Conference on Cryptography and Coding**, University of Oxford, United Kingdom. (Oct. 2011, p. 1323)

12–16 **AIM Workshop: Singular learning theory, connecting algebraic geometry and model selection in statistics**, American Institute of Mathematics, Palo Alto, California. (Jun/Jul. 2011, p. 861)

12–16 **ICREA Conference on Approximation Theory and Fourier Analysis**, Centre de Recerca Matemàtica (CRM), Bellaterra, Barcelona, Spain. (Jun/Jul. 2011, p. 861)

14–16 **5th Indian International Conference on Artificial Intelligence**, Tumkur (near Bangalore), India. (Mar. 2011, p. 497)

15–17 **Applied Mathematics & Stochastic Processes**, Sacred Heart College, Tamilnadu, India. (Jun/Jul. 2011, p. 861)

16–18 **The International Congress on Science and Technology**, Allahabad, U.P., INDIA (Oct. 2009, p. 1148)

17–18 **1st International Conference on Mathematical Sciences and Applications**, India Habitat Centre, Lodhi Road, New Delhi, India. (Jun/Jul. 2011, p. 861)

17–18 **The International Symposium on Biomathematics and Ecology: Education and Research (BEER-2011)**, University of Portland, Portland, Oregon. (Apr. 2011, p. 628)

18–20 **The 5th International Conference of IMBIC on “Mathematical Sciences for Advancement of Science and Technology” (MSAST 2011)**, Institute for Mathematics, Bioinformatics, Information Technology and Computer Science (IMBIC), Salt Lake, Kolkata, India. (Jun/Jul. 2011, p. 861)

January 2012

* 3–15 **PASI: Topics in percolative and disordered systems**, Facultad de Matemáticas, Pontificia Universidad Católica de Chile Jan 9-Jan 15: Universidad de San Andrés-Sede Capital, Buenos Aires, Argentina.

Description: The Pan-American Advanced Studies Institute school will allow U.S., European and Latin American students, postdocs and junior faculty to attend a cutting edge activity with a distinctive Pan-American focus. The first week of the meeting will take place in Santiago de Chile between January 2–7 and will be held in the Facultad de Matemáticas, Pontificia Universidad Católica de Chile. The second week will take place in Buenos Aires January 9–14 and will be held in the Universidad de San Andrés, Sede-Capital.

Organizing committee: Gérard Ben Arous, Pablo Ferrari, Charles M. Newman, Alejandro Ramírez, Vladas Sidoravicius, María Eulalia Vares.

Topics: To be covered in this PASI lie in several overlapping areas of Probability Theory and Statistical Physics: Disordered Systems (including Spin Glasses and Random Walks in a Random Medium), Percolation and Interacting Particle Systems.

Information: <http://pasi2012.mat.puc.cl>.

4–7 **Joint Mathematics Meetings**, Boston, Massachusetts. (May 2011, p. 744)

9–13 **AIM Workshop: Mapping theory in metric spaces**, American Institute of Mathematics, Palo Alto, California. (Jun/Jul. 2011, p. 861)

9–13 **Large Scale Multimedia Search**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California. (Oct. 2011, p. 1323)

9–May 18 **Random Spatial Processes Program**, Mathematical Sciences Research Institute, Berkeley, California. (Oct. 2011, p. 1324)

9–July 6 **Semantics and Syntax: A Legacy of Alan Turing**, Isaac Newton Institute for Mathematical Sciences, Cambridge, United Kingdom. (Apr. 2011, p. 629)

12–13 **Connections for Women: Discrete Lattice Models in Mathematics, Physics, and Computing**, Mathematical Sciences Research Institute, Berkeley, California. (Oct. 2011, p. 1324)

* 13–15 **Configuration spaces, braids and applications (mini-conference)**, Tulane University, New Orleans, Louisiana.

Description: Supported by the NSF and Tulane's SSE this mini series of lectures will be held in the Mathematics Department at Tulane University, New Orleans, from January 13 to January 15, 2012.

Speaker: The principal speaker will be Professor Frederick Cohen from University of Rochester, who will deliver three lectures centered on the topics of the title. The lectures will be aimed at the graduate students audience. In addition there will be lectures given by the following distinguished speakers: Daniel Cohen (Louisiana State University), Daniel Koditschek (University of Pennsylvania), Laurence Taylor (Notre Dame University).

Funds: NSF funds are available for about 20 graduate students.

Information: <http://www.math.tulane.edu/~cbanda/>.

16–20 **Introductory Workshop: Lattice Models and Combinatorics**, Mathematical Sciences Research Institute, Berkeley, California. (Aug. 2011, p. 1012)

17–19 **ACM-SIAM Symposium on Discrete Algorithms (SODA12)**, The Westin Miyako, Kyoto, Japan. (Apr. 2011, p. 628)

23–27 **AIM Workshop: Set theory and C^* -algebras**, American Institute of Mathematics, Palo Alto, California. (May 2011, p. 744)

23–27 **Mathematical Challenges in Graphical Models and Message-Passing Algorithms**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California. (Oct. 2011, p. 1324)

* 23–27 **Recent Trends in Nonlinear Science 2012**, Pamplona, Universidad Publica de Navarra.

Description: This is the ninth edition of the international winter School of the Spanish DANCE network (<http://www.dance-net.org/>). It consists of the following three courses which are 10 hours each: Martin Golubitsky (Ohio State University), Coupled systems of differential equations; Gérard Iooss (Université de Nice), Local bifurcations and reduction methods in reversible systems. Application to water waves and lattices; Daniel Scheeres (University of Colorado), Astrodynamics: Orbital motion of spacecraft in strongly perturbed environments.

Information: <http://www.dance-net.org/rtns2012/>.

30–31 **Annual International Conference on Computational Mathematics, Computational Geometry & Statistics (CMCGS 2012)**, Hotel Fort Canning, Singapore. (Oct. 2011, p. 1324)

30–May 4 **ICERM Semester Program: Complex and Arithmetic Dynamics**, ICERM, Providence, Rhode Island. (Jun/Jul. 2011, p. 861)

February 2012

6–10 **AIM Workshop: Systems approaches to drug discovery and development in oncology**, American Institute of Mathematics, Palo Alto, California. (Nov. 2011, p. 1494)

6–10 **Challenges in Synthetic Aperture Radar**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California. (Oct. 2011, p. 1324)

6–10 **Hot Topics: Thin Groups and Super-strong Approximation**, Mathematical Sciences Research Institute, Berkeley, California. (Sept. 2011, p. 1182)

* 7–8 **International Conference on Advanced Information System, E-Education and Development (ICAISED 2012)**, Hotel Corus, Kuala Lumpur, Malaysia.

Description: ICAISED 2012 is the International Meeting of the advanced Information System, E-Education & Development interfaces community and serves as the principal international forum for reporting outstanding research and development on Advanced Information System This conference provides opportunities for the delegates to exchange new ideas and application experiences face to face, to establish business or research relations and to find global partners for future collaboration.

Information: <http://www.icaised.com>.

13–17 **Conference and MAGMA Workshop on “Symmetries of Discrete Objects”**, Rydges Lakeland Resort Hotel, Queenstown, New Zealand. (Aug. 2011, p. 1012)

13–17 **ICERM Workshop: Complex and p-adic Dynamics**, ICERM, Providence, Rhode Island. (Jun/Jul. 2011, p. 861)

13–17 **The 10th International Conference on Monte Carlo and Quasi-Monte Carlo Methods in Scientific Computing (MCQMC 2012)**, The University of New South Wales, Sydney, NSW, Australia. (Apr. 2011, p. 629)

16–18 **2nd International Conference on Advances in Control and Optimization of Dynamical Systems**, Indian Institute of Science, Bangalore, India. (Oct. 2011, p. 1324)

20–24 **AIM Workshop: Stochastic dynamics of small networks of neurons**, American Institute of Mathematics, Palo Alto, California. (Jun/Jul. 2011, p. 861)

20–24 **Percolation and Interacting Systems**, Mathematical Sciences Research Institute, Berkeley, California. (Aug. 2011, p. 1012)

27–28 **4th International Conference on Wireless Information Networks and Business Information System (WINBIS 2012)**, Hotel Marshyandi, Kathmandu, Nepal. (Nov. 2011, p. 1494)

27–March 2 **IMA Workshop: Network Links: Connecting Social, Communication and Biological Network Analysis**, Institute for Mathematics and its Applications (IMA), University of Minnesota, Minneapolis, Minnesota. (Jan. 2011, p. 85)

27–March 2 **Nonlocal PDEs, Variational Problems and their Applications**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California. (Sept. 2011, p. 1183)

March 2012

3–4 **AMS Western Section Meeting**, University of Hawaii, Honolulu, Hawaii. (May 2011, p. 744)

5–9 **5th International Conference on High Performance Scientific Computing**, Institute of Mathematics, Vietnam Academy of Science and Technology, 18 Hoang Quoc Viet Road, Hanoi, Vietnam. (Dec. 2010, p. 1498)

10–11 **AMS Southeastern Section Meeting**, University of South Florida, Tampa, Florida. (May 2011, p. 744)

* 11–14 **Fourth International Conference on Mathematical Sciences, ICM2012**, UAE University, Al-Ain, United Arab Emirates.

Topics: Algebra, applied mathematics, discrete mathematics, finite mathematics, fractals, geometry, history of mathematics, logic, analysis, number theory, numerical analysis, topology, computational mathematics, mathematical statistics, mathematics education, mathematical biology, financial mathematics, mathematical modeling in environmental sciences.

Contributions: The conference would welcome contributions from all aspects of mathematical sciences.

Information: <http://icm.uaeu.ac.ae.ae>.

12–June 15 **Computational Methods in High Energy Density Plasmas**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California. (Mar. 2011, p. 497)

12–16 **AIM Workshop: Classifying fusion categories**, American Institute of Mathematics, Palo Alto, California. (May 2011, p. 744)

12–16 **ICERM Workshop: Global Arithmetic Dynamics**, ICERM, Providence, Rhode Island. (Jun/Jul. 2011, p. 862)

14–16 **IAENG International Conference on Operations Research 2012**, Royal Garden Hotel, Kowloon, Hong Kong. (Sept. 2011, p. 1184)

17–18 **AMS Eastern Section Meeting**, George Washington University, Washington, District of Columbia. (May 2011, p. 744)

24–25 **36th Annual SIAM Southwestern Atlantic Section Conference**, University of Alabama in Huntsville, Huntsville, Alabama. (Sept. 2011, p. 13249)

25–28 **Conference on Partial Differential Equations and Applications**, Vietnam National University, Hanoi, Vietnam. (Jun/Jul. 2011, p. 862)

26–30 **AIM Workshop: Cohomological methods in abelian varieties**, American Institute of Mathematics, Palo Alto, California. (Aug. 2011, p. 1012)

26–30 (NEW DATE) **IMA Workshop: Machine Learning: Theory and Computation**, Institute for Mathematics and its Applications (IMA), University of Minnesota, Minneapolis, Minnesota. (Jan. 2011, p. 85)

* 26–30 **Statistical Mechanics and Conformal Invariance**, Mathematical Sciences Research Institute, Berkeley, California.

Description: Our understanding of the scaling limits of discrete statistical systems has shifted in recent years from the physicists' field-theoretical approaches to the more rigorous realm of probability theory and complex analysis. The aim of this workshop is to combine both discrete and continuous approaches, as well as the statistical physics/combinatorial and the probabilistic points of view. Topics include quantum gravity, planar maps, discrete conformal analysis, SLE, and other statistical models such as loop gases.

Information: <http://www.msri.org/web/msri/scientific/workshops/all-workshops/show/-/event/Wm580>.

30–31 **Information and Econometrics of Networks**, American University, Washington, District of Columbia. (Mar. 2011, p. 497)

30–April 1 **AMS Central Section Meeting**, University of Kansas, Lawrence, Kansas. (May 2011, p. 744)

* 30–April 1 **Around scattering by obstacles and billiards**, University of Aveiro, Aveiro, Portugal.

Scattering by Obstacles: There exist several groups of mathematicians working on problems of obstacle scattering. The range of considered problems and methods used to solve them vary from one group to another. The purpose of the workshop is to bring together these communities in order to communicate different approaches and the latest results. The talks will be aimed at non-specialists. Billiards Inside and Outside Bounded Regions: Our aim is, on the one hand, to bring together various groups and researchers working in the theory of mathematical billiards and, on the other hand, get them familiarized with new trends in the theory of wave scattering by obstacles.

Information: <http://sweet.ua.pt/~a52300/default.htm>.

* 30–April 1 **Call for Papers: 2012 International Conference on e-Commerce, e-Administration, e-Society, e-Education, and e-Technology**, Hong Kong, Japan.

Description: The submissions should be submitted via the web system before October 15, 2011, and prepared in all-in-one PDF or Word files (not exceeding 35 pages, including figures, tables, acknowledgements, and references).

Publication and Awards: <http://www.e-case.org/2012/Awards.html>.

International Committee: Edward Watson (chair), Louisiana State University (USA); Co-Chairs: Shigeki Yokoi, Nagoya University (Japan); Ki-Han Chung, Gyeongsang National University (Korea); Robert Davison, City University of Hong Kong (China); Sangeeta Sahney, Indian Institute of Technology (India); Tommi Laukkanen, University of Kuopio (Finland); Maslin Masrom, University Technology Malaysia (Malaysia).

Information: <http://www.e-case.org/2012/>.

April 2012

1–4 **The 8th International Conference on Scientific Computing and Applications (SCA2012)**, University of Nevada Las Vegas (UNLV), Las Vegas, Nevada. (Aug. 2011, p. 1012)

2–4 **SIAM Conference on Uncertainty Quantification (UQ12)**, Raleigh Marriott City Center Hotel, Raleigh, North Carolina. (Aug. 2011, p. 1012)

2–6 **AIM Workshop: Vector equilibrium problems and their applications to random matrix models**, American Institute of Mathematics, Palo Alto, California. (Aug. 2011, p. 1013)

9–13 **AIM Workshop: Nonlinear solvers for high-intensity focused ultrasound with application to cancer treatment**, American Institute of Mathematics, Palo Alto, California. (Nov. 2011, p. 1494)

16–20 **ICERM Workshop: Moduli Spaces Associated to Dynamical Systems**, ICERM, Providence, Rhode Island. (Jun/Jul. 2011, p. 862)

20–22 **The Fifteenth Riviere-Fabes Symposium on Analysis and PDE**, School of Mathematics, University of Minnesota, Minneapolis, Minnesota. (Sept. 2011, p. 1185)

23–25 **5TH IMA International Conference on Analytical Approaches to Conflict**, Royal Military Academy, Sandhurst, United Kingdom. (Oct. 2011, p. 1324)

23–27 **Spring School in Probability**, Inter-University Center, Dubrovnik, Croatia. (Nov. 2011, p. 1494)

29–May 2 **4th International Interdisciplinary Chaos Symposium on "Chaos and Complex Systems"**, Antalya, Turkey. (Nov. 2011, p. 1494)

30–May 5 **Random Walks and Random Media**, Mathematical Sciences Research Institute, Berkeley, California. (Aug. 2011, p. 1013)

May 2012

7–11 **AIM Workshop: Motivic Donaldson-Thomas theory and singularity theory**, Renyi Institute, Budapest, Hungary. (Oct. 2011, p. 1325)

7–11 **IMA Workshop: User-Centered Modeling**, Institute for Mathematics and its Applications (IMA), University of Minnesota, Minneapolis, Minnesota. (Oct. 2011, p. 1185)

* 10–11 **MCAG 2012: Michigan Computational Algebraic Geometry 2012**, Oakland University, Rochester, Michigan.

Description: Michigan Computational Algebraic Geometry is a two day workshop organized every Spring in one of the Michigan universities as a collaboration between Michigan researchers and companies in Michigan. Topics include but not restricted to: computational invariant theory, algebraic curves, Jacobians and Abelian varieties,

Schottky problem, theta functions, integrable systems, split Jacobians, Moduli spaces of curves.

Information: <http://sites.google.com/a/oakland.edu/algebra/home/conferences/michigan-computational-algebraic-geometry>.

14–18 **AIM Workshop: ACC for minimal log discrepancies and termination of flips**, American Institute of Mathematics, Palo Alto, California. (Aug. 2011, p. 1013)

17–19 **International Conference on “Applied Mathematics and Approximation Theory 2012”**, TOBB University of Economics and Technology, Ankara, Turkey. (Aug. 2011, p. 1013)

* 17–19 **Symmetries of Differential Equations: Frames, Invariants and Applications. A conference in honor of the 60th birthday of Peter Olver**, University of Minnesota, Minneapolis, Minnesota.

Description: The conference will assess the present state of knowledge in the wide ranging but coherent research fields in which Peter Olver has been involved and celebrate his profound influence on these fields through his books and papers and, especially, through an amazing number of students, postdocs and collaborators. The main topics to be addressed are symmetries of differential equations and variational problems, with special emphasis on moving frames, Cartan theory of differential forms and invariant theory. Also Hamiltonian systems, integrable systems including solitons will be treated, as well as applications of symmetry-based methods to image processing, fluid mechanics and elasticity.

Information: <http://math.umn.edu/conferences/olver/>.

20–22 **SIAM Conference on Imaging Science (IS12)**, Doubletree Hotel Philadelphia, Philadelphia, Pennsylvania. (Sept. 2011, p. 1185)

20–25 **7th European Conference on Elliptic and Parabolic Problems**, Gaeta, Italy. (May 2011, p. 744)

21–25 **AIM Workshop: Contact topology in higher dimensions**, American Institute of Mathematics, Palo Alto, California. (Aug. 2011, p. 1013)

28–June 3 **International Conference “Theory of Approximation of Functions and its Applications”**, Kamianets-Podilsky Ivan Ohienko National University, Kamianets-Podilsky, Ukraine. (Jun/Jul. 2011, p. 862)

30–June 2 **12th Viennese Workshop on Optimal Control, Dynamic Games and Nonlinear Dynamics**, Vienna University of Technology, Vienna, Austria. (Sept. 2011, p. 1186)

June 2012

* 6–9 **EUROMECH Colloquium 535: Similarity and symmetry methods in Solid Mechanics**, Varna, Bulgaria.

Description: The aim of the Colloquium is to bring together researchers who apply similarity and symmetry analysis to engineering problems in analytical and solid mechanics (for finding closed form solutions of boundary value problems, or to reveal invariance properties at the root of rheological models), researchers interested in the fundamental aspects associated with symmetries (conservation laws, geometric mechanics), numerical analysts who develop and use such methods in numerical schemes (symplectic schemes, variational integrators).

Topics: Symmetries and conservation laws in continuum mechanics; numerical schemes, variational integrators; symplectic schemes; configurational mechanics; geometric mechanics; similarity methods in rheology, fatigue and fracture mechanics (path-independent integrals); fractal mechanics; geometry of thin elastic solids.

Information: <http://roquefort.nancy-universite.fr/CONGRES/euromec2012.php>.

7–9 **Quantum invariants of 3-manifolds**, Institut de Recherche Mathématique Avancée, University of Strasbourg, France. (Nov. 2011, p. 1494)

* 8–13 **XIVth International Conference on Geometry, Integrability and Quantization**, Sts. Constantine and Elena resort (near Varna, Bulgaria).

Description: This conference can be considered a continuation of previous meetings on Geometry and Mathematical Physics which took place in Bulgaria, Zlatograd (1995) and Varna (1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010 and 2011). “Geometry” in the title refers to modern differential geometry of real and complex manifolds with some emphasis on curves, sigma models and minimal surface theory, “Integrability” to either the integrability of complex structures or classical dynamical systems of particles, soliton dynamics and hydrodynamical flows presented in geometrical form, and “Quantization” to the transition from classical to quantum mechanics expressed in geometrical terms. The overall aim is to bring together experts in Classical and Modern Differential Geometry, Complex Analysis, Mathematical Physics and related fields to assess recent developments in these areas and to stimulate research in related topics.

Information: <http://www.bio21.bas.bg/conference/>.

12–15 **5th Chaotic Modeling and Simulation International Conference (CHAOS2012)**, Athens, Greece. (Nov. 2011, p. 1494)

12–15 **“The Incomputable” — A workshop of the 6-month Isaac Newton Institute programme — “Semantics and Syntax: A Legacy of Alan Turing” (SAS)**, Kavli Royal Society International Centre, Chicheley Hall, Newport Pagnell MK16 9JJ, United Kingdom. (Aug. 2011, p. 1013)

13–16 **SIAM Conference on Nonlinear Waves and Coherent Structures (NW12)**, The University of Washington, Seattle, Washington. (Sept. 2011, p. 1186)

* 17–22 **BIOMATH 2012: International Conference on Mathematical Methods and Models in Biosciences**, Bulgarian Academy of Sciences, Sofia, Bulgaria.

Description: The conference is devoted to recent research in biosciences based on applications of mathematics as well as mathematics applied to or motivated by biological applications. It is a multi-disciplinary meeting forum for researchers who develop and apply mathematical and computational tools to the study of phenomena in the broad fields of biology, ecology, medicine, biotechnology, bioengineering, environmental science, etc.

Information: <http://www.biomath.bg/2012/>.

18–22 **AIM Workshop: Dynamics of the Weil-Petersson geodesic flow**, American Institute of Mathematics, Palo Alto, California.

* 18–22 **NSF/CBMS Regional Conference in the Mathematical Sciences: Hodge Theory, Complex Geometry, and Representation Theory**, Texas Christian University, Fort Worth, Texas.

Description: This is a CBMS Conference featuring Phillip Griffiths (Institute for Advanced Study) as principal speaker. Prof. Griffiths will describe recent progress on automorphic cohomology beyond the classical cases. The material involved is at the confluence of several parts of mathematics: Hodge theory, representation theory, and complex geometry. The main lectures will describe new breakthroughs due to Carayol and others and will build upon the recent work of Griffiths and his collaborators on Mumford-Tate groups and domains. The lectures will focus on two main examples and are intended to be accessible to a wide range of participants. The conference will also feature several other speakers, including a series of introductory talks aimed at graduate students.

Information: <http://faculty.tcu.edu/gfriedman/CBMS2012/>.

18–23 **Turing Centenary Conference (CiE 2012): How the World Computes**, University of Cambridge, Cambridge, United Kingdom. (Aug. 2011, p. 1013)

* 18–29 **Noncommutative Algebraic Geometry**, Mathematical Sciences Research Institute, Berkeley, California.

Description: This workshop will introduce some of the major themes of the MSRI program “Interactions between Noncommutative Algebra, Representation Theory, and Algebraic Geometry” to be held in the spring of 2013. There will be four mini-courses on the topics of noncommutative projective geometry, deformation theory, noncommutative resolutions of singularities, and symplectic reflection algebras. As well as providing theoretical background, the workshop will aim to equip participants with some intuition for the many open problems in this area through worked examples and experimental computer calculations.

Information: <http://www.msri.org/web/msri/scientific/workshops/summer-graduate-workshops/show/-/event/Wm9213>.

25–29 **AIM Workshop: Hypergeometric motives**, International Centre for Theoretical Physics, Trieste, Italy. (Nov. 2011, p. 1494)

25–29 **3rd European Seminar on Computing (ESCO 2012)**, Pilsen, Czech Republic. (Nov. 2011, p. 1494)

July 2012

1–5 **9th AIMS conference on Dynamical Systems, Differential Equations and Applications**, Orlando, Florida. (Sept. 2011, p. 1186)

1–7 **Workshop on geometric structures on manifolds and their applications**, Castle Rauischholzhausen near Marburg, Germany. (Nov. 2011, p. 1494)

* 2–6 **12th International Conference on p -Adic Functional Analysis**, University of Manitoba, Winnipeg, Canada.

Description: The Twelfth International Conference on p -Adic Functional Analysis will take place at the University of Manitoba, July 2–6, 2012. It follows the tradition of eleven earlier bi-annual meetings in Europe, North America and South America. The conference will build on the success of the previous meetings and it will gather specialists of various domains in p -Adic and non-Archimedean analysis: spaces of functions, umbral calculus, Banach and Hilbert spaces, p -Adic measures, Levi-Civita fields, p -Adic Weyl algebras, Banach algebras, multiplicative spectrum, differentiable maps and differential manifolds on p -Adic fields, analytic functions on a complete algebraically closed field, p -Adic dynamical systems, p -Adic Nevanlinna theory.

Information: <http://www.physics.umanitoba.ca/~khodr/p-Adic-2012/>.

2–7 **24th Conference in Operator Theory**, West University, Timisoara, Romania. (Nov. 2011, p. 1495)

* 3–5 **2nd International Conference on Mathematical Applications in Engineering 2012, ICAE'12**, Kuala Lumpur, Malaysia.

Description: Mathematics provides the methodology and framework of rigorous thoughts for engineering developments in the changing world. The aim of the conference is to stimulate collaboration between active researchers, educators, mathematicians and engineers representing educational institutions, government agencies and engineering related organizations. The prime objective is to act as the main forum to exchange, examine, promote and discuss issues related to the latest trend, importance, needs and future developments of mathematics within its own domain as well as its effective applications in engineering.

Information: <http://www.iium.edu.my/icmae/12/>.

* 8–11 **Trends in Set Theory**, Stefan Banach International Mathematical Center, Warsaw, Poland.

Description: The conference will focus on the interactions between set theory and other parts of mathematics, from Banach spaces and C^* -algebras to topological groups, sets of the reals, general topological spaces, and others. This includes both the advances concerning appropriate set-theoretic tools from forcing theory, Ramsey theory, descriptive set theory or other branches of set theory as well as concrete applications of these methods in the mathematical practice.

Information: http://www.impan.pl/~set_theory/Conference2012/.

9–15 **The 10th International Conference on Fixed Point Theory and its Applications (ICFPTA-2012)**, Faculty of Mathematics and Computer Science, Babes, Bolyai University, Cluj-Napoca, Romania. (Jun/Jul. 2011, p. 862)

* 9–20 **Mathematical General Relativity**, Mathematical Sciences Research Institute, Berkeley, California.

Description: Mathematical general relativity is the study of mathematical problems related to Einstein’s theory of gravitation. There are interesting connections between the physical theory and problems in differential geometry and partial differential equations. The purpose of the workshop is to introduce graduate students to some fundamental aspects of mathematical general relativity, with particular emphasis on the geometry of the Einstein constraint equations and the Positive Mass Theorem. These topics will comprise a component of the upcoming semester program at MSRI in Fall 2013. There will be mini-courses, as well as several research lectures. Students are expected to have had courses in graduate real analysis and Riemannian geometry, while a course in graduate-level partial differential equations is recommended.

Information: <http://www.msri.org/web/msri/scientific/workshops/summer-graduate-workshops/sw/-/event/Wm9228>.

16–December 21 **Topological Dynamics in the Physical and Biological Sciences**, Isaac Newton Institute for Mathematical Sciences, Cambridge, United Kingdom. (April 2011, p. 629)

16–18 **SING8: 8th Spain-Italy-Netherlands Meeting on Game Theory**, Institute of Economics, Hungarian Academy of Sciences and Corvinus University, Budapest, Hungary. (Nov. 2011, p. 1495)

22–27 **Vibration and structural acoustics measurement and analysis**, Universidade do Porto, Porto, Portugal. (Oct. 2011, p. 1325)

23–27 **Algebraic Topology: applications and new directions Stanford Symposium 2012**, Stanford University, Palo Alto, California. (Oct. 2011, p. 1325)

* 23–August 3 **Model Theory**, Mathematical Sciences Research Institute, Berkeley, California.

Description: The workshop will consist of two minicourses, together with a selection of topical lectures. In the model theory course, o-minimality, and specifically the concrete example of the semi-algebraic sets of real numbers will provide the setting in which we introduce various fundamental results from model theory. The algebraic dynamics course will allow the introduction of concepts and proof techniques from number theory and algebraic geometry in the context of applications involving model theory. Toward the end of the workshop, the two minicourses will converge on the Pila-Wilkie theorem concerning points on analytic varieties, a result crucial in recent applications of o-minimality to diophantine geometry.

Information: <http://www.msri.org/web/msri/scientific/workshops/summer-graduate-workshops/show/-/event/Wm8971>.

23–August 17 **Spectral Theory of Relativistic Operators**, Isaac Newton Institute for Mathematical Sciences, Cambridge, United Kingdom. (Sept. 2011, p. 1187)

30–August 3 **The 24th International Conference on Formal Power Series and Algebraic Combinatorics (FPSAC.12)**, Nagoya University, Nagoya, Japan. (Nov. 2011, p. 1495)

30–August 3 **Iwasawa 2012**, Heidelberg University, Heidelberg, Germany. (Feb. 2011, p. 336)

August 2012

6–8 **The Sixth Global Conference on Power Control and Optimization PCO 2012**, Monte Carlo Resort and Casino, Las Vegas, Nevada. (Oct. 2011, p. 1187)

6–11 **XVII International Congress on Mathematical Physics (ICMP12)**, Aalborg Kongress og Kultur Center, Europa Plads 4, 9000 Aalborg, Denmark. (Aug. 2011, p. 1013)

20–24 **AIM Workshop: Invariants in convex geometry and Banach space theory**, American Institute of Mathematics, Palo Alto, California. (Aug. 2011, p. 1013)

* 20–24 **Spectral Theory and Differential Equations**, B. Verkin Institute for Low Temperature Physics & Engineering, V. Karazin Kharkiv National University, Kharkiv, Ukraine.

Description: The Conference is organized on the occasion of the 90th birthday of Vladimir A. Marchenko. It will focus on the areas largely influenced by V. A. Marchenko: Spectral analysis of differential and difference equations and random matrices; inverse spectral and inverse scattering problems; nonlinear equations: integrability and asymptotic behavior of solutions; boundary value problems of mathematical physics and the homogenization theory.

Information: <http://www.ilt.kharkov.ua/Marchenko2012>.

20–December 21 **Cluster Algebras Program**, Mathematical Sciences Research Institute, Berkeley, California. (Oct. 2011, p. 1325)

* 22–24 **Connections for Women: Discrete Lattice Models in Mathematics, Physics, and Computing**, Mathematical Sciences Research Institute, Berkeley, California.

Description: This 2-day workshop will bring together researchers from discrete mathematics, probability theory, theoretical computer science and statistical physics to explore topics at their interface. The focus will be on combinatorial structures, probabilistic algorithms and models that arise in the study of physical systems. This will include the study of phase transitions, probabilistic combinatorics, Markov chain Monte Carlo methods, and random structures and randomized algorithms. Since discrete lattice models stand at the interface of these fields, the workshop will start with background talks in each of the following three areas: Statistical and mathematical physics; Combinatorics of lattice models; Sampling and computational issues. These talks will describe the general framework and recent developments in the field and will be followed with shorter talks highlighting recent research in the area.

Information: <http://www.msri.org/web/msri/scientific/workshops/show/-/event/Wm577>.

27–September 7 **Joint Introductory Workshop: Cluster Algebras and Commutative Algebra**, Mathematical Sciences Research Institute, Berkeley, California. (Aug. 2011, p. 1013)

September 2012

3–7 **International Conference on Differential-Difference Equations and Special Functions**, University of Patras, Patras, Greece. (Aug. 2011, p. 1014)

10–December 14 **Materials Defects: Mathematics, Computation and Engineering**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California. (Oct. 2011, p. 1325)

20–22 **Lie and Klein; the Erlangen program and its impact on mathematics and physics**, Institut de Recherche Mathématique Avancé, University of Strasbourg, France. (Nov. 2011, p. 1495)

22–23 **AMS Eastern Section Meeting**, Rochester Institute of Technology, Rochester, New York. (Sept. 2011, p. 1187)

October 2012

* 1–5 **New trends in Dynamical Systems**, Salou, Catalonia, Spain.
Goal: To show the recent developments in Dynamical Systems. Precisely, we will focus on Qualitative theory of differential equations,

discrete dynamical systems (real and complex) and applications to Celestial mechanics.

Sessions: The conference will have about 30 plenary sessions (no parallel sessions) and a poster session. We plan about 150 participants.

Information: <http://www.gsd.uab.cat/ntds2012/index.php>.

2–4 **SIAM Conference on Mathematics for Industry: Challenges and Frontiers (MI12)**, The Curtis, A Doubletree by Hilton, Denver, Colorado. (Aug. 2011, p. 1014)

3–6 **International Conference on Applied and Computational Mathematics (ICACM)**, Middle East Technical University (METU), Ankara, Turkey. (Oct. 2011, p. 1325)

13–14 **AMS Southeastern Section Meeting**, Tulane University, New Orleans, Louisiana. (Aug. 2011, p. 1014)

20–21 **AMS Central Section Meeting**, University of Akron, Akron, Ohio. (Aug. 2011, p. 1014)

27–28 **AMS Western Section Meeting**, University of Arizona, Tucson, Arizona. (Aug. 2011, p. 1014)

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.

August 2013

* 5–9 **1st Mathematical Congress of the Americas**, Guanajuato, Mexico.

Description: The goals of the Mathematical Congress of the Americas are to highlight the excellence of mathematical achievements in the Americas within the context of the international arena and to foster the scientific integration of all the mathematical communities in the continents. It is anticipated that the MCA will take place every 4 years starting in 2013.

Information: <http://www.mca2013.org>.

September 2013

* 1–August 31, 2014 **Call for Research Programmes 2013–2014**, Centre de Recerca Matemàtica, Bellaterra, Barcelona, Spain.

Description: The Centre de Recerca Matemàtica (CRM) invites proposals for Research Programmes for the academic year 2013–2014. CRM Research Programmes consist of periods ranging between two to five months of intensive research in a given area of mathematics and its applications. Researchers from different institutions are brought together to work on open problems and to analyse the state and perspectives of their area.

Deadline: The deadline for submission of proposals is November 18, 2011.

Information: Guidelines and application instructions can be found at http://www.crm.cat/CALLS/CALLS_RESEARCH_PROGRAMS/Call_Research_Program_1314.htm.