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# 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/>.

## April 2012

\* 6–8 **TORA II: The Second Texas-Oklahoma Representations and Automorphic Forms Conference**, Oklahoma State University, Stillwater, Oklahoma.

**Description:** Texas-Oklahoma Representations and Automorphic Forms (TORA) is a series of conferences hosted in rotation by Oklahoma State University, the University of Oklahoma, and the University of North Texas. The TORA meetings will bring together the automorphic forms and representation theory community of the South Central region to hear about recent research in automorphic forms and representation theory.

**Information:** <http://www.math.okstate.edu/~asgari/tora2.html>.

\* 16–20 **Workshop on Convexity and Asymptotic Geometric Analysis**, Centre de recherches mathématiques, Université de Montréal, Pavillon André-Aisenstadt, 2920, Chemin de la tour, 5th floor, Montréal (Québec), H3T 1J4 Canada.

**Description:** Asymptotic and classical convexity theories are nowadays intertwined. Results of one field are used in the other with numerous applications. Among recent important developments are results of a geometric-probabilistic flavor on the volume distribution in convex bodies, central limit theorems for convex bodies and others, with close links to geometric inequalities and optimal transport. In fact, the geometric theory of convexity is extended to a larger category of (log-concave) measures. This point of view

introduces, in particular, functional versions for many geometric inequalities, and also leads to solutions of some central problems of geometry and analysis.

**Information:** [http://www.crm.umontreal.ca/Convexity12/index\\_e.php](http://www.crm.umontreal.ca/Convexity12/index_e.php).

\* 23–27 **Workshop on Geometric PDE**, Centre de recherches mathématiques, Université de Montréal, Pavillon André-Aisenstadt, 2920, Chemin de la tour, 5th floor, Montréal (Québec), H3T 1J4 Canada.

**Description:** Nonlinear Partial Differential Equations are of fundamental importance in studying geometric and topological questions. Combining geometric insight and analytic techniques, the subject of partial differential equations arising from such questions has developed immensely in recent years. Simultaneously, a new range of challenges emerged.

**Information:** [http://www.crm.umontreal.ca/2012/EDP12/index\\_e.php](http://www.crm.umontreal.ca/2012/EDP12/index_e.php).

## May 2012

\* 7–18 **CIMPA Research School - Senegal 2012**, University Cheikh Anta Diop of Dakar, Dakar, Senegal, Africa.

**Description:** CIMPA and the University Cheikh Anta Diop of Dakar (Senegal) are organizing a research school on Geometric Structures and Control Theory.

**Courses:** Mini-courses will be delivered by A. Banyaga (Penn State University, USA), U. Boscain (Ecole Polytechnique, Paris, France), F.

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**This section** contains announcements of meetings and conferences of interest to some segment of the mathematical public, including ad hoc, local, or regional meetings, and meetings and symposia devoted to specialized topics, as well as announcements of regularly scheduled meetings of national or international mathematical organizations. A complete list of meetings of the Society can be found on the last page of each issue.

**An announcement** will be published in the *Notices* if it contains a call for papers and specifies the place, date, subject (when applicable), and the speakers; a second announcement will be published only if there are changes or necessary additional information. Once an announcement has appeared, the event will be briefly noted in every third issue until it has been held and a reference will be given in parentheses to the month, year, and page of the issue in which the complete information appeared. Asterisks (\*) mark those announcements containing new or revised information.

**In general**, announcements of meetings and conferences 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](mailto:notices@ams.org) or [mathcal@ams.org](mailto:mathcal@ams.org).

**In order** to allow participants to arrange their travel plans, organizers of meetings are urged to submit information for these listings early enough to allow them to appear in more than one issue of the *Notices* prior to the meeting in question. To achieve this, listings should be received in Providence **eight months** prior to the scheduled date of the meeting.

**The complete listing** of the Mathematics Calendar will be published only in the September issue of the *Notices*. The March, June/July, and December issues will include, along with new announcements, references to any previously announced meetings and conferences occurring within the twelve-month period following the month of those issues. New information about meetings and conferences that will occur later than the twelve-month period will be announced once in full and will not be repeated until the date of the conference or meeting falls within the twelve-month period.

**The Mathematics Calendar**, as well as Meetings and Conferences of the AMS, is now available electronically through the AMS website on the World Wide Web. To access the AMS website, use the URL: <http://www.ams.org/>.

Dal'Bo (Universite Rennes 1, France), B. Jakubczyk (Impan, Poland), W. Respondek (INSA of Rouen, France), Ph. Rukimbira (FIU, USA), A. Wade (Penn State University, USA).

**Information:** <http://www.ucad.sn/cimpa>.

\* 13–14 **International Conference on Emerging Trends of Computer and Information Technology (ICETCIT 2012)**, Coimbatore, India.

**Description:** The purpose of the conference is to provide a common forum for researchers, scientists, and students from India and abroad to present their latest research findings, ideas, developments and applications in the broader areas of Information Systems.

**Information:** <http://www.icetcit.com>.

\* 20–23 **The 5th Symposium on Analysis & PDEs**, Purdue University, West Lafayette, Indiana.

**Description:** The symposium will focus on recent developments in Partial Differential Equations which are at the forefront of current international research. The format of the meeting consists of two lecture series (four lectures each) together with hourly invited lectures and short contributed talks. Professor Caffarelli will speak on “Regularity theory for non-linear problems involving non-local diffusions”. Professor Alice Chang will speak on “Non-linear PDEs in the study of conformal invariants”. The overall conference theme ranges from geometry to population dynamics and social sciences. The goal of the meeting is to bring together researchers at different stages of their careers to summarize current results, exchange ideas towards the solution of open problems and also formulate new avenues of research. Graduate students will also be introduced to contemporary research problems.

**Information:** <http://www.math.purdue.edu/~danielli/symposium12>.

\* 20–June 2 **The UGA VIGRE Algebraic Geometry Summer School and Conference**, University of Georgia, Athens, Georgia.

**Description:** The algebraic geometry group at the University of Georgia will organize a 2-week summer school on algebraic geometry. The following lecture series will be given. First week: 1. Curves and their moduli (lectures by Joe Harris and Ian Morrison), 2. Abelian varieties and their moduli (Gregory Sankaran), 3. Minimal model program (James McKernan). Second week: 1. Cycles (Patrick Brosnan), 2. Hodge Theory (Ron Donagi, to be confirmed), 3. Mirror Symmetry (Tony Pantev). There will be research conference in between.

**Support:** We have support for students and recent Ph.D.s. For information and to apply, visit: <http://www.math.uga.edu/~dkrashen/agssp/index.html>.

\* 25–30 **Instabilities and Control of Excitable Networks: From macro- to nano-systems**, Moscow Institute of Physics and Technology, Dolgoprudny, Russia.

**Description:** The conference will be devoted to the problems of complex excitable network dynamics in physiology, biomedicine, physics, chemistry and social systems.

**Topics:** Instabilities in far from equilibrium excitable network dynamics, pattern formation in network-organized systems, control of threshold and kinetic cascade, avalanche-like phenomena, conceptual items and application to natural and social systems.

**Goal:** To advance interdisciplinary research and create new cross-disciplinary links in Russia and abroad. We hope to bring together a diverse energetic group of researchers at different stages of their research careers, working in the field of self-organization in various systems, engineering of excitable biological tissues and control of excitable networks.

**Information:** <http://icenet2012.net>.

\* 28–June 1 **International Conference on Applied Mathematics 2012: Modeling, Analysis and Computation**, City University of Hong Kong, 83 Tat Chee Avenue, Kowloon Tong, Hong Kong.

**Description:** In recent years, tremendous progress has been made in various areas of applied mathematics. This conference will provide a unique forum for exchanging ideas and in-depth discussions

on different aspects of applied mathematics, including analysis and computational methods, and applications. This conference consists of plenary lectures, invited talks and contributed talks. During the conference, the second William Benter Prize in Applied Mathematics will be awarded, and the recipient will give a plenary lecture. The aim of the prize is to recognize outstanding mathematical contributions that have had a direct and fundamental impact on scientific, business, finance and engineering applications.

**Information:** <http://www6.cityu.edu.hk/rcms/ICAM2012/index.html>.

\* 28–June 1 **Tenth Workshop on Interactions between Dynamical Systems and Partial Differential Equations (JISD2012)**, School of Mathematics and Statistics, Universitat Politècnica de Catalunya, Barcelona, Spain.

**Topics:** There will be four main courses, some seminars, communications, and posters. The four courses will be taught by M. Capinski (Geometric methods for invariant manifolds in dynamical systems), M. Gidea (Aubry Mather Theory from a topological viewpoint), H. Shahgholian (Obstacle type free boundaries (Theory and applications)), and E. Valdinoci ((Non) local phase transition equations), within the Master of Science in Advanced Mathematics and Mathematical Engineering (MAMME) of the UPC Graduate School.

**Information:** email: [raquel.caparros@upc.edu](mailto:raquel.caparros@upc.edu); <http://www.ma1.upc.edu/recerca/seminaris/JISD2012/indexjisd2012.html>;

\* 28–June 1 **Workshop on Quantum Many-Body Systems**, Centre de recherches mathématiques, Université de Montréal, Pavillon André-Aisenstadt, 2920, Chemin de la tour, 5th floor, Montréal (Québec), H3T 1J4 Canada.

**Description:** The workshop focuses on recent progress on the analysis of many-body systems in quantum mechanics and related topics.

**Information:** [http://www.crm.umontreal.ca/Systems12/index\\_e.php](http://www.crm.umontreal.ca/Systems12/index_e.php).

\* 29–31 **2012 International Conference on Electrical Engineering (ICEENG'8)**, Cairo.

**Organizer:** The Conference is organized to invite international delegates, to share their latest research findings on Electrical Engineering. ICEENG'8 is organized by Military Technical College (<http://www.mtc.edu.eg>).

**Topics:** Papers on original works are solicited on a variety of topics, including but not limited to the following symposium tracks: Communication systems, computer engineering, biomedical engineering, power engineering, circuits, signals and systems, electromagnetic fields and waves, electronic measurements and instrumentations, remote sensing and avionics, optoelectronics, guidance and control, radar systems, student session.

**Submission:** Please submit full papers as attached file (free .doc or .docx format) to the Conference email address: [iceeng-8@mtc.edu.eg](mailto:iceeng-8@mtc.edu.eg).

**Deadline:** Full Paper Submission Deadline (January 31, 2012).

**Information:** <http://www.mtc.edu.eg/all-conf.htm>.

## June 2012

\* 4–6 **International meeting on “Statistical Analysis: Theory and Applications” (JIATA2012)**, Mohamed First University, Faculty of Science, Oujda, Morocco.

**Objective:** The main objective is to bring together researchers, users of statistics and Ph.D students to discuss and exchange ideas and present new results in the fields of probabilities and statistics according to the proposed themes. The organizers hope to: Bring together researchers in the field of statistics and its uses, to review the recent progress of research in statistics, to enable Ph.D. students to present their research and discuss with other leading researchers.

**Organizer:** The laboratory of stochastic and deterministic modeling (LaMSD) and the CNRST associated research unit (URAC 04), at the Faculty of Science, Mohamed 1st University, Oujda.

**Information:** <http://sciences1.ump.ma/JIASTA2012/>.

\* 4–6 **Workshop on Parameter Estimation for Dynamical Systems**, Eurandom, Eindhoven, The Netherlands.

**Description:** The workshop aims at providing a meeting place for researchers in the area of parameter estimation for deterministic and stochastic differential equations, who will review different methods used to tackle the problems arising in these fields, assess the achieved progress and identify future research directions.

**Information:** <http://www.few.vu.nl/~shota/peds2.php>.

\* 4–8 **Workshop on Geometry of Eigenvalues and Eigenfunctions**, Centre de Recherches Mathématiques, Université de Montréal, Pavillon André-Aisenstadt, 2920, Chemin de la tour, 5th floor, Montréal (Québec), H3T 1J4 Canada

**Description:** Geometric spectral theory focuses on the properties of eigenvalues and eigenfunctions of the Laplacian and other differential operators defined on geometric objects, such as Riemannian manifolds and Euclidean domains. Many problems in the field are motivated by questions originating in the study of real life phenomena: quantum-mechanical effects, vibration of membranes and plates, oscillations of fluids, etc.

**Information:** [http://www.crm.umontreal.ca/Eigenvalues12/index\\_e.php](http://www.crm.umontreal.ca/Eigenvalues12/index_e.php).

\* 11–15 **International Workshop on Complex Analysis and its Applications**, Walchand College of Engineering, Sangli 416415, India.

**Description:** The objective of the workshop is to bring together groups of experts in complex analysis and its applications to discuss recent progress and open problems in this area and thus foster the interaction and collaboration between researchers in diverse fields. In this workshop not only pure but computational and algorithmic aspects will be emphasized.

**Sessions:** The workshop will consist of various short sessions (3–4 lectures each) in subjects of particular relevance in modern complex analysis such as: Geometric function theory, planar harmonic mappings, quasiconformal mappings, potential theory.

**Invited Speakers:** Stephan Ruscheweyh (Germany), Roger Barnard (Texas Tech), Ilpo Laine (Finland), Teodor Bulboacă (Romania), C. S. Aravinda (TIFR Bangalore), S. R. Kulkarni (Pune), Indrajit Lahiri (Kolkata), A. Swaminathan (I.I.T. Roorkee), Gautam Bharali (IISc Bangalore).

**Information:** <http://www.walchandsangli.ac.in>.

\* 22–23 **2nd International Conference of Information Systems, Computer Engineering & Application (ICISCEA 2012)**, Kathmandu, Nepal.

**Description:** ICISCEA 2012 aims at bringing together researchers, engineers and practitioners interested on Information Systems, Computer Engineering and its Application.

**Information:** <http://www.cfisws.com>.

\* 25–29 **Conference on Differential and Difference Equations and Applications 2012 (CDDEA2012)**, Terchova (close to Zilina), Slovak Republic.

**Description:** The Department of Mathematics, University of Zilina, Slovakia, in cooperation with Faculty of Electrical Engineering and Communication, Brno University of Technology, Czech Republic, Poznań; University of Technology, Poland, Kyiv National Economic University, Ukraine organize a traditional conferences on differential and difference equations and their applications.

**Sections:** The following sections are planned: Ordinary differential equations, functional differential equations, partial differential equations, stochastic differential equations, difference equations and dynamic equations on time scales, numerical methods in differential and difference equations. The programme will consist of invited lectures, contributing talks and poster session.

**Information:** <http://fpv.uniza.sk/cddea2012>.

\* 25–July 6 **Seminaire de Mathematiques Superieures 2012: Probabilistic Combinatorics**, University of Montreal, Montreal, Canada.

**Description:** One of the cornerstones of the probabilistic approach to solving combinatorial problems is the following guiding principle: information about global structure can be obtained through local analysis. This principle is ubiquitous in probabilistic combinatorics. It arises in problems ranging from graph colouring, to Markov chain mixing times, to Szemerédi’s regularity lemma and its applications, to the theory of influences. The 2012 Séminaire de Mathématiques Supérieures brings together experts in probabilistic combinatorics from around the world, to explain cutting edge research which in one way or another exhibits this principle.

**Information:** <http://www.msri.org/web/msri/scientific/workshops/summer-graduate-workshops/show/-/event/Wm9214>.

\* 26–28 **The 11th International Workshop on Dynamical Systems and Applications**, Cankaya University, Ankara, Turkey.

**Description:** These workshops constitute the annual meetings of the series of dynamical systems seminars traditionally organized at Middle East Technical University throughout each academic year.

**Theme:** Of this coming workshop will be Fractional Differential Equations and Dynamic Equations with Applications. However, talks are not restricted to these subjects only.

**Information:** <http://tmdankara.org.tr/dsw11/>.

## July 2012

\* 1–21 **IAS/PCMI Summer 2012: Geometric Group Theory**, IAS/Park City Mathematics Institute, Park City, Utah.

**Description:** Some mobility between the Research in Mathematics and Graduate Summer School programs is expected and encouraged, but interested candidates should read the guidelines carefully and apply to the one program best suited to their field of study and experience. Postdoctoral scholars who are working in the field of Geometric Group Theory should apply to the Research Program in Mathematics, not to the Graduate Summer School. Graduate students who are beyond their basic courses and recent Ph.D.’s in all fields of mathematics are encouraged to apply to the Graduate Summer School. Funding will go primarily to graduate students. Postdoctoral scholars not working in the field of Geometric Group Theory should also apply, but should be within four years of receipt of their Ph.D.

**Information:** <http://www.msri.org/web/msri/scientific/workshops/summer-graduate-workshops/show/-/event/Wm9215>.

\* 2–6 **Algebra and Topology: Methods, Computation, and Science (ATMCS 2012)**, International Centre for Mathematical Sciences, Edinburgh, United Kingdom.

**Description:** The goal of the meeting is to provide a forum for discussion of applications of topological methods in science and engineering. The following speakers have confirmed their participation. J.D. Boissonnat (INRIA Sophia Antipolis) R. Van de Weijgaert (Groningen) N. Linial (Hebrew University, Jerusalem) S. Weinberger (University of Chicago) S. Smale (City University of Hong Kong) H. Edelsbrunner (IST, Austria) E. Goubault (Commissariat à l’énergie atomique, Paris), S. Krishnan (University of Pennsylvania), M. Kahle (The Ohio State University), L. Guibas (Stanford University), R. Macpherson (IAS Princeton) (tentative), A. Szymczak (Colorado School of Mines), P. Skrabala/M. Vejděmó-Johansson (Ljubljana/St. Andrews), Y. Mileyko (Duke University). There will be an opportunity for contributed talks.

**Information:** <http://www.icms.org.uk/workshop.php?id=205>.

\* 3–6 **International Symposium on Asymptotic Methods in Stochastics, in Honour of Miklós Csörgő’s work on the occasion of his 80th birthday**, Carleton University, Ottawa, Canada.

**Description:** In 2012 Professor Miklós Csörgő will be celebrating his 80th birthday, as well as his 50 years of continuous publications in



Stochastics (Probability and Statistics) since 1962. On this occasion there will be an International Symposium on Asymptotic Methods in Stochastics. The symposium is part of our ongoing series of workshops at Carleton University, organized with annually varying themes in diverse areas of probability and stochastic processes. The symposium will honour 50 years of Professor Miklós Csörgő's research in probability theory, stochastic processes and mathematical statistics. The topics of the conference can be broadly described as asymptotic methods in stochastics.

**Information:** <http://www.fields.utoronto.ca/programs/scientific/12-13/stochastics/>.

\* 9-11 **15th Galway Topology Colloquium**, University of Oxford, Oxford, United Kingdom.

**Description:** The Galway Topology Colloquium was created in 1997 in Galway with the intention of encouraging graduate students studying Analytic and Set Theoretic Topology to present their findings to a professional, supportive, and inquisitive audience. It is also the established annual arena to bring together British and Irish analytic and set-theoretic topologists to collaborate on their research. Its particular focus is on the active participation of all who attend to promote a spirit of training, learning and communicating. The atmosphere is informal and graduate students are especially encouraged to participate.

**Information:** email: [GalwayTopologyColloquium15@gmail.com](mailto:GalwayTopologyColloquium15@gmail.com); <http://www.maths.ox.ac.uk/events/conferences/galway15>.

\* 9-13 **Algorithmic Number Theory Symposium (ANTS-X)**, University of California, San Diego, California.

**Description:** The ANTS meetings, held biannually since 1994, are the premier international forum for new research in computational number theory. They are devoted to algorithmic aspects of number theory, including elementary number theory, algebraic number theory, analytic number theory, geometry of numbers, arithmetic algebraic geometry, finite fields, and cryptography.

**Information:** <http://math.ucsd.edu/~kedlaya/ants10/>.

\* 15-20 **XXII Brazilian Algebra Meeting**, Salvador, in the State of Bahia, Brazil.

**Description:** This is the largest biennial meeting in Brazil, and one of the most important in Latin America, entirely devoted to Algebra and related topics. Its main objective is to provide an opportunity for researchers and students to exchange ideas, to communicate and discuss research findings in all branches of Algebra. In order to bring together leading experts and new researchers, such as graduate students, post-docs and young faculty members, the meeting will offer plenary talks, mini-courses (in diverse levels), as well as sections of communications and posters. We will be celebrating the 40th anniversary of this event, affectionately called Escola de Álgebra by the Brazilians.

**Information:** <http://www.algebra2012.ufba.br>.

\* 16-18 **Recent Developments in Statistical Multiscale Methods**, University of Goettingen, Germany.

**Description:** Statistical Multiscale Methods have been developed rapidly during the last decades and provide nowadays an indispensable tool for a variety of applications. The aim of this workshop is to provide an up to date overview of the different aspects of this emerging field. This includes on the one hand a rigorous mathematical treatment of statistical multiscale estimators such as risk bound analysis, deviation inequalities and their statistical applications, e.g., the construction of confidence sets. On the other hand, algorithmic and computational issues will be discussed as well, and their performance in various areas of applications, ranging from signal processing, time series analysis and financial statistics to computational genetics and bio-imaging.

**Local Organization:** Axel Munk, Klaus Frick, Thomas Rippl.

**Organizer:** This conference is organized by the German-Swiss research group FOR 916 "Statistical Regularization and Qualitative Constraints" and is sponsored by the German Science Foundation.

**Information:** <http://www.stochastik.math.uni-goettingen.de/for916/SMM2012>.

\* 16-21 **West Coast Algebraic Topology Summer School**, Stanford University, Stanford, California.

**Description:** This summer school is aimed at graduate students and post-docs, though all are welcome. The scientific goal is to provide a modern introduction to algebraic K-theory, with the aim of bringing participants to the research frontier. In particular, the workshop will focus on the algebraic K-theory spectrum, trace methods for computing, localization phenomena, and applications to the topology of manifolds. Some participants will be preparing and giving lectures which have been planned in advance by the scientific committee. The number of lectures each day will be limited, and the additional time used for activities to complement lectures.

**Scientific Committee:** Andrew Blumberg, Bill Dwyer, Teena Gerhardt, John Klein, and Mike Mandell.

**Information:** <http://noether.uoregon.edu/~dps/wcatss2012/>.

\* 29-August 3 **XVIII EBT: 18th Brazilian Topology Meeting**, Circuito das Aguas, in the State of Sao Paulo, Brazil.

**Description:** The Brazilian Topology Meeting (Encontro Brasileiro de Topologia) is held bi-annually in various locations in Brazil. It is a five-day meeting and includes three mini-courses : elementary (intended for students), intermediate, and advanced. The talks usually cover a wide variety of areas within topology and geometry, and applications.

**Information:** <http://www.dm.ufscar.br/~ebt2012/>.

## August 2012

\* 6-10 **Geometric Structures and Representation Varieties NSF Research Network Senior Retreat**, University of Illinois Urbana-Champaign, Urbana, Illinois.

**Description:** The first GEAR Network Retreat will be held August 6-10, 2012. The retreat is designed to build bridges between mathematicians working in areas relating to Geometric structures and representation varieties. Each of the five days of the retreat will feature one of the following themes: Higgs bundles, geometric structures and Teichmüller spaces, dynamics on moduli spaces, special representations and geometric structures, hyperbolic 3-manifolds. There will be two 50-minute lectures in the morning, with the goal of surveying the state-of-the-art, followed by 3 or 4 shorter research lectures in the afternoon. A tentative list of survey speakers includes R. Canary (Michigan), D. Cooper (UCSB), D. Dumas (UIC), N. Dunfield (UIUC), O. Garcia-Prada (CSIC, Madrid), F. Labourie (Paris-Sud), T. Pantev (Penn), J. Smillie (Cornell), A. Wienhard (Princeton) and A. Wilkinson (Chicago).

**Information:** <http://gear.math.illinois.edu/programs/SeniorRetreat2012.html>.

\* 6-10 **ICERM Topical Workshop: Bridging Scales in Computational Polymer Chemistry**, Institute for Computational and Experimental Research in Mathematics (ICERM), Providence, Rhode Island.

**Description:** Many important advances in material and biomedical science will come from controlling the chemical properties and nanoscale morphology of polymer mixtures. Predicting the longtime continuum-level properties of such complex systems poses a canonical computational challenge due to the disparate length and time scales separating the molecular description from the macroscopic behavior, particularly the evolution of morphology. This workshop focuses on four overlapping approaches to bridging this gap: Accelerated Molecular Methods, Coarse-Graining of Molecular Dynamics, Computational Approaches to Self-Consistent Mean Field, and Coupled Molecular and Continuum-Variational models. The goal is to spur the development of hybrid computational methods with the capacity to identify and characterize the rare events and the driving forces which steer the

systems towards equilibrium, and connect the burgeoning growth in parallel-computation techniques for particle-based systems with recently developed classes of continuum models.

**Information:** email: nicole\_henrichs@icerm.brown.edu; <http://icerm.brown.edu/tw12-4-bscpc>.

\* 13-17 2012 CBMS-NSF Conference: **Mathematics of the Social and Behavioral Sciences**, West Chester University, West Chester, Pennsylvania.

**Lecturer:** Donald G. Saari.

**Description:** Emerging areas of mathematical interest are coming from the social and behavioral sciences. What makes these concerns, which are motivated by issues in economics, sociology, political science, and psychology, of particular mathematical interest is that many standard mathematical tools were developed in response to questions from the physical and engineering sciences, which means that often they are not appropriate to analyze concerns from the social and behavioral sciences. The precision of differential equations, for instance, can lead to misleading conclusions for the qualitative types of issues that arise in the social sciences; many questions about aggregation rules, such as voting rules and price models in economics, have not been answered. In other words, to make advances in the mathematical social and behavioral sciences, there is a need to develop different forms of mathematical approaches. The theme of this series is to introduce and describe a portion of them.

**Information:** <http://www.wcupa.edu/math/2012CBMS>.

\* 20-24 **The Fourth Geometry Meeting dedicated to the centenary of A. D. Alexandrov**, The Euler International Mathematical Institute, Saint-Petersburg, Russia.

**Description:** The Euler International Mathematical Institute is organizing the fourth Geometry Meeting dedicated to the centenary of A. D. Alexandrov. The Meeting is to be held at the Euler International Mathematical Institute and the Steklov Institute (St. Petersburg, Russia).

**Topics:** Differential Geometry, PDE in Geometry, Geometric Analysis, Singular spaces, Applications of Geometry, Polyhedra.

**Information:** <http://www.pdmi.ras.ru/EIMI/2012/A100/index.html>.

## September 2012

\* 1-3 **13th International Pure Mathematics Conference**, Quaid-i-Azam University, Islamabad, Pakistan.

**Description:** The 13th international conference in the series of Pure Mathematics Conferences that take place in Islamabad every year in August/September. It is a thematic conference on Algebra, Geometry, and Analysis held under the auspices of the Pakistan Mathematical Society (<http://www.pakms.org.pk>) and Algebra Forum (<http://www.algebraforum.org.pk>).

**Support:** There will be free housing for foreign participants. Some travel grants are available for foreign speakers. Several free recreational trips will be organized in and around Islamabad introducing the unique local and multi-ethnic culture.

**Registration:** Please fill in the on-line registration form at <http://www.pmc.org.pk> and find more information therein. The conference is convened by Professor Dr. Qaiser Mushtaq (Department of Mathematics, Quaid-i-Azam University, Islamabad, Pakistan, [president@pakms.org.pk](mailto:president@pakms.org.pk)).

**Information:** <http://www.pakms.org.pk>, [www.pmc.org.pk](http://www.pmc.org.pk).

\* 3-8 **XVII Geometrical Seminar**, Zlatibor, Serbia Hotel "Ratko Mitrović".

**Conference Topics:** Differential geometry, topology, lie groups, mathematical physics, discrete geometry, integrable systems, visualization, as well as other subjects related to the main themes are welcome.

**Organizers:** Faculty of Mathematics, University of Belgrade, Belgrade, Serbia; Mathematical Institute of the Serbian Academy of Sciences and Arts Belgrade, Serbia.

**Co-organizer:** Bogolubov Laboratory of Geometrical Methods Mathematical Physics, Moscow.

**Deadlines:** Registrations: June 1, 2012. Abstracts: July 1, 2012.

**Hotel reservation:** By June 1, 2012. Contact person: Miroslava Antic; email: [geometricalseminar@matf.bg.ac.rs](mailto:geometricalseminar@matf.bg.ac.rs).

**Information:** <http://poincare.matf.bg.ac.rs/~geometricalseminar/>.

\* 4-9 **MADEA 2012 International Conference on Mathematical Analysis, Differential Equations and Their Applications**, Mersin University, Mersin, Turkey.

**Description:** This is the sixth Turkish-Ukrainian Mathematical conference which will be held in Mersin-Turkey. The first conference was held August 26-30, 2003, in National Juriy Fedkovich University of Chernivtsi (Chernivtsi, Ukraine), The second was held September 7-11, 2004, in Mersin University (Mersin, Turkey). The third was held September 18-23, 2006, in Uzhgorod National University (Uzhgorod, Ukraine). The fourth was held September 12-15, 2008, at Eastern Mediterranean University (Famagusta, North Cyprus). The fifth was held September 15-20, 2010, at Sunny Beach, Bulgaria. The conference format includes the plenary lectures and the section sessions.

**Languages:** English, Russian and Turkish.

**Information:** email: [mkucukaslan@mersin.edu.tr](mailto:mkucukaslan@mersin.edu.tr) or [mkkaslan@gmail.com](mailto:mkkaslan@gmail.com); <http://madea2012.mersin.edu.tr/>.

\* 17-19 **IMA Conference on Mathematics of Medical Devices and Surgical Procedures**, University of London, United Kingdom.

**Description:** The conference programme will include keynote speakers drawn from both clinical and mathematical communities, along with contributed presentations and poster sessions. The programme will also include breakout sessions in certain topics as well as refreshment breaks for informal discussions. Social events include a drinks reception and a conference dinner.

**Topics:** The topics that will be discussed will broadly include cardiovascular devices, medical imaging, ophthalmology, cell biology, disease transmission, orthopaedic, advanced simulations, as well as health in ageing.

**Information:** [http://www.ima.org.uk/conferences/conferences\\_calendar/maths\\_of\\_medical\\_devices\\_surgical\\_procedures.cfm](http://www.ima.org.uk/conferences/conferences_calendar/maths_of_medical_devices_surgical_procedures.cfm).

\* 17-21 **Summer School on New Trends in Harmonic Analysis, Fractional Operator Theory, and Image Analysis**, Inzell, Germany.

**Description:** Recently, focus has been placed on the detection and classification of singularities in images possessing fractional or fractal characteristics. Therefore, investigations center on fractional operator-like bases acting as multiscale versions of derivatives. This new methodology needs to firmly embed into the existing classical concepts of harmonic analysis, and the relations to image analysis have to be established and unified. To achieve the greatest possible synergy between the areas of harmonic analysis, fractional operator theory and image analysis, we have invited seven highly renowned researchers from these fields. The goal of the summer school is to bring together young researchers and a distinguished group of scientists whose lectures are intended to establish new and exciting directions for future investigations.

**Information:** <http://www-m6.ma.tum.de/Lehrstuhl/Inzell2012>.

\* 24-27 **56th Annual Meeting of the Australian Mathematical Society**, University of Ballarat, Mt Helen Campus, Victoria, Australia.

**Plenary Speakers:** Henning Haahr Andersen (Aarhus University), Michel Brion (Université Joseph Fourier, Grenoble), Sidney A. Morris (University of Ballarat), Mary Myerscough (University of Sydney), Assaf Naor (Courant Institute of Mathematical Sciences, New York University), Narutaka Ozawa (Research Institute for Mathematical

Sciences, Kyoto University), Aidan Sims (University of Wollongong), Kate Smith-Miles (Monash University), Fedor Sukochev (University of New South Wales), Benar F. Svaiter (Institute of Pure and Applied Mathematics, Rio de Janeiro), Neil Trudinger (Australian National University).

**Information:** <http://www.ballarat.edu.au/austms2012>.

### October 2012

\* 9–11 **Algerian-Turkish International days on Mathematics 2012, "ATIM'2012"**, Badji Mokhtar Annaba University, Annaba, Algeria.

**Aim:** Of this conference is to provide a platform for scientific experts in mathematics to present their recent works, exchange ideas and new methods in this important area and to bring together mathematicians to improve collaboration between local and international participants. We are looking forward to meeting you in Annaba at ATIM'2012.

**Organizers:** Jointly organized by the Laboratory of Advanced Materials, Badji Mokhtar Annaba University and Fatih University, Istanbul, Turkey.

**Information:** <http://www.univ-annaba.org/ATIM2012/>.

\* 24–26 **International Conference in Number Theory and Applications 2012 (ICNA 2012)**, Department of Mathematics, Faculty of Science, Kasetsart University, Bangkok, Thailand.

**Aim:** Providing a forum for researchers, teachers, students and people interested in Number Theory and Applications to present, exchange and get in touch with one another in a relaxed atmosphere. The academic program of the conference consists of invited lectures by leading mathematicians in the field of Number Theory and Applications and sessions for contributed talks, which will be included in a special issue of the *East-West Journal of Mathematics* after a peer review process. There will also be a social banquet (included in the registration fee) and a sight-seeing tour (not included in the registration fee).

**Information:** <http://maths.sci.ku.ac.th/icna2012>.

### November 2012

\* 1–2 **Central and Eastern European Software Engineering Conference in Russia 2012**, Digital October Center, Moscow, Russia.

**Description:** Organized since 2005, CEE-SECR is the key annual software event in Central and Eastern Europe that is regularly attended by about 800 participants from local industry. The conference was initially positioned as a Russian event; however, it attracted speakers from 20 countries and regular attendees from even more places, so in 2009 the conference was repositioned as a CEE event. The conference employs a double-blind review process producing a high quality program with acceptance rate about 35%.

**Keynote speakers:** From previous conferences includes Jeff Sutherland, Bertrand Meyer, Bjarne Stroustrup, Thomas Erl, Grady Booch, Ivar Jacobson, Erich Gamma, Michael Cusumano, Larry Constantine, Lars Bak, Michael Fagan, Bill Hefley, Rick Kazman, Yuri Gurevich, Steve Masters, Mark Paulk and other software thought leaders as well as VPs and Technical Fellows of major high-tech corporations.

**Information:** <http://www.cee-secr.org>.

### December 2012

\* 22–24 **The International Congress on Science and Technology**, Allahabad, U.P., India.

**Focus:** The conference has the focus on the current trends on frontier topics of the science and technology (Applied Engineering) subjects. The ICST conferences serve as good platforms for our members and the entire science and technological community to meet with each other and to exchange ideas.

**Organizer:** The CWS, a non-profit society for the scientists and the technocrats.

**Deadline:** Submission of abstracts with full-length paper to [complexgeometry18@yahoo.com](mailto:complexgeometry18@yahoo.com) with a cc: to [ss123a@rediffmail.com](mailto:ss123a@rediffmail.com): July 25, 2012.

**Information:** <http://sites.google.com/site/intcongressonsciandtech/>.

### January 2013

\* 6–8 **ACM-SIAM Symposium on Discrete Algorithms (SODA13)**, Astor Crowne Plaza Hotel, New Orleans, Louisiana.

**Description:** This symposium focuses on research topics related to efficient algorithms and data structures for discrete problems. In addition to the design of such methods and structures, the scope also includes their use, performance analysis, and the mathematical problems related to their development or limitations. Performance analyses may be analytical or experimental and may address worst-case or expected-case performance. Studies can be theoretical or based on data sets that have arisen in practice and may address methodological issues involved in performance analysis.

**Information:** <http://www.siam.org/meetings/da13/>.

**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.**

### April 2013

\* 13–14 **3rd IIMA International Conference on Advanced Data Analysis, Business Analytics and Intelligence**, Indian Institute of Management, Ahmedabad, India.

**Description:** Indian Institute of Management Ahmedabad is happy to announce the 3rd international conference dedicated to advanced data analysis, business analytics and business intelligence. The objectives of the conference are to facilitate sharing of: a) Research based knowledge related to advanced data analysis, business analytics and business intelligence among academicians and practitioners, b) Case studies and novel business applications of tools and techniques of advanced data analysis, business analytics and business intelligence among academicians and practitioners. Papers are invited from academicians and practitioners on any topic mentioned in the list of conference topics and related areas. Applications, case studies, review and discussion papers on these topics and related areas are also welcome.

**Information:** <http://www.iimahd.ernet.in/icadabai2013/>.

### September 2013

\* 11–13 **14th IMA Conference on Mathematics of Surfaces**, University of Birmingham, United Kingdom.

**Description:** Computer-based methods for the capture, construction, representation, fitting, interrogation and manipulation of complicated surfaces have led to a wide interest in, and need for, the mathematics of surfaces and related curves. Many applications require the use of surface descriptions, especially in such fields as computer aided design and manufacturing, computer graphics and computer vision. The description of surfaces is also of interest in geographic information systems, multimedia, and many other areas of science and medicine. This diversity and the wide range of applicability of the subject have already enabled the IMA to hold thirteen very successful international conferences in the Mathematics of Surfaces series. Several international authorities are being invited to present papers. The Institute of Mathematics and its Applications is a not-for-profit organisation registered as a charity in the UK.

**Information:** [http://www.ima.org.uk/conferences/conferences\\_calendar/14th\\_mathematics\\_of\\_surfaces.cfm](http://www.ima.org.uk/conferences/conferences_calendar/14th_mathematics_of_surfaces.cfm).