
Mathematics Calendar

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

May 2002

* **6 International Workshop on Knowledge Discovery in Multimedia and Complex Data (KDMCD'02)**, Taipei, Taiwan.

Note: In conjunction with the Sixth Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD-02), Taipei, Taiwan, May 6-8 2002; <http://arbor.ee.ntu.edu.tw/pakdd02/>.

Information: <http://db.cs.ualberta.ca/kdmcd02/>.

* **8-10 Source Coding and Harmonic Analysis**, DIMACS Center, Rutgers University, Piscataway, New Jersey.

Short Description: The aim of this workshop is to continue and to accelerate the exchange of ideas between the various groups that contribute to compression. Including the following overlapping fields: source coding theory (information theorists); compression practice (signal processors); statistical modeling and inference (statisticians); harmonic analysis (applied mathematics). Talks that make progress in one field accessible to the spectrum of participants and those that are speculative are particularly encouraged.

Sponsors: DIMACS Center.

Organizers: V. Goyal, Digital Fountain and J. Kovacevic, Bell Labs .
Contacts: J. Kovacevic, Bell Labs, jelena@bell-labs.com.

Local Arrangements: J. Thiemann, DIMACS Center, jennifer@dimacs.rutgers.edu, 732-445-5928.

Information: <http://dimacs.rutgers.edu/Workshops/index.html>.

* **13-July 31 TOPCON02: International Workshop and Seminar on Topology in Condensed Matter Physics**, Max Planck Institute for the Physics of Complex Systems, Dresden, Germany.

Program: The central scientific theme of our program is the recent development of applications of topology to several areas

in condensed matter physics and related fields in biology. The seminar will provide a unique opportunity to bring together researchers from the three fields of mathematics, biology, and physics, experimentalists as well as theoreticians. The two one-week workshops will consist of a program of invited talks and are devoted to applications of topology to physics and to biology. The first one will be held from June 17-21 and the second one from July 1-5. The topics which we expect to discuss are liquid crystals and superfluid liquids, Fermi surfaces, membranes, quasicrystals, the general theory of defects, biopolymers and polymers, DNA, proteins, apoptosis and molecular recognition. This is not a limiting list of topics, and the seminar will largely be the result of the actual activity of the participants. From May 13 to June 7 we organize minicourses on topology for physicists. The seminar program will be organized in a way to optimize interactions between participants of different communities.

Preliminary List of Invited Participants: J. Avron, J. Bellissard, M. Berger, Joan Birman, Joe Birman, R. Brooks, Y. Bouligand, N. Cazzarelli, D. Chilingworth, B. Coleman, I. Darcy, S. Fraden, M. Frank-Kamenetsky, A. Gabibov, S. Golovin, A. Grosberg, R. Holyst, T. Janssen, A. Joets, B. Jilinsky, L. Kauffman, R. Kerner, A. Kister, A. Kosevich, R. Kusner, S. Lambropoulou, M. Lapidus, S. Levine, F. Livolant, J. Maddocks, M. Magnasco, D. R. Nelson, A. Nepomnyashy, L. Pitaevski, Y. Pomeau, R. Ricca, N. Rivier, D. Roux, L. Sadun, U. Seifert, I. M. Sigal, E. Siggia, T. Sluckin, A. Stasiak, H.-R. Trebin, A. Vologodski

Information: <http://www.mpi-pks-dresden.mpg.de/~topcon02/>.

* **14-19 4th Conference on Function Spaces**, Southern Illinois University, Edwardsville, Illinois.

Topics: Function algebras, Banach algebras, spaces and algebras

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 **six 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, 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/>.

of analytic functions, L_p spaces, geometry of Banach spaces, isometries of function spaces.

Information: For more information visit the conference web page at: <http://www.siu.edu/MATH/conference/> or contact the organizer: Krzysztof Jarosz, Department of Mathematics & Statistics, Southern Illinois University, Edwardsville, IL 62026-1653; kjarosz@siu.edu; tel: (618) 650-2354; fax: (618) 692-0095.

* 16-18 **NMMATYC-TexMATYC**, El Paso, Texas.

Description: The New Mexico and Texas Mathematical Associations of Two Year Colleges will hold a joint annual meeting.

Conference Chair: J. Peebles may be reached at Joanep@epcc.edu.

Information: Details on the conference may be found at the NMMATYC website: <http://www.unm.edu/~nmmatyc/>.

* 20-24 **Solving Systems of Polynomial Equations, NSF-CBMS Regional Research Conference**, Texas A & M University, College Station, Texas.

Speaker: B. Sturmfels, UC Berkeley.

Topics: A series of ten lectures on solving systems of polynomial equations. Lecture 1: Polynomials in One Variable, Lecture 2: Hypergeometric Functions, Lecture 3: Groebner Bases and Numerical Linear Algebra, Lecture 4: Rational Univariate Representation, Lecture 5: Resultants, Lecture 6: Homotopy Methods, Lecture 7: The Real Nullstellensatz, Lecture 8: Polynomial Optimization and Semidefinite Programming, Lecture 9: Primary Decomposition, Lecture 10: The Palamodov-Ehrenpreis Theorem.

Organizers: P. Lima-Filho, J. M. Rojas, H. Schenck.

Information: <http://www.math.tamu.edu/conferences/cbms/>.

* 22-25 **Visualization and Mathematics 2002**, Berlin-Dahlem, Germany.

Description: This workshop provides an active forum for mathematicians and computer graphics researchers on the fundamental problems of visualization techniques, on applications in mathematics, and on mathematical concepts in visualization. It is the third symposium in a series of workshops bringing together mathematicians and experts from computer graphics.

Sponsor: Under sponsorship of the Deutsche Forschungsgemeinschaft (DFG).

Themes: Visualization in differential geometry and partial differential equations, algorithmic representation of mathematical structures, computational aspects of topology, discrete geometry of meshes, compression of large and time-dependent geometric models, virtual laboratories for mathematics and applications, online visualization and computational web services.

Information: See <http://www.math.tu-berlin.de/vismath/>.

* 23-25 **International Conference on Asymptotic Methods in Stochastics**, Carleton University, Ottawa, Ontario, Canada.

Description: The conference is in honour of the work of Miklos Csorgo.

Co-Sponsor: The meeting will be cosponsored by the Fields Institute. It will be a smaller version of an earlier conference, ICAMPS'97 (International Conference on Asymptotic Methods in Probability and Statistics), that was held at Carleton University in July 1997. We are planning to revisit major topics of ICAMPS'97.

Organizers: The official organizers of the conference are L. Horvath of the Univ. of Utah and B. Szyszkowicz, Carleton Univ. Both are colleagues and collaborators of Professor Csorgo and both are currently active doing research in asymptotic stochastic analysis. The conference will cover topics related to Professor Csorgo's research interests, which are wide-ranging and cover a broad spectrum of probability theory and stochastic processes.

* 23-25 **Progress in Partial Differential Equations and Applications**, Dept. of Math., Washington State Univ., Pullman, Washington.

Description: The conference will focus on recent progress in partial differential equations and applications. May 24 will be in honor of John R. Cannon on the occasion of his 65th birthday and his

research achievement. May 25 will be the Pacific Northwest PDE seminar series.

Invited Speakers: W. Allegretto (Univ. of Alberta), S. Avdonin (Univ. of Alaska), John R. Cannon (Univ. of Central Florida), J. M. Chadam (Univ. of Pittsburgh), X. Chen (Univ. of Pittsburgh), E. DiBenedetto (Univ. of Vanderbilt), P. DuChateau (Colorado State Univ.), R. Ewing (Texas A&M Univ.), Gary Lieberman (Iowa State Univ.), Y. Lin (Univ. of Alberta), Zhilin Li, (North Carolina State Univ.), T. Seidman (Univ. of Maryland at Baltimore), R. Showalter (Univ. of Texas at Austin), W. Rundall (Texas A&M Univ.), D. Wollkind (Washington State Univ.), G. Uhlmann (Univ. of Washington), Jun Zou (Univ. of Hong Kong).

Information: For accommodation and travel information, please visit the web page <http://www.math.wsu.edu>.

* 25-31 **A Workshop on Homological Methods in Commutative Algebra**, Institute for Studies in Theoretical Physics and Mathematics (IPM), Tehran, Iran.

Organizing Committee: L. L. Avramov, E. E. Enochs, H. B. Foxby, and S. Yassemi.

Tentative List of Speakers and Topics: L. L. Avramov, Cohomology theories for modules of finite G -dimension, Growth of (co)homology over complete intersection rings, Vanishing of (co)homology over Gorenstein rings; W. Bruns, The discretization of homological properties, Invariants of the Knuth-Robinson-Schensted correspondence, Algebras defined by minors; E. E. Enochs, Gorenstein flat modules, Towards a coGalois theory of covers, Cotorsion theories; H. B. Foxby, Homological dimensions of modules and complexes, Relative homological dimensions and restricted homological dimensions, Local homomorphisms and homological dimensions; J. Herzog, Koszul algebras and modules, On the asymptotic behavior of regularity, Discrete polymatroids; O. M. G. Jenda, Gorenstein injective modules, Omega-Gorenstein modules.

Information: The announcement <http://www.ipm.ac.ir/IPM/news/homological/announcement.jsp>; registration form: <http://www.ipm.ac.ir/IPM/news/homological/register.jsp>. There will be no registration fee for this workshop. The local committee can provide hotel reservations for the participants. Transportation services will be provided by IPM.

June 2002

* 2-6 **7th Valencia International Meeting on Bayesian Statistics**, Tenerife, Canary Islands, Spain.

Description: Residential conference held at a conference center at the seaside (Playa de las Americas). World Conference on Bayesian Statistics, held every four years. Fully refereed, selected proceedings published by Oxford University Press.

Deadline: The deadline for abstracts for contributed papers is April 10, 2002.

Organizer: Universidad de Valencia/ISBA.

Information: Further information and registration forms at the conference websites: <http://www.uv.es/valencia7/> (USA mirror: <http://www.stat.duke.edu/valencia7/>); e-mail: valencia7@uv.es.

* 2-7 **Foundations of Probability and Physics-2**, International Center for Mathematical Modelling in Physics, Engineering and Cognitive Sciences, Växjö University, Sweden.

Invited Speakers: L. Accardi* (Univ. of Rome-2, Italy), V. Belavkin (Nottingham Univ.), K.F. Berggren (Linköping Univ.), C. Fuchs (Bell Lab., Murray Hill), R. Gill (Univ. of Eindhoven), K. Gustafsson (Univ. of Boulder), B. Hellsings (Chalmers, Gothenburg), B. Hiley (Univ. of London), A. Khrennikov (Växjö Univ.), S. Kozyrev (Steklov Mathematical Inst., Moscow), B. Nilsson (Växjö Univ.), M. Ohya (Science Univ. of Tokyo), A. Plotnitsky (Purdue Univ.), A. Segienko (Boston Univ.), H. Rauch (Atominstitut, Vienna), E. Sjöqvist (Uppsala Univ.), J. Summhammer (Atominstitut, Vienna), I. Volovich (Steklov Mathematical Inst., Moscow). (* -) to be confirmed

Information: See <http://www.msi.vxu.se/aktuell/konferens/foundations2.pdf/>. Andrei Khrennikov, Prof. of Applied Math-

ematics, The Director of International Center in Mathematical Modelling in Physics, Engineering and Cognitive Sciences.

* **5–8 Variational Methods: Open Problems, Recent Progress, and Numerical Algorithms**, Northern Arizona University, Flagstaff, Arizona.

Principal Speakers: A. Castro, G. Chen, W.-M. Ni.

Organizer: J. M. Neuberger, NAU.

Contact: John.Neuberger@NAU.Edu.

Information: <http://odin.math.nau.edu/~vari/>.

* **6–8 Conference on Zero-dimensional Schemes and Related Topics**, Acireale, Italy (Sicily).

Topics: This conference, which honors Tony Geramita's 60th birthday, includes topics in algebraic geometry and commutative algebra related to Geramita's work in these areas. Talks will be given by the invited speakers listed below; shorter talks are also solicited. To register or to submit a request to speak visit the website listed below.

Organizers: E. Campbell, Queen's University (eddy@mast.queensu.ca); B. Harbourne, Univ. of Nebraska (bharbourne@unl.edu); J. Migliore, Univ. of Notre Dame (migliore.1@nd.edu); F. Orecchia, Univ. of Napoli (orecchia@matna2.dma.unina.it); A. Ragusa, Univ. of Catania (ragusa@dm1.unict.it); L. Robbiano, Univ. of Genova (robbiano@dima.unige.it).

Invited Speakers: K. Chandler, Univ. of Notre Dame; L. Chiantini, Univ. of Siena; A. Conca, Univ. of Genova; A. Gimigliano, Univ. of Bologna; M. Kreuzer, Univ. of Regensburg; R. M. Miró-Roig, Univ. of Barcelona; U. Nagel, Univ. of Paderborn; L. Roberts, Queens Univ.; R. Strano, Univ. of Catania; B. Ulrich, Purdue Univ.

Information: Contact one of the organizers above or visit <http://cocoa.dima.unige.it/conference/acireale/first.html>.

* **21–26 Symmetries and Integrability of Difference Equations—EuroConference on Discrete Painlevé Equations and the Solvability of Difference Equations**, VVF La Badine, Giens (near Toulon), France.

Scope: The topics covered by this conference will include: analytic and algebraic aspects of difference equations, difference Galois theory, the Painlevé property and singularity analysis, growth and branching phenomena in rational mappings, difference analogues of the Painlevé equations, isomonodromic deformation theory, asymptotics of orthogonal polynomials, symmetries of difference equations and applications to numerical analysis. The conference is open to researchers worldwide, whether from industry or academia. Participation will be limited to 100. The emphasis will be on discussion about new developments. The conference fee covers registration, full board, and lodging. Grants will be available, in particular for nationals under 35 from EU or Associated States.

Speakers will include: M. J. Ablowitz (Boulder, US), C. Brezinski (Lille, France), P. Clarkson (Canterbury, UK), R. Conte (Saclay, France), C. Favre (Paris, France)*; R. Halburd (Loughborough, UK), P. E. Hydon (Surrey, UK), G. Immink (Groningen, Netherlands), A. Iserles (Cambridge, UK), A. Its (Indianapolis, US), N. Joshi (Adelaide, Australia), M. Kruskal (Rutgers, US), I. Laine (Joensuu, Finland), D. Levi (Rome, Italy), J.-M. Maillard (Paris, France), F. Nijhoff (Leeds, UK), V. Papageorgiou (Patras, Greece), R. Quispel (Bundoora, Australia), A. Ramani (Paris, France), K. Rerikh (Dubna, Russia), J. Sauloy (Toulouse, France), J. Satsuma (Tokyo, Japan), T. Takenawa (Tokyo, Japan)*; W. van Assche (Louvain, Belgium), A. Veselov (Loughborough, UK), P. Winternitz (Montreal, Canada) (* means to be confirmed).

Information: Mr. Rachid Adghoughi, Conference Organiser, European Science Foundation, 1 quai Lezay-Marnési, 67080 Strasbourg, France; tel +33 388 76 71 35; fax +33 388 36 69 87; e-mail: radghoughi@esf.org; <http://www.esf.org/euresco/02/pc02185/>

* **23–28 Recent Advances and New Directions in Mechanics, Continuum Thermodynamics, and Kinetic Theory: Symposium**

in Memory of Clifford Ambrose Truesdell III, Virginia Polytechnic Institute and State University, Blacksburg, Virginia.

Description: This Symposium will be held in conjunction with the 14th U.S. National Congress of Theoretical and Applied Mechanics. Online information on the National Congress is available at the website <http://www.esm.vt.edu/usncam14/>.

Information: Updated information on the present Symposium is posted at the URL <http://www.ms.uky.edu/~mclxyh/ctsypm.htm>.

* **24–27 International Conference on “Information and Knowledge Engineering” (IKE'02)**, Las Vegas, Nevada.

Information: <http://www.gsw.edu/~bhanu/Conferences.html>.

* **24–27 International Workshop on Orthogonal Polynomials: Orthogonal Polynomials and Approximation Theory (IWOP'02)**, Leganés, Madrid, Spain.

Invited Speakers: J. S. Geronimo (Georgia Inst. of Technology, USA), P. González Vera (Univ. of La Laguna, Spain) and L. Jodar (Polytechnical Univ. of Valencia, Spain) A. B. J. Kuijlaars (Katholieke Univ. Leuven, Belgium), A. Martínez-Filkenshtein (Univ. of Almería, Spain), H. Stahl (Technical Univ. Berlin, Germany).

Information: R. Álvarez-Nodarse (Univ. of Sevilla, ran@us.es), J. Arvesú (Univ. of Carlos III de Madrid, jarvesu@math.uc3m.es), and P. Marcellán (Univ. of Carlos III de Madrid, pacomarc@ing.uc3m.es). There will be six two-hour invited lectures and 20 research seminars (20+5 min). Further information will appear on the official URL site of the IWOP'02, <http://merlin.us.es/~renato/iwop/>.

* **24–27 Special Session on “Knowledge Representation and Reasoning” in 2002 International Conference on Artificial Intelligence (IC-AI)**, Las Vegas, Nevada.

Information: <http://www.gsw.edu/~bhanu/Conferences.html>.

* **24–28 Workshop on “Bone Mechanics: Mathematical and Mechanical Models for Analysis and Synthesis”**, IST, Lisbon, Portugal.

Workshop topics: Homogenization models for cellular materials; mechanosensation system in bone; adaptive elasticity; material models in topology optimization of structures; optimization and biological designs; bone remodeling: analytical and computational models; bone prostheses and implants; material optimization models applied to bone remodeling simulation; computational assessment of bone mechanical quality; biological versus topological optimization models of bone.

Speakers: M. P. Bendsoe, Mathematical Inst., Technical Univ. of Denmark; A. Cherkaev, Dept. of Mathematics, Univ. of Utah; S. C. Cowin, Dept. of Mechanical Engineering at City College, City Univ. of New York; M. Doblaré, Univ. of Zaragoza; R. Huiskes, Dept. of Biomedical Engineering, Eindhoven Univ. of Technology; H. Weinans, Erasmus Orthopaedic Research Lab, Erasmus Univ. Rotterdam; J. M. Guedes, Dept. of Mechanical Engineering, Instituto Superior Técnico, Portugal; H. Rodrigues, Dept. of Mechanical Engineering, Instituto Superior Técnico, Portugal.

Information: <http://www.dem.ist.utl.pt/~bonemec/>.

* **24–29 Topology, Geometry and Quantum Field Theory**, Oxford, England.

Description: Geometry and quantum physics developed in parallel since the recognition of the central role of nonabelian gauge theory in elementary particle physics in the late seventies and the emerging study of supersymmetry and string theory. The topics of this symposium will be centered around string theory, M-theory, and quantum gravity on the one hand, and K-theory, elliptic cohomology, quantum cohomology, and string topology on the other. Its purpose is to bring experts in topology, geometry, and theoretical physics together.

Invited Speakers: Who have provisionally accepted: Sir M. Atiyah (Edinburgh), R. Cohen (Stanford), R. Dijkgraaf (Amsterdam), M. Hopkins (MIT), M. Kontsevich (IHES), D. McDuff (SUNY), N. Nekrasov (IHES), D. Sullivan (CUNY), S. Stolz (Notre Dame), C. Teleman

(Cambridge), G. Wilson (King's College London), E. Witten (IAS Princeton).

Symposium organizer: U. Tillmann (Oxford).

Information: Please register your interest with L. Mildenhall (mildenha@maths.ox.ac.uk). Further details will appear at <http://www.maths.ox.ac.uk/notices/events/>. The symposium is supported by the LMS.

* 27–July 2 **19th International Conference on Operator Theory**, West University, Timisoara, Romania.

Organizers: Institute of Mathematics of the Romanian Academy and the Faculty of Mathematics of the West University of Timisoara.

Topics: Operator theory, operator algebras and their applications (differential operators, complex functions, mathematical physics, matrix analysis, systems theory, etc.).

Steering Committee: W. B. Arveson, N. K. Nikolskii, N. Salinas, S. Stratila, F.-H. Vasilescu.

Information: <http://www.imar.ro/~ot/>.

* 30–July 20 **2002 Summer Session: IAS/Park City Mathematics Institute (PCMI)**, Park City, Utah.

Description: PCMI is a three-week residential Summer Session for research mathematicians, graduate students, undergraduate students, high school teachers, college teaching faculty, mathematics education researchers.

Sponsor: PCMI is sponsored by the Institute for Advanced Study, Princeton, New Jersey.

Research topic: Automorphic forms and their applications.

Organizers: P. Sarnak, Princeton Univ., and F. Shahidi, Purdue Univ.

Information: <http://www.ias.edu/parkcity/>.

July 2002

* 1–6 **2002: Workshop on “Wavelets and Applications”**, Barcelona, Spain.

Organizer: Institute of Mathematics of the University of Barcelona (IMUB).

Organizing Committee: M. J. Carro, J. Cerda, J. Martin, and J. Soria.

Information: IMUB, Univ. of Barcelona; phone: (34)-93 402 1385, fax: (34)-93 403 5963, <http://www.imub.ub.es/wavelets/>.

* 10–13 **VISIT-ME 2002: Vienna International Symposium on Integrating Technology into Mathematics Education**, Vienna, Austria.

Contact: B. Kutzler at kutzler@eunet.at.

Information: <http://www.acdca.ac.at/visit-me-2002/>.

* 12–15 **XIth Oporto Meeting on Geometry, Topology and Physics**, Porto, Portugal.

Description: The main topic of the XIth Oporto meeting will be: “Geometry of Differential Equations”. The confirmed invited main speakers are: I. M. Anderson (Dept. of Mathematics and Statistics, Utah State Univ.), P. A. Griffiths (Institute for Advanced Study, Princeton), N. Kamran (Dept. of Mathematics and Statistics, McGill Univ., Montreal, Canada), J. Krasil'shchik (Independent Univ. of Moscow), A. Verbovetsky (Independent Univ. of Moscow), A. M. Vinogradov (Diffiety Inst. and Salerno Univ., Italy). The main courses will be delivered by the following invited speakers: Prof. Anderson, Prof. Kamran, Prof. Griffiths, and Prof. Vinogradov.

Further Information and Registration: <http://www.fc.up.pt/mp/actividades/om.html>.

* 27–August 9 **Banach Algebras and Their Applications: Banach Algebras 2003**, Edmonton, Alberta, Canada.

Description: This conference is the sixteenth in a series of conferences on Banach algebras that started in 1974 in Los Angeles. We expect that most specialists in Banach algebras as well as leading mathematicians from related areas will attend this conference. In the past, these conferences have always led to fruitful interaction between the participants, and we expect this tradition to continue.

In addition to the regular conference program consisting of one-hour and half-hour talks by the participants, we also plan to hold five workshops on the following topics, each of which will be chaired by an internationally recognized specialist in the respective area: Banach algebras in harmonic analysis (to be held in the honor of Eberhard Kaniuth on the occasion of his retirement), Chair: A. T.-M. Lau (Edmonton); Banach algebras in operator theory, Chair: M. M. Neumann (Starkville; USA); Banach algebras and operator spaces, Chair: Z.-J. Ruan (Urbana-Champaign; USA); K -theory of Banach algebras, Chair: J. Cuntz (Muenster, Germany); Topological homology, Chair: A. Ya. Helemskii (Moscow, Russia). Each workshop will occupy two afternoons. The chairs are completely free to decide on the format of their workshops.

Information: For more detailed information, including a list of invited speakers, see the conference website at <http://www.math.ualberta.ca/~ba03/>.

* 29–August 2 **10th International Conference on Finite or Infinite Dimensional Complex Analysis and Applications**, Silla University in Pusane, Korea.

Deadlines: Registration form by April 15, 2002; abstract by May 31, 2002.

Topics: Finite or infinite dimensional complex analysis and applications international advisory board: J. Kajiwara, Kyushu Univ. (Chairman); H. Begehr, Free Univ. of Berlin; H. Kazama, Kyushu Univ.; M. Nishihara, Fukuoka Institute of Technology; K. H. Shon, Pusan National Univ.; L. H. Son, Hanoi Univ. of Technology; S. Wu, Peking Univ.; C. C. Yang, Hongkong Univ. of Science and Technology.

Speakers: H. Begehr, K. S. Chang, S. H. Cho, S. Dineen, J. K. Han, H. O. Kim, K. T. Kim, M. Morimoto, M. Nishihara, F. Ronning, H. M. Srivastava, L. H. Son, T. Sugawa, S. Tajima, C. C. Yang.

Information: <http://lotus.silla.ac.kr/~mathema/conference/>.

* 30–August 2 **Mysticism, Reason, Art and Literature: East West Perspectives**, The Society of Indian Philosophy & Religion, Calcutta, India.

Topics: The theme can be addressed critically, reflectively and creatively by the philosophical, religious and scientific traditions of the world's great civilizations. The program will include plenary addresses, volunteered papers, invited papers and panel discussions. Registered participants who are members of professional associations or societies are encouraged to submit proposals for holding meetings in the conference on behalf of their associations or societies. The organizers are committed to upholding the highest academic standards with emphasis on the exchange of ideas and dialogues among thinkers drawn from a wide range of the world's cultural traditions and movements.

Possible topics include: art, literature and religion; mysticism and romanticism; art and creativity; art and imitation; myth, metaphor and reality; fact, fiction and reason; language, thought and reality; deductivism and inductivism; holism and atomism; ineffable and unknowable; esoteric traditions of the world; God and absolute; transcendence and immanence; scepticism and agnosticism; realism and antirealism; reason, revelation and faith; self and absolute; Tao and Brahman; emptiness and nothingness; theories of deconstruction, existentialism and essentialism. This list is illustrative and not exhaustive.

Information: For information or to contribute a paper, contact: Dr. Chandana Chakrabarti, Elon Univ., Elon, NC 27244; e-mail: chakraba@elon.edu; phone: (336) 278-5713; fax: (336) 278-5627; webpage: http://www.elon.edu/chakraba/conference_2002.htm.

August 2002

* 4–9 **Modeling and Simulating Biocomplexity for Mathematicians and Physicists**, Santa Fe Institute (SFI), Santa Fe, New Mexico.

Participants: Ph.D. students, post-doctoral students and young faculty members in mathematics, and physicists who are interested in applying their knowledge in the biological sciences.

Prerequisites: This workshop is dedicated to assisting theoreticians who wish to switch their interests into biology. Thus, no biological background will be assumed (though general background reading is of course helpful). Preference will be given to those for whom this experience is their first, or one of their first, in theoretical biology. Mathematicians should have had some experience in applying mathematics to some other area; please indicate this experience in your statement of research interests.

Lecturers (Partial List): Note that the following are authors or coauthors of major textbooks in mathematical/theoretical biology: Edelstein, Keener and Sneyd, Murray, Segel. L. Edelstein (Univ. of British Columbia), J. Keener (Univ. of Utah), B. Korber (Los Alamos National Lab.), H. Markram (Weizmann Inst.), M. Laessig (Univ. of Cologne), J. Murray (Univ. of Washington), L. Peliti (Univ. of Naples), L. Segel (Weizmann Inst.), J. Sneyd (Massey Univ.).

Information: Available at <http://www.santafe.edu/mathmodel/> or mathmodel@santafe.edu.

* 8–September 3 **First Sino-German Meeting on Stochastic Analysis (Satellite Conference to the ICM 2002)**, Beijing, China.

Sections: 1) Geometry on path space (organizer: R. Léandre, e-mail: leandre@iecn.u-nancy.fr), 2) Infinite dimensional analysis, measure-valued processes and Dirichlet forms (organizer: K.-T. Sturm, e-mail: sturm@uni-bonn.de), 3) Noncommutative and quantum probability (organizer: M. Schuermann, e-mail: schurman@uni-greifswald.de), 4) Pseudodifferential operators and jump processes (organizer: N. Jacob, e-mail: N.Jacob@swansea.ac.uk), 5) Random media (organizer: A. Bovier, e-mail: bovier@wias-berlin.de), 6) Statistical mechanics and particle systems (organizer: Yu. Kondratiev, e-mail: kondrat@mathematik.uni-bielefeld.de), 7) Stochastic finance (organizer: M. Schweizer, e-mail: martin.schweizer@mathematik.uni-muenchen.de), 8) Stochastic methods in quantum field theory and hydrodynamics (organizers: P. Blanchard, e-mail: blanchard@physik.uni-bielefeld.de and L. Streit, e-mail: streit@physik.uni-bielefeld.de), 9) Stochastic partial differential equations (organizer: L. Tubaro, e-mail: tubaro@science.unitn.it).

Information: If you are interested in participating, please contact the organizer of the section closest to your interest and send a copy to the following address: M. L. Wang (wang@uni-bonn.de).

* 9–11 **Colloquium Logicum 2002**, Münster, Germany.

Description: Biannual Meeting of the DVMLG (Deutsche Vereinigung für Mathematische Logik und für Grundlagen der Exakten Wissenschaften).

Invited Speakers: T. Arai (Hiroshima), J. Bagaria (Barcelona), A. Nies (Chicago, IL), M. Otto (Swansea), C. Parsons (Cambridge, MA), A. Pillay (Urbana-Champaign, IL), M. Rathjen (Leeds), J. van Benthem (Amsterdam/Stanford, CA).

Information: Satellite conference to <http://www.math.uni-muenster.de/LC2002/CL2002.html>.

* 12–16 **Geometric Topology—A Satellite Conference of ICM 2002**, Beijing, Shaanxi Normal University, Xi'an, China.

Confirmed Plenary Speakers: D. Calegari (Harvard Univ.), M. Bestvina (Univ. of Utah), S. Bigelow (Univ. of Melbourne), M. Boileau (Université de Toulouse III), F. Bonahon (Univ. of Southern California), M. Bridson (Univ. of Oxford), Y. Eliashberg (Stanford Univ.), M. Furuta (Univ. of Tokyo), D. Gabai (Princeton Univ.), C. Gordon (Univ. of Texas at Austin), W.-C. Hsiang (Princeton Univ.), J. Jezierski (Univ. of Agriculture, Warsaw), S. Kamada (Osaka City Univ.), J. Roberts (Univ. of California, San Diego), H. Rubinstein (Univ. of Melbourne), V. Turaev (IRMA, Université de Strasbourg).

Organizing Committee: Chair: B. Jiang (Peking Univ.); Vice-Chair: S. Zhao (President, Shaanxi Normal Univ.); F. Fang (Nankai Inst. of Math., Nankai Univ.), B. Li (Inst. of Systems Science, Chinese Acad. of Sci.), X.-S. Lin (Univ. of California, Riverside), F. Luo (Rutgers Univ.), G. Wang (Shaanxi Normal Univ.), S. Wang (Peking Univ.), Y.-Q. Wu (Univ. of Iowa), B. Zhao (Shaanxi Normal Univ.).

Information and registration: Participants should register at the website <http://www.math.uiowa.edu/~wu/gtc/gtc.html>. Every effort will be made to provide support for local expenses to all registered participants.

* 19–23 **24th European Meeting of Statisticians, 14th Prague Conference on Information Theory, Statistical Decision Functions and Random Processes**, Prague, The Czech Republic.

Information: http://siprint.utia.cas.cz/24_ems/.

September 2002

* 9–13 **Axiomatic and Enriched Homotopy Theory**, Isaac Newton Institute for Mathematical Sciences, Cambridge, England.

Workshop Organizers: P. G. Goerss and J. P. C. Greenlees.

Information: Isaac Newton Institute for Mathematical Sciences, 20 Clarkson Road, Cambridge, CB3 0EH; tel: +44 (0) 1223 335999; fax: +44 (0) 1223 330508; e-mail: info@newton.cam.ac.uk. Please refer to our website: <http://www.newton.cam.ac.uk/programs/NST/> for full details of how to apply for these workshops.

* 16–18 **KES'2002 Sixth International Conference on Knowledge-Based Intelligent Information & Engineering Systems**, Podere d'Ombriano, Crema, Italy.

Information: Special session: Machine learning in bioinformatics, <http://www.dsi.unifi.it/~paolo/kes02.html>. This special session aims at presenting and discussing state-of-the-art algorithms and methodologies in computational molecular biology where machine learning plays a key role. Topics of interest include (but are not limited to) applications of machine learning to: protein folding and protein structure prediction; gene expression data and DNA micro-arrays; protein-protein interaction; finding signals and motifs in DNA sequences; inference of genetic networks; analysis of gene structure and regulation; phylogenetic analysis; QSAR and QSPR. Paolo Frasconi, Dept. of Systems and Computer Science, University of Florence, Via di Santa Marta 3, I-50139 Firenze, Italy, Phone: +39 055 4796 362, Fax: +39 055 4796 363, <http://www.dsi.unifi.it/~paolo/>.

* 16–20 **Homotopy Theory of Geometric Categories**, Isaac Newton Institute for Mathematical Sciences, Cambridge, England.

Workshop Organizers: J. F. Jardine and F. Morel.

Information: Isaac Newton Institute for Mathematical Sciences, 20 Clarkson Road, Cambridge, CB3 0EH; tel: +44 (0) 1223 335999; fax: +44 (0) 1223 330508; e-mail: info@newton.cam.ac.uk. Please refer to our website: <http://www.newton.cam.ac.uk/programs/NST/> for full details of how to apply for these workshops.

* 17–23 **International Algebra Conference Dedicated to the Memory of Zenon Borewicz (1922–1995)**, Saint Petersburg, Russia.

Topics: The conference will cover all areas of algebra, algebraic number theory and algebraic geometry, with special emphasis in topics close to the research interests of Borewicz, viz. local and global fields, representation theory, homological algebra and algebraic K -theory, linear and algebraic groups. We plan both plenary talks and short communications in smaller thematic sections.

Information: If you are interested in participating in the conference and would like to receive further information, please respond to Borewicz.conf@norths.spb.su.

* 20–22 **Yamabe Memorial Symposium**, University of Minnesota, School of Mathematics, Minneapolis, Minnesota.

Description: The Yamabe Memorial Symposium is held in memory of Hidehiko Yamabe (1923–1960) whose significant work on topological groups and geometry were outstanding contributions to modern mathematics.

Main Speakers: P. Li, R. Hamilton, F.-H. Lin, and B. Chow.

Organizing Committee: R. Gulliver, D. Kahn, N.-C. C. Leung, J. Wang.

Financial support: Interested younger participants are invited to apply for partial support for travel and local expenses. Please supply a brief research summary or C.V. and a letter of reference.
Information and Contacts: E-mail: yamabe@math.umn.edu, tel: (612) 625-5591. The final list of speakers and other conference details will be posted at <http://www.math.umn.edu/~gulliver/confs/yamabe.html>.

* 30–October 4 **K-theory and Arithmetic**, Isaac Newton Institute for Mathematical Sciences, Cambridge, England.

Workshop Organizers: S. Lichtenbaum and V. P. Snaith.

Information: Isaac Newton Institute for Mathematical Sciences, 20 Clarkson Road, Cambridge, CB3 0EH; tel: +44 (0) 1223 335999; fax: +44 (0) 1223 330508; e-mail: info@newton.cam.ac.uk. Please refer to our website: <http://www.newton.cam.ac.uk/programs/NST/> for full details of how to apply for these workshops.

November 2002

* 18–22 **Twenty Years of Tilting Theory: An Interdisciplinary Symposium**, Fraueninsel, Germany.

Description: Tilting modules were born about twenty years ago in the context of finite dimensional algebras. Since then, tilting theory has spread in many different directions, and nowadays it plays an important role in various branches of modern algebra, ranging from Lie theory and algebraic geometry to homotopical algebra. The aim of this meeting is to bring together for the first time experts from different fields where tilting is relevant or even of central importance. There will be several lecture series and survey talks on the use of tilting theory in different contexts, as well as a number of additional talks contributed by the participants.

Tentative List of Invited Speakers: M. van den Bergh (Univ. of Limburg), S. Brenner (Univ. of Liverpool), T. Brüstle (Univ. of Bielefeld), M. Butler (Univ. of Liverpool), S. Donkin (Univ. of London), K. Erdmann (Univ. of Oxford), K. Fuller (Univ. of Iowa), B. Keller (Univ. of Paris VII), S. König (Univ. of Leicester), H. Lenzing (Univ. of Paderborn), O. Mathieu (Univ. of Lyon), J. Miyachi (Tokyo Gakugei Univ.), I. Reiten (NTNU Trondheim), J. Rickard (Univ. of Bristol), R. Rouquier (Univ. of Paris VII), J. Trlifaj (Charles Univ. Prague).

Information: See <http://www.mathematik.uni-muenchen.de/~tilting/>.

* 25–28 **Fifth International Conference on Monte Carlo and Quasi-Monte Carlo Methods in Scientific Computing (MCQMC 2002)**, Singapore, Republic of Singapore.

Description: This conference will bring together experts in the fields of mathematics, computer science, statistics, operations research, physics, engineering, and finance to discuss the latest developments in Monte Carlo and quasi-Monte Carlo methods and their applications. MCQMC 2002 is the fifth in a series of international meetings. The program will consist of invited plenary talks, several special thematic sessions, and contributed talks.

Program Committee: K.-T. Fang (Hong Kong), P. Glasserman (USA), S. Heinrich (Germany), F. J. Hickernell (Hong Kong), P. L'Ecuyer (Canada), H. Niederreiter (Singapore, chair), E. Novak (Germany), A. Owen (USA), I. H. Sloan (Australia), J. Spanier (USA), D. Talay (France), S. Tavaré (USA), J.-S. Wang (Singapore), H. Wozniakowski (USA/Poland).

Invited Speakers: P. Boyle (Canada), S. Heinrich (Germany), P. L'Ecuyer (Canada), J.S. Liu (USA), D. Talay (France), W. Wagner (Germany), G. Wasilkowski (USA), C. P. Xing (Singapore).

Call for Papers: Abstracts of contributed talks should be submitted to H. Niederreiter by July 31, 2002. The abstract should fit on one page and include the title of the talk, the name, affiliation, full postal address, and e-mail address of the speaker, and a summary of the talk which provides sufficient information to assess the relevance and novelty of the results. The preferred mode is electronic submission in LaTeX or Postscript format. Notification of the acceptance of the talk will be given about one month after the above deadline.

Contact: H. Niederreiter, Department of Mathematics, National University of Singapore, 2 Science Drive 2, Singapore 117543, Republic of Singapore; e-mail: nied@math.nus.edu.sg.

Information: Regularly updated information can be obtained from the web page <http://www.mcqmc2002.math.nus.edu.sg/>.

December 2002

* 9–13 **Elliptic Cohomology and Chromatic Phenomena**, Isaac Newton Institute for Mathematical Sciences, Cambridge, England.

EuroWorkshop Organizers: D. C. Ravenel and H. R. Miller.

Information: Isaac Newton Institute for Mathematical Sciences, 20 Clarkson Road, Cambridge, CB3 0EH; tel: +44 (0) 1223 335999; fax: +44 (0) 1223 330508; e-mail: info@newton.cam.ac.uk. Please refer to our website: <http://www.newton.cam.ac.uk/programs/NST/> for full details of how to apply for these workshops.

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.