
Mathematics Calendar

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

October 2004

* 5–10 **Workshop on Geometric Tomography**, Universidad de Alicante, Alicante, Spain.

Scope: Geometric Tomography is the branch of mathematics that deals with the retrieval of information about a geometric object from data about its sections, or projections, or both. The scope of this Workshop is to present the latest developments in this and in related topics and to facilitate the meeting between experts of the field and young researchers. Some of the lectures will have introductory level. There will be also communications on recent results.

Invited Speakers: Richard Gardner (Western Washington Univ.); Horst Martini (Technische Univ. Chemnitz); Wolfgang Weil (Univ. Karlsruhe); Apostolos Giannopoulos (Univ. of Crete); Markus Kiderlen (Univ. of Aarhus, Denmark); Artem Zvavitch (Univ. of Missouri-Columbia).

Information: <http://www.ua.es/congreso/wgt/>.

* 14–16 **The p-Laplace equation, the infinity-Laplace equation and related topics**, Linköping University, Linköping, Sweden.

Topics: Questions of regularity for p-Laplace and for infinity-Laplace equation absolutely minimizing functions (AMLE), role of viscosity solutions special situation in two dimensions; some relation to complex analysis eigenvalue problems for infinity Laplace structure of AMLE functions and other open problems; singular solutions obstacle problems for p-Laplace comparison principles excursion into more general metric spaces quasi-regular mappings numerical experiments AMLE and image interpolation/

Deadline: For registration: September 12, 2004.

Scientific committee: Gunnar Aronsson, Linköping; Peter Lindqvist, Trondheim; Petri Juutinen, Jyväskylä.

Organizing committee: Gunnar Aronsson, Brian Edgar, Ulf Janfalk Theresia Roth, Bengt Ove Turesson.

Confirmed speakers: Michael Crandall, Santa Barbara; Lawrence Craig Evans, Berkeley; Petri Juutinen, Jyväskylä; Bernd Kawohl, Köln; Peter Lindqvist, Trondheim; Juan Manfredi, Pittsburgh; Giorgio Talenti, Firenze.

Information: <http://www.mai.liu.se/~uljan/conf/>.

* 18–22 **Time-reversal communications in richly scattering environments**, AIM Research Conference Center, Palo Alto, California.

Organizers: Robert Calderbank, George Papanicolaou, and Arogyaswami Paulraj.

Topics: This workshop, sponsored by AIM and the NSF, will bring together mathematicians and electrical engineers to explore the key issues underlying a new class of wireless communications systems that may have significant advantages over current approaches.

Deadline: September 1, 2004.

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

November 2004

* 9–10 **DIMACS Working Group on Data De-Identification, Combinatorial Optimization, Graph Theory, and the Stat/OR Interface**, DIMACS Center, CoRE Bldg, Rutgers University, Piscataway, New Jersey.

Description: In this meeting we will explore problems in combinatorial optimization, graph theory, and the interface between statistics and operations research that arise from issues of data privacy and, more specifically, data de-identification.

Organizer: Larry Cox, CDC, email: 1cox@cdc.gov; Fred Roberts, DIMACS, email: froberts@dimacs.rutgers.edu.

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 or mathcal@ams.org.

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

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

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

Local Arrangements: Maria Mercado, DIMACS Center, email: mercado@dimacs.rutgers.edu, 732-445-5928.

Information: <http://dimacs.rutgers.edu/Workshops/Stat/>.

* 26–28 **Tame and Wild Workshop**, Department of Mathematics, Uppsala University, Uppsala, Sweden.

Speakers: Igor Burban, Karin Erdmann, Gert-Martin Greuel, Steffen König, Helmut Lenzing, Serge Ovsienko, Claus Ringel, Leonid Vainerman, 2 more speakers to be confirmed.

Organizers: V. Mazorchuk and L. Turowska.

Information: <http://www.math.uu.se/tww/>; email: tww@math.uu.se.

December 2004

* 13–15 **Pseudospectra and Structural Dynamics**, University of Bristol, Bristol, UK.

Aim: The aim of this workshop is to bring together experts in pseudospectra and structural dynamics to assimilate ideas and methods from both communities.

Points: To be addressed include: Linear Algebra and Scientific Computation: Theory and Computation of Pseudospectra, Structure-Preserving Analysis, Non-Normality and Transient Behaviour. Applications in Structural Dynamics: Analysis of Vibrating Systems, Reliability of Mechanical Systems, Vulnerability of Structures.

Confirmed Speakers: Yakov Ben-Haim, Matthew Cartmell, Jonathan Cooper, Mike Friswell, Seamus Garvey, Des Higham, Nick Higham, Tony Pritchard, Panos Psarrakos, Nick Trefethen, Marian Wierciroch, and Keith Worden.

Information: Registration Information: If you are interested in attending the workshop please contact the organisers by sending an email to blade-pseudospectra@bristol.ac.uk; <http://eis.bris.ac.uk/~enxtw/pseudo.html>.

January 2005

* 10–14 **4th Symposium on Lévy Processes**, University of Manchester, Manchester, England.

Topics: Lévy Processes, with breakout sessions on fractals and on finance. Also a special day in honour of the 75th birthday of S. James Taylor.

Organizers: Ron Doney (Manchester); Dave Applebaum (Nottingham Trent); Nick Bingham (Sheffield); Charles Goldie (Sussex) and René Schilling (Sussex).

Information: <http://www.ma.man.ac.uk/4levy-conference.html> or contact the organisers at email: rad@maths.man.ac.uk or r.schilling@sussex.ac.uk.

* 31–February 1 **DIMACS Workshop on Bounded Rationality**, DIMACS Center, CoRE Bldg, Rutgers University, Piscataway, New Jersey.

Description: This workshop will bring together economists and game theorists interested in bounded rationality, as well as theoretical computer scientists with experience in limited computational models. It will explore previous interactions between computer scientists and economists concerning this topic.

Organizers: Lance Fortnow, Univ. of Chicago, email: fortnow@cs.uchicago.edu; Richard McLean, Rutgers Univ., email: rpmclean@rci.rutgers.edu; Daijiro Okada, Rutgers Univ., email: okada@econ.rutgers.edu.

Local Arrangements: Maria Mercado, DIMACS Center, email: mercado@dimacs.rutgers.edu, 732-445-5928.

Information: <http://dimacs.rutgers.edu/Workshops/Bounded/>

February 2005

* 17–21 **CERM.4 (Fourth Congress of the European Society for Research in Mathematics Education)**, Sant Feliu de Guíxols, Spain

Aim: CERME is a congress designed to foster a communicative spirit. It deliberately and distinctively moves away from research presentations by individuals towards collaborative group work. Its main feature is a number of thematic groups whose members will work together in a common research area. Researchers wishing to present a paper at the congress should submit the paper to one of these groups. In addition to the thematic working groups, there will be plenary sessions, including plenary speakers and debates, poster sessions, and ERME policy sessions.

Programme Committee Members: Abraham Arcavi (Il), Christer Bergsten (S), Rita Borromeo Ferri (G), Marianna Bosch (E), Jean-Luc Dorier (F), Núria Gorgorió (E), Barbara Jaworski (UK-N), Joao Pedro Ponte (P), Heinz Steinbring (G), Nada Stehlikova (Ch), Ewa Swoboda (Pl), Rosetta Zan (G).

Speakers: Yves Chevallard (F), Margaret Brown (UK), Juan D. Godino (E), Michèle Artigue (F), Paul Ernest (UK), Fulvia Furinghetti (I), Jose Matos (P), Costas Tzanakis (Gr).

Working Groups: The congress is organised around thematic groups working in parallel. Groups will have at least 12 hours over 4 days to meet and progress their work. Participants are encouraged to attend and contribute to the work of just one group.

Deadlines: For deadline and further information please check the web site of the congress: <http://cerme4.crm.es>.

March 2005

* 14–18 **Deterministic and stochastic Navier-Stokes equations**, AIM Research Conference Center, Palo Alto, California.

Topics: This workshop, sponsored by AIM and the NSF, will discuss global solutions to the Navier Stokes equation. The main goal of the workshop is improved understanding of the three dimensional initial problem. A number of other settings will be discussed which can inform the discussion including: stochastic and stationary solutions in two and three dimensions, the structure of invariant measures, and simplified model problems. Experts in numerical simulations will participate in the discussion to lend intuition and inform the analytic discussions with the wealth of numerical experiments which have been performed.

Organizers: Yakov Sinai and Jonathan Mattingly.

Application deadline: November 15, 2004.

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

* 19–20 **Twenty-Eighth Annual Texas Partial Differential Equations Conference**, University of Texas, Pan American, Edinburg, Texas.

Description: The Texas Partial Differential Equations Conference (Texas PDE) is an annual event that brings together researchers working on partial differential equations and related topics (ODEs, delay differential equations, numerical analysis of PDEs, etc). The Texas PDE was first organized by Professors Charles Radin and Ralph Showalter at the University of Texas at Austin in 1978.

Speakers: The Texas PDE has a strong democratic tradition: there are no principal speakers, all talks are allocated the same length of time, and there is no registration fee. The intent is to encourage participation by young faculty and graduate students.

Organizers: Andras Balogh (abalogh@panam.edu), Paul Bracken (bracken@panam.edu), Lokenath Debnath (debnath1@panam.edu), Bao-Feng Feng (feng@panam.edu), Roger Knobel (knobel@panam.edu), Vladimir Varlamov (varlamov@panam.edu).

Deadline: Those wishing to speak should submit title and short abstract by Friday, February 18, 2005 (preferably by email) to: email: abalogh@panam.edu.

Information: <http://www.math.panam.edu/txpde05.html>.

* 22–26 **Conference on Algebra and its Applications, Center of Ring Theory and Its Applications**, Department of Mathematics, Ohio University, Athens, Ohio.

Aim: The aim of the Conference is to highlight the recent developments in theory of rings, representation theory, applications

of algebra to such fields as coding theory, cryptography, linear algebra.

Organizer: Center of Ring Theory and its Applications.

Invited Speakers: K. Fuller Fuchs, J. L. Gomez-Pardo, K. Goodearl, B. Huisgen-Zimmermann, C. R. Johnson, T. Y. Lam, T. Lenagan, A. Mikhalev, D. Mundici, A. Nechaev, H. Niederreiter, D. Passman, R. Plemmons, E. Puczyłowski, C. M. Ringel, J. Rosenthal, D. Simson, A. Smoktunowicz, L. W. Small, J. Wolfmann, E. Zelmanov.

Deadlines: Those interested to participate and giving a talk may please submit their abstracts electronically by January 15, 2005. See instructions on webpage as to how to submit your abstract.

Information: <http://www.math.ohiou.edu/~jain/conference.html>; email: algebraconference@math.ohiou.edu.

May 2005

* 5–6 **DIMACS Workshop on Security of Web Services and E-Commerce**, DIMACS Center, CoRE Bldg, Rutgers University, Piscataway, New Jersey.

Description: Apart from traditional aspects of web-enabled transactions such as authentication and digital signatures the workshop will explore such issues as: How do we build secure web services? How do we support commerce on the web? How do we securely handle web caches, which are an (authorized) “man in the middle”? What about content distribution security? How do we deal with the security issues raised by SOAP and XML, and how can they help improve security on the web? What types of auctions, electronic trading markets and electronic funds transfers can be implemented efficiently and securely? The workshop will be focused on these and other current and future security and privacy challenges for web applications and e-commerce.

Organizer: Brian LaMacchia, Microsoft, email: bal@microsoft.com.

Local Arrangements: Maria Mercado, DIMACS Center, email: mercado@dimacs.rutgers.edu, 732-445-5928.

Information: <http://dimacs.rutgers.edu/Workshops/Commerce/>.

* 13–14 **Sixth Mississippi State–UAB Conference on Differential Equations & Computational Simulations**, Mississippi State University, Mississippi State, Mississippi

Description: This Interdisciplinary Conference will provide a joint forum where mathematicians, scientists, and engineers from academia and industry can exchange research ideas involving theoretical and applied developments in differential equations and computational simulations. In addition to the nine principal lectures, there will be sessions of contributed talks.

Conference Dedications: To Louis Nirenberg in celebration of his 80th birthday, Klaus Schmitt in celebration of his 65th birthday, and their contributions in mathematics.

Organizers: Ratnasingham Shivaji Department of Mathematics & Statistics, Mississippi State, MS, 39762; email: shivaji@math.msstate.edu, Phone: 662-325-3414/325-7136, Fax: 662-325-0005; Bharat Soni, Department of Mechanical Engineering, Birmingham, Alabama 35294; email: bsoni@uab.edu, Phone: 205-934-1820, Fax: 205-975-7217.

Co-Sponsors: Engineering Research Center, Mississippi State University, Electronic Journal of Differential Equations (EJDE), Institute of Mathematics and its Applications (IMA).

Principal Speakers: Margaret Cheney, Rensselaer Polytechnic Institute; Lawrence Delucas, University of Alabama at Birmingham; Weinan E, Princeton University; Thomas Yizhao Hou, Mark Lewis, California Institute of Technology, University of Alberta; Fang-Hua Lin, U.S. Army, Nasa Ames Research Center; Robert Meakin, Courant Institute of Mathematical Sciences, Ames Research Center; Louis Nirenberg, Courant Institute of Mathematical Sciences; Klaus Schmitt, University of Utah.

Pre-registration deadline: May 1, 2005.

Information: <http://www.msstate.edu/dept/math/de2005/>.

* 22–25 **ICCS 2005: International Conference on Computational Science**, Atlanta, Georgia.

Theme: The theme for ICCS 2005 in Atlanta, Georgia, is “Advancing Science through Computation”.

Important dates: Proposals for Workshops: November 1, 2004. Full papers submission: December 1, 2004. Notification of acceptance of papers: January 31, 2005. Camera ready papers: February 14, 2005. Early registration: March 30, 2005.

Chairmen: Vaidy Sunderam, Scientific Chair; Dick van Albada, Workshop Chair; Jack Dongarra, Overall Co-chair; Peter M. A. Sloot, Overall Chair.

Contact: email: iccs2005@mathcs.emory.edu; <http://www.iccs-meeting.org/>.

* 23–25 **DIMACS Workshop on The Epidemiology and Evolution of Influenza**, DIMACS Center, CoRE Bldg, Rutgers University, Piscataway, New Jersey.

Description: This workshop will explore the epidemiology and evolution of influenza. Among the issues to be explored are the causes and consequences of patterns of immunological cross-reactivity, and the interactions with drug treatment and vaccination strategies. In addition, the applicability of SIR and agent based models to predict the spread of influenza, and the means of dealing with and planning for an influenza pandemic, will be discussed.

Organizers: Catherine Macken, Los Alamos National Labs, email: cam@t10.lanl.gov; Alan Perelson, Los Alamos National Labs, email: asp@lanl.gov.

Local Arrangements: Maria Mercado, DIMACS Center, email: mercado@dimacs.rutgers.edu, 732-445-5928.

Information: <http://dimacs.rutgers.edu/Workshops/Influenza/>.

June 2005

* 4–8 **International Conference on Scientific Computing (ICSC05)**, Nanjing, P. R. China.

Aim and Scope: This conference will provide a forum for applied mathematicians worldwide to present new and emerging research developments and future directions in computational mathematics and scientific computing and applications; to exchange research results and ideas; and to promote international and local research and educational cooperation and connections.

Sponsors: Nanjing Normal University, Nanjing University, Nanjing University of Aeronautics & Astronautics, Peking University, Institute of Applied Physics and Computational Mathematics (IAPCM), Chinese Academy of Sciences (CAS), National Science Foundation of China (NSFC), Department of Mathematics, North Carolina State University, USA.

Organizing Committee: Yongzhong Song, Chair, Nanjing Normal University, Jinru Chen, Nanjing Normal University, Zhiming Chen, Chinese Academy of Sciences, Hua Dai, Nanjing University of Aeronautics & Astronautics, Binsheng He, Nanjing University, Song Jiang, Institute of Applied Physics and Computational Mathematics, Zhilin Li, co-chair, North Carolina State University, USA Wenyu Sun, co-chair, Nanjing Normal University, China Pingwen Zhang, Peking University, China Ning Zhao, Nanjing University of Aeronautics & Astronautics

* 6–8 **DIMACS Workshop on Polyhedral Combinatorics of Random Utility**, DIMACS Center, CoRE Bldg, Rutgers University, Piscataway, New Jersey.

Description: Utility functions have a long history in economics and psychology but have recently caught the attention of computer scientists in various applications. Random utility approaches have been extensively used in the social sciences. The fundamental idea is that utilities of agents could be hard or even impossible to precisely assess or elicit, so one should model these utilities as random variables. This modeling approach could turn out to be useful in developing and solving optimization problems and algorithms for which there is no time to or where it is impossible

to assess/obtain input data precisely. Such situations could be of interest in computing tasks with massive input data sets as well as tasks in which data corresponds to agent valuations that have to be elicited (such as pricing data like the willingness to buy/pay at a given price). Discrete choice models, i.e., situations in which utilities of only finitely many objects have to be elicited, are of special interest (and have been studied extensively, for example with regard to transportation systems, consumer choice in marketing, etc.

Workshop: On this topic will allow for exchange of ideas between researchers in random utility on the one side and polyhedral combinatorics on the other, with inclusion of computer scientists with expertise on algorithmic approaches to such problems as well as computer scientists with an interest in modern applications in IT. The aim is to define a program and general theory of developing random utility models that could be efficiently characterized and tested through experimental data.

Organizers: Jean-Paul Doignon, Univ. Libre de Bruxelles, email: doignon@ulb.ac.be; Aleksandar Pekec, Fuqua School of Business, Duke University, email: pekec@duke.edu.

Local Arrangements: Maria Mercado, DIMACS Center, email: mercado@dimacs.rutgers.edu, 732-445-5928.

Information: <http://dimacs.rutgers.edu/Workshops/RandomUtility/>.

* 19–24 **Conference on Applied Mathematics and Scientific Computing 4: On the occasion of Professor Aganovic's 70th Birthday**, Brijuni, Croatia.

Aim: The exchange of ideas, methods and problems between various disciplines of applied mathematics. Non mathematicians using mathematics as a tool are also encouraged to take part in the Conference.

Topics: Mathematical methods in fluid mechanics (main topic) -Splines and wavelets with applications to CAGD, CAD/CAM, computer graphics and differential equations -Ordinary and partial differential equations, integral equations, singular perturbation problems -Mathematics of Finance -Numerical Mathematics in general -Optimization -Scientific Computing -Engineering

Invited Speakers: Maria Rosaria Padula, University of Ferrara, Italy, Sunèica Èaniaè, University of Houston, USA, Alain Bourgeat, University Lyon 1, France, Andro Mikelià, University Lyon 1, France, Kreúimir Veselià, Fernuniversitat, Hagen, Germany, Brahim Amaziane, University of Pau, France.

Organizer: Department of Mathematics, University of Zagreb; phone: 385-1-4605745; fax: 385-1-4680335; email: ApplMath03@math.hr.

Information: <http://ApplMath05.math.hr>.

July 2005

* 28–August 3 **Logic Colloquium '05: ASL European Summer Meeting**, Athens, Greece.

Short Courses: Computer Science Logic, Ph.-G. Kolaitis, I.B.M. Almaden Research Center & U.C.S.C., U.S.A.; Model Theory, I. Ben-Yaacov, Univ. of Wisconsin, U.S.A.; Philosophy of Logic, Speaker to be announced; Proof Theory and Constructivity, P. Aczel, Univ. of Manchester, U.K.

Plenary Lectures: Invited Speakers will include: J. Bergstra (Univ. of Amsterdam, Netherlands), D. Haskell (McMaster Univ., Canada), J. Moore (Boise State Univ., Idaho, U.S.A.), H. Schwichtenberg (Univ. of Munich, Germany), M. Sheard (Saint Lawrence Univ., New York), S. Tupailo (Tallinn univ. of Technology, Estonia), K. Weihrauch (Univ. of Hagen, Germany), J. Zapletal (Univ. of Florida, Gainesville, U.S.A.).

Address for Submission: Abstracts should be submitted to the address: Logic Colloquium 2005, Department of Mathematics, University of Athens, GR-157 84 Zografou, Greece; email: lc2005@math.uoa.gr.

Information: <http://www.math.uoa.gr/lc2005>.

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

July 2006

* 30–August 24 **Bayesian Nonparametric Regression: Theory, Methods and Applications**, Isaac Newton Institute for Mathematical Sciences, Cambridge, United Kingdom.

Organizers: Professor N. Hjort (Oslo), Dr C. Holmes (Oxford), Professor P. Mueller (Texas), Professor S. Walker (Bath).

Information: Isaac Newton Institute for Mathematical Sciences, 20 Clarkson Road, Cambridge, CB3 0EH, U.K., Tel.: +44 1223 335999, Fax.: +44 1223 330508; email: info@newton.cam.ac.uk ; <http://www.newton.cam.ac.uk/programmes/BNR/index.html>.