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# Mathematics Calendar

The most comprehensive and up-to-date Mathematics Calendar information is available on e-MATH at <http://www.ams.org/mathcal/>.

## May 2005

\* 2-4 **2nd Symposium on Networked Systems Design and Implementation (NSDI'05)**, Boston Park Plaza Hotel, Boston, Massachusetts.

**Description:** NSDI '05 is a symposium focused on the design principles of large-scale distributed and networked systems. We believe systems as diverse as scalable Web services, peer-to-peer file sharing, sensor nets, and distributed network measurement share a set of common challenges. Progress in any of these areas requires a deep understanding of how researchers are addressing the challenges of large-scale systems in other contexts. Our goal is to bring together researchers from across the systems community—including operating systems, distributed systems, and computer networking—to foster a cross-disciplinary approach to addressing our common research challenges. NSDI will provide a high-quality, single-track forum for presenting new results and discussing ideas that overlap these disciplines.

**Information:** <http://www.usenix.org/nsdi05/>; email: [conference@usenix.org](mailto:conference@usenix.org); tel: 510-528-8649.

\* 7-9 **Nebraska Commutative Algebra Conference: WiegandFest**, The University of Nebraska-Lincoln, Lincoln, Nebraska.

**Description:** The conference is open to anyone working in commutative algebra. The purpose is for recent Ph.D.s and graduate students in the field to meet experienced researchers, to learn about recent developments in commutative algebra, to exchange ideas with one another, and to develop collaborations for future research. Plus, it gives us in the commutative algebra community a wonderful opportunity to celebrate the many important contributions of Roger and Sylvia Wiegand. The primary topics will be aspects of representation theory, homological algebra, computational algebra,

and ideal theory that interact with commutative algebra.

**Support:** We have some support for travel and local expenses from the UNL Department of Mathematics; additional support from the National Science Foundation is anticipated. In the allocation of NSF funds, particular consideration will be given to advanced graduate students, recent Ph.D.s, and members of underrepresented groups. In order to be considered for support you need to register.

**Deadline:** Deadline of registration is extended to April 15.

**Information:** For more information, contact the organizers: Luchezar L. Avramov: email: [avramov@math.unl.edu](mailto:avramov@math.unl.edu). David A. Jorgensen: email: [djorgens@uta.edu](mailto:djorgens@uta.edu); tel: 817-272-5507. Aihua Li: email: [lia@mail.montclair.edu](mailto:lia@mail.montclair.edu); tel: 973-655-7271. Conference web site: <http://dreadnought.uta.edu/~dave/WiegandFest.html>.

\* 12-14 **Groups in Galway 2005**, National University of Ireland, Galway, Ireland.

**Information:** The annual conference 'Groups in Galway' will be held at National University of Ireland, Galway, this year on 12-14 May. The current conference is in honour of Professor Martin Newell. The scope of the conference covers all areas of group theory, applications, and related fields.

**Speakers:** Rex Dark (NUI, Galway), Warwick de Launey (Center for Communications Research, USA), Colin Campbell (St Andrews), Alla Detinko (NUI, Galway/Belarus), Francisco de Giovanni (Università di Napoli), Hermann Heineken (Universitaet Wuerzburg), Luise-Charlotte Kappe (SUNY), Tom Laffey (UC Dublin), John McDermott (NUI, Galway), Des MacHale (UC Cork), Mike Newman (Australian National University), Rachel Quinlan (UC Dublin/Galway), Stewart Stonehewer (Warwick).

**Registration and Contact Information:** All who are interested are invited to attend. There is no formal registration (and in

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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 held in North America 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. Meetings held outside the North American area may carry more detailed information. In any case, 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/>.

particular no registration fee!), although it would be appreciated if intending attendees send an email to one of the organizers (addresses below). Details of the talks and their scheduling will be posted at <http://www.maths.nuigalway.ie/gig05.html> closer to the event. For further information, please contact one of the conference organizers, Jim Cruickshank ( [james.cruickshank@nuigalway.ie](mailto:james.cruickshank@nuigalway.ie)) or Dane Flannery ( [dane.flannery@nuigalway.ie](mailto:dane.flannery@nuigalway.ie)).

\* 13–15 **1st KAIST International Symposium on Enhancing University Mathematics Teaching**, Korea Advanced Institute of Science and Technology, Daejeon, Korea.

**Program:** The Department of Mathematics of the Korea Advanced Institute of Science and Technology announces its initial international symposium on the enhancement of the teaching of mathematics in universities and colleges. This symposium provides an opportunity for university and college faculty to give presentations of their successful approaches to teaching undergraduate mathematics. Presentations may include teaching styles, uses of technology, successful classroom demonstrations, and much more. Hands-on workshops will highlight specific methods. There are specially designed sessions for graduate students, with presentations both by and for teaching assistants.

**Coordinators:** Young Han Choe, Deane Arganbright.

**Abstract Deadline:** April 1, 2005.

**Information:** The following symposium Web page provides details for submissions and registration, together with the program outline, fees, featured speakers, contacts, and other useful information: <http://math.kaist.ac.kr/2005>.

\* 16–20 **Mini-invasive Procedures in Medicine and Surgery: Mathematical and Computational Challenges**, Centre de recherches mathématique, Montréal, Québec, Canada.

**Information:** Workshop and Spring School. The objective of this tandem School-Workshop is to explore several facets of mini-invasive procedures in medicine and surgery, identify issues, problems, trends, and mathematical and computational challenges in their modeling, simulation, and integration in the medical and surgical processes. It will be structured around the following themes: medical imaging and geometrical modeling, fluid-structure interactions in health problems, static/dynamical design and control of (implantable) medical devices, finite element based computer aided design/manufacturing. More information can be found on the conference website at <http://www.crm.umontreal.ca/Med05/>.

\* 16–27 **Mini-course on Nonconvex Variational Problems and Applications**, University of Utah, Salt Lake City, Utah.

**Speakers:** Andrea Braides (Principal Lecturer), Georg Dolzmann (Principal Lecturer), Andrej Cherkaev, Elena Cherkaev, David Dobson, Graeme Milton, Klaus Schmitt, Andrejs Treibergs, Marian Bocea.

**Mini-course Topics:** From Discrete Systems to Continuous Variational Problems, Macroscopic Models for Phase Transforming Materials, Minimal Extensions of Nonconvex Lagrangians, Minimax Problems, Regularization, Bifurcations, Nonconvex Variational Problems, Young measures; Applications to Geometry, Composites, Thermodynamics, Band-gap materials, Inverse problems, and Optimal design.

**Financial Support:** Some financial support is available through a NSF-VIGRE grant, for graduate students who are U.S. citizens, nationals, or permanent residents. Application deadline: May 1, 2005.

**Information:** <http://www.math.utah.edu/vigre/minicourses/nvpa/speak.html>.

\* 16–27 **Mini-Invasive Procedures in Medicine and Surgery: Mathematical and Computational Challenges**, Centre de recherches mathématiques, Université de Montréal, Montréal, Québec, Canada.

**Objective:** Of this tandem School-Workshop is to explore several facets of mini-invasive procedures in medicine and surgery, identify issues, problems, trends, and mathematical and computational

challenges in their modeling, simulation, and integration in the medical and surgical processes. It will be structured around the following themes: medical imaging and geometrical modeling, fluid-structure interactions in health problems, static/dynamical design and control of (implantable) medical devices, finite element based computer aided design/manufacturing.

**Information:** <http://www.crm.umontreal.ca/Med05/>.

\* 23–June 3 **11th European Intensive Course on Complex Analysis and its Generalizations (with applications to partial differential equations)**, University of Coimbra, Coimbra, Portugal.

**Program:** Week 23–27: Matrix Differential Riccati Equations – Gerhard Jank (Aachen University, Germany); Orthogonal Polynomials on the unit circle. From Gabor Szegő to Barry Simon – Francisco Marcellán Español, (Universidad Carlos III de Madrid, Spain); Week 30–3: Monogenic, hypermonogenic and holomorphic Cliffordian functions – Eric Lehman (Université de Caen, France); Transform Analysis: The Hilbert Transform – Fred Brackx (University of Ghent, Belgium); Transform Analysis: The Continuous Wavelet Transform – Nele De Schepper (University of Ghent, Belgium).

**Deadlines:** There is no deadline for the registration. Living expenses can be partially covered for some Ph.D. students if they do not have support from their own institution and if there is enough money available.

**Organizer:** H. Malonek, A. Branquinho, J. Carvalho e Silva, P. Cerejeiras.

**Information:** <http://www.mat.uc.pt/~ajplb/11.htm>.

\* 29–June 4 (REVISED) **Spring School in Analysis: Function Spaces and Applications**, Paseky nad Jizerou, Czech Republic.

**Topics:** Hardy Operators, Function Spaces, Embeddings, Whitney Extension Problem, Helly's intersection theorem.

**Main speakers:** W. Desmond Evans (University of Wales, Cardiff, UK); Pavel Shvartsman (Technion, Haifa).

**Organizers:** Jaroslav Lukes, Lubos Pick (Charles University, Prague, Czech Republic).

**Information:** <http://www.karlin.mff.cuni.cz/katedry/kma/ss/jun05/>; email: [pasejune@karlin.mff.cuni.cz](mailto:pasejune@karlin.mff.cuni.cz).

### June 2005

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\* 1–3 **Workshop on PDE and Harmonic Analysis**, Norwegian University of Science and Technology, Trondheim, Norway.

**Aim:** The aim is to bring together, in an informal, workshop setting, a small group of researchers working on problems related to PDE and Harmonic Analysis. Ph.D. students are also very welcome.

**Organizing committee:** S. Selberg, E. Malinnikova, P. Hasto.

**Information:** <http://www.math.ntnu.no/~sselberg/Workshop/Info3.htm>.

\* 1–4 **Classics in PDE: A meeting in Honor of Nina Nikolaevna Uraltseva 70th Birthday**, KTH, Stockholm, Sweden.

**Organizing Committee:** Ari Laptev, Gregory Seregin, Henrik Shahgholian.

**Tentative list of speakers:** D. Apushkinskaya, Saarbrücken; A. Arkhipova, St. Petersburg; H. Brezis, Paris; L. A Caffarelli, Austin, Texas; A. Chang, Princeton; M. J. Esteban, Paris; A. Friedman, Ohio; I. Gamba, Austin, Texas; M. Giaquinta, Pisa; A. Grigoryan, London; C. Kenig, Chicago; I. Kondrat'ev, Moscow; A. Nazarov, St. Petersburg; L. Nirenberg, NY; A. Petrosyan, West Lafayette; G. S. Weiss, Tokyo; V. Zhikov, Russia.

**Information:** Henrik Shahgholian, chairman, email: [henriksh@math.kth.se](mailto:henriksh@math.kth.se); Marie Lundin, Administrative Secretary, email: [malund@math.kth.se](mailto:malund@math.kth.se).

\* 4 **8th Annual Workshop on Applications and Generalizations of Complex Analysis**, University of Aveiro, Aveiro, Portugal.

**Registration:** Besides a formal registration there will be no fee. In case of interest please register until May 16. Please send the registration to [pceres@mat.ua.pt](mailto:pceres@mat.ua.pt).

**Tentative Program:** A preliminary version of the detailed Program will be posted in the web page until May 23.

**General Information:** Indications such as “Technical support”, “How to arrive to...” and others will be posted on the web page until May 16.

**Web page:** [http://www.mat.ua.pt/pceres/ws8\\_2005.html](http://www.mat.ua.pt/pceres/ws8_2005.html).

**Organizers:** H. Malonek, A. Branquinho, J. Carvalho e Silva, P. Cerejeiras.

\* 4–9 **Second International Conference on Abstract and Applied Analysis: ICAAA 2005**, Quy Nhon, Vietnam.

**Organizer:** Institute of Mathematics, Vietnamese Academy of Science and Technology, and Quy Nhon University.

**Sponsors:** Institute of Mathematics, Vietnamese Academy of Science and Technology, National Basic Research Program in Natural Science, Quy Nhon University.

**Topics:** ODE and Dynamical Systems, Wavelet Analysis, p-adic Analysis, PDE and Microlocal Analysis, Numerical Analysis, Complex Analysis, Harmonic Analysis, Fractional Analysis, Stochastic Analysis, Nonlinear Analysis and Differential Geometry, Ill-posed and Inverse Problems.

**Information:** Please send the Registration Form to Dr. Nguyen Huu Dien, Institute of Mathematics, VAST 18 Hoang Quoc Viet Road, Cau Giay District, 10307, Hanoi Vietnam; email: [nhdien@math.ac.vn](mailto:nhdien@math.ac.vn); <http://www.math.ac.vn/conference/icaaa2005/>.

\* 5–9 **Representation Theory, Geometry and Automorphic Form. International Conference in honor of J. Bernstein’s 60th birthday**, Tel-Aviv University, Tel-Aviv, Israel.

**Organizers:** Alexander Beilinson, Alexander Braverman, Dennis Gaitsgory, Alexander Goncharov, David Kazhdan, Wilfried Schmid, Marie-France Vigneras.

**Speakers (tentative):** A. Beilinson, R. Bezrukavnikov, A. Braverman, V. Drinfeld, B. Feigin, D. Gaitsgory, A. Goncharov, D. Kazhdan, L. Lafforgue, G. Lusztig, P. Sarnak, W. Schmid, P. Schneider, W. Soergel, M. -F. Vigneras, A. Zelevinsky.

**Information:** For more information as well as for support applications please contact Alexander Braverman ([braval@math.huji.ac.il](mailto:braval@math.huji.ac.il)) or Dennis Gaitsgory ([gaitsgde@math.uchicago.edu](mailto:gaitsgde@math.uchicago.edu)).

\* 5–July 21 **Joint Summer Research Conference**, Snowbird Resort, Snowbird, Utah.

**Information:** <http://www.ams.org/meetings/src.html>.

\* 10–11 **CAM 2005**, University of Central Oklahoma, Edmond, Oklahoma.

**Workshop Topic:** A cryptology workshop designed for the non-specialist.

**Organizers:** Dr. Jesse Byrne, 100 N University Drive, Edmond, OK 73034; email: [jbyrne@ucok.edu](mailto:jbyrne@ucok.edu); tel: 405-974-5575 and Dr. Charlotte Simmons, 100 N University Drive, Edmond, OK 73034; email: [cksimmons@ucok.edu](mailto:cksimmons@ucok.edu); tel: 405-974-5316.

**Speakers:** Confirmed speakers: D. J. Bernstein (University of Illinois at Chicago), Robert Lewand (Goucher College), and Alice Silverberg (University of California at Irvine).

**Travel Funds:** This workshop is supported by the NSA. Travel funds are available to deter the expenses of participants. Graduate students, junior faculty, women, minorities, and persons with disabilities are especially encouraged to participate and to apply for support. Early application for support is encouraged.

**Information:** <http://www.math.ucok.edu> or contact an organizer.

\* 10–15 **Summer School on Harmonic, Wavelet, P-adic analysis**, Quy Nhon, Vietnam.

**Description:** Continuation of the Second International Conference on Abstract and Applied Analysis ICAAA 2005; see June 4-9, 2005.

**Information:** <http://www.math.ac.vn/conference/icaaa2005/>.

\* 22–24 **Inverse Problems, Multi-Scale Analysis and Homogenization**, Seoul National University, San56-1 Shinrim-dong, Kwanak-gu,

Seoul 151-747, Korea.

**Workshop Topics:** Recent development in inverse problems, multi-scale analysis, and homogenization reveals that these fields share several fundamental concepts in common. The main purpose of this workshop is to bring together researchers coming from these fields to share their new ideas and to earn benefit from others different viewpoints.

**Invited Speakers:** Elena Beretta, Eric Bonnetier, Yves Capdeboscq, Andrej Cherkaev, Soon Young Chung, Mathias Fink, Leslie Green-gard, Tomas Hou, Masaru Ikehata, Jun Yub Lee, Mikyoung Lim, Graeme Milton, Gen Nakamura, Jin Keun Seo, Gunther Uhlmann, Michael Vogelius.

**Information:** <http://www.math.snu.ac.kr/bk21/workshop/>.

\* 22–25 **International Seminar “Control Theory and Theory of Generalized Solutions of Hamilton-Jacobi Equations” (CGS-2005)**, Institute of Mathematics and Mechanics of the Ural Branch of the Russian Academy of Sciences, Yekaterinburg (Ekaterinburg), Russia.

**Dedication:** To the 60th Anniversary of Academician Andrei Izmailovich Subbotin (February 16, 1945–October 14, 1997).

**Description:** It is planned to discuss the present state of control theory and theory of generalized solutions of Hamilton-Jacobi equations.

**Topics:** Scopes of the seminar include: Generalized solutions of Hamilton-Jacobi equations. Control of dynamic systems under conditions of conflict and uncertainty. Problems of estimation and identification in dynamic systems. Inverse problems and distributed control systems. Numerical algorithms for constructing solutions of optimal control problems and boundary value problems for Hamilton-Jacobi equations.

**Organizers:** The Ural Branch of the Russian Academy of Sciences, the Institute of Mathematics and Mechanics of the Ural Branch of the Russian Academy of Sciences, and the Ural State University.

**Travel Information:** Visit <http://cgs.imm.uran.ru/>.

**Languages:** Russian and English.

**Information:** <http://cgs.imm.uran.ru/>.

\* 27–30 **14th International Scientific Congress CNIC 2005: 40 Years at the Service of Science and Technology**, Havana, Cuba.

**Information:** WEB pages with more information: Our site: <http://www.cnic.edu.cu/14Congreso/Bienvenida.htm> and <http://www.loseventos.cu/seminariocnic2005>. Venue: <http://www.cpalco.com>. Contact: email: [seminario@cnic.edu.cu](mailto:seminario@cnic.edu.cu); [feria@cnic.edu.cu](mailto:feria@cnic.edu.cu).

## July 2005

\* 4–8 **MODELLING 2005 - Third IMACS Conference on Mathematical Modelling in Applied Sciences and Engineering**, University of West Bohemia, Pilsen, Czech Republic.

**Information:** The event is organized by Department of Mathematics, Faculty of Applied Sciences, University of West Bohemia in Pilsen, Czech Republic, in cooperation with other Czech universities and research institutions in the week preceding the 17th IMACS World Congress IMACS 2005 in Paris.

**Purpose:** The purpose of the Conference is to stimulate research and, in an informal setting, to foster the interaction of researchers in different fields of science.

**Topics:** Computational modelling in general, Computer models in fluid dynamics and biomechanics, Computer models in geomatics engineering, Optimal design problems and structural optimization, Multiscale modelling, Qualitative properties of nonlinear boundary value problems, Advanced numerical methods related to the above fields.

**Invited Speakers:** A. Cepek, Czech Technical University, Czech Republic, Z. Dostal, Technical University Ostrava, Czech Republic, C. Farhat, Stanford University, USA, R. Glowinski, University of Houston, USA, J. Jarusek, Mathematical Institute, Academy of Sciences of the Czech Republic, S. Korotov, University of Jyväskylä,

Finland, Y. Kuznetsov, University of Houston, USA, J. Lopez-Gomez, Universidad Complutense de Madrid, Spain, J. Malik, Institute of Geonics, Academy of Sciences of the Czech Republic, J. Mandel, University of Colorado at Denver, USA, B. Miara, ESIEE, France, U. Sultangazin, Space Research Institute, Republic of Kazakhstan, M. Tabata, Kyushu University, Japan, M. Tvrdy, Mathematical Institute AS CR, Czech Republic, R. Van Keer, University of Ghent, Belgium.  
**Website:** The MODELLING website has now be opened up at <http://www.modelling.zcu.cz/> and more details may be found there.

\* 6–23 **35th Saint-Flour Probability Summer School**, Saint-Flour, France.

**Program:** Fluctuation theory for Levy processes (R. Doney). Probability and real trees (S.N. Evans). Optimal transport, old and new (C. Villani).

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

\* 4–8 **Workshop on Coagulation-Fragmentation Processes: Theory and Applications**, International Centre for Mathematical Sciences, Edinburgh, UK.

**Aim:** The aim of this workshop is to bring together the many disparate groups of researchers who work on coagulation-fragmentation (CF) equations and related processes. A key feature will be the exchange of ideas between theoreticians and practitioners involved with CF equations. This should promote a greater awareness of existing results and outstanding problems in this area and provide mathematicians with new mathematical challenges and experimental scientists, engineers and industrialists with new analytical, modelling, and numerical techniques.

**Organizing Committee:** Fernando da Costa (CAMGSD, Institute Superior Técnico, Lisboa). Michael Grinfeld (Mathematics, University of Strathclyde). Wilson Lamb (Mathematics, University of Strathclyde). Jonathan Wattis (Mathematical Sciences, University of Nottingham). The meeting is organized in collaboration with The Centro de Análise Matemática, Geometria e Sistemas Dinâmicos (CAMGSD) of Instituto Superior Técnico, Lisboa, Portugal.

**Deadlines:** Those wishing to contribute a talk and/or apply for financial support should complete their application by May 2, 2005. Applications will not be accepted after June 6th which is also the date by which payment of the registration fee must be made in order to secure a place. Online registration is available at the meetings' website.

**Information:** <http://www.icms.org.uk/meetings/2005/coagfrag>.

\* 7–9 **OTFUSA2005: Conference on Operator Theory, Function Spaces and Applications—Dedicated to the 60th birthday of Frank-Olme Speck**, Department of Mathematics, University of Aveiro, Aveiro, Portugal.

**Description:** To celebrate the 60th birthday of Professor Frank Speck and to bring together those enrolled in the research activities related with operator theory, function spaces and related applications.

**Topics:** Convolution type operators and related classes of singular operators, Bessel potential and pseudo-differential operators, factorisation theory, operator relations and normalisation problems; The theory of function spaces and distributions around Lebesgue, Lorentz, Sobolev, Besov and Triebel-Lizorkin spaces, embeddings, interpolation, traces and extensions, representation formulas, oscillation; Applications to mathematical physics, wave diffraction and scattering theory, elliptic boundary value problems, mixed problems in canonical domains, localisation, interface problems, boundary integral methods, boundary-domain methods, explicit solutions, regularity, singularities, fractal analysis and asymptotic behaviour.

**Invited Speakers:** J. Cerdà, M. Costabel, R. Duduchava, S. Jaffard, Yu. Karlovich, V. Maz'ya, D. Natroshvilli, S. Samko, B. Silbermann, H. Triebel, H. Upmeyer, W. L. Wendland.

**Information:** <http://www.mat.ua.pt/otfusa2005/>.

\* 10–17 **Dimitsana Summer School on Stochastic Differential**

**Geometry and Applications in Finance**, Thermo Aitolokarnanias, Greece.

**Program:** Designed for graduate students of mathematics with a background in stochastic analysis. Previous knowledge of differential geometry (manifold theory) is desirable but not necessary. Topics covered include Brownian motions and stochastic equations on manifolds, interest rate curves and stochastic movements on manifolds, Riemannian Brownian motion? connections? stochastic flows, martingale fields.

**Sponsors:** Under the auspices of the University of Patras, Greece, and exclusive sponsoring of the National Bank of Greece.

**Lecturers:** Freddy Delbaen, David Elworthy, Michel Emery, Damir Filipovic, Xue-Mei Li, Marc Yor.

**Funding:** Available for all participants.

**Deadline:** May 20, 2005.

**Information:** A. Arvanitoyeorgos ( [arvanito@math.upatras.gr](mailto:arvanito@math.upatras.gr)), V. Papakonstantinou ( [papakonb@math.upatras.gr](mailto:papakonb@math.upatras.gr)), <http://www.math.upatras.gr/dimitsana>.

\* 18–24 **Methods of Logic in Mathematics 2005**, Euler International Mathematical Institute, St. Petersburg, Russia.

**Topics:** Its main themes include computability theory, model theory, set theory and their connections with other areas of mathematics, most notably algebra, arithmetic, computation and geometry. The meeting will consist of Invited Talks, Contributed Paper sessions and tutorials. Two of the tutorials will be given by Simon Thomas (Rutgers) and Zlil Sela (Hebrew University).

**Invited Speakers:** Include M. Arslanov (Kazan), Su Gao (North Texas), E. Gordon (Eastern Illinois), E. Griffor (Michigan), W. Hodges (QMC London), T. Hyttinen (Helsinki), J. Iovino (San Antonio), I. Kalimullin (Kazan), I. Kazatchkov (Omsk), Z. Sela (Hebrew University), R. Soare (Chicago), S. Thomas (Rutgers), M. Viljanen (Helsinki), A. Weiermann (Munster, Utrecht), B. Zilber (Oxford), Yi Zhang (GuangZhou).

**Information:** See <http://www.pdmi.ras.ru/EIMI/2005/21ag/>. For more information contact Edward Griffor by email at [egriffor@umich.edu](mailto:egriffor@umich.edu) or Elena Novikova at [novikova@pdmi.ras.ru](mailto:novikova@pdmi.ras.ru).

\* 25–August 12 **Summer Research Institute on Algebraic Geometry**, University of Washington, Seattle, Washington.

**Information:** email: [rha@ams.org](mailto:rha@ams.org).

### August 2005

\* 2005 **Mathematical Modeling of Infectious Diseases: Dynamics and Control**, Institute for Mathematical Sciences, National University of Singapore, Singapore 118402.

**Information:** KP Chua, Administrative Officer, Institute for Mathematical Sciences, National University of Singapore, 3 Prince George's Park, Singapore 118402; tel: (+65) 6874 1893; Facsimile: (+65) 6873 8292; <http://www.ims.nus.edu.sg>.

\* 1–5 **14th USENIX Security Symposium**, Baltimore, Maryland.

**Description:** The USENIX Security Symposium brings together researchers, practitioners, system administrators, system programmers, and others interested in the latest advances in security of computer systems.

**Information:** Contact: Conference Department, email: [conference@usenix.org](mailto:conference@usenix.org); tel: 510-528-8649; <http://www.usenix.org/sec05/>.

\* 1–9 **XVI Coloquio Latinoamericano de Algebra**, Colonia, Uruguay.

**Description:** This biannual event is the premier conference linking algebraists and algebraic geometers from all of Latin America.

**Topics:** Besides the plenary talks and general courses this meeting will have seven thematic parallel sessions on the following topics: Commutative Algebra and Algebraic Geometry, Non-associative Algebras and Ring theory, Group Theory, Hopf Algebras and Algebraic Combinatorics, Homological Methods and Representation Theory, Number Theory, Operator Algebras. A special session on Applications of Algebra will also be held.

**Speakers:** A list of a few of the confirmed speakers is the following: Nicolas Andruskiewitsch, Raymundo Bautista, Michel Brion, Ken Brown, Antonio Campillo, Max Karoubi, Jean-Louis Loday, Susan Montgomery, Adrian Ocneanu, Jose Antonio de la Peña, Vladimir Popov, Hans-Jurgen Schneider, Aron Simis, Frank Sottile, Richard Stanley, Boris Tsygan, Mariusz Wodzicki.

**Organizing and Scientific Committee:** Walter Ferrer Santos (Coord.), Gerardo Gonzalez-Sprinberg, Alfredo Jones, Alvaro Rittatore, Andrea Solotar.

**Deadline:** May 1st, 2005.

**Information:** <http://www.cmat.edu.uy/cmat/eventos/16cla/en>; Walter Ferrer: email: [wrferrer@cmat.edu.uy](mailto:wrferrer@cmat.edu.uy)

\* 15-19 **Eisenstein Series and Applications**, AIM Research Conference Center, Palo Alto, CA.

**Organizers:** Wee Teck Gan, Steven Kudla, and Yuri Tschinkel.

**Workshop Topics:** This workshop, sponsored by AIM and the NSF, will consider some recent applications of Eisenstein series to problems in arithmetic geometry and number theory. A central goal of the workshop will be to try to understand the common structural properties of the Eisenstein series occurring in applications.

**Application Deadline:** May 15, 2005.

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

\* 15-19 **Workshop on PDE and and Mathematical Finance**, Institut Mittag-Leffler, Stockholm, Sweden.

**List of Speakers:** K. H. Karlsen (CMA/Univ. of Oslo), P. Laurence (Univ. of Rome), M. Avellaneda (New York Univ.), B. Oksendal (Univ. of Oslo), J-P. Fouque (North Carolina State Univ.), K. Solna (Univ. of California, Irvine), N. Touzi (ENSEA), C. Schwab (Swiss Fed. inst. of Tech., Zurich), M. Jonsson (Royal Inst. of Tech.), T. Zariphopoulou (Univ. of Texas at Austin), A. Ilhan (Princeton Univ.), D. Talay (INRIA), J. Tysk (Uppsala Univ.), W. Schachermayer (Vienna Univ. of Tech.), I. Karatzas (Columbia Univ.), H. M. Soner (Koch Univ.), H. Pham (Jussieu), J. Teichmann (Vienna Univ. of Tech.), S. Howison (Univ. of Oxford).

**Information:** Contact: Teitur Arnarson, Dept. of Math. KTH, 100 44 Stockholm, Sweden; email: [teitur@math.kth.se](mailto:teitur@math.kth.se).

\* 28-September 2 **5th Conference on Differential Geometry**, Mangalia, Romania.

**Invited Participants:** Geometers; Members of BSG-AMS, EMIS.

**Institutional Organizers:** Balkan Society of Geometers, University Politehnica of Bucharest-Department of Mathematics, University of Bucharest-Faculty of Mathematics and Informatics, Society of Mathematical Sciences from Romania, Callatis High School of Mangalia.

**Topics:** Differential geometry, dynamical systems, optimization on Riemannian manifolds, Theory of Relativity, celebration of Dan Barbilian (1895-1961), mathematics in High Schools and Universities, BSG elections.

**Deadlines:** Submission of applications: June 20, 2005. Selected scientific papers will be published in BSG journals.

**Coordinators:** Constantin Udriste, Gabriel Priporae.

**Information:** email: [vbalan@mathem.pub.ro](mailto:vbalan@mathem.pub.ro), [udriste@mathem.pub.ro](mailto:udriste@mathem.pub.ro) (scientific); [callatis@seanet.ro](mailto:callatis@seanet.ro) (educational).

\* 29-31 **Algebraic Methods and Applications in Dynamical Systems-Special session in the 5th IASTED International Conference on Modeling, Simulation, and Optimization (MSO 2005)**, Oranjestad, Aruba.

**Description:**

This special session will focus on the algebraic methods and applications in continuous or discrete dynamical systems. In recent years, algebraic techniques are increasingly applied to many real world problems producing dynamic systems. Through the presentations we propose to identify common themes and recent developments regarding algebraic approach to solving dynamical

system problems. Furthermore, this session will provide participants opportunities to interact and establish research connections with each other. The deadline to submit your paper to this special session is April 15, 2005. Please send your paper directly to Aihua Li, the organizer. Email submission is preferred. The address is: [lia@mail.montclair.edu](mailto:lia@mail.montclair.edu). Please see the conference web site for instruction.

**Organizer:** Aihua Li, Department of Mathematical Sciences, Montclair State University, 1 Normal Avenue, Montclair, NJ 07043, USA. Office phone: 973-655-7271.

**Information:** <http://www.iasted.org/conferences/2005/aruba/c471.htm>

\* 29-September 2 **Numerical Methods for Optimal Control in High Dimensions**, AIM Research Conference Center, Palo Alto, CA.

**Organizers:** Doron Levy, Ian Mitchell, and Adam Oberman.

**Workshop Topics:** This workshop, sponsored by AIM and the NSF, will be devoted to problems of optimal control, broadly interpreted to include stochastic control problems and differential games. It is a standard practice to formulate these problems in terms of a multi-dimensional Hamilton-Jacobi-Bellman (HJB) equation. The workshop will focus on computational methods for tackling high dimensional HJB and related equations.

**Application Deadline:** May 29, 2005.

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

## September 2005

\* 5-9 **IVth International Workshop on Functional Analysis**, Liège, Belgium.

**Description:** This Functional Analysis Conference is a joint venture of the University of TRIER (Germany) and of the University of LIEGE (Belgium); it is organized on the occasion of the 65th birthday of Professor Jean Schmets (University of LIEGE).

**Organizers:** Francoise Bastin (University of LIEGE, Belgium), Susanne Dierolf (University of TRIER, Germany), Jochen Wengenroth (University of TRIER, Germany).

**Information:** <http://www.ulg.ac.be/sectmath/Sept05.html>; <http://http://www.afo.ulg.ac.be/>.

\* 12-17 **International Conference on Mathematical Analysis of Random Phenomena**, Hotel Abou Nawas Hammamet, Hammamet, Tunisia.

**Scientific Programme:** Stochastic Analysis, Mathematical Finance, Poisson Analysis, Intersection local times, Hydrodynamics equations, Statistical mechanics, Probability in Quantum Physics.

**Invited Speakers:** Luigi Accardi, Hélène Airault, Sergio Albeverio, Philippe Blanchard, Eric Carlen, Fernanda Cipriano, Ana Bela Cruzeiro, Custódia Drumond, Diogo Gomes, Hanno Gottschalk, Martin Grothaus, Takeyuki Hida, Yuri Kondratiev, Tobias Kuna, Paul Lescot, Paul Malliavin, Rui Vilela Mendes, Nobuaki Obata, Bernt Oksendal, Maria J. Oliveira, Giulia di Nunno, Habib Ouerdiane, Nicolas Privault, Michael Röckner, Francesco Russo, José L. Silva, Isabel Simão, Ludwig Streit, Jean Claude Zambrini.

**Inscription deadline:** June 15, 2005.

**Information:** Ana Bela Cruzeiro, Grupo de Física-Matemática U.L. and Dep. de Matemática I.S.T. Av. Rovisco Pais 1049-001 Lisboa, Portugal; tel: +351 218417063; fax: +351 218417048; email: [abcruz@math.ist.utl.pt](mailto:abcruz@math.ist.utl.pt) or [Habib.Ouerdiane@fst.rnu.tn](mailto:Habib.Ouerdiane@fst.rnu.tn), Département de Mathématiques, Faculté des Sciences de Tunis, Campus universitaire-1060 Tunis, Tunisie; tel.: + 216-71-872-020, fax: + 216 1 885 350, email: [habib.ouerdiane@fst.rnu.tn](mailto:habib.ouerdiane@fst.rnu.tn); <http://www.uma.pt/Investigacao/Ccm/hammamet.html>.

\* 20-22 **International Conference: Problems of Modern Mathematics and Mechanics**, Institute of Mathematics, Almaty, Kazakhstan.

**Topics:** Theory of functions and functional analysis. Differential equations and mathematical physics. Algebra and mathematical logic. Computational mathematics. Mechanics of solids & structures.

Hydrodynamics, mechanics of gas and plasma. Information technologies. Program of Conference consists of plenary (40 minutes) and sectional (20 minutes) talks. Working languages of Conference are Kazakh, Russian and English.

**Important Dates:** July 10, 2005–Submission of abstracts. July 20, 2005–The Second announcement.

**Organizing Committee:** Postal address: Institute of Mathematics, Pushkin str., 125, Almaty, 050010, Kazakhstan; tel: +7(3272)913764; fax: +7(3272)913740; email: im40@math.kz; <http://www.math.kz/confen.htm>.

\* 21–26 **International Conference of Computational Methods in Sciences and Engineering 2005 (ICCMSE 2005)**, Hotel Poseidon, Loutraki, Korinthos, Greece.

**Information:** Contact information: Secretary ICCMSE 2005 (Mrs Eleni Ralli-Simou); email: [iccmse@uop.gr](mailto:iccmse@uop.gr), Postal Address: 26 Menelaou Street, Amfitea Paleon Faliron, GR-175 64, Athens, Greece, Fax: +30210 94 20 091 or + 30 2710 237397; <http://www.uop.gr/~iccmse/>.

### October 2005

\* 7–8 **Twenty-Fifth Annual Southeastern-Atlantic Regional Conference on Differential Equations**, University of Dayton, Dayton, Ohio.

**Organizer:** Muhammad N. Islam.

**Principal Speakers:** T. A. Burton (Northwest Research Institute, Washington, Retired from Southern Illinois University), Functional Differential Equations; Srdjan Stojanovic (University of Cincinnati, Ohio), Nonlinear Partial Differential Equations - methods in Financial Mathematics; Avner Friedman (Ohio State University, Ohio), Partial Differential Equations. (tentative); Konstantina Trivisa (University Maryland), Nonlinear Partial Differential Equations and Applied Mathematics. (tentative)

In addition to the principal speakers, there will also be sessions of twenty minute contributed talks. Pending funding from the National Science Foundation, travel support funds will be available for advanced graduate students and recent Ph.D. recipients. Women and minority participants are especially encouraged to participate in this conference and to apply for support.

**Information:** <http://academic.udayton.edu/searchde-25/>. To get instructions on registration, lodging, submission of abstracts, and application for support. Please pass this announcement along to all who might be interested in participating in the conference. If you have questions about the conference, please send e-mail to [searchde25@notes.udayton.edu](mailto:searchde25@notes.udayton.edu) or call Muhammad Islam (937 229-2109) or Mark Oxley (937 255-3636 Ex 4515).

\* 20–22 **3rd Symposium on Stochastic Algorithms: Foundations and Applications (SAGA'05)**, Moscow State University, Moscow, Russia.

**Scope:** The 3rd Symposium on Stochastic Algorithms, Foundations and Applications (SAGA'05) will be held in Moscow (Russia) from 20th to 22nd October 2005. The symposium offers the opportunity to present original research on the analysis, implementation, experimental evaluation and real-world application of stochastic algorithms. In particular, the focus of SAGA'05 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.

**Information:** Further information can be found at <http://mech.math.msu.su/department/dm/SAGA2005> or <http://www.dcs.kcl.ac.uk/events/saga05/>.

\* 30–November 3 **SIAM**, Hilton Phoenix East, Phoenix, Arizona.

**Information:** The Call for Presentations deadlines for GD05 are fast approaching.

**Deadline Dates:** Minisymposium proposals: April 1, 2005; Abstracts for all contributed and minisymposium presentations: May 2, 2005.

**Conference Webpage:** <http://www.siam.org/meetings/gd05/>. For additional information, contact SIAM Conference Department at [meetings@siam.org](mailto:meetings@siam.org).

### November 2005

\* 3–4 (NEW DATE) **DIMACS Workshop on The Epidemiology and Evolution of Influenza**, DIMACS Center, CoRE Bldg, Rutgers University, Piscataway, New Jersey. (Oct. 2004, p. 1096)

### December 2005

\* 5–9 **30th Australasian Conference in Combinatorial Mathematics and Combinatorial Computing (30ACCMCC)**, The University of Queensland, Brisbane, Australia.

**Invited Speakers:** Simon Blackburn, Royal Holloway, University of London, U.K.; Matthew Brown, The University of Adelaide, Australia; Mike Grannell, The Open University, U.K.; Lily Khadjavi, Loyola Marymount University, U.S.A.; Curt Lindner, Auburn University, U.S.A.; Brendan McKay, The Australian National University, Canberra; Wal Wallis, Southern Illinois University, Carbondale, U.S.A. Contributed talks are welcome in all areas of combinatorics, graph theory, combinatorial computing and applications.

**Deadline:** A closing date for abstracts and registration will be announced later; this will be around late October 2005.

**Information:** <http://www.maths.uq.edu.au/cdm/30accmcc.html>. Email the Director at [ejb@maths.uq.edu.au](mailto:ejb@maths.uq.edu.au) for further information, or check the conference web page.

### January 2006

\* 12–15 **Joint Mathematics Meetings**, San Antonio, Texas.

**Information:** <http://www.ams.org/amsmtgs/national.html>.

### April 2006

\* 1–2 **AMS Southeastern Section Meeting**, Florida International University, Miami, Florida.

**Information:** <http://www.ams.org/amsmtgs/sectional.html>.

\* 8–9 **AMS Central Section Meeting**, University of Notre Dame, Notre Dame, Indiana.

**Information:** <http://www.ams.org/amsmtgs/sectional.html>.

\* 22–23 **AMS Eastern Section Meeting**, University of New Hampshire, Durham, New Hampshire.

**Information:** <http://www.ams.org/amsmtgs/sectional.html>.

\* 29–30 **AMS Western Section Meeting**, San Francisco State University, San Francisco, California.

**Information:** <http://www.ams.org/amsmtgs/sectional.html>.

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**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.**

### June 2006

\* 12–15 **2006 International Conference on Applied Mathematics and Interdisciplinary Research-Nankai**, Nankai University, Tianjin, P. R. China.

**Information:** The website of the meeting is at <http://www.isam.nankai.edu.cn>. Please check out the website for further information.

\* 21–23 **ICNPAA-2006: Mathematical Problems in Engineering and Aerospace Sciences**, Budapest, Hungary.

**Contact and Information:** ICNPAA-2006, S. Sivasundaram, 104 Snow Goose Ct., Daytona Beach, FL 32119; email: [info@icnpaa.com](mailto:info@icnpaa.com), [seenithi@aol.com](mailto:seenithi@aol.com); <http://www.icnpaa.com>.