
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/>.

May 2010

* 3-5 **Simons Lectures in Mathematics**, Massachusetts Institute of Technology, Cambridge, Massachusetts.

Lecturer: Andrei Okounkov (Princeton University) will give 3 lectures on “Applied Noncommutative Geometry” (Algebra and geometry of random surfaces; Noncommutative geometry and Painlevé equations; Towards probabilistic mirror symmetry).

Information: <http://math.mit.edu/news/simons>.

* 6-7 **4th International Conference on Information Security and Cryptology**, Middle East Technical University, Ankara, Turkey.

Focus: The conference focuses on a different topic each year and this year’s topic is “Data Privacy”. A. Accepted contributions will appear in the conference proceedings. B. ISC’10 will feature the following invited talks: 1. Berry Schoenmakers (<http://www.win.tue.nl/~berry/>), Secure Multiparty Computation: A Showcase for Modern Cryptography; 2. Jianying Zhou (<http://icsd.i2r.webbreak-a-star.edu.sg/staff/jianying/>), Non-repudiation Protocols and Applications. We kindly invite you to participate in the conference (with or without a paper) to share your knowledge with others.

Deadline: The last date for submission of full papers is: April 1, 2010.

Information: <http://www.iscturkey.org/indexen.php>.

* 15-16 **Young Researchers Meet (Mathematics and Computer Science)**, Brown University, Providence, Rhode Island.

Description: A large number of new Indian Institutes of Science Education & Research (IISERs), IITs and Central Universities have been started recently in India. All these institutions and existing academic institutions have a fairly large requirement of outstanding faculty members in mathematics and computer science. In view of this, it is proposed to organize a Young Researchers Meet at Brown University, Providence, Rhode Island, from May 15-16, 2010. The primary goal of this meeting is to inform junior faculty, post-docs and senior graduate students in the U.S. about academic opportunities available in India and motivate them to return to India. A delegation from India representing a wide cross-section of institutes/universities will make presentations on various aspects of an academic career in India.

Deadline: For application: April 12, 2010.

Information: Please see website for further details: email: yrbrown@dam.brown.edu; <http://www.dam.brown.edu/people/menon/yrbrown.html>

* 28-30 **International Symposium on Geometry and Topology in Memory of C.-C. Hsiung**, Lehigh University, Bethlehem, Pennsylvania.

Description: This symposium celebrates the life and mathematical legacy of Chuan-Chih Hsiung (1916-2009), geometer, professor at Lehigh University, and founder of the *Journal of Differential Geometry*.

Speakers: Werner Ballmann, University of Bonn; Simon Brendle, Stanford University; Kenji Fukaya, Kyoto University; Richard Hamilton (to be confirmed), Columbia University; Michael Hopkins, Harvard University; Alina Marian, University of Illinois at Chicago; D.H. Phong,

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/>.

Columbia University; I. M. Singer, MIT; Y.-T. Siu, Harvard University; Xu-Jia Wang, Australia National University.

Information: <http://www.lehigh.edu/~dlj0/geotop.html>.

- * 31–June 4 **International Conference on Advances in Partial Differential Equations and Their Applications**, Fudan University, Shanghai, China.

Description: The aim of the conference is to bring together experts who work on diverse frontiers of nonlinear PDEs and their applications to geophysical fluid dynamics to survey recent progress and current challenges, and to discuss how new ideas and methods could advance the field in coming years. In addition, the conference will bring many internationally acclaimed researchers working in such an active area to China. It is anticipated that the conference will attract a large number of young researchers in China and from other countries and contribute significantly to the advancement of international applied and computational mathematics community. We invite mathematicians and scientists working in the related areas to participate in this conference. In particular, we encourage women and minorities to attend the conference. Partial funding from U.S. NSF may become available for women and minorities from the U.S.

Information: <http://www.indiana.edu/~fluid/shanghai/shanghai.html>.

June 2010

- * 4–9 **XIIIth International Conference on Geometry, Integrability and Quantization**, Sts. Constantine and Elena resort, 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 (1998–2009).

Aim: 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.

Principal Speakers: Vladimir Dragovic, Geometry and Integrability in Rigid Body Dynamics; Andrei Ludu, Differential Geometry of Moving Surfaces, Solitons and Filaments.

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

- * 7–10 **Istanbul Contact Geometry and Topology Workshop**, Istanbul Center for Mathematical Sciences at Bogazici University, Istanbul, Turkey.

Description: There will be some talks and mini courses on Contact Geometry and Topology.

Confirmed speakers: Kenneth Lee Baker (Univ. Miami), Vincent Colin (Univ. Nantes), David Gabai (Princeton Univ.), Hansjörg Geiges (Univ. Köln), Paolo Ghiggini (Univ. Nantes), Jeremy Van Horn-Morris (American Inst. Math.)

Information: <http://www.imb.org.tr/20100607icgt.html>.

- * 10–14 **Symmetry Plus Integrability 2010—The First International Conference on Integrable Systems and Nonlinear Waves on the Gulf of Mexico, In Honor of Yuji Kodama's 60th Birthday**, South Padre Travelodge, South Padre Island, Texas.

Description: This conference will be held on the occasion of the 60th birthday of Professor Yuji Kodama. The conference will focus on integrable systems and nonlinear waves.

Topics: Soliton, continuous and discrete integrable systems, water waves, nonlinear optics and photonics, random matrices and integrable systems, integrable systems and number theory, dispersionless integrable systems, higher dimensional integrable systems.

Plenary Speakers: Mark J. Ablowitz (University of Colorado), Anthony Bloch (University of Michigan), Masanobu Kaneko (Kyushu University, Japan), Boris Konopelchenko (University of Salento, Lecce, Italy), Alexander Mikhailov (University of Leeds, U.K.), Yoshimasa Nakamura (Kyoto University, Japan)

Information: <http://www.math.utpa.edu/kmaruno/SPI2010.html>.

- * 14–16 **IMA Special Program: Interdisciplinary Research Experience for Undergraduates**, Institute for Mathematics and its Applications (IMA), University of Minnesota, Minneapolis, Minnesota.

Description: The IMA summer REU gives students an experience in working on an interdisciplinary project involving mathematics. Students will work in teams of three with a faculty advisor and a post-doctoral mentor. This is a hands-on experience. There will be a few formal lectures. However, students will spend most of their time doing actual research. Students are expected to produce a poster and a publication-quality written report, and to give an oral presentation by the end of the 5-week period.

Information: <http://www.ima.umn.edu/2009-2010/SW6.14-7.16.10/>.

- * 14–18 **Summer school “p-adic cohomologies and arithmetic applications”**, Mathematical Research Institute, University of Sevilla (IMUS), Sevilla, Spain.

Description: The School is addressed to Ph.D. students and young post-doc researchers working on Number Theory, Algebraic Geometry and related areas. There will be four courses: (1) “Introduction to rigid cohomology” by Bernard Le Stum (University of Rennes). (2) “Dwork cohomology and applications” by Steven Sperber (University of Minnesota). (3) “Overconvergent F-isocrystals and rigid cohomology on curves” by Nobuo Tsuzuki (Tohoku University). (4) “An introduction to Dwork’s p-adic analytic representation of an additive character” by C. Douglas Haessig (University of Rochester).

Information: For more information, including information on registration, financial support, accommodations, and transportation, see: <http://www.imus.us.es/padic2010/>.

- * 16–20 **Fourth International Conference on Recent Advances in Applied Dynamical Systems**, Zhejiang Normal University, Jinhua, Zhejiang, China.

Description: The main subjects of the conference will be bifurcation theory and applications of dynamical systems and related topics. The topics include, but are not limited to local and global bifurcation, computational and theoretical aspects of bifurcation and chaos in biology, economics, engineering, fluid dynamics, neural networks, physics and other nonlinear dynamical systems.

Information: For details about the conference, please visit the website: <http://nonlsci.zjnu.net.cn/> of the Center for Dynamical Systems and Nonlinear Sciences, Zhejiang Normal University, or contact: 2010jinhua@gmail.com.

- * 19–24 **Automorphism Groups of Topological Structures**, The Eilat Campus of Ben Gurion University of the Negev, Israel.

Description: The purpose of the conference is to bring together mathematicians working in all fields of mathematics dealing with Automorphism Groups of Topological Structures, in order to exchange ideas and present results of current research. Specific topics to be covered in this meeting are: 1) Recovery of spaces from their groups of homeomorphisms. 2) Topological characterization of the homeomorphism groups of various concrete spaces. 3) Realization of topological groups as groups of automorphisms of concrete spaces. 4) Extreme amenability of automorphism groups and homeomorphism groups. 5) The Urysohn universal space. 6) Structure theory of general and free topological groups.

Information: http://www.math.bgu.ac.il/~arkady/Eilat2010_conference/main_page.html.

- * **Second Mathematical Chemistry Workshop of the Americas**, Universidad de los Andes, Bogota, Colombia.

Description: The event will bring together leading researchers in the field of Mathematical Chemistry, which includes the application of different branches of mathematics to chemistry, e.g., graph theory, topology, order theory, mathematical modeling, statistics, and some other mathematical areas. The meeting will also cover topics like chemoinformatics, environmental toxicology, quantitative structure-activity relationship (QSAR) and quantitative molecular similarity

analysis (QMSA), bioinformatics (including genomics and proteomics), and other relevant fields.

Information: Visit: <http://sites.google.com/site/2mathchemamericas/>.

- * 19-26 **XIVth International Summer Conference on Probability and Statistics (ISCPs-2010), Seminar of Statistical Data Analysis (SDA-2010), Workshop on Branching Processes and Applications (WBPA-2010)**, Sozopol, Bulgaria.

Description: The Conference and the Seminar are organized by: Institute of Mathematics and Informatics of Bulgarian Academy of Sciences; Faculty of Mathematics and Informatics of Sofia University; Bulgarian Statistical Society. We plan to organize several sessions in the field of: Stochastic Processes; Limit Theorems; Financial Mathematics; Combinatorial Analysis; Theoretical and Applied Statistics; Applications in Biology, Industry, Economics and Education of Statistics.

Information: <http://stochastics.fmi.uni-sofia.bg>.

- * 21-23 **Conference on Special Functions & their Applications-CSFA 2010**, School of Mathematics and Allied Sciences (SOMAAS) Jiwaji University, Gwalior (MP), India.

Description: CSFA 2010 is being organized by the School of Mathematics & Allied Sciences, Jiwaji University, Gwalior (MP), India. During the three day conference a symposium on computational & biological mathematics will also be organized. The organizers invite papers for presentation.

Information: <http://www.ssfaindia.webs.com/conf.htm>.

- * 21-July 2 **Summer School on Mathematical String Theory 2010**, Virginia Tech, Blacksburg, Virginia.

Description: This is a summer school for grad student and postdocs in mathematics and physics, covering topics of interest to both, ranging from E_n algebras, topological chiral homology, and aspects of derived categories, to topics in compactifications of string theories.

Speakers: Dima Arinkin (UNC-CH), Arend Bayer (Connecticut), John Francis (Northwestern), Josh Guffin (U-Penn), Simeon Hellerman (IPMU), Ilarion Melnikov (Potsdam), and Peter Zograf (Steklov, St. Petersburg).

Information: <http://www.phys.vt.edu/mp10>.

- * 22-24 **The 6th East Asia SIAM Conference in conjunction with the Applied Mathematics International Conference AMIC2010**, Kuala Lumpur, Malaysia.

Description: The EASIAM Conference is an annual meeting in the series of conferences. EASIAM provides a platform for exploration and application of mathematics to science, industry, engineering and technology in the East and South East Asia. Previous EASIAM meetings were held in Hong Kong, Sapporo, Xiamen, Daejeon, and Brunei. The goal of the conference is to promote research that will lead to effective mathematical and computational methods and techniques for science, engineering, industry and society.

Information: <http://math.um.edu.my/easiam/>.

- * 28-30 **International Symposium on Voronoi Diagrams in Science and Engineering (ISVD2010)**, Laval University, Quebec City, Canada.

Description: The ISVD 2010 which is devoted to one of the most fascinating data structures in Computational Geometry—the Voronoi diagrams and its applications, is a multidisciplinary event hosting scientists working on Voronoi Diagrams and on their applications in engineering including, geospatial information sciences (GIS), visualization, urban planning, computer science, geology, robotics, bioinformatics, high-performance computing, physics, chemistry and other applications.

Key issues: Applications of the Voronoi/Delaunay methodology in sciences and engineering, Theoretical aspects of Voronoi diagrams/Delaunay methodology, Computational and implementation aspects of Voronoi diagrams, Voronoi Art.

Information: <http://isvd2010.scg.ulaval.ca>.

- * 28-July 2 **Fifth Pacific Rim Conference on Mathematics**, Stanford University, Stanford, California.

Description: This meeting has been held every three years since 1998 at universities on the Pacific Rim. This fifth meeting is the first to be held in North America. It will cover a wide range of topics and is designed to foster cooperation among mathematicians at Pacific Rim institutions.

Sessions: The ten sessions are in the areas of algebraic geometry, combinatorics, differential geometry, electromagnetic waves, functional analysis, kinetic equations and gas dynamics, mathematical imaging, nonlinear partial differential equations, number theory, and random systems and PDEs.

Support: Some support is available for advanced graduate students and postdoctoral level mathematicians.

Information: <http://math.stanford.edu/PRCmindex.html>.

July 2010

- * 11-16 **Path Integrals 2010**, Howard University's Blackburn Center, Washington, DC (USA).

Description: Professors Arthur Jaffe and J. Zinn-Justin have agreed to join us during the opening session on Sunday afternoon July 11. Professor Jaffe will discuss the important role of path integrals in the successes of constructive quantum field theory and Professor J. Zinn-Justin will discuss the importance of path integrals in condensed matter and particle physics. During the conference banquet, Professor Cecile DeWitt-Morette will discuss the history of path integrals and the impact on quantum field theory.

Other invited speakers: Professors Wolfhard Janke, John Klauder, H. H. Kleinert, N. Kumano-go and Jean-Claude Zambrini. Those interested in giving a contributed talk can submit abstracts on the website.

Information: <http://sites.google.com/site/pathintegrals2010/home>.

- * 12-22 **Regulators III**, Barcelona, Spain.

Description: A regulator is a realization from motivic cohomology to “more computable” cohomology theories (e.g., Hodge, Betti, étale). Over the past three decades, the subject of regulators has evolved considerably on the mathematical scene, through its interaction with algebraic cycles and algebraic K -theory, Hodge theory, arithmetic algebraic geometry, number theory, topology (as in Lawson homology), and mathematical physics. This conference brings together leading experts from various backgrounds, to present the latest developments in the field. Graduate students, post-doctoral fellows, as well as interested researchers, are encouraged to apply by registering on-line.

Information: <http://www.imub.ub.es/regulatorsIII/>.

- * 12-August 13 **A minisemester on evolution of interfaces**, Hokkaido University, Sapporo, Japan.

Description: We are organizing a series of research seminars and tutorial lectures with particular focus on evolution of interfaces. Two intensive activities each lasting one week are planned.

Organizers: Y. Giga, H. Ishii, T. Funaki, Y. Tonegawa, R. V. Kohn, P. Rybka.

Intensive Activities: (1) Tutorial Lectures and Interdisciplinary Conference: “Mathematical Aspects of Crystal Growth” (July 26–July 30, 2010).

Tutorial lecturers include: R. E. Caflisch, D. Margetis, R. Monneau.

Invited lecturers include: J. Evans, H. Mitake, T. Ohtsuka, G. Sazaki, R. Sekerka, K. Sudoh, P. G. Vekilov, A. Yagi. (2) Tutorial Lectures and International Workshop: “Singular Diffusion and Evolving Interfaces” (August 2–August 6, 2010).

Tutorial lecturers include: J. Manfredi, J. M. Mazón.

Invited lecturers include: W. Allard, S. Esedoglu, H. Garcke, J. S. Guo, P. Mucha, T. Nishikawa, K. Shirakawa, N. Yamazaki.

Registration: For registration, program and financial support see our web page.

Information: http://www.math.sci.hokudai.ac.jp/sympo/minisemester/index_en.html.

- * 16-23 **International Conference on Spectral Geometry, Preceded by Pre-conference Minicourses**, Dartmouth College, Hanover, New Hampshire.

Description: The primary themes of the conference will be “Inverse spectral geometry on compact manifolds and orbifolds” and “Quantum unique ergodicity”. There will be two plenary lectures on each of these themes presented by Victor Guillemin and Peter Sarnak, respectively. In addition to spectral problems on Riemannian manifolds, there will be a secondary focus on the related topic of quantum graphs, in which the one-dimensional Laplacian acts along edges, and waves scatter at vertices.

Travel/Support: Pending NSF approval, we anticipate that we will be able to provide travel support for some participants, with preference going to graduate students and recent Ph.D.s. More senior mathematicians without other sources of support are also eligible to apply. The target date to apply for support is April 15; later applications will be considered as long as funds remain available.

Information: <http://math.dartmouth.edu/~specgeom>.

- * 19-23 **16th International Conference on Difference Equations and Applications ICDEA2010**, Faculty of Physics and Mathematics of University of Latvia, Riga, Latvia.

Description: The purpose of the conference is to bring together both experts and novices in the theory and applications of difference equations and discrete dynamical systems. The special emphasis of the meeting will be on the applications of difference equations on mathematical biology.

Plenary speakers: Josef Hofbauer, Jim Cushing, Luis Alsedra, Robert Devaney, Jean Mahwin, Aleksandr Sharkovski

Scientific Committee: Andre Vanderbauwhede, Hal Smith, Gerry Ladas, Michael Misiurewicz, Andrejs Reinfelds.

Information: <http://icdea2010.lu.lv>.

- * 25-30 **25th Summer Conference on Topology and its Applications**, Jan Kochanowski University in Kielce, Poland.

Description: The 25th Summer Topology Conference is an annual event bringing together an international audience of researchers in general topology and related fields. There will be special sessions in the following subjects: general/set-theoretic topology, geometric topology, continuum theory, dynamical systems, topological algebra, topology in computer science, topology in functional analysis.

Information: <http://www.ujk.edu.pl/~topoconf/>.

- * 26-29 **Mixed Integer Programming 2010**, Georgia Institute of Technology, Atlanta, Georgia.

Description: The Mixed Integer Programming (MIP) workshop series brings together the integer optimization research community in an annual meeting, to discuss very recent developments in the field. It consists of a single track of invited talks, which are scheduled to leave ample time for discussion and interaction among the participants.

Registration/Support: To encourage participation of students and junior researchers, no registration fee is charged, and financial support is available. The workshop features a poster session.

Deadline: The deadline for poster abstract submissions and applications for travel support is March 31, 2010.

Information: <http://www2.isye.gatech.edu/mip2010/>.

August 2010

- * 2-5 **IMA Hot Topics Workshop: Integral Equation Methods, Fast Algorithms and Applications**, Institute for Mathematics and its Applications (IMA), University of Minnesota, Minneapolis, MN 55455

Description: The main objective of this workshop is to have timely reviews and discussions of recent results and current issues in (1) the mathematical foundations of integral-equation methods and associated fast algorithms, (2) implementations and performance assessments of such methods on a variety of computer architectures, and (3) existing and new application areas. A plethora of computational techniques already exists, and includes tree-codes, pre-corrected fast

Fourier transforms, Ewald procedures, and the many classes of fast multipole methods. This workshop will help clarify the relative advantages of existing schemes, and elucidate the trajectories and applications of many methods now under development.

Information: <http://www.ima.umn.edu/2009-2010/SW8.2-5.10/>.

- * 2-7 **Geometry, Topology, and Dynamics in Negative Curvature**, Raman Research Institute, Bangalore, India.

Description: This is a satellite conference for the 2010 ICM. The conference will focus on mathematics centered around negatively curved (or more generally, non-positively curved) spaces.

Information: <http://www.icts.res.in/program/gtdnc>.

- * 2-11 **Mathematical Modeling in Industry XIV - A Workshop for Graduate Students**, Center for Mathematical Research (CIMAT) in Guanajuato, Gto., México.

Description: The IMA is holding a 10-day workshop on Mathematical Modeling in Industry. This event will take place at CIMAT in Guanajuato, Mexico. The workshop is designed to provide graduate students and qualified advanced undergraduates with first hand experience in industrial research. Students will work in teams of up to 6 students under the guidance of a mentor from industry. The mentor will help guide the students in the modeling process, analysis and computational work associated with a real-world industrial problem. A progress report from each team will be scheduled during the period. In addition, each team will be expected to make an oral final presentation and submit a written report at the end of the 10-day period.

Information: <http://www.ima.umn.edu/2009-2010/MM8.2-11.10/>.

- * 3-5 **International Conference on Mathematical Applications in Engineering: (ICMAE, 2010)**, Kuala Lumpur, Malaysia.

Conference Objective: 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 researcher, 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.

Conference Topics: Papers are invited in topics that cover, but are not limited to: Actuarial & Financial Mathematics, Algebra(s) and Applications, Complex Analysis, Differential Equations and Applications, Discrete Mathematics, Dynamic System, Experimental Design, Graph Theory, Industrial Mathematics, Linear Algebra and Applications.

Information: <http://www.iiu.edu.my/icmae>.

- * 16-21 **Workshop on Operator Algebras and Conformal Field Theory**, University of Oregon, Eugene, Oregon.

Description: This will be an educational workshop aimed at exploring the foundations of conformal field theory from the perspective of operator algebras. It will focus on Wasserman's construction of CFTs associated to the loop group $SU(n)$, which he uses to study representations of central extensions of the loop group.

Information: <http://www.uoregon.edu/~njp/cft.html>.

- * 29-September 12 **Summer School "Modern Problems of Wavelet Analysis and its Applications"**, Kursk State University, Kursk, Russia.

Description: The 2-week course in the Continuous and Discrete Wavelet Transform covers the following topics: Time-frequency localization of wavelet functions, multiresolution analysis and variational methods for wavelet constructions; PDE-based methods for the continuous wavelet transform; multiresolution signal processing; wavelets and topology of chaotic phase curves.

Deadlines: Application with the possibility of a DAAD grant support: April 30, 2010. Application without a financial support: June 15, 2010

Detailed description of the school: http://www.kursksu.ru/pages/sums_mpwa.

Description of Go East Program for participants' support: <http://www.daad.de/ausland/foerderungsmoeglichkeiten/ausschreibungen/12996.de.html>.

Information: http://www.kursksu.ru/pages/sums_mpwa.

September 2010

- * 6–10 **Dynamics Days Europe 2010**, University of Bristol, Bristol, United Kingdom.

Description: Dynamics Days Europe is a major annual international conference aimed at bringing together theoretical and experimental scientists from a variety of disciplines, including nonlinear dynamics, theoretical physics, fluid dynamics and mathematics. University of Bristol is proud to host the Dynamics Days Europe 2010, which will take place on 6-10 September 2010 in Bristol, United Kingdom, starting on Monday morning and finishing on Friday noon. Conference will consist of invited presentations, mini-symposia, a limited number of contributed talks, and all participants are encouraged to submit poster presentations.

Information: <http://www.enm.bris.ac.uk/anm/ddays10/index.html>.

- * 13–15 **IMA Hot Topics Workshop: Medical Device-Biological Interactions at the Material-Tissue Interface**, Institute for Mathematics and its Applications (IMA), University of Minnesota, Minneapolis, Minnesota.

Description: This workshop is to bring together a group of scientists, mathematicians, and physicians to discuss the device-biological interactions at the material-tissue interfaces from the perspective of medical efficacy and scientific mechanisms. Medical, engineering, and mathematic tools will be used. The goal of the workshop is to identify challenges and opportunities in the fields to stimulate collaborations among physicians, scientists, and mathematicians. Topics of the workshop include 1. Biological reactions to foreign material (implant), including blood clotting and inflammation reactions; 2. Bacterial colonization at implant surface and biofilm formation; 3. Responses of tissues to the electric stimulations and sensing; 4. Mechanical interactions between implants and the tissues: in vivo loading conditions and their effects on tissues (e.g., atrophy and hypertrophy).

Information: <http://www.ima.umn.edu/2010-2011/SW9.13-15.10/>.

- * 19–22 **Applied Statistics 2010 (AS2010)**, Ribno (Bled), Slovenia.

Description: The conference, organized in Ribno in the vicinity of the beautiful Lake Bled, will provide an opportunity for researchers in statistics, data analysts, and other professionals from various statistical and related fields to come together, present their research, and learn from each other. Cross-discipline and applied paper submissions are especially welcome. A three days program consists of invited paper presentations and contributed paper sections from diverse topics. Selected papers will be published in *Advances in Methodology and Statistics*, a peer-reviewed journal of the Statistical Society of Slovenia.

Information: <http://conferences.nib.si/AS2010>.

October 2010

- * 8–10 **Yamabe Symposium on “Geometry and Low-Dimensional Topology”**, University of Minnesota, Minneapolis, Minnesota.

Confirmed speakers: Toby Colding, Massachusetts Institute of Technology; Kenji Fukaya, Kyoto University; David Gabai, Princeton University; Ko Honda, University of Southern California; Claude LeBrun, State University of New York at Stony Brook; Melissa Liu, Columbia University; Yi Ni, California Institute of Technology; and Ron Stern, University of California at Irvine.

Support: Support from the National Science Foundation will be used to defray workshop expenses for a number of participants, with highest preference given to younger scientists (grad students, postdocs, young faculty or researchers at most five years after Ph.D.), although

all active people are eligible. Women and minorities are especially encouraged to apply.

Deadline: The application deadline for full consideration for funding is: August 12, 2010.

Information: <http://www.math.umn.edu/yamabe/>.

- * 15–22 **AIM Workshop: Algebraic systems with only real solutions**, American Institute of Mathematics, Palo Alto, California.

Description: This workshop, sponsored by AIM and the NSF, will be devoted to the study of different versions of the B. and M. Shapiro Conjecture and related questions in real algebraic geometry.

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

- * 25–29 **AIM Workshop: The geometry of the outer automorphism group of a free group**, American Institute of Mathematics, Palo Alto, California.

Description: This workshop, sponsored by AIM and the NSF, will be devoted to the outer automorphism group of the free group, $Out(F)$; in particular, its geometry and its inherent asymmetry.

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

- * 27–30 **Fourth International Workshop on Differential Algebra and Related Topics (DART-IV)**, Key Laboratory of Mathematics Mechanization, Chinese Academy of Sciences, Beijing, China.

Description: This workshop on Differential Algebra and Related Topics is the fourth in the series. Based on the foundational works of Ritt and Kolchin since the 1930s, differential algebra has evolved into an extremely rich subject during the last two decades. From traditional studies of differential equations using classical algebraic methods, differential algebra now embodies symbolic computation as well as abstract category and scheme theories. It has interactions with algebraic geometry, combinatorics, mathematical logic, computability, complexity analysis, differential algebraic equations on manifolds, Diophantine geometry, arithmetic differential equations, and more. Related algebraic structures, difference algebra, difference and differential schemes, Rota-Baxter algebra, and quantum differential operator algebra have made much progress, too. Many of these and other topics, as well as applications to cellular biology and control theory, will be presented at this workshop.

Information: <http://mmrc.iss.ac.cn/~dart4/index.html>.

December 2010

- * 2–4 **4th Global Conference on Power Control and Optimization (PCO'2010)**, Damai Puri Resort, Kuching, Sarawak, Malaysia.

Description: Scope of the conference is contemporary and original research and educational development in the area of electrical power engineering, control systems and methods of optimization. Proposals for holding special sessions, tutorial, exhibition and workshop are invited from prospective authors, industrial bodies and academicians and should be addressed to the conference secretariat.

Organizing Committee: Nader Barsoum (Chairman); Pandian Vasant; Rabi W. Yousif; Jeffrey F. Webb.

Keynote Speakers: Milun Babic (Serbia); Tsu Tian Lee (Taiwan); Mingcong Deng (Japan); T. S. Zhao (Hong Kong); Yew Soon Wong (Singapore); Alan Oxley (Malaysia); M. Ahmad Al-Nimr (Jordan); Robert Grubbstrom (Sweden); Vladimir Fedorov (Russia); Wolfgang Borutzky (Germany); Vitezslav Benda (Czech Republic); Wilhelm Höflinger (Austria).

Deadline: Submission of camera-ready paper: 10/15/2010.

Information: Please contact Dr. Kisho and Dr. Vasant at: pcoglobal@gmail.com; <http://www.pcoglobal.com>; Venue: <http://www.damaipuriresort-kuching.com>.

- * 6–10 **AIM Workshop: Waves and multiscale processes in the tropics**, American Institute of Mathematics, Palo Alto, California.

Description: This workshop, sponsored by AIM and the NSF, will bring university-based mathematicians and physicists together with scientists from operational climate modeling centers to discuss the

new insights and the mathematical basis for tropical multiscale processes coming from observations and from theory, and the consequences of such insights for the simulation of these processes in fully complex global climate models.

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

* 13–17 **AIM Workshop: Random Matrices**, American Institute of Mathematics, Palo Alto, California.

Description: This workshop, sponsored by AIM and the NSF, will focus on recent developments on limiting distributions concerning both local and global properties of the spectrum of a random matrix.

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

* 15–16 **The International Conference on Mathematics Education Research**, Malacca, Malaysia.

Description: International Conference on Mathematics Education Research 2010 (ICMER2010) is organized by Laboratory of Innovation in Mathematics Education from the Institute for Mathematical Research, Universiti Putra Malaysia. The aim of the conference is to open up a discussion platform for the analysis, development, exchange and critique of ideas on recent practices and research in mathematics education. It carries the theme of Towards Excellence in Mathematics Education.

Information: <http://einspem.upm.edu.my/icmer2010>.

January 2011

* 3–5 **ICMS 2011: International Conference on Mathematical Sciences in Honour of Professor A. M. Mathai**, St. Thomas College Pala, Kottayam 686574, Kerala, India.

Description: The conference is organized at the occasion of the 75th birthday of A.M. Mathai, a world renown mathematician and statistician with seminal achievements in mathematical statistics, applied statistics, probability, astrophysics, and information theory. The conference will schedule invited and contributed papers in all these research fields. The conference will also review the past achievements of the Centre for Mathematical Sciences, Pala, India, that is currently headed by Professor A.M. Mathai.

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

* 17–21 **AIM Workshop: Deformation theory, patching, quadratic forms, and the Brauer group**, American Institute of Mathematics, Palo Alto, California.

Description: This workshop, sponsored by AIM and the NSF, will focus on the interaction between algebraic geometry and the structure theory of fields, particularly the use of deformation theory and patching.

Information: <http://aimath.org/ARCC/workshops/deformbrauer.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.

July 2011

* 11–15 **The 10th International Conference on Finite Fields and their Applications**, Ghent, Belgium.

Topics: Of interest include, but are not limited to: Field-theoretic aspects of finite fields: structure of finite fields, normal bases, polynomials, primitive elements, number-theoretic aspects of finite fields, exponential sums, arithmetic theory of function fields. Computational aspects: algorithms and complexity, polynomial factorization, decomposition and irreducibility testing, sequences and functions. Applications: algebraic coding theory, cryptography, affine and projective geometry over finite fields, algebraic geometry over finite fields, finite incidence geometry, designs and configurations, difference sets, combinatorics, generalisations of finite fields.

Information: <http://cage.ugent.be/fq10/>.

* 26–29 **Conference in Harmonic Analysis and Partial Differential Equations in honour of Eric Sawyer**, Fields Institute, Toronto, Canada.

Description: The meeting will concentrate on Analysis and Partial differential Equations, specifically in relation to the diverse set of topics Dr. Eric T. Sawyer has worked on and influenced during his rich and prolific career: Weighted norm inequalities, Several complex variables, Unique continuation, Singular integrals, fractional integrals, Elliptic equations and systems, Degenerate equations, Monge-Ampère equations, Number theory and Combinatorics.

Information: <http://www.fields.utoronto.ca/programs/scientific/11-12/PDE/>.

August 2011

* 1–5 **Conference in Honour of Søren Asmussen—New Frontiers in Applied Probability**, Sandbjerg Estate, Sønderborg, Denmark.

Description: The conference honours one of the leading researchers in applied probability, Søren Asmussen, on the occasion of his 65th birthday. Professor Asmussen's research cuts across many of the major themes of modern applied probability, including queueing theory, insurance and financial mathematics, stochastic simulation, and stochastic control. His nearly 150 publications include major contributions to the theory of heavy tails, rare-event asymptotics and related simulation methods, matrix-geometric modelling, Markov processes, and regeneration. He has also written four major books: *Branching Processes* (co-authored with H. Hering), *Applied Probability and Queues*, *Ruin Probabilities*; and *Stochastic Simulation: Algorithms and Analysis* (co-authored with P. Glynn). His outstanding research contributions have been recognized through the Marcel F. Neuts Applied Probability Prize (1999), and the INFORMS Outstanding Publication Prizes in Simulation in 2002 and 2008.

Information: <http://www.thiele.au.dk/asmussen>.