
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/>.

October 2013

* 6 **Mini-course: Theoretical and Applied Tools in Population and Medical Genomics**, Centre de recherches mathématiques, Montréal, Canada.

Description: This course is an introduction to the coalescent and its applications to modern population genetics and genomics. Derivation and properties of basic coalescent model and extension to include factors such as recombination, geographic structure and natural selection. Use of the coalescent in analyzing data for disease gene mapping, recombination rate estimation, and detection of recent adaptive evolution. Use of coalescent methodologies in large-scale surveys of genetic variation. Applications to standard or next-generation sequencing data for inferences from natural populations and disease cohorts. Use of public domain softwares. This course will be followed by the workshop on Coalescent Theory: New Developments and Applications, October 7-11, 2013.

Information: http://www.crm.umontreal.ca/2013/Population13/index_e.php.

* 7-11 **Birational geometry of complex algebraic varieties**, Centre International de Rencontres Mathématiques (CIRM), Luminy, Marseille, France.

Description: This conference will gather mathematicians working on different aspects of complex algebraic geometry with a special emphasis on classification theory. During this week, the following topics related to birational geometry will be addressed: links between geometry and arithmetic, hyperbolicity, automorphisms groups, foliations, fundamental group and uniformisation, singularities,

rationally connected varieties, moduli spaces of higher dimensional varieties.

Information: http://www.cirm.univ-mrs.fr/index.html/spip.php?rubrique2&EX=info_rencontre&annee=2013&id_renc=949

* 7-11 **ERC Workshop on Geometric Measure Theory, Analysis in Metric Spaces and Real Analysis**, Centro di Ricerca Matematica “Ennio De Giorgi”, Palazzo Puteano, Piazza dei Cavalieri 3, Pisa, Italy.

Description: The workshop is funded by ERC “GeMeThnES GA n. 246923”. A number of participation grants are available for young mathematicians upon selection. The schedule will include a special session for short talks of the selected young mathematicians who request to give a talk. To ensure a selection on a larger basis, we call for applications from prospective candidates and invite senior mathematicians to encourage young researchers in this area to apply.

Organizers: G. Alberti, L. Ambrosio, C. De Lellis.

Main speakers: W. K. Allard, C. Bellettini, V. Bogachev, Z. Buczolich, G. David, G. De Philippis, S. Delladio, B. Kirchheim, A. Lemenant, X. Liang, O. Maleva, A. Máthé, P. Mattila, U. Menne, E. Paolini, M. Petrache, T. Rivière, T. Schmidt, S. Shaposhnikov, G. Speight, Y. Tonegawa, T. Toro, S. Wenger, N. Wickramasekera.

Deadline for application: July 31, 2013. Prospective candidates must complete the on-line application and send their curriculum vitae by e-mail to: crm@sns.it. For on-line application log onto <http://crm.sns.it/event/278/financial.html>.

Information: <http://crm.sns.it/event/278/index.html#title>.

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/>.

* 7-11 **Multiple Zeta Values, Multiple Polylogarithms and Quantum Field Theory**, ICMAT, Campus de Cantoblanco, Madrid, Spain.

Description: Multiple zeta values (MZVs) and their generalizations, i.e., multiple polylogarithms (MPLs) have recently attracted much attention, both in pure mathematics and theoretical physics. A systematic study only started in the early 1990s, although the prehistory can be traced back to Euler in the 18th century. Research on MZVs and MPLs comprises several mathematical areas, including algebra (Hopf and Lie algebras), combinatorics (double shuffle relations), algebraic geometry (Grothendieck's motives), Lie group theory (Kashiwara-Vergne conjecture), and, of course, number theory. Moreover, they have deep connections with high-energy physics (Feynman diagrams in perturbative quantum field theory).

Information: <http://www.icmat.es/congresos/MZV-School/howtoarrive.html>; <http://www.icmat.es/congresos/MZV-School>.

* 11-12 **Workshop on Mathematics of Electoral Systems: Voting, Apportioning and Districting**, Budapest, Hungary.

Description: Researchers and advanced Ph.D. students are invited to submit papers to the Workshop. Both theoretical and applied contributions are welcome.

Keynote speakers: Felix Brandt (TU München), Friedrich Pukelsheim (Universität Augsburg).

Deadline: Papers should be submitted to mes-vad@uni-corvinus.hu by August 20, 2013.

Information: <http://mes-vad.uni-corvinus.hu>.

* 13-17 **Homogeneous Dynamics, Unipotent Flows and Applications**, Israel Institute for Advanced Studies, Jerusalem, Israel.

Description: This is the opening conference of a special semester titled "Arithmetics and Dynamics"; which shall be held at the Israel Institute for Advanced Studies located at the Hebrew University of Jerusalem. The conference is in honor of Marina Ratner and her work, and will be devoted to homogeneous dynamics and their applications.

Organizing and Scientific Committee: H. Furstenberg, E. Lindenstrauss, S. Mozes, P. Sarnak, B. Weiss.

Information: <http://www.as.huji.ac.il/content/research-group-conference-homogeneous-dynamics-unipotent-flows-and-applications>.

* 18-19 **Lagrange Days**, Centre Internat. de Rencontres Math. (CIRM) Luminy, Marseille, France.

Description: Two hundred years after he passed away, CIRM wishes to commemorate Joseph-Louis Lagrange, a mathematician and astronomer who was born in 1736 in Turin and died in 1813 in Paris. Mathematicians and historians from France, Italy, Germany, England and Russia will provide an overview of the significant heritage left by Lagrange. Described as a "mathematician-philosopher", "first geometer since Newton" or "brilliant inventor", he was one of the main scientists who settled the foundations of "calculus of variations", a branch of mathematics with many applications in analytical mechanics and physics, especially through the "principle of least action".

Themes: The main themes that will be developed over the two-day conference are dynamical systems, partial differential equations, calculus of variations, probability theory, wave propagation, continuum mechanics, fluids and celestial mechanics.

Information: <http://math.univ-lyon1.fr/~benzoni/Lagrange/Lagrange-en.html>.

* 25-26 **1st Annual Southeastern Conference for Undergraduate Women in Mathematics**, Clemson University, Clemson, South Carolina.

Description: The Southeastern Conference for Undergraduate Women in Mathematics is a weekend conference to increase retention of women in mathematics. While everyone is invited to attend the conference, the speakers for this conference will consist of two invited plenary speakers and twenty-minute contributed talks from

female undergraduates or first year graduate students speaking on their undergraduate research. In addition to the talks, there will be a panel featuring the plenary speakers and other female mathematicians to address issues relevant to aspiring female mathematicians. We will also host a pizza social on Saturday evening.

Information: <http://www.ces.clemson.edu/~jimlb/SCCUWM/2013/SCCUWM.html>.

November 2013

* 3-8 **27th Large Installation System Administration Conference**, Washington Marriott, Wardman Park, 2660 Woodley Road, NW Washington, D.C.

Description: Join us in Washington, D.C., for LISA '13, the 27th Large Installation System Administration Conference! Please note that for 2013, LISA will take place earlier than in recent years: November 3-8, 2013. The annual LISA conference is the meeting place of choice for system and network administrators and engineers; it is the crossroads of Web operations, DevOps, enterprise computing, educational computing, and research computing. The conference serves as a venue for a lively, diverse, and rich mix of technologists of all specialties and levels of expertise. LISA is the place to teach and learn new skills, debate current issues, and meet industry gurus, colleagues, and friends.

Information: <http://www.usenix.org/conference/lisa13>.

* 4-8 **Mathematics and Geosciences: Global and Local Perspectives**, ICMAT, Campus de Cantoblanco, Madrid, Spain.

Description: On the occasion of the MPE 2013, the ICMAT, CSIC, the UAM, the UCM and the UPM want to highlight the decisive role Mathematics plays in the study of local as well as global issues in Earth Sciences.

Topics: Climatology and paleoclimatology, oceanography, geomagnetic field, the earth's rotation, remote sensing, natural hazards, structure and geodynamics, renewable energies, social and environmental aspects. These topics will be addressed in a global perspective on the Earth as well as in a local point of view on Earth Science MPE2013 webpage: <http://mpe2013.org/workshop/mathematics-and-geosciences-global-and-local-perspectives/>.

Information: <http://www.icmat.es/facilities/howtoarrive>; <http://www.icmat.es/congresos/mag2013>.

* 11-15 **Symplectic Techniques in Dynamical Systems**, ICMAT, Campus de Cantoblanco, Madrid, Spain.

Description: This is the first conference organized under the auspices of the Viktor Ginzburg Laboratory (http://www.icmat.es/severo-ochoa/Actividades/ICMat_Laboratories/Ginzburg) at ICMAT-Madrid.

Theme: The main theme of the conference is the interaction between the dynamics and geometrical perspectives in symplectic and contact topology. The conference is the closing event of the CRM Research Programme of Geometry and Dynamics of Integrable Systems. <http://www.crm.cat/en/Actividades/Pages/ActivityDescriptions/RP-Geometry-and-Dynamics-of-Integrable-Systems.aspx>.

Organizers: Alberto Enciso, Viktor Ginzburg, David Martín de Diego, Eva Miranda, Daniel Peralta, Salas Francisco Presas.

Lodging: There are available lodging grants for students.

Information: <http://www.icmat.es/facilities/howtoarrive>; <http://www.icmat.es/congresos/STDS/>.

* 27-29 **BMS Intensive Course on Evolution Equations and their Applications**, Technical University Berlin, Berlin, Germany.

Description: The second BMS Intensive Course is a workshop on topics related to evolution equations and their applications. It provides a forum for Ph.D. students, postdoctoral researchers, and young faculty members to present and discuss their current research. It

gives the opportunity to connect to other mathematicians working on similar topics and establish contacts for future collaborations.

Topics: Multiscale problems, thin-film and lubrication equations, reaction-diffusion systems, variational methods and numerics of PDEs, gradient flows and optimal transport, stochastic processes and PDEs.

Information: http://www.math.tu-berlin.de/?BMS_PDE.

* 27–29 **Recent Trends in Algebraic and Geometric Combinatorics**, ICMAT, Campus de Cantoblanco, Madrid, Spain.

Description: Over the past four decades, algebraic combinatorics has evolved into an important branch of modern mathematics. Nowadays, it plays an important role in a wide variety of subjects, such as, for instance, Representation Theory, Number Theory, Free Probability, Quantum Field Theory, Statistical Mechanics, Control Theory, Geometric Integration Methods, Lyons' Rough Paths Theory, Percolation Theory, Discrete Geometry, Algebraic Geometry. The 3-days workshop Recent Trends in Algebraic and Geometric Combinatorics (AlGeCo2013) aims at bringing together leading researchers working in algebraic and geometric combinatorics. The three principal topics are: applications of modern combinatorics in algebra, enumerative combinatorics and combinatorial geometry. The workshop shall provide a platform for discussions around recent progress.

Information: <http://www.icmat.es/RTAGC/howtoarrive.html>.

December 2013

* 2–4 **Quasilinear PDEs and Game Theory**, Uppsala University, Uppsala, Sweden.

Description: In connection with the program on evolutionary problems at Institut Mittag-Leffler, Stockholm, Sweden, there will be an international conference on quasilinear PDEs and game theory in Uppsala, 70 km north of Stockholm.

Main topics: Nonlinear partial differential equations, viscosity solutions, game theory, probability theory, stochastic processes.

Information: <http://www.math.uu.se/quasilinear-pdes-and-game-theory>.

* 2–6 **Deterministic and Stochastic Dynamics in Economics and Finance**, Centro di Ricerca Matematica Ennio De Giorgi, Palazzo Puteano, Piazza dei Cavalieri 3, Pisa, Italy.

Description: The modeling of economic and financial systems is a complex and challenging task, and, as the current crisis has shown, new ideas and approaches are needed to understand interlinkages and tackle instabilities. The aim of this workshop is to bring together scholars from different disciplines interested in the mathematical modeling of economic and financial systems. Contributions from dynamical systems theory, stochastic processes, statistical physics, and computational economics or finance are presented and discussed. The workshop aims also to bring together ideas and models based on deterministic dynamics as well as stochastic dynamics with a special emphasis on the interaction between these two aspects both in the analysis and in the modelization of financial and economics time series.

Registration deadline: November 24, 2013.

Speakers: G. Bottazzi, R. Dieci, R. Douady, T. Hens, C. Hommes, S. Marmi, M. Marsili, D. Pinheiro, K. Reiner Schenk-Hoppe', F. H. Westerhoff.

Information: <http://crm.sns.it/event/282/>.

* 3–5 **6th Minimeeting on Differential Geometry**, Center for Research in Mathematics (CIMAT), Guanajuato, Mexico.

Description: The aim of the 6th Minimeeting on Differential Geometry is to bring distinguished U.S. based mathematicians to CIMAT to deliver series of lectures for researchers and postgraduate students working in the area of differential geometry, in order to enrich and stimulate the research environment in Mexico and provide a space for academic interaction.

Guest Speakers: John Ratcliffe (Vanderbilt University) Distinguished Professor Guest of the Mexican Academy of Sciences, Pablo Suarez Serrato (IMATE-DF, UNAM), Luis Hernandez Lamonedá (CIMAT).

Support: There is no registration fee. There will be some financial support for local expenses for participants, mainly graduate students who wish to attend the conference.

Deadline: For registration and application for support is November 1, 2013.

Information: <http://sites.google.com/site/6thminimeetingondiffgeom/>.

* 16–19 **deLeónfest 2013**, ICMAT, Campus de Cantoblanco, Madrid, Spain.

Description: This workshop is to commemorate the 60th birthday of Manuel de León. Manuel de León is one of the most important researchers on geometric mechanics. It is worth highlighting his contributions on a wide range of topics such as symplectic geometry, Poisson manifolds, nonholonomic mechanics, Cosserat media, geometric integrators, optimal control theory, among many others. Another facet that makes Manuel de León well-known is his intense dedication to the diffusion of mathematics and his role in mathematical organizations at the international and national levels, including the International Mathematical Union (IMU) and the Real Sociedad Matemática Española (RSME). One could keep going by emphasizing his work on the didactics of mathematics, its popularization, edition and direction of scientific journals, and many other facets. The sum of all these contributions makes Manuel de León deserve this tribute.

Information: <http://www.icmat.es/facilities/howtoarrive>; <http://www.icmat.es/deLeonfest/>.

* 16–20 **2013 Taiwan International Conference on Geometry**, National Taiwan University, Taipei, Taiwan.

Description: This conference is of a series of biennial international conferences on Differential Geometry in Taiwan. An important area in Geometry will be specified as the main theme each time. Our purpose is to create a discussion and interaction platform in the chosen area, and at the same time to foster future co-operations and introduce new participants into the field. Some mini courses will also be arranged before the conference as a preparation. The topic for the conference in 2011 was "Special Lagrangians and Related Topics" and for 2013 conference, we will focus on "Geometry of General Relativity".

Information: <http://www.math.ntu.edu.tw/~ctsdev/workshop/Default/index.php?WID=154>.

* 17–20 **International Conference on Mathematics Education and Mathematics in Engineering and Technology**, Mohandas College of Engineering & Technology (MCET), Anad, Nedumangad, Thiruvananthapuram, Kerala state, India.

Description: The conference is under the auspices of the Department of Mathematics, technically supported by the Kerala Mathematical Association, Indian Society of Industrial and Applied Mathematics and the Indian Society for Technical Education (Kerala Section). The main thrust areas are mathematical modeling, simulation and computing in engineering, science and technology, random process, distribution theory and applications. calculus, differential and integral equations, numerical analysis, operations research, linear algebra, biomathematics and applications, mathematics and mathematics education for the development of engineering, science, and technology. The conference includes invited talks, paper presentations, poster sessions and panel discussions.

Information: <http://www.mcetonline.com/icmet>.

January 2014

* 6–11 **Stochastic Partial Differential Equations and Applications**, Bellavista Relax Hotel, Levico (prov. Trento), Italy.

Description: It is the 9th edition of the same kind of international meeting about the Stochastic Partial Differential Equations and

Applications, organized by the CIRM (Centro Internazionale per la Ricerca Matematica), by Gnampa (Gruppo Nazionale per l'Analisi Matematica, la Probabilità e le loro Applicazioni) dell'Inddam (Istituto Nazionale di Alta Matematica) and by the Department of Mathematics of the University of Trento (Italy). As in the past editions, the meeting will focus on the various aspects theoretical and applicative of the Stochastic Partial Differential Equations.

Information: <http://www.science.unitn.it/~tubaro/>.

February 2014

* 4-7 **Function Theory on Infinite Dimensional Spaces XIII**, ICMAT, Campus de Cantoblanco, Madrid, Spain.

Description: This Conference, organized by ICMAT and the research team Geometric and nonlinear functional analysis, will focus on the interplay of three main lines: Global and geometrical analysis, including analysis on measure metric spaces, convexity, differentiability, and geometry of Banach spaces, hypercyclicity and multilinear analysis in Banach spaces. First Announcement Letter (PDF); http://www.icmat.es/congresos/2014/ftida/FirstAnnouncement_2014.pdf.

Information: <http://www.icmat.es/facilities/howtoarrive>; <http://www.icmat.es/congresos/2014/ftida/>.

* 10-21 **Higher Structures in Algebraic Analysis**, University of Padova, Department of Mathematics, Padova, Italy.

Description: The School will be taught during the first week and center around four minicourses. The Workshop will run during the second week and include a series of colloquium-style talks. We will try to make the School more introductory and the Workshop more advanced. During the first week, the minicourses will be complemented by daily exercise and open discussion sessions. During the second week, the invited talks will be accompanied by short communications by the participants, and time for open discussions will also be provided. Please refer to the homepage for registration. Limited financial support is available for young researchers.

Topics: Among the topics discussed: Infinity categories, Derived Geometry, Hodge D-modules, Non-commutative Hodge Structures, Kobayashi-Hitchin correspondence.

Information: <http://events.math.unipd.it/hsaal/>.

March 2014

* 5-7 **International Workshop on Discrete Structures (IWODS)**, Centre for Advanced Mathematics and Physics, National University of Sciences and Technology, H-12 Islamabad, Pakistan.

Description: The workshop will encompass a variety of topics but the main focus will remain on graph theory and discrete optimization. It is our intention to convert this workshop into a memorable event through a variety of activities around various research themes and transform it into platform for discussion fueled by current research. We hope that this will help establish new collaborations and strengthen the old one, at the regional, national, and international levels.

Information: <http://www.camp.nust.edu.pk/IWODS2014/>.

* 10-June 13 **Algebraic Techniques for Combinatorial and Computational Geometry**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California.

Description: In the past four years, the landscape of combinatorial geometry has considerably changed due to the work of Guth and Katz. More recently, Green and Tao stunningly solved the long-standing conjecture of Dirac and Motzkin on the number of ordinary lines. What these results have in common is algebraic geometry. The application of algebraic geometry to problems in incidence geometry has been a rather surprising development. This interdisciplinary work is still at its infancy, and a major goal of this program is to provide a venue for deepening and widening the interaction between

combinatorial geometry, algebraic geometry, Fourier analysis, and hopefully other mathematical disciplines too. An application and registration form are available online.

Application deadline: December 10, 2013.

Information: <http://www.ipam.ucla.edu/programs/ccg2014>.

* 12-14 **IAENG International Conference on Operations Research 2014**, Hong Kong, China.

Description: The conference ICOR'14 is held under the International MultiConference of Engineers and Computer Scientists 2014. The IMECS 2014 is organized by the International Association of Engineers (IAENG), a non-profit international association for the engineers and the computer scientists. All submitted papers will be under peer review and accepted papers will be published in the conference proceeding (ISBN: 978-988-19252-5-1). The abstracts will be indexed and available at major academic databases. The accepted papers will also be considered for publication in the special issues of the journal *Engineering Letters*, in IAENG journals and in edited books. **Information:** <http://www.iaeng.org/IMECS2014/ICOR2014.html>.

* 24-28 **Combinatorial Geometry Problems at the Algebraic Interface**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California.

Description: A goal of the workshop is to enhance and foster a two-way interaction between algebraic geometers and combinatorial and computational geometers, so as (a) to allow the latter community to learn more from algebraic geometers about the known tools and techniques that are relevant to combinatorial geometry, and (b) to attract algebraic geometers to the new application area, and get them involved in the study of the numerous challenging problems in algebraic geometry that the new area raises. We expect to achieve this goal by offering several survey talks on algebraic geometry, specially tailored problem sessions, and ample time for free discussions. This workshop will include a poster session; a request for posters will be sent to registered participants in advance of the workshop. An application and registration form are available online.

Application deadline: January 27, 2014.

Information: <http://www.ipam.ucla.edu/programs/ccgws1/>.

April 2014

* 7-11 **Tools from Algebraic Geometry**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California.

Description: A central challenge that the workshop will address is how to adequately identify the class of problems in discrete geometry susceptible to the algebraic method. The workshop will include expository talks by experts that make classical results of algebraic geometry accessible to researchers in discrete geometry by explaining them in modern terms. Another important goal of this workshop is to expose experts in algebraic geometry to new applications, and present them with some open problems. This workshop will include a poster session; a request for posters will be sent to registered participants in advance of the workshop. An application and registration form are available online.

Application deadline: February 10, 2014.

Information: <http://www.ipam.ucla.edu/programs/ccgws2/>.

* 28-May 2 **AIM Workshop: Exact crossing numbers**, American Institute of Mathematics, Palo Alto, California.

Description: This workshop, sponsored by AIM and the NSF, will be devoted to tackling several long-standing open problems in the field of crossing numbers of graphs.

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

May 2014

* 5–9 **The Takeya problem, Restriction problem, and Sum-product Theory**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California.

Description: The workshop will also examine questions related to distance sets and sum-product phenomena in continuous and finite field settings. While there has been substantial progress on the corresponding discrete problems, the continuous variants remain less understood. We hope that the new algebraic methods can shed more light on these questions; for instance, a major open problem is whether the sum-product phenomenon can ultimately be understood in an algebraic way. The workshop will be an excellent opportunity for experts who study these problems in different settings to interact and learn from one another. This workshop will include a poster session; a request for posters will be sent to registered participants in advance of the workshop. An application and registration form are available online.

Application deadline: March 3, 2014.

Information: <http://www.ipam.ucla.edu/programs/ccgws3/>.

* 12–16 **28th Automorphic Forms Workshop**, Moab, Utah.

Description: Over the last 27 years, the annual workshop on automorphic forms and related topics has remained a small and friendly conference. Those attending range from students to new Ph.D.'s to established researchers. For young researchers, the conference has provided support and encouragement. For accomplished researchers, it has provided the opportunity to mentor as well as a forum for exchanging ideas. The workshop has become internationally recognized for both its high-quality research talks and its supportive atmosphere for junior researchers. Participants present cutting-edge research in all areas related to automorphic forms. This year, the 2014 Automorphic Forms Workshop will be held in Moab, Utah at the Moab Arts and Recreation Center. Moab, in southern Utah, is near Arches and Canyonlands National Parks and other scenic landmarks. The Workshop will be organized and hosted by Brigham Young University.

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

* 19–22 **SIAM Conference on Optimization (OPI4)**, Town and Country Resort & Convention Center, San Diego, California.

Description: The SIAM Conference on Optimization will feature the latest research in theory, algorithms, software and applications in optimization problems. A particular emphasis will be put on applications of optimization in health care, biology, finance, aeronautics, control, operations research, and other areas of science and engineering. The conference brings together mathematicians, operations researchers, computer scientists, engineers, software developers and practitioners, thus providing an ideal environment to share new ideas and important problems among specialists and users of optimization in academia, government, and industry.

Information: <http://www.siam.org/meetings/op14/>.

* 19–23 **Finding Algebraic Structures in Extremal Combinatorial Configurations**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California.

Description: Understanding the fine structure of extremal configurations is a key step in the solution of many problems in extremal combinatorics. For example, in many cases a group action underlies the structure found in an extremal scenario, making the problem amenable to algebraic methods. This principle is illustrated by recent work which has applied techniques from algebra, algebraic geometry, model theory and additive combinatorics to obtain important new results in discrete geometry. We expect this fusion of algebraic geometry and combinatorics to become a very active area of research in the coming months and years. It is our aim to showcase the most exciting results, techniques and recent trends in this workshop. This workshop will include a poster session; a request

for posters will be sent to registered participants in advance of the workshop. An application and registration form are available online. **Application deadline:** March 24, 2014.

Information: <http://www.ipam.ucla.edu/programs/ccgws4/>.

* 22–25 **13th Serbian Mathematical Congress**, Vrnjacka Banja, Serbia.

Description: The 13th Serbian Mathematical Congress represents the central scientific event of the year 2014 in the Republic of Serbia. The meeting has an international character and is open for all fields of mathematics and computer sciences. The congress agenda includes plenary lectures, invited lectures and short presentations organized in the following sections: Field 1: Set theory, topology, logic, algebra, discrete mathematics, number theory; Field 2: Numerical mathematics, applied mathematics; Field 3: Real and functional analysis, differential equations, complex analysis, probability and statistics; Field 4: Geometry, algebraic geometry and topology, mathematical physics; Field 5: History, learning, teaching of mathematics; Field 6: Theoretical computer sciences, computer sciences; Field 7: Information technology. Submitted papers will be edited by part of the Programme Committee from the corresponding field.

Information: <http://tesla.pmf.ni.ac.rs/people/smak/index.php>.

* 25–28 **XVIII Geometrical Seminar**, Vrnjačka Banja, Serbia.

Description: XVIII Geometrical Seminar will bring together mathematicians, physicists and engineers interested in Geometry and its applications, to give lectures on new results, exchange ideas, problems and conjectures.

Conference topics: Differential geometry, topology, Lie groups, mathematical physics, discrete geometry, integrable systems, visualization, computer graphics, engineering graphics. Other subjects related to the main themes are welcome.

Information: <http://tesla.pmf.ni.ac.rs/people/geometrijskiseminarxviii/index.php>.

June 2014

* 3–6 **Moduli - Operads - Dynamics II**, Tallinn University of Technology, Tallinn, Estonia.

Description: Main purpose of MOD '14 is to stimulate and promote interactions between the following major research areas: deformation theory, moduli, operads, the differential graphical calculus (DGC), dynamics. These topics in great deal arise as main ingredients of the applied category theory with wide application prospects everywhere in contemporary science, technology and cognition. Main topics include, but not limited to Architecture and dynamics of operadic systems; Deformation theory and moduli Hopf algebra; Integrable models Lie theory, representation theory; Mathematics of quanta; Noncommutative geometry.

Information: <http://www.astralgo.com/cweb/mod14/>.

* 12–14 **Riemann, topology and physics**, Institut de Recherche Mathématique Avancée, University of Strasbourg, Strasbourg, France.

Description: The conference is part of a series of bi-annual conferences “Encounter between Mathematicians and Theoretical Physicists” and it is addressed to a large audience.

Organizers: Lizhen Ji (Michigan) and Athanase Papadopoulos (Strasbourg).

Invited speakers: Norbert A. Campo (Basel), Nicolas Bergeron (Jussieu), Franis David (CEA, Paris), Charles Frances (Orsay), Jeremy Gray (Open Univ. UK), Joël Merker (Orsay), Catherine Meusburger (Erlangen), Bob Penner (Caltech at Aarhus), Alexey Sossinsky (Moscow) and Dmitri Zvonkine (Paris).

Language: English. Some of the talks will be survey talks intended for a general audience. Graduate students and young mathematicians are welcome.

Registration: Is required (and free of charge) at this link. Hotel booking can be asked for through the registration link. For practical and other questions please email the organizers: Lizhen Ji, lji@umich.edu; Athanase Papadopoulos, athanase.papadopoulos@math.unistra.fr.

Information: <http://www-irma.u-strasbg.fr/article1375.html>.

* 16-19 **8th Annual International Conference on Mathematics & Computer Science**, Athens, Greece.

Description: The conference is soliciting papers (in English only) from all areas of Mathematics, Computer Sciences (theoretical) and other related areas.

Information: <http://www.atiner.gr/mathematics.htm>.

July 2014

* 13-15 **8th International Conference on Modelling in Industrial Maintenance and Reliability (MIMAR)**, St. Catherine's, Oxford, United Kingdom.

Description: This event is the premier maintenance and reliability modelling conference in the UK and builds upon a very successful series of previous conferences. It is an excellent international forum for disseminating information on the state-of-the-art research, theories and practices in maintenance and reliability modelling and offers a platform for connecting researchers and practitioners from around the world.

Information: http://www.ima.org.uk/conferences/conferences_calendar/mimar8.cfm.

* 20-25 **Sixteenth International Conference on Fibonacci Numbers and Their Applications**, Rochester Institute of Technology, Rochester, New York.

Description: The purpose of the conference is to bring together people from all branches of mathematics and science with interests in recurrence sequences, their applications and generalizations, and other special number sequences. For the conference Proceedings, manuscripts that include new, unpublished results (or new proofs of known theorems) will be considered.

Information: <http://www.mathstat.dal.ca/fibonacci/>.

August 2014

* 11-15 **AIM Workshop: Neglected infectious diseases**, American Institute of Mathematics, Palo Alto, California.

Description: This workshop, sponsored by AIM and the NSF, will be devoted to mathematical modeling of vector-borne diseases that are a cause of several million deaths and innumerable cases of sickness every year.

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

* 11-December 19 **Understanding Microbial Communities; Function, Structure and Dynamics**, Isaac Newton Institute, Cambridge, United Kingdom.

Description: The importance of microbial communities for health, industry and the natural environment cannot be overstated. Despite this, there is an enormous gap between the levels of our empirical knowledge of microbial communities, composition and experimental and theoretical understanding of their function, structure, and dynamics. Developing and advancing mathematical and computational approaches for the study of microbial communities has huge potentials for this field. The aim of this programme is to build an interactive community of theoretical and empirical scientists that can provide these developments. Several workshops will take place during the programme. For full details please see <http://www.newton.ac.uk/events.html>.

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

September 2014

* 2-7 **12th AHA Conference-Algebraic Hyperstructures and its Applications**, Democritus University of Thrace, School of Engineering, Department of Production and Management Engineering 67100, Xanthi, Greece International Algebraic Hyperstructures Association (IAHA).

Description: The series of International Conferences on Algebraic Hyperstructures and Applications (AHA) aims at bringing together researchers and academics for the presentation and discussion of novel theories and applications of Algebraic Hyperstructures. The conference covers a broad spectrum of topics related to Algebraic Hyperstructures including (but not limited): Hypergroupoids, semi-hypergroups, hypergroups, hyperrings, hyperfields, hypervector spaces, hyperalgebras, hyperlattices, hv-structures, hv-matrices, hyperstructures associated with binary or n-ary relations, non-associative hyperstructures, join spaces, hyperstructures associated to geometric spaces, ordered hyperstructures, t-groupoids, partial semihypergroups, fuzzy algebraic hyperstructures, fuzzy/rough/soft sets and hyperstructures, cryptography, codes, assembly line design, graph and hypergraph theory, formal languages, automata, artificial intelligence, etc.

Information: <http://aha2014.pme.duth.gr>.

* 8-December 12 **Mathematics of Turbulence**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California.

Description: This IPAM program is centered on fundamental issues in mathematical fluid dynamics, scientific computation, and applications including rigorous and reliable mathematical estimates of physically important quantities for solutions of the partial differential equations that are believed, in many situations, to accurately model the essential physical phenomena. This program will bring together physicists, engineers, analysts, and applied mathematicians to share problems, insights, results and solutions. Enhancing communications across these traditional disciplinary boundaries is a central goal of the program. An application and registration form are available online.

Application deadline: June 8, 2014.

Information: <http://www.ipam.ucla.edu/programs/mt2014/>.

* 18-20 **Riemann, Einstein and geometry**, Institut de Recherche Mathématique Avancée, University of Strasbourg, France.

Description: The conference is part of a series of bi-annual conferences "Encounter between Mathematicians and Theoretical Physicists" and it is addressed to a large audience.

Organizers: Athanase Papadopoulos (Strasbourg) and Sumio Yamada (Tokyo).

Invited speakers: Jean-Pierre Bourguignon (Paris), Mihalis Dafermos (Princeton), Erwann Delay (Avignon), Jacques Franchi (Strasbourg), Hubert Goenner (Göttingen), Eric Gourgoulhon (Observatoire de Paris), Ouassama Hijazi (Nancy), Gerhard Huisken (Tübingen), Emmanuel Humbert (Tours), Marc Mars (Salamanca), Andre Neves (Imperial College, London), Richard Schoen (Stanford) and Tetsuya Shiromizu (Kyoto).

Language: English. Some of the talks will be survey talks intended for a general audience. Graduate students and young mathematicians are welcome.

Registration: Is required (and free of charge) at this link. Hotel booking can be asked for through the registration link. For practical and other questions please email the organizers: Athanase Papadopoulos, xemailathanase.papadopoulos@math.unistra.fr; Sumio Yamada, yamada@math.gakushuin.ac.jp.

Information: <http://www-irma.u-strasbg.fr/article1377.html>.

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

October 2014

* 23–26 **Ahlfors-Bers Colloquium VI**, Yale University, New Haven, Connecticut.

Description: This conference is the sixth in a series of triennial colloquia devoted to the mathematical legacy of Lars Ahlfors and Lipman Bers. The core heritage is in geometric function theory, quasiconformal mapping, Teichmüller theory and Kleinian groups, hyperbolic manifolds, and partial differential equations including Schramm/Stochastic-Loewner-Evolution/Equations. Today we see the influence of Ahlfors and Bers on algebraic geometry, mathematical physics, dynamics, probability, geometric group theory, number theory and topology.

July 2015

* 6–10 **10th IMACS Seminar on Monte Carlo Methods**, Johannes Kepler University Linz and Radon Institute for Computational and Applied Mathematics, Linz, Austria.

Description: The IMACS Seminar on Monte Carlo Methods is a bi-annual event that previously took place in Brussels, Varna, Salzburg, Berlin, Tallahassee, Reading, Brussels, Borovets, and Annecy-le-Vieux.

Topics: Algorithms for high-dimensional problems and complexity, computational stochastic differential equations, generation of random numbers, low discrepancy point sets and sequences, Markov Chain Monte Carlo, multilevel Monte Carlo.

Information: <http://www.mcm2015.jku.at>.

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