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# Mathematics Calendar

## May 2009

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\* 4-6 **Workshop on Pairings in Arithmetic Geometry and Cryptography**, Institute for Experimental Mathematics of the University of Duisburg-Essen, Essen, Germany.

**Description:** The subject of the workshop is bilinear structures on ideal class groups of curves over finite fields. Besides the theoretical background, computational aspects as well as applications to public key cryptography, will be in the center of the talks. We plan to have four introductory minicourses (two hours each) as well as lectures about the state of the art and new perspectives. Everyone interested in these topics is heartily invited to come!

**Information:** Visit <http://www.exp-math.uni-essen.de/zahlentheorie/pairings09/index.html>.

\* 4-9 **The Power of Analysis: A conference in honor of Charles Fefferman on the occasion of his 60th birthday**, Princeton University (Mathematics Department), Princeton, New Jersey.

**Description:** Conference (sponsored by AIM, the NSF, CMI, and the Princeton University Mathematics Department) honoring Charles Fefferman on the occasion of his 60th birthday. To be held in McDonnell Hall (part of the Fine Hall-Jadwin Hall complex at Princeton University). Registration requested (via conference website).

**Information:** <http://www.math.princeton.edu/conference/fefferman09/>.

\* 4-13 **The Seventh Annual Spring Institute on Noncommutative Geometry and Operator Algebras**, Department of Mathematics, Vanderbilt University, Nashville, Tennessee.

**Description:** The Seventh Annual Spring Institute on Noncommutative Geometry and Operator Algebras is a combination of spring school and international conference. During the school part of the meeting, several mini-courses on a variety of topics from noncommutative geometry, operator algebras and related topics will be given by leading experts. This year's topic is "Geometry over  $F_1$ , noncommutative geometry and Zeta". Mini-courses will be given by David Goss (Ohio State University), Lisa Carbone (Rutgers University), Christophe Soule (IHES), Alain Connes (IHES & Vanderbilt University), Pierre Cartier (IHES), Caterina Consani (John Hopkins University) and Jack Morava (John Hopkins University). The conference is organized by Alain Connes (Director), Dietmar Bisch, Bruce Hughes, Gennadi Kasparov and Guoliang Yu. Students and postdocs are especially encouraged to attend.

**Information:** <http://www.math.vanderbilt.edu/~ncgoa09/>.

\* 6-10 **East Asian Symplectic Conference 2009**, Institute of Mathematics, Academia Sinica, Taipei, Taiwan.

**Description:** The purpose of the conference is to explore and cross-fertilize the developments of various subjects in Symplectic Geometry and Topology for the researchers in East Asia.

**Confirmed speakers:** Meng-Kiat Chuah (NTHU, Taiwan), Urs Frauenfelder (SNU, Korea), Kenji Fukaya (Kyoto-Univ., Japan), Young-Hoon Kiem (SNU, Korea), Bumsig Kim (KIAS, Korea), Otto van Koert

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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/>.

(Hokkaido Univ., Japan), Hiroshi Konno (U-Tokyo, Japan), Yng-Ing Lee (NTU, Taiwan), Naichung Conan Leung (CUHK, Hong Kong), Jiang-Hua Lu (HKU, Hong Kong), Yoshiaki Maeda (Keio Univ., Japan), Giovanni Marelli (KIAS, Korea), Stefan Muller (KIAS, Korea), Takeo Nishinou (Tohoku Univ., Japan), Yuichi Nohara (Nagoya-Univ., Japan), Hiroshi Ohta (Nagoya-Univ., Japan), Hajime Ono (TUS, Japan), Kaoru Ono (Hokkaido Univ., Japan), Jongil Park (SNU, Korea), Wei-dong Ruan (KAIST, Korea), Kazushi Ueda (Osaka-Univ., Japan), Xiaowei Wang (CUHK, Hong Kong), Siye Wu (HKU, Hong Kong & CU-Boulder, USA), Daisuke Yamakawa (Kyoto-Univ., Japan), Mei-Lin Yau (NCU, Taiwan).

**Information:** <http://www.math.ncku.edu.tw/~easc2009/>.

- \* 8–9 **The 2009 Annual Meeting of the Michigan Section of the Mathematical Association of America & MichMATYC**, Mathematics Department at Central Michigan University, Mount Pleasant, Michigan.  
**Information:** Visit <http://www.cst.cmich.edu/units/mth/MAAMeeting/MAASectMeet09.htm>.

- \* 11–13 **DIMACS Workshop on Algorithmic Mathematical Art: Special Cases and Their Applications**, DIMACS Center, CoRE Building, Rutgers University, Piscataway, New Jersey.

**Short Description:** There is a significant and growing interest in mathematical or algorithmic art. This is in part due to advancement in computer technology, higher mathematics, sophisticated algorithms, and the community of mathematically- or computationally-minded contributors whose works demonstrate the beauty and potential of mathematics in manifestation of algorithmic art. This DIMACS workshop will be a three-day exploration focusing on some special cases of what may be characterized as algorithmic mathematical art and its applications. Topics include mathematically-rooted, algorithmically-conducted approaches to computer graphics, visualization, painting, sculpturing, drawing, and other visual arts. The workshop will include invited and contributed talks as well as hands-on activities. In particular, the participants will be introduced to Polynomiography and its software at a computer lab. There will be an informal exhibit area for display of artwork of the participants. We encourage participation of mathematicians, scientists, artist, and educators. To contribute a talk, please submit a 1–2 page abstract (pdf format is preferred) to Bahman Kalantari (email: [kalantari@cs.rutgers.edu](mailto:kalantari@cs.rutgers.edu)) for refereed evaluation by March 15, 2009. Contributors will be notified of acceptance decisions by mid April. The possibility of a refereed proceedings exists and a decision will be announced at a later time.

**Organizers:** Bahman Kalantari, Rutgers University, [kalantari@cs.rutgers.edu](mailto:kalantari@cs.rutgers.edu); Helaman Ferguson, <http://Helasculpt.com>; [helamanf@helasculpt.com](mailto:helamanf@helasculpt.com); Dirk Huylebrouck, Sint Lucas (Brussels), [dirk.huylebrouck@architectuur.sintlucas.wenk.be](mailto:dirk.huylebrouck@architectuur.sintlucas.wenk.be); Radmila Sazdanovic, The George Washington University, [radmila@gwmail.gwu.edu](mailto:radmila@gwmail.gwu.edu).

**Local Arrangements:** Nicole Clark, DIMACS Center, [nicolec@dimacs.rutgers.edu](mailto:nicolec@dimacs.rutgers.edu), 732-445-5928.

**Information:** <http://dimacs.rutgers.edu/Workshops/MathArt/>.

- \* 14–17 **Foundational Adventures: Conference in Honor of the 60th Birthday of Harvey M. Friedman**, The Blackwell Inn, The Ohio State University, Columbus, Ohio.

**Description:** This interdisciplinary conference, with a stellar list of speakers, is made possible by the support of The Ohio State University and the John Templeton Foundation. We have at our disposal some limited travel funds from the National Science Foundation, with the aim of providing opportunities for participation by women, minorities, and persons with disabilities. Details about the application process are available on the conference webpage. The program and the list of titles and abstracts are also accessible from that webpage.

**Plenary speakers include:** Martin Davis (UC Berkeley and NYU), Solomon Feferman (Stanford), Harvey Friedman (Ohio State), Saul Kripke (CUNY), Anil Nerode (Cornell), Hilary Putnam (Harvard), Gerald Sacks (Harvard and MIT), and Patrick Suppes (Stanford).

**Information:** [http://people.cohums.ohio-state.edu/tennant9/friedman\\_conference.html](http://people.cohums.ohio-state.edu/tennant9/friedman_conference.html).

- \* 15–17 **Conference on Differential Geometry: Tribute to Professor Kostake Teleman (1933–2007)**, Bucharest University, Faculty of Mathematics and Computer Science, Academiei 14, Bucharest, Romania.

**Description:** This international conference is devoted to the memory of Kostake Teleman, an outstanding Romanian geometer, professor at the Bucharest University till 2007. The topics of the conference will cover the domains of interest of Professor Teleman: Differential Geometry, Topology, Algebraic Topology, Mathematical Physics and Relativity, focusing on latter developments of his works.

**Organizers:** Knud Lonsted (Denmark), Andrei Moroianu (CNRS- Ecole Polytechnique), Gabriel-Teodor Pripoea (Univ. Bucharest), Olivian Simionescu-Panait (Univ. Bucharest), Constantin Udriste (Univ. Politehnica, Bucharest), Vladimir Balan (Univ. Politehnica, Bucharest), Paul Popescu (Univ. Craiova), Wladimir Boskoff (Univ. 'Ovidius', Constanta).

**Registration:** The registration is free.

**Deadline:** The deadline for registration is April 15, 2009.

**Information:** For further details, please contact Gabriel-Teodor Pripoea: [gpripoea@fmi.unibuc.ro](mailto:gpripoea@fmi.unibuc.ro) or [gpripoea@yahoo.com](mailto:gpripoea@yahoo.com); Visit [http://fmi.unibuc.ro/ro/pdf/2009/manifestari/anunt\\_KTeleman%202009.pdf](http://fmi.unibuc.ro/ro/pdf/2009/manifestari/anunt_KTeleman%202009.pdf).

- \* 15–17 **Twenty Years of Wavelets**, DePaul University, Chicago, Illinois.

**Organizers:** Jonathan Cohen (DePaul), [jcohen@condor.depaul.edu](mailto:jcohen@condor.depaul.edu), and Ahmed Zayed (DePaul), [azayed@condor.depaul.edu](mailto:azayed@condor.depaul.edu).

**Conference Themes:** DePaul University is sponsoring a conference on wavelets and their applications. The conference commemorates the twentieth anniversary of a 1989 conference at DePaul University on computational and numerical aspects of harmonic analysis that featured the emerging topic of wavelets. This conference will focus on what has been accomplished in twenty years both in terms of application and theory, and on current areas.

**Speakers:** Raphy Coifman, Peter Jones, Ingrid Daubechies, John Benedetto, Martin Vetterli, Michael Frazier, Naoki Saito, Greg Beylkin, Victor Wickerhauser, Guido Weiss, Bjorn Jawerth and Mauro Maggioni.

**Financial Support:** The conference is supported by a grant from the National Science Foundation, DMS-0852170. Partial travel support is available with priority given to junior faculty and graduate students. There will be contributed paper sessions related to the themes of the conference.

**Information:** Registration, travel, and support information can be obtained directly from the website: <http://depaul.edu/~wavelets> Contact: [wavelets@depaul.edu](mailto:wavelets@depaul.edu).

- \* 18–29 **2009 Georgia International Topology Conference**, University of Georgia, Athens, Georgia.

**Description:** This will be the seventh in a series of octennial conferences that started in 1961.

**Information:** <http://www.math.uga.edu/~topology/>.

- \* 19–29 **2009 PIMS-MITACS GIMMC/IPSW Events**, University of Calgary, Calgary, Alberta, Canada.

**Description:** Both events are being organized under the auspices of the Pacific Institute for the Mathematical Sciences and the MITACS Network of Centres of Excellence. Registration began on February 11, 2009, and will end on April 9, 2009.

**Information:** <http://www.pims.math.ca/industrial/workshops/2009-pims-industrial-problem-solving-workshop-and-graduate-industrial-mathemati>.

- \* 24–29 **Workshop on Finsler Geometry and its Applications**, University of Debrecen, Debrecen, Hungary.

**Description:** The scientific program is devoted to lectures given by the participants on various fields of Finsler geometry, their generalizations, and applications in physics, biology, control theory, finance, psychometry, etc. The workshop focuses on open problems such as

the existence of nontrivial Landsberg metrics. This event is intended to continue the series of workshops on Finsler geometry (Seattle 1995, Edmonton 1998, Iasi 2001, Berkeley 2002, Debrecen 2003, Tianjin 2004, Balatonföldvár 2007) and the Finsler Symposiums held yearly in Japan. At the openings, the 100th anniversary of the late academician Ottó Varga's birthday will be commemorated.

**Information:** <http://www.math.klte.hu/finsler2009>.

\* 28-30 **Nonlinear Partial Differential Equations. Fuensanta Andreu: In Memoriam**, Facultat de Matemàtiques, Universitat de València, Burjassot, Spain.

**Description:** This international conference is a tribute to the memory of Fuensanta Andreu Vaillo, an outstanding person and mathematician who sadly passed away last December 26th at the age of 53.

**List of speakers:** David Arcoya, Coloma Ballester, Lucio Boccardo, Xavier Cabré, Vicent Caselles, Andrea Dall'Aglio, Jesús Ildefonso Díaz, Noureddine Igbida, Antonio Marquina, Rainer Nagel, Luigi Orsina, Irene Peral, Julio Rossi, Mircea Sofonea, Juan Soler.

**Information:** <http://www.uv.es/fuensanta>.

## June 2009

\* 2-5 **Holomorphically symplectic varieties and moduli spaces**, Laboratoire Paul Painlevé at the University of Lille 1, Lille, France.

**Description:** The conference will focus on irreducible symplectic varieties (ISV) and on moduli problems related to ISVs. One of the aims of the conference is to bring together specialists in both arithmetic and geometric aspects of the theory. The geometric aspect includes the description of families of ISVs which possess particular geometric properties. The arithmetic aspect is connected to indefinite lattices and associated automorphic forms, which come up via the polarized Hodge structures of the ISVs or of other varieties with a similar Hodge structure.

**Organizers:** Valery Gritsenko and Dimitri Markushevich.

**Preliminary List of Non-local Participants:** F. Bogomolov, U. Bruzzo, F. Catanese, S. Druel, L. Gruson, K. Hulek, M. Lehn, E. Looijenga, C. Madonna, L. Manivel, E. Markman, V. Nikulin, G. Sankaran, C. Sorger, A. Tikhomirov, M. Verbitsky, K.-I. Yoshikawa.

**Information:** See <http://math.univ-lille1.fr/~markushe/MOD2009/>.

\* 2-6 **The 29th Great Planes Operator Theory Symposium (GPOTS 2009)**, Department of Mathematics, University of Colorado at Boulder, Colorado.

**Description:** The GPOTS conferences have traditionally brought together a wide range of researchers in operator theory and operator algebras. Moreover, the GPOTS 2009 special meeting will serve as a high-altitude training for the next generation of operator theorists and operator algebraists. The particular topics covered in the conference are (A)  $C^*$ -algebras and their classification, (B) noncommutative geometry and index theory, (C) wavelets, frames, and operator theory and (c) subfactors.

**Information:** <http://www.colorado.edu/math/gpots2009>.

\* 4-6 **Lehigh University Geometry and Topology Conference**, Lehigh University, Bethlehem, Pennsylvania.

**Description:** Invited talks by Gunnar Carlsson (Stanford), Fred Cohen (Rochester), Panagiota Daskalopoulos (Columbia), Ngaiming Mok (Hong Kong), Wilfried Schmid (Harvard), and Rick Schoen (Stanford) (all confirmed). Participants may give 40-minute contributed talks in geometry or topology. Limited travel support is available for recent Ph.D.'s, current graduate students and members of underrepresented groups.

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

\* 8-11 **Analysis, Inequalities and Homogenization Theory (AIHT 2009)**, Lulea University of Technology, Lulea, Sweden.

**Description:** Midnight sun conference in honour of Lars-Erik Persson on the occasion of his 65th birthday.

**Information:** <http://www.math.ltu.se/aiht/>.

\* 7-12 **35th International Conference: Applications of Mathematics in Engineering and Economics (AMEE'09)**, The Black Sea resort of Sozopol, Bulgaria.

**Description:** This is the 35th in a series of conferences on the application of mathematics to foundational issues in general science and in engineering sciences. The aim of the conference is to provide a widely selected forum among experts and young scientists to exchange ideas, methods and techniques in the fields of Applied Mathematics and Mathematical Modeling. In addition to the invited lectures there will be sessions for twenty-minute contributed talks. Young researchers are particularly encouraged to present their recent works. The conference post-proceedings will be published only after peer reviewing by the International Conference Proceedings Series of AIP.

**Local Organizers:** Ketty Peeva, Vesela Pasheva, Adriana Georgieva, Nikola Kaloyanov, Krasimira Prodanova, George Venkov, Yana Stoyanova.

**International Programme Committee:** Ralitzia Kovacheva, Mayer Aladjem, Stefanka Chukova, Maya Flikop, Vladimir Georgiev, Michail Konstantinov, Raytcho Lazarov, Bernadette Miara, Petko Petkov.

**Information:** <http://www.tu-sofia.bg/fpmi/amee/>.

\* 10-12 (NEW DATE) **Sixth Advanced Course in Operator Theory and Complex Analysis**, Seville, Spain.

**Invited Speakers:** Gilles Cassier (Université Lille 1, France), Carl C. Cowen (Purdue University, USA), Nikolai G. Makarov (California Institute of Technology, USA), Armen G. Sergeev (Steklov Mathematical Institute, Russia).

**Information:** <http://congreso.us.es/ceacyto/2009>.

\* 15-19 **Conference on Harmonic Analysis, Geometric Measure Theory and Quasiconformal Mappings**, CRM: Centre de Recerca Matemàtica, Bellaterra, Spain.

**Purpose:** Of the conference is to provide researchers working in harmonic analysis, quasiconformal mappings or geometric measure theory with a scientific event designed to promote a deep interaction between the three subjects. The themes dealt with in the conference will be: 1. New developments on distortion of sets under quasiconformal mappings (Lacey, Sawyer, Uriarte) 2. Quasiconformal mappings and PDE, in particular the Calderón inverse problem (Astala, Faraco, Iwaniec, Päivärinta, Zhong) 3. Removability and quasiconformal mappings (Astala, Clop, Mateu, Orobitg, Tolsa) 4. Functions of finite distortion and hyperelastic deformations (David, Iwaniec, Koskela, Saksman) 5. Metric measure spaces, Poincaré's inequality and harmonic functions (Hajlasz, Koskela, Zhong) 6. Human vision and the Heisenberg group (Citti, Sarti). Grants are available for young researchers.

**Chair:** Pertti Mattila, Univ. of Helsinki, Finland.

**Organisers:** ESF-EMS-ERCOM.

**Information:** <http://www.esf.org/conferences/09308>.

\* 15-19 **International Summer School on Operator Algebras and Applications**, Instituto Superior Técnico, UTL, Lisbon, Portugal.

**Description:** The main goal of this summer school is to present developments in operator algebras, function algebras and applications and to promote research exchanges in these topics. The school is being organized by the Research Center for Functional Analysis and Applications, at Instituto Superior Técnico, Lisbon, Portugal. It consists of four short courses covering the following topics: Crossed product  $C^*$ -algebras, Christopher Phillips, University of Oregon; Regularity conditions for Banach function algebras, Joel Feinstein, University of Nottingham; Spatial discretization of  $C^*$ -algebras, Steffen Roch, TU Darmstadt;  $C^*$ -algebras: Hilbert Modules, Index Theory, K-Homology, Vladimir Manuilov, Moscow State University. To stimulate the participation of students and young researchers, a small number of scholarships will be available.

\* 16-25 **International Workshop on Resonance Oscillations and Stability of Nonsmooth Systems**, Imperial College, London, United Kingdom.

**Description:** Mathematical research on resonance oscillations in nonsmooth systems has seen a steady growth in attention lately, and due to recent progress a number of technically relevant open problems concerning resonances of nonsmooth mechanical and physical systems have become in reach of being resolved. The object of the meeting is to explore the current power and open problems of the theory of resonance oscillations and stability of nonsmooth systems by bringing together different research groups working in the field as well as by organizing discussions with relevant industrial experts. The first part of the workshop (four days: 16-19 June) will be formal, with a full schedule of invited and contributed talks. In contrast, the 2nd part (four days: 22-25 June) will be more informal, with discussion sessions on specific problems aimed at developing new research collaborations.

**Information:** <http://www.ma.ic.ac.uk/~omakaren/rosns2009/>.

\* 18-20 **Models, Logics and Higher-Dimensional Categories: A tribute to the work of Mihaly Makkai**, Centre de recherches mathématiques, Université de Montréal, Montréal, QC Canada.

**Description:** This meeting celebrates the mathematical career of Mihaly Makkai, focussing on his work in model theory, logic, and higher dimensional category theory. Recently there has been a widening consensus that traditional model theory might usefully embrace the categorical methods he pioneered. Traditional model theory is set-based; in contrast, there has been an increasing use of category-theoretic (specifically including sheaf-theoretic) contexts and techniques in recent model-theoretic work in such areas as algebraic geometry, differential algebra, Mordell-Lang theory, etc. We will have contributions from Michael's former and current colleagues and students, including the following: Mike Barr, Victor Harnik, Bradd Hart, Andre Joyal, Hal Kierstead, Julia Knight, Francois Lamarche, Robert Pare, Anand Pillay, Gonzalo Reyes, Charles Steinhorn, Marek Zawadowski.

**Information:** [http://www.crm.umontreal.ca/Makkaifest09/index\\_e.php](http://www.crm.umontreal.ca/Makkaifest09/index_e.php).

\* 22-25 **Geometric Flows in Mathematics and Theoretical Physics**, Center "Ennio De Giorgi"—Scuola Normale superiore, Pisa, (IT).

**Description:** The workshop aims to report on the recent interdisciplinary developments about geometric flows with an emphasis on the discussion of problems and new research directions coming from the mathematical and theoretical physics communities.

**Speakers will include:** J. Bakas, G. Bellettini, H.-D. Cao (to be confirmed), F. Costantino, D. Friedan, J. Gegenberg, D. Glickenstein, J. Isenberg, A. Magni, S. Maillot, L. Ni (to be confirmed), M. Petropoulos, E. Tsatis, S. Vardarajan, E. Wolgar.

**Information:** For more information, contact Mauro Carfora at: [Mauro.Carfora@pv.infn.it](mailto:Mauro.Carfora@pv.infn.it); or visit: <http://cvgmt.sns.it/MPRicci-Workshop>.

\* 23-25 **Geometric Topology in 3 and 4 Dimensions**, University of California, Davis, California.

**Description:** This conference, in honor of Martin Scharlemann, will consist of four, one hour long talks on each of the three days.

**Speakers will include:** David Bachman (Pitzer College), Dave Gabai (Princeton), Hiroshi Goda, (Tokyo University), Robert Gompf (UT Austin), Cameron Gordon (UT Austin), Ko Honda (University of Southern California), Tao Li (Boston College), Daryll McCullough (University of Oklahoma), Ruifeng Qiu (Dalian University), and Hyam Rubinstein (University of Melbourne).

**Information:** <http://www.math.yale.edu/~jj327/conference/>.

\* 24-26 **International Workshop on Reliable Methods of Mathematical Modeling (RMMM 2009)**, Humboldt-Universität zu Berlin, Germany.

**Aims and Scope:** The workshop is organized to bring together specialists developing mathematical and computational methods intended

to increase the reliability of the numerical results obtained in various mathematical modeling methods.

**Main Topics:** Mesh-adaptive numerical methods in various applied problems, a posteriori error control and verification of numerical solutions, validation of mathematical models used in computer simulation, nonlinear computational partial differential equations.

**Program Committee:** D. Braess, C. Carstensen, W. Dörfler, R. Hoppe, P. Neittaanmaki, R. Rannacher, J. Rappaz, S. Repin, S. Sauter, R. Verfürth.

**Organizing Committee:** C. Carstensen, P. Neittaanmaki, S. Repin, S. Sauter.

**Information:** <http://www.math.hu-berlin.de/~rmmm2009>.

\* 24-26 **Sixth Advanced Course in Operator Theory and Complex Analysis**, Seville, Spain.

**Invited Speakers:** Gilles Cassier (Université Lille 1, France), Carl C. Cowen (Purdue University, USA), Nikolai G. Makarov (California Institute of Technology, USA), Armen G. Sergeev (Steklov Mathematical Institute, Russia).

**Information:** <http://congreso.us.es/ceacyto/2009>.

## July 2009

\* 3-7 **International Conference on Mathematical Control Theory and Mechanics**, Suzdal, Russia.

**Description:** Steklov Mathematical Institute, Russian Academy of Sciences, and Vladimir State University are organizing an International Conference on Mathematical Control Theory and Mechanics. The Conference will include the following sections: 1. Mathematical problems of Control Theory; 2. Mathematical problems of Mechanics.

**Information:** <http://mctm2009.vlsu.ru>.

\* 5-10 **The second European Set Theory Meeting: In honor of Ronald Jensen — an ESF-EMS-ERCOM research conference**, Mathematical Research and Conference Center, Bedlewo, Poland.

**Scope:** Over the last century set theory has developed into a vibrant and important subject. On the one hand, it deals with questions of mathematical logic of deep foundational importance, such as the choice of axioms for mathematics and the questions of relative consistency of mathematical theories. On the other hand, techniques of set theory are applied in many areas of mathematics such as classical analysis, general topology, measure theory, Banach space theory, abstract algebra, ergodic theory and dynamical systems.

**Topics:** Inner model theory and large cardinals; Descriptive set theory; Combinatorial set theory; Applications of set theory to Banach spaces, measure theory, general topology, and other neighboring areas.

**Speakers:** Menachem Magidor will give a Special Lecture on the work of Ronald Jensen.

**Grants:** Available for young researchers. Closing date for applications and abstracts: April 8, 2009/

**Chair:** Jouko Väänänen, Univ. of Helsinki, FI/Univ. of Amsterdam, NL.

**Information:** <http://www.esf.org/conferences/09306>.

\* 5-18 **39th Probability Summer School**, Saint-Flour, France.

**Description:** Three courses will be given: Robert Adler: Topological complexity of smooth random functions. Mireille Bousquet-Melou: Enumerative combinatorics for probability. Alison Etheridge: Some mathematical models from population genetics.

**Deadline for registration:** April 20, 2009.

**Information:** <http://math.univ-bpclermont.fr/stflour/>.

\* 15-20 **Dobrushin International Conference**, Institute for the Information Transmission Problems, RAS, Moscow, Russia.

**Description:** Institute for Information Transmission Problems of the Russian Academy of Sciences and Independent University of Moscow organize a conference to honor the 80-th anniversary of Prof. Roland L. Dobrushin (1929-1995). The areas of emphasis of the conference correspond to the main fields of interest of Roland Dobrushin and

include Probability Theory, Mathematical Physics, Statistical Mechanics, Information Theory and Mathematical Linguistics.

- \* 20-22 **Future Models for Energy and Water Management— AMSI/MASCOS/UNESCO Industry workshop and short course: Future Models for Energy and Water Management under a Regulated Environment**, Queensland University of Technology, Brisbane, Queensland 4000 Australia.

**Description:** This three-day event will consist of three 3-hour short courses and three 3-hour workshops on Future Models for Energy and Water Supply under a Regulated Environment with contributed talks in the afternoon. Participate in workshops — offering industry professionals a rare opportunity to share their experience, expertise and discuss problems.

**Topics:** Likely to be addressed will be: Energy and water economy in a regulated environment, Renewable energy sources, Network modeling and management, Risk management, Risk-return and efficient frontiers, Power system stability, Network optimisation, Demand forecasting, Carbon cost of food, Demand side management.

**Information:** <http://www.amsi.org.au/energy.php>.

- \* 20-24 **Vibration and Structural Acoustics Analysis: in conjunction with 3rd International Conference on Integrity, Reliability & Failure**, FEUP/INEGI, University of Porto, Porto, Portugal.

**Description:** Papers are solicited in the following and related areas: Vibration analysis; analytical and computational structural acoustics and vibration; material systems and technologies for noise and vibration control; passive/semi-active/active control techniques; piezoelectric and viscoelastic damping technologies; shape/position and fluid flow control; nonlinear dynamics and vibrations; vibration-based structural health monitoring/evaluation and damage prognosis; machinery noise/vibration and diagnostics; reciprocating machinery and rotor dynamics; experimental testing in vibration and structural acoustics; experimental modal analysis; modeling of the dynamics and damping of complex systems; noise and vibration on high-speed trains and railways; structural and musical acoustics; applications and case studies in structural acoustics and vibration.

**Promoters:** J. Dias Rodrigues & C. M. A. Vasques.

**Deadlines:** Extended Abstracts are due by 28 February 2009 (please see address below), and those accepted will appear in a book which will be made available to delegates of IRFA 2009 during the event. Full papers will also be compiled in a CD-ROM and selected papers will be considered for publication in a number of scientific journals of international reputation.

**Information:** <http://paginas.fe.up.pt/clme/IRF2009>; email: [jdr@fe.up.pt](mailto:jdr@fe.up.pt); [cvasques@fe.up.pt](mailto:cvasques@fe.up.pt).

### August 2009

- \* 1-15 **Groups St Andrews 2009 in Bath**, University of Bath, Bath, United Kingdom.

**Topics:** The conference aims to cover all aspects of group theory. The short lecture courses are intended to be accessible to postgraduate students, postdoctoral fellows, and researchers in all areas of group theory.

**Programme:** The speakers below have kindly agreed to give short courses of lectures in week 1. In addition there will be a programme of one-hour invited lectures and short research presentations. There will be three theme days in week 2: a “B.H. Neumann day”, a day to celebrate birthdays of John Cannon and Derek Holt, and an “Engel groups day”.

**Principal Speakers:** Gerhard Hiss (RWTH, Aachen, Germany), Volodymyr Nekrashevych (Texas A&M, Texas, USA), Dan Segal (All Souls College, Oxford), Eamonn O’Brien (Auckland, New Zealand), Mark Sapir (Vanderbilt, Nashville, USA).

**Information:** <http://www.groupsstandrews.org/2009/index.html>.

- \* 9-15 **Reconnect Conference 2009: Reconnecting Teaching Faculty to the Mathematical Sciences Enterprise and Exposing Researchers in Government and Industry to Relevant Current Research, Visual Analytics and its Applications.**, DyDAn Center, Rutgers University, Piscataway, New Jersey.

**About the Reconnect Conference:** The conference will expose faculty teaching undergraduates to the role of the mathematical sciences in homeland security by introducing them to a current research topic that will be relevant for classroom presentation. The conferences also offer researchers in government or industry the opportunity to learn about recent techniques in emerging application areas relevant to homeland security.

**Principal Speaker:** Georges Grinstein, University of Massachusetts, Lowell; [grinstein@cs.uml.edu](mailto:grinstein@cs.uml.edu).

**Topics:** Will be presented in a week-long series of lectures and activities led by an expert in the field. Participants will be involved in both research activities and in writing materials useful in the classroom or to share with their colleagues, with the possibility of ultimately preparing these materials for publication in either our Technical Report or our Educational Modules Series. These workshops offer the opportunity for junior faculty as well as mid-level and senior faculty and government and industry professionals to explore research questions in a new area of the mathematical sciences. Participants will also acquire materials and gain ideas for seminar presentations and for undergraduate research projects and have the opportunity to network with people from a variety of backgrounds.

**Conference Organizer:** Fred S. Roberts, Rutgers University (email: [froberts@dimacs.rutgers.edu](mailto:froberts@dimacs.rutgers.edu)).

**Registration:** Registration Fees, Lodging, Meals and Travel: See website. Anyone may apply. Preference will be given to faculty whose primary job is undergraduate teaching and those working at government labs. Two-year college faculty are welcome to apply. Faculty from groups under-represented in mathematics are also encouraged to apply.

**Deadline:** Application deadline is April 15, 2009.

**Information:** To receive more information, visit our website at: <http://dydan.rutgers.edu/Education/reconnect/2009/>. Or, contact the Reconnect Program Coordinator, at: [reconnect@dimacs.rutgers.edu](mailto:reconnect@dimacs.rutgers.edu); tel: (732) 445-4304.

- \* 10-14 **Nonlinear problems for p-Laplace and Laplace**, Linköping, Sweden.

**Description:** The aim of the conference is to cover p-harmonic functions, infinity-harmonic functions, p-parabolic functions, water waves and related subjects such as various types of generalizations including quasiminimizers, the porous media equation and the corresponding theories on metric spaces.

**Lecture Series:** Michael Crandall (Santa Barbara), Juha Kinnunen (Helsinki Tech), Olli Martio (Helsinki), and John Toland (Bath) will give series of three lecture each.

**Invited Speakers:** Walter Craig (McMaster, Hamilton), Ugo Gianazza (Pavia), Mark Groves (Saarbrücken), Robert Jensen (Loyola, Chicago), Nikolay Kuznetsov (St Petersburg), Peter Lindqvist (Trondheim), Kaj Nyström (Umeå) Xiao Zhong (Jyväskylä).

**Information:** <http://www.mai.liu.se/TM/conf09/>; email: [conf-p-laplace@mai.liu.se](mailto:conf-p-laplace@mai.liu.se).

- \* 17-19 **Measurement, Design, and Analysis Methods for Health Outcomes: Research Offered by the Harvard School of Public Health Center for Continuing Professional Education**, Boston, Massachusetts.

**Description:** Taught in an interactive classroom setting, this program is geared towards introductory to intermediate learning levels to help participants design, implement, and analyze outcomes studies, and critically review and use outcomes data for clinical decision making, health care planning, and technology development. The course provides participants with an overview of several topics in the exciting new field of health outcomes, equipping newcomers with knowledge

of the language and concepts. In an increasingly competitive health care market, outcomes evaluation and research is important for: \* Improving patient outcomes, \* Controlling costs and allocating resources, \* Implementing disease management programs, \* Making effective clinical and business decisions, \* Developing and marketing health care products and services. Improving your analytical and quantitative understanding and skills can greatly enhance the quality of health outcomes research in the health care and pharmaceutical industries.

**Information:** <http://www.hsph.harvard.edu/ccpe/programs/MDA.html>. Please be sure to mention your reference code: MDA09-CAL 14.

- \* 23-25 **Salford Data Mining Conference 2009 (SALFORD 2009)**, San Diego, California.

**Description:** Post-Conference Training: August 26-28, 2009. Keynotes and panel discussions will address topics of current interest in data mining including: The Credit Crunch: How is Data Mining Helping? Is Data Mining to Blame? Finding Needles in Haystacks: Combating Terrorism, Fraud, and Criminal Activity. Advertising, Politics, Drug Discovery and Telecommunications: How Do These Applications Benefit from Data Mining? Presentation lists from previous conferences: <http://www.salforddatamining.com/prevprog.php>.

**Key Links:** Conference website: <http://www.salforddatamining.com>.

Conference update list: <http://www.salforddatamining.com/conferenceupdatelist.php>. <http://www.salforddatamining.com/docs/2009conferenceForm.pdf>.

Abstract Submissions: <http://www.salforddatamining.com/2009Abstract.php>.

Post-conference training: <http://www.salforddatamining.com/postConferenceTraining.php>.

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

- \* 24-26 **2009 Workshop for Young Researchers in Mathematical Biology (WYRMB)**, Mathematical Biosciences Institute, The Ohio State University, Columbus, Ohio.

**Description:** This workshop is intended to broaden the scientific perspective of young researchers in mathematical biology and to encourage interactions with other scientists. Workshop activities include plenary talks, poster sessions, and discussion forums on "Applying for Jobs" and "Math Bio Jobs in Industry." We cordially invite young researchers to apply for participation in the workshop! All invitees will be expected to present a poster, and this year, a select number will be chosen to give short talks as well. The MBI will plan to cover local expenses for all invitees, but travel expenses may only be available on a competitive basis.

**Information:** <http://www.mbi.osu.edu/wyrm/wyrm2009.html>.

- \* 24-28 **Mal'tsev Meeting**, Sobolev Institute of Mathematics SB RAS, Novosibirsk, Russia.

**Description:** This international conference on algebra, mathematical logic, and applications is dedicated to the 100th anniversary of Anatolii Ivanovich Mal'tsev (1909-1967). The programme of the conference will consist of 26 invited talks and contributions in sections. The main topics include group theory, ring theory, universal algebra, mathematical logic, computability theory, theoretical computer science, and related areas of mathematics.

**Information:** <http://www.math.nsc.ru/conference/malmeet/09/index.html>.

- \* 30-31 **Oded Schramm Memorial Conference in Probability and Geometry**, Microsoft Research, Redmond, Washington.

**Description:** A two-day conference to be held at Microsoft Research in honor of Oded Schramm and his mathematics. Speakers at the conference will include Omer Angel (Univ. British Columbia), Itai Benjamini (Weizmann), Mario Bonk (Univ. Michigan), Michael Freedman (Microsoft), Christophe Garban (ENS Paris), Olle Häggström (Chalmers),

Zheng-Xu He (Beijing CAS), Gregory F. Lawler (Univ. Chicago), Russell Lyons (Indiana Univ.), Assaf Naor (Courant), Yuval Peres (Microsoft), Gábor Pete (Univ. Toronto), Steffen Rohde (Univ. Washington), Scott Sheffield (MIT), Stanislav Smirnov (Univ. Genève), Wendelin Werner (Orsay), and David B. Wilson (Microsoft).

**Information:** <http://research.microsoft.com/~schramm/workshop/>.

## September 2009

- \* 3-5 **International Conference on Modern Mathematical Methods in Science and Technology (M3ST '09)**, Poros Image Hotel, Poros Island, Greece.

**Topics:** Differential equations and mathematical models, numerical analysis, mathematics of computation, applications of mathematics in economy, stochastic analysis, modelling optimization, control theory, image and signal processing.

**Invited Speakers:** H. Ammari (CNRS, France), G. Bellettini (Roma, Tor Vergata, Italy), N. Bouleau (ENPC, France), G. Dassios (Patras, Greece), P. Imkeller (Humbolt University, Berlin, Germany), O. A. Karakashian (Tennessee, Knoxville, U.S.A.), L. Kirousis Patras, Greece), D. J. N. Limebeer (Imperial College, U.K.), F. Murat (Paris VI, France), E. M. Ouhabaz (Bordeaux, France), G. Papanicolaou (Stanford, U.S.A.), J.-C. Saut (Paris Sud 11, France), A. Tertikas (Heraklion, Crete, Greece), A. E. Tzavaras (Heraklion, Crete, Greece).

**Information:** <http://www.math.uoa.gr/M3ST09/index.html>.

- \* 3-6 **International Conference on Theory and Applications in Mathematics and Informatics**, "1 Decembrie 1918" University of Alba Iulia, Alba Iulia, Romania.

**Description:** The aim of the conference is to bring together mathematicians and informaticians from all over the world and to attract original papers on the following topics: algebra, analysis and complex analysis, topology and geometry, differential equations, probability and statistics, applied mathematics, computer science, intelligence computation, product and process modelling, embedded systems, knowledge engineering, e-education.

**Information:** <http://www.uab.ro/ictami>.

- \* 7-12 **Advanced School on Homotopy Theory and Algebraic Geometry**, 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 Algebraic Geometry and related areas. There will be three main minicourses: (1) Derived Algebraic Geometry. (2) Model Categories and Derivators. (3) Cartan-Eilenberg Categories and Descent Categories.

**Speakers:** Francisco Guillén Santos, University of Barcelona; Bernhard Keller and Georges Maltsiniotis, University of Paris 7; Vicente Navarro Aznar, University of Barcelona; Beatriz Rodríguez González, CSIC-Madrid; Bertrand Toën and Michel Vaquié, University of Toulouse; Gabriele Vezzosi, University of Bologna.

**Information:** <http://congreso.us.es/htag09>.

- \* 8-12 **IV International Conference on Mathematical Analysis in Andalusia**, University of Cadiz, Jerez de la Frontera, Spain.

**Description:** This edition will be dedicated to the memory of Professor Antonio Aizpuru Tomas, full professor in Mathematical Analysis of Cadiz University, who suddenly passed away on May 1, 2008. He was mainly responsible for the development of the studies of mathematics in Cadiz and in the research activities on functional analysis in this university. He was also a beloved person and friend. We kindly invite you to participate in this scientific event which we hope will be of interest to you.

**Information:** <http://cidama.uca.es>.

- \* 11-13 **Algebra and Topology in Interaction**, University of California, Davis, California.

**Description:** In honor of Professor Dmitry Fuchs' 70th Anniversary.

**Theme:** The main theme of the conference is the interplay of algebra and topology over the past 40 years, since the birth of Gelfand Fuchs cohomology.

**Topics:** Include current exciting developments in symplectic field theory, representations of infinite dimensional Lie algebras, topological quantum field theory, topological applications of cohomology of infinite dimensional Lie algebras, characteristic classes of foliations, contact homology, Chekanov Eliashberg differential graded algebra, and Legendrian knot theory.

**List of speakers:** B. Feigin, E. Frenkel, S. Gindikin, A. Givental, M. Khovanov, A. Kirillov, S. Novikov, V. Retakh, C. Roger, G. Segal, S. Tabachnikov, and O. Viro. Mathematicians at all levels are invited to attend. An important goal of the conference is to provide an opportunity for a diverse group of mathematicians including postdoctoral researchers, those with traditionally underrepresented background, graduate students, and faculty from primary undergraduate institutions, to meet and discuss mathematics with the invited leading experts of the field.

**Deadline:** Those interested in receiving funding for travel should apply by July 31, 2009. This conference is supported by the NSF, MSRI, and UC Davis.

**Information:** email: [cdani@math.ucdavis.edu](mailto:cdani@math.ucdavis.edu); <http://www.math.ucdavis.edu/research/algetopcon>.

\* 27-29 **Symposium on Engineered & Natural Complex Systems**, Toronto, Ontario, Canada.

**Topics:** Include, but are not limited to, the following: Structure, function and dynamics of complex systems, i.e. data communication networks, cyberspace, transportation networks, organizational networks, power grids, biological, physical, social, ecological, epidemiological and other complex systems & networks; Emergence, multiscale phenomena, self-organization, self-similarity, long range dependence, phase transition, pattern formation, synchronization, robustness, reliability, fragility, interdependence, cooperation, adaptation, evolution; Analysis & control techniques of dynamics & performance, mean field & information theory of complex systems & networks; Cellular automata, agent based & individually based and other models of complex systems & networks and their simulations.

**Information:** [http://toronto.ieee.ca/tic-sth2009/cfps/IEEE\\_TIC-STH09\\_CFP-ENS.pdf](http://toronto.ieee.ca/tic-sth2009/cfps/IEEE_TIC-STH09_CFP-ENS.pdf).

## October 2009

\* 5-9 **International Conference "Kolmogorov readings. General control problems and their applications (GCP-2009)"**, Tambov State University named after G.R. Derzhavin, Institute of Mathematics, Physics, and Computer sciences, Tambov, Russia.

**Description:** The conference is the 4th one in the series "Kolmogorov readings" gathering international scientists in the city where the outstanding mathematician, A.N. Kolmogorov, was born. Traditionally the conference will mainly focus on general control problems and their applications in natural and human sciences, optimization theory, differential equations and inclusions. There are planned plenary (40 min.) and sectional (20 min.) talks, as well as a school on optimal control aimed to Ph.D students and young researchers.

**Information:** <http://www.tambovopu2009.narod.ru/>.

\* 12-14 **The 6th annual International New Exploratory Technologies Conference (NEXT 2009)**, Fudan University, Shanghai, China.

**Description:** This year's NEXT focuses on four special themes: Productization and Commercialization, Productization of Embedded Software in Products and Services, Renewable Energy Technology, and Exploratory Materials and Technology.

**Organizers:** Fudan university and University of Turku.

**Information:** <http://next.utu.fi/2009>.

\* 19-22 **International Conference "Discrete Mathematics, Algebra, and their applications" (DIMA09)**, Belarus State University, Minsk, Belarus.

**Description:** The conference is dedicated to the 80th birthday of Professor Regina Tyshkevich. The research activity of Regina Tyshkevich is connected with two fields: discrete mathematics (graph theory, combinatorics) and algebra (permutation groups, linear groups, matrix algebras). She is the founder of the Belarus school in graph theory, that has gained a worldwide recognition. Professor Tyshkevich was awarded the Belarus State Prize and the title of a Distinguished Worker of Education. The conference topics include (but are not restricted to): Graph theory, combinatorics, discrete optimization, algorithms, data structures and computational complexity, applications of discrete mathematics in computer science, operations research, algebra, topology, probability theory, permutation groups, linear groups and representations, Brauer groups of varieties and algebraic groups.

**Information:** <http://dima09.bsu.by>.

\* 26-28 **SAGA 2009, Fifth Symposium on Stochastic Algorithms, Foundations and Applications**, Hokkaido University, Sapporo, Japan.

**Description:** The symposium offers the opportunity to present original research on the analysis, implementation, experimental evaluation, and real-world application of stochastic algorithms. The focus of SAGA'09 is on new algorithmic ideas involving stochastic decisions and the design and evaluation of stochastic algorithms within realistic scenarios. Thus, the symposium wants to foster the co-operation between practitioners and theoreticians from this research area.

**Topics:** Original research papers (including significant work-in-progress and work identifying and exploring directions of future research) or state-of-the-art surveys are invited on all aspects of algorithms employing stochastic components.

**Information:** <http://www-alg.ist.hokudai.ac.jp/~thomas/SAGA09/saga09.html>.

\* 26-30 **Implementing algebraic geometry algorithms**, American Institute of Mathematics, Palo Alto, California.

**Description:** This workshop, sponsored by AIM and the NSF, will be devoted to developing three packages, algebraic statistics, numerical algebraic geometry, toric algebraic geometry, for the computer algebra system Macaulay 2. Macaulay 2 is a widely used computer algebra system for research and teaching in algebraic geometry and commutative algebra and is one of the leading computer algebra programs for performing such computations.

**Information:** Visit <http://aimath.org/ARCC/workshops/agalgorithms.html>.

\* 26-31 **Autumn School: "Towards a p-adic Langlands Correspondence"**, 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, arithmetic algebraic geometry and related areas. There will be four main minicourses: (1) Introduction to the theory of representations of p-adic groups. (2) Modular forms, automorphic forms and GL(2). (3) The Langlands program. (4) Towards a modular Langlands correspondence.

**Speakers:** James Cogdell, Ohio State University; Jean François Dat, Université Paris 6; Guy Henniart, Université Paris Sud; Ariane Mézard, Université de Versailles; Vincent Sécherre, Université de Marseille; Shaun Stevens, University of East Anglia; Jose M. Tornero Sánchez, Universidad de Sevilla.

**Information:** <http://congreso.us.es/planglands09>.

## November 2009

\* 19-21 **2nd meeting on Optimization Modelization and Approximation Moma 2009**, Hassania School, Public Works Département de Mathématiques et Informatique Km 7, Route d'El Jadida, B.P 8108, Oasis-Casablanca, Morocco.

**Description:** The scope of this second meeting covers a range of major topics in numerical analysis, optimization, also in approximation and engineering and related disciplines, ranging from theoretical

developments to industrial applications and modelling of problems. The themes of the conference include, but are not limited to: Optimization, computational optimization frameworks, optimization modeling, approximation theory, radial basis functions, scattered data approximation, learning machine theory, meshless methods, numerical analysis, modelization. Applications: Image processing, financial computation, medicine and biology.

**Information:** <http://www-lmpa.univ-littoral.fr/MOMA09/>.

### December 2009

- \* 14–18 **Brownian motion and random matrices**, American Institute of Mathematics, Palo Alto, California.

**Description:** This workshop, sponsored by AIM and the NSF, will be devoted to beta-generalizations of the classical ensembles in random matrix theory. These are certain tridiagonal and unitary Hessenberg matrices, with an eigenvalue p.d.f. generalizing that of Gaussian Hermitian matrices and Haar distributed unitary matrices.

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

- \* 19–21 **International Conference on Current Trends in Mathematics**, Allahabad, Uttar Pradesh, India.

**Description:** The aim of the conference is to introduce undergraduate and Ph.D. students in mathematics as well as post-doctoral researchers to recently emerged trends of mathematics.

**Deadline:** Submit abstracts with full-length paper to: [complexgeometry18@yahoo.com](mailto:complexgeometry18@yahoo.com): October 20, 2009. Acknowledgement of accepted papers by email: October 25, 2009. For registration: November 15, 2009. All submitted papers will be under peer review and accepted papers will be published in the conference proceedings.

**Information:** [complexgeometry18@yahoo.com](mailto:complexgeometry18@yahoo.com); Sushil Shukla (email: [ss123a@rediffmail.com](mailto:ss123a@rediffmail.com)).

### January 2010

- \* 2–4 **International Convention on Mathematical Sciences**, Allahabad, India.

**Description:** The aim of the conference is to introduce undergraduate and Ph.D. students in mathematics as well as post-doctoral researchers in recently emerged trends of mathematics.

**Deadlines:** The deadline for submitting abstracts with full-length paper to [complexgeometry18@yahoo.com](mailto:complexgeometry18@yahoo.com): October 20, 2009. Acknowledgement of accepted papers by email: October 25, 2009. For registration: November 15, 2009. All submitted papers will be under peer review and accepted papers will be published in the conference proceedings.

**Information:** Contact: [complexgeometry18@yahoo.com](mailto:complexgeometry18@yahoo.com).

- \* 24–26 **International Conference on Analysis and Applications (ICAA10)**, Sultan Qaboos University, Muscat, Oman.

**Description:** The aim of this conference is to reflect the current state of the art in the study of analysis with the hope to promote scientific exchange among analysts all over the world. The main goal of this conference is to discuss new developments and future directions in analysis. Its particular focus is on the active participation of all who attend to promote a spirit of training, learning and communicating. The conference will consist of plenary talks and contributed talks of 25 minutes (20 + 5 for discussion) in parallel special sessions. All areas of analysis-related mathematics, especially topology, complex analysis, real and functional analysis, numerical analysis, and applications of analysis to other areas of mathematics and the sciences, will be covered. For any inquiries please contact us at: <http://icaa10@squ.edu.om>.

**Information:** <http://www.squ.edu.om/Portals/87/Conference/ICAA10/conference2010/ICAA10.htm>.

### February 2010

- \* 8–11 **The International Symposium on Stochastic Models in Reliability Engineering, Life Sciences, and Operations Management**, Sami Shamoon College of Engineering, Bialik/Basel Sts., Beer Sheva, 84100, Israel

**Description:** The SMRLO'10 will serve as a forum for discussing different issues of Stochastic Models and Methods in Reliability Engineering, Life Sciences, and Operations Management and their applications. The idea of the symposium is to assemble researchers and practitioners from universities, institutions, industries, businesses and government, working in these fields. Theoretical issues and applied case-studies, presented on the symposium, will range from academic considerations to operational applications. There will be invited talks, plenary sessions, parallel sessions, posters and exhibitions. The talks will be selected by the program committee and will be included in the symposium proceedings. Selected papers after review and revision will be published in special issues of international journals.

**Information:** Tel: +972-8-6475-642; fax: +972-8-6475-643; <http://info.sce.ac.il/i/SMRLO10>.

### March 2010

- \* 15–19 **Localization techniques in equivariant cohomology**, American Institute of Mathematics, Palo Alto, California.

**Description:** This workshop, sponsored by AIM and the NSF, will be devoted to localization techniques in equivariant cohomology. Localization techniques in equivariant cohomology are a powerful tool in computational algebraic topology in the context of a topological space with the action of a Lie group.

**Information:** Visit <http://aimath.org/ARCC/workshops/localization.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.**

### December 2010

- \* 25–27 **International Conference on Current trends in Mathematics**, Allahabad, Uttar Pradesh, India.

**Description:** The aim of the conference is to introduce undergraduate and Ph.D. students in mathematics as well as post-doctoral researchers in recently emerged trends of mathematics.

**Deadline:** For submitting abstracts with full-length paper to [complexgeometry18@yahoo.com](mailto:complexgeometry18@yahoo.com): October 20, 2010. Acknowledgement of accepted papers by email: October 25, 2010. For registration: November 15, 2010. All submitted papers will be under peer review and accepted papers will be published in the conference proceeding.

**Information:** Contact: [complexgeometry18@yahoo.com](mailto:complexgeometry18@yahoo.com).