

---

# Mathematics Calendar

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

## August 2001

\* 12-18 **International Conference on Applicable General Topology**, Hacettepe University, Ankara, Turkey.

**Keynote Speakers:** A. Edalat (London), M. Escardo (Birmingham), K. Keimel (Darmstadt), H.-P. Kunzi (Cape Town), R. Lowen (Antwerp), S. Watson (Toronto), R. Wilson (Mexico City) and D. Shakhmatov (Matsuyama).

**Program:** Conference Topics: Asymmetric Topology (non-Hausdorff separation, order, bitopology, quasi-metrics, quasi-uniformities); Symmetric Topology (application oriented aspects of general topology more rooted in classical analysis, topological groups, uniformities, etc.); Point-free, Constructive or Categorical Aspects (frame/locale theory, domain theory, formal topology, categorical methods); Topology on Lattices (fuzzy topology, texture spaces, generalizations); Digital Topology (discretisation versus continuity, finite  $T_0$  spaces); Applications (to algebra, analysis, computer science, logic, etc.). In addition to the eight Keynote Talks of 55 minutes each on the main themes of the conference, there will be 25 minute Contributed Talks by the participants, Problem Sessions and opportunities for informal contacts between Turkish research students and experts in their areas of interest.

**Abstracts:** Abstracts of talks should be submitted to the Topology Atlas Abstract Service. There is a link from the features page of the Conference Web Site at <http://www.mat.hacettepe.edu.tr/topconf/main.html>. Alternatively, those without access to the Internet may send their abstract by e-mail to the organizers at [topconf@hacettepe.edu.tr](mailto:topconf@hacettepe.edu.tr). The closing date for abstracts is July 20.

**Information:** <http://www.mat.hacettepe.edu.tr/topconf/main.html>.

**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

\* 13-17 **DIMACS Summer School Tutorial on New Frontiers in Data Mining**, DIMACS Center, Rutgers University, Piscataway, New Jersey.

**Short Description:** The aim of this "summer school" tutorial program is to provide background, vocabulary, and theoretical methodology to nonspecialists in data mining and to others who wish to explore this field and to bring together students, postdocs, and researchers working on algorithms for data mining with those working in various application areas. More specifically, we aim to introduce the attendees to the fundamental theoretical/algorithmic issues that arise in data mining and its applications.

**Organizers:** D. Gunopulos, Univ. of California at Riverside; N. Koudas, AT&T Labs - Research.

**Local Arrangements:** J. Herold, DIMACS Center, [jessicah@dimacs.rutgers.edu](mailto:jessicah@dimacs.rutgers.edu), 732-445-5928.

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

\* 20-24 **Topology of Manifolds and Group Actions**, Centre de Recherches Mathématiques (CRM), Université de Montréal, Montréal (Québec), Canada.

**Organizers:** I. Hambleton (McMaster), R. Lee (Yale).

**Description:** Recently there have been important breakthroughs in the study of the topology of manifolds and related topics on group actions, especially in the area of 3- and 4-dimensional manifolds, with new input from the Seiberg-Witten theory and symplectic topology. One of the main objects of this workshop is to describe these new advances on the subject. In addition, there also have been important developments in other areas: for example, the study of discrete group actions on Euclidean space using controlled surgery theory, the generalization of Casson invariants from  $SU(2)$  to  $SU(3)$ , the study of Torelli group actions on the cohomology of

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 **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 e-MATH on the World Wide Web. To access e-MATH, use the URL: <http://e-math.ams.org/> (or <http://www.ams.org/>). (For those with VT100-type terminals or for those without WWW browsing software, connect to e-MATH via Telnet ([telnet e-math.ams.org](telnet://e-math.ams.org); login and password e-math) and use the Lynx option from the main menu.)

moduli spaces, the classification of topological group actions on 4-manifolds, just to name a few. Not concentrated completely on 4-dimensions, the program will also present these topics of high-dimensional manifolds and related topics. In fact, it is the design of the conference to bring about formal and informal discussion between different perspectives to compare questions, methods and applications.

**Participants:** S. Cappell (Courant Institute), R. Cohen (Stanford), J. Davis (Indiana), A. Edmonds (Indiana), T. Farrell (SUNY at Binghamton), P. Feehan (Dublin), R. Fintushel (Michigan State), K. Froyshov (Harvard), R. Gompf (Univ. of Texas at Austin), C. Herald (Univ. of Nevada at Reno), R. Kirby (UC Berkeley), T. Leness (Florida International Univ.), T.-J. Li (Princeton), M. Marcolli (Max-Planck-Institut für Mathematik, Bonn), M. McCooey (McMaster), E. Miller (Polytechnic Univ. of New York), J. Morgan (Columbia), L. Nicolaescu (Notre Dame), P. Ozsvath (Michigan State), E. Pedersen (SUNY at Binghamton), F. Quinn (Virginia Polytech Inst. & State Univ.), D. Ruberman (Brandeis), R. Schultz (UCR), D. Wilczynski (Utah State Univ. at Logan), B. Williams (Notre Dame).

**Information:** Those wishing to participate in the above activities are invited to write to: L. Pelletier, Centre de Recherches Mathématiques (CRM), Université de Montréal, C.P. 6128, Succ. Centre-ville, Montréal (Québec), Canada H3C3J7; e-mail: ACTIVITES@CRM.UMontreal.CA.

\* 20–24 **Variational Sequences and Bicomplexes : Advanced 5-Day Course**, Silesian University in Opava, Opava, Czech Republic.

**Information:** <http://www.math.slu.cz/levoca.html>.

\* 31–September 5 **2001 EAGER Advanced School in Algebraic Geometry: Moduli of Space Curves**, Grand Hotel Bellavista, Levico, Terme (Trento), Italy.

**Scientific Organizer:** G. Bolondi (Milano).

**Short Courses:** L. Caporaso, J. Harris, I. Morrison.

**Deadlines:** For financial support: May 31, 2001; For applications: July 31, 2001.

**Information:** A. Micheletti, Secretary of CIRM, Centro Internazionale per la Ricerca Matematica, Istituto Trentino di Cultura, 38050 Povo (Trento); tel: +39-0461-881628; telefax: +39-0461-810629; e-mail: michelet@science.unitn.it; <http://www.science.unitn.it/cirm/>.

## September 2001

\* 3–7 **School on Foundational Theories in Mathematics**, Faculty of Science, Povo(Trento), Italy.

**Scientific Organizers:** S. Baratella (Trento) and G. Sommaruga (Freiburg).

**Lectures:** J. L. Bell (Western Ontario), "Set Theory and "Synthesis"; I. Moerdijk (Utrecht), "Topos Theory"; G. Sambin (Padova), "Constructive Type Theory".

**Deadline for Applications:** July 31, 2001.

**Information:** Mr. A. Micheletti, Secretary of CIRM, Centro Internazionale per la Ricerca Matematica, Istituto Trentino di Cultura, 38050 Povo (Trento); tel: +39-0461-881628; telefax: +39-0461-810629; e-mail: michelet@science.unitn.it; <http://www.science.unitn.it/cirm/>.

\* 6–8 **Current Geometry 2001**, Istituto Italiano di Studi Filosofici, Napoli, Italy.

**Aim:** To establish a periodic update about advances in both Italian and International Geometry and its interactions with different areas, especially in Theoretical Physics.

**Preliminary list of speakers:** F. Baldassarri, A. Bobenko, J.P. Bourguignon, F. Catanese, A. Corti (to be confirmed), R. Donagi, C. De Concini, B. Dubrovin (to be confirmed), K. Fukaya, L. Götsche, M. Kontsevich, J. Krasilshchik, Y. Manin (to be confirmed), A. Verra, O. Viro.

**Information:** A. M. Vinogradov, Università' di Salerno, Dipartimento di Matematica e Informatica, Via S. Allende, 84081 Baronissi (Salerno); e-mail: curgeo@diffiety.ac.ru; fax: (+39) 089965226;

tel: (+39) 089965395; Web address: <http://diffiety.ac.ru/conf/curgeo01/index.html>.

\* 19–22 **International Conference on Algebraic Geometry and Singularities (in Honour of Professor José Luis Vicent Córdoba on His 60th Birthday)**, University of Sevilla, Sevilla, Spain.

**Information:** <http://www.us.es/da/>.

\* 28–30 **Workshop on Mathematical Modeling and Scientific Computation**, Fredericton, New Brunswick, Canada.

**Program:** The aim of this workshop is to bring together mathematical modelers and computational scientists working in a wide range of applications and to highlight the state-of-the-art computational techniques driving the progress of research in these fields. The workshop will be organized around applications from four areas: (1) biology, (2) finance, (3) fluid dynamics, (4) relativistic physics.

**Organizers:** V. Husain, J. Stockie, and J. Watmough.

**Information:** <http://www.math.unb.ca/~masc01/>; e-mail: [masc01@math.unb.ca](mailto:masc01@math.unb.ca).

## October 2001

\* 5–9 **Trends in Banach Spaces and Operator Theory**, The University of Memphis, Memphis, Tennessee.

**Sponsors:** National Science Foundation, The University of Memphis and The University of Mississippi.

**Organizing Committee:** J. Jamison, A. Kamińska, P.-K. Lin (Univ. of Memphis), P. Kranz (Univ. of Mississippi).

**Principal Speakers:** Y. Abramovich (Indiana University-Purdue, Indianapolis), S. Axler (San Francisco State University), J. B. Conway (University of Tennessee, Knoxville), C. C. Cowen (Purdue University), N. Kalton (University of Missouri in Columbia), B. MacCluer (University of Virginia in Charlottesville), E. W. Odell (The University of Texas at Austin), A. Pełczyński (Polish Academy of Sciences in Warsaw, Poland), G. Pisier (Université de Paris VI, Texas A&M University), T. Berthold Schlumprecht (Texas A&M University in College Station), N. Tomczak-Jaegermann (University of Alberta in Edmonton, Canada).

**Topics:** Variety of topics in Banach Spaces and Operator Theory, including: Isomorphic and isometric theory of Banach spaces, Banach lattices, Interpolation theory, Banach and Hilbert spaces of analytic functions, Spaces of measurable functions, The geometry of finite- and infinite-dimensional convex bodies,  $C^*$ -algebras, Linear spaces and algebras of operators, Weighted-composition, Hankel and Toeplitz operators, Normal and subnormal operators on Hilbert spaces.

**Information:** The principal speakers will deliver one-hour plenary lectures. Twenty-minute contributed talks will be organized in parallel sessions. The pre-registration deadline is 1 April 2001. Partial funding for advanced graduate students and beginning researchers may be available through the organizers. For further information on the conference organization, registration, location, lodging, submission of abstracts and other details, visit the conference web site at <http://www.msci.memphis.edu/banachconf.html>.

\* 28–November 2 **School on Semigroups Applied to Evolution Equations**, Grand Hotel Bellavista Levico, Terme (Trento), Italy.

**Scientific Organizers:** M. Iannelli (Trento), R. Nagel (Tuebingen), and S. Piazzera (Ulm).

**Deadline for Applications:** September 30, 2001.

**Information:** A. Micheletti, Secretary of CIRM, Centro Internazionale per la Ricerca Matematica, Istituto Trentino di Cultura, 38050 Povo (Trento); tel: +39-0461-881628; telefax: +39-0461-810629; e-mail: michelet@science.unitn.it; <http://www.science.unitn.it/cirm/>.

\* 29–November 1 **Introductory Lectures by A. A. Kirillov (Pennsylvania) and V. Guillemin (MIT)**, Centre de Recherches Mathématiques (CRM), Université de Montréal, Montréal (Québec), Canada.

**Information:** Those wishing to participate in the above activities are invited to write to: L. Pelletier, Centre de Recherches Mathématiques

(CRM), Université de Montréal, C.P. 6128, Succ. Centre-ville, Montréal (Québec), Canada H3C3J7; e-mail: [ACTIVITES@CRM.UMontreal.CA](mailto:ACTIVITES@CRM.UMontreal.CA); or visit <http://www.CRM.UMontreal.CA/geometry/>.

- \* 31–November 2 **Computational Issues in Game Theory and Mechanism Design**, DIMACS Center, Rutgers University, Piscataway, New Jersey.

**Organizers:** V. Vazirani, Georgia Tech; and N. Nisan, Hebrew Univ.  
**Short Description:** The research agenda of computer science is undergoing significant changes due to the influence of the Internet. Together with the emergence of a host of new computational issues in mathematical economics, as well as electronic commerce, a new research agenda appears to be emerging. This area of research is collectively labeled under various titles, such as "foundations of electronic commerce", "computational economics", or "economic mechanisms in computation", and deals with various issues involving the interplay between computation, game-theory, and economics.

**Information:** V. Vazirani, Georgia Tech, [vazirani@cc.gatech.edu](mailto:vazirani@cc.gatech.edu); Local Arrangements: J. Herold, DIMACS Center, [jessicah@dimacs.rutgers.edu](mailto:jessicah@dimacs.rutgers.edu), 732-445-5928. WWW Information: <http://dimacs.rutgers.edu/Workshops/index.html>.

### November 2001

---

- \* 2–6 **Workshop on the Geometry of Infinite-Dimensional Lie Groups**, Centre de Recherches Mathématiques (CRM), Université de Montréal, Montréal (Québec), Canada.

**Participants:** P. Deift (Pennsylvania), P. Etingof (MIT), V. Fock (ITEP), V. Guillemin (MIT), L. Jeffrey (Toronto), M. Kapranov (Toronto), A. A. Kirillov (Pennsylvania), F. Lalonde (Montréal), J. Leslie (Howard), E. Meinrenken (Toronto), P. Michor (Vienna), P. Olver (Minnesota), H. Omori (Tokyo), V. Ovsienko (CNRS-Luminy), T. Ratiu (EPFL Lausanne), T. Robart (Howard), P. Slodowy (Hamburg), I. Zakharevich (Ohio State).

**Information:** Those wishing to participate in the above activities are invited to write to: L. Pelletier, Centre de Recherches Mathématiques (CRM), Université de Montréal, C.P. 6128, Succ. Centre-ville, Montréal (Québec), Canada H3C3J7; e-mail: [ACTIVITES@CRM.UMontreal.CA](mailto:ACTIVITES@CRM.UMontreal.CA); or visit <http://www.CRM.UMontreal.CA/geometry/>.

- \* 5 **Workshop on Streaming Data Analysis and Mining**, DIMACS Center, Rutgers University, Piscataway, New Jersey.

**Organizers:** A Buchsbaum, AT&T Labs-Research, R. Motwani, Stanford Univ., J. Rexford, AT&T Labs.

**Description:** Speakers at the workshop will discuss current work in all aspects of data stream analysis: theoretical issues, including modeling; practical issues, including work on existing systems; and bridges and bottlenecks, both current and potential, between theory and practice. The goal of the workshop and the ensuing working group is to foster interdisciplinary collaborations among researchers studying data streams from many disparate perspectives and application areas.

**Contact:** A. Buchsbaum, AT&T Labs-Research, [alb@research.att.com](mailto:alb@research.att.com).

**Local Arrangements:** J. Herold, DIMACS Center, [jessicah@dimacs.rutgers.edu](mailto:jessicah@dimacs.rutgers.edu), 732-445-5928.

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

- \* 12–15 **Short Course on Finite Volume Methods for Free-Surface Shallow Flows (with Applications to Environmental Problems)**, San Francisco, California.

**Organizers:** Numeritek Limited UK.

**Lecturer:** E. F. Toro.

**Information:** Visit <http://www.numeritek.com/>; e-mail: [courses@numeritek.com](mailto:courses@numeritek.com).

- \* 19–22 **Short Course on Finite Volume Methods for Compressible Flow**, San Francisco, California.

**Organizer:** Numeritek Limited, UK.

**Lecturer:** E. F. Toro.

**Information:** Visit <http://www.numeritek.com/>; e-mail: [courses@numeritek.com](mailto:courses@numeritek.com).

### December 2001

---

- \* 2–4 **DIMACS-CTS (Chiaotung University) Conference on the Interconnections among Codes, Designs, Graphs and Molecular Biology**, Center of Theoretical Science, Chiaotung University, Hsinchu, Taiwan.

**Sponsors:** DIMACS Center, Rutgers University; and Chiaotung University.

**Organizers:** F. Hwang, Chiaotung Univ.; F. Roberts, DIMACS, Rutgers Univ.; D. Torney, Los Alamos National Labs.

**Deadlines:** If you are interested in giving a talk, please submit a short abstract (maximum two pages) by October 10, 2001. Abstracts should be submitted via e-mail to any one of the organizers. Notification will be made on November 1, 2001.

**Contacts:** F. Hwang, Chiaotung Univ., [fhwang@math.nctu.edu.tw](mailto:fhwang@math.nctu.edu.tw); F. Roberts, DIMACS, Rutgers Univ., [froberts@dimacs.rutgers.edu](mailto:froberts@dimacs.rutgers.edu); D. Torney, Los Alamos National Labs, [dct@lanl.gov](mailto:dct@lanl.gov).

**Local Arrangements:** J. Herold, DIMACS Center, [jessicah@dimacs.rutgers.edu](mailto:jessicah@dimacs.rutgers.edu), 732-445-5928.

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

- \* 14–20 **School on Quantum Markov Chains**, Grand Hotel Bellavista, Levico, Terme (Trento), Italy.

**Scientific Organizers:** L. Accardi (Roma II) and T. Matsui (Fukuoka).

**Deadline for Applications:** September 30, 2001.

**Information:** A. Micheletti, Secretary of CIRM, Centro Internazionale per la Ricerca Matematica, Istituto Trentino di Cultura, 38050 Povo (Trento); tel: +39-0461-881628; telefax: +39-0461-810629; e-mail: [michelet@science.unitn.it](mailto:michelet@science.unitn.it); <http://www.science.unitn.it/cirm/>.

### January 2002

---

- \* 7–12 **School on Stochastic Partial Differential Equations and Applications–VI**, Grand Hotel Bellavista, Levico, Terme (Trento), Italy.

**Scientific Committee:** G. DaPrato (S.N.S. Pisa), D. Nualart (Barcelona), E. Pardoux (Marseille), M. Roeckner (Bielefeld), and L. Tubaro (Trento).

**Information:** A. Micheletti, Secretary of CIRM, Centro Internazionale per la Ricerca Matematica, Istituto Trentino di Cultura, 38050 Povo (Trento); tel: +39-0461-881628; telefax: +39-0461-810629; e-mail: [michelet@science.unitn.it](mailto:michelet@science.unitn.it); <http://www.science.unitn.it/cirm/>.

- \* 21–28 **Winter School on Computations in Coxeter Groups**, Centre de Recherches Mathématiques (CRM), Université de Montréal, Montréal (Québec), Canada.

**Organizers:** W. Casselman (UBC), R. Bédard (UQAM), F. Du Cloux (Lyon I).

**Description:** These short courses are designed to show how techniques from computer algebra can be applied to effective computation in Coxeter groups.

**Information:** Those wishing to participate in the above activities are invited to write to: L. Pelletier, Centre de Recherches Mathématiques (CRM), Université de Montréal, C.P. 6128, Succ. Centre-ville, Montréal, (Québec), Canada H3C3J7; e-mail: [ACTIVITES@CRM.UMontreal.CA](mailto:ACTIVITES@CRM.UMontreal.CA); or visit <http://www.CRM.UMontreal.CA/geometry/>.

### February 2002

---

- \* 27–March 3 **Group Actions on Rational Varieties**, Centre de Recherches Mathématiques (CRM), Université d Montréal, Montréal (Québec), Canada.

**Organizer:** P. Russell (McGill).

**Focus:** The workshop will focus on recent developments in automorphisms of affine spaces and related algebraic varieties with simple topology, in particular exotic affine spaces (algebraic varieties homeomorphic to an affine space).

**Participants:** T. Asanuma (Toyama), T. Bandman (Bar-Ilan), D. Daigle (Ottawa), A. Van den Essen (Nijmegen), G. Freudentburg (Southern Indiana), M. Gizatullin (UTFSM), R. Gurjar (Tata), I. Dolgachev (Michigan), J. Winkelmann (Bochum), S. Kaliman (Miami), K. Masuda (Himeji), F. Knop (Rutgers), M. Koras, H. Kraft (Basel), L. Makar-Limanov (Wayne State), L. Moser-Jauslin (Bourgogne), M. Miyanishi (Osaka), P. Cassou-Nogues (Bordeaux), V. Popov (MIEM), A. Sathaye (Kentucky), G. Schwarz (Brandeis), D. Wright, M. Zaidenberg (Grenoble), D. Zhang (Singapore).

**Information:** Those wishing to participate in the above activities are invited to write to: L. Pelletier, Centre de Recherches Mathématiques (CRM), Université de Montréal, C.P. 6128, Succ. Centre-ville, Montréal, (Québec), Canada H3C3J7; e-mail: [ACTIVITES@CRM.UMontreal.CA](mailto:ACTIVITES@CRM.UMontreal.CA); or visit <http://www.CRM.UMontreal.CA/geometry/>.

### March 2002

\* 21–23 **Spring Topology and Dynamics Conference**, University of Texas, Austin, Texas.

**Program:** The areas covered will include set-theoretic topology, continuum theory, dynamical systems, geometric topology, and geometric group theory. The program will include both invited and contributed talks.

**Organizing Committee:** C. Gordon, J. Luecke, A. Reid.

\* 26–30 **The 2002 UAB International Conference on Differential Equations and Mathematical Physics**, University of Alabama at Birmingham, Birmingham, Alabama.

**Program:** Topics in the general area of linear and nonlinear differential equations and their relation to mathematical physics will be emphasized. This will include topics such as the analysis of Schrödinger operators, quantum electrodynamics, fluid dynamics, conservation laws, evolution equations, spectral and scattering theory including inverse problems, wave transport in disordered media, dynamical systems, as well as related topics.

**Organizing Committee:** Y. Karpeshina, G. Stolz, R. Weikard, Y. Zeng.

**Plenary Speakers:** M. Aizenman, Princeton Univ.; J. Fröhlich, ETH, Zürich; F. Gesztesy, Univ. of Missouri; J. Glimm, SUNY at Stony Brook; S. Jitomirskaya, UC Irvine; A. Laptev, KTH, Stockholm; J. Lebowitz, Rutgers Univ.; E. Lieb, Princeton Univ.; T.-P. Liu, Stanford Univ. and Academia Sinica (Taiwan); J. Sjöstrand, École Polytechnique, Paris; R. Weder, UNAM, Mexico City.

**Special Sessions (organizer in parentheses):** Conservation Laws (G.-Q. Chen, Northwestern Univ.); Dynamics and Mathematical Physics (N. Simanyi, UAB); Incompressible Flow (S. Friedlander, Univ. of Illinois at Chicago); Inverse Problems (J. McLaughlin, Rensselaer); Quantum Mechanics and Spectral Theory (G. M. Graf, ETH, Zürich); Spectral Problems in Solid State Physics (P. Kuchment, Wichita).

**Information:** <http://www.math.uab.edu/uab02/>.

### April 2002

\* 8–19 **Invariant Theory**, Queen's University, Kingston, Ontario.

**Organizers:** D. Wehlau (Queen's), E. Campbell (Queen's).

**Description:** The first week will be devoted to introductory lectures aimed at graduate students by P. Fleischmann (Kent), H. Kraft (Basel), G. W. Schwarz (Brandeis), and H. Derksen (MIT). The second week will be devoted to a workshop on invariant theory.

**Other Invited Speakers:** M. Brion, B. Broer, C. De Concini, L. Helminck, M. Hunziker, G. Kemper, N. Kechagias, F. Knop, P. Littelmann, L. Moser-Jauslin, V. Popov, Y. Sanderson, R. J. Shank, N. Thiery, W. van der Kallen, E. Vinberg.

**Information:** Those wishing to participate in the above activities are invited to write to: L. Pelletier, Centre de Recherches Mathématiques (CRM), Université de Montréal, C.P. 6128, Succ. Centre-ville, Montréal, (Québec), Canada H3C3J7; e-mail: [ACTIVITES@CRM.UMontreal.CA](mailto:ACTIVITES@CRM.UMontreal.CA); or visit <http://www.CRM.UMontreal.CA/geometry/>.

\* 30–May 17 **Concentration Period on the Langlands Programme for Function Fields**, Centre de Recherches Mathématiques (CRM),

Université d Montréal, Montréal (Québec), Canada.

**Organizers:** H. Darmon (McGill), J. Hurtubise (CRM).

**Description:** A three-week extended workshop, with the first two weeks devoted to survey lectures for graduate students: Week 1: Survey lectures on preliminary material: stacks, chtoucas, perverse sheaves and D-modules, opers. Lectures by D. Ben Zvi (Chicago), D. Goss (Ohio State), A. Polishchuk (Boston), Ch. Sorger (Nantes), K. Vilonen (Northwestern). Week 2: Aisenstadt lectures given by L. Lafforgue (IHES) and E. Frenkel (Berkeley) covering recent results in the Langlands programme over function fields, in both characteristic 0 and characteristic p. During the first two weeks, R. Langlands will also give a series of lectures. Week 3: A conference, celebrating Robert Langlands' 65th birthday. The concentration period is to be followed by the 2002 Canadian Number Theory Association conference.

**Information:** Those wishing to participate in the above activities are invited to write to: L. Pelletier, Centre de Recherches Mathématiques (CRM), Université de Montréal, C.P. 6128, Succ. Centre-ville, Montréal, (Québec), Canada H3C3J7; e-mail: [ACTIVITES@CRM.UMontreal.CA](mailto:ACTIVITES@CRM.UMontreal.CA); or visit <http://www.CRM.UMontreal.CA/geometry/>.

### May 2002

\* 20–25 **6th International Conference on Clifford Algebras and Their Applications in Mathematical Physics**, Tennessee Technological University, Cookeville, Tennessee.

**Description:** This is a continuation of a 16-year-old sequence of international conferences devoted to the mathematical aspects of Clifford algebras and their varied applications in mathematical physics, cybernetics, robotics, image processing and engineering.

**Information:** See <http://math.tntech.edu/rafal/cookeville/cookeville.html>, or contact the organizers: R. Ablamowicz, [rablamowicz@tntech.edu](mailto:rablamowicz@tntech.edu); Dept. of Math., Box 5054, Tennessee Technological Univ., Cookeville, TN 38505; tel 931-372-3441, 372-3569; fax: 931-372-6353; home page: <http://math.tntech.edu/rafal/>; and J. Ryan, [jryan@comp.uark.edu](mailto:jryan@comp.uark.edu); Dept. of Math., Univ. of Arkansas, Fayetteville, AR 72701; tel: 501-575-6334; fax: 501-575-8630; home page: <http://comp.uark.edu/~jryan/>.

\* 24–27 **The Fourth International Conference on "Dynamical Systems and Differential Equations"**, University of North Carolina at Wilmington, Wilmington, North Carolina.

**Format:** Plenary invited one-hour lectures, minisymposia (45-minute talks), special sessions (30-minute talks), and contributed sessions (20-minute talks).

**Invited Speakers:** M. Ghil, A. Giorgilli, T. Hou, H. Matano, W.-M. Ni, H. Othmer, C. V. Pao, N. S. Papageorgiou, P. Rabinowitz, M. Viana.

**Topics:** Analysis, applied analysis, differential equations and dynamical systems, in the broadest sense. Applications to real-world problems, including chemical, physical, and life sciences, in the forms of mathematical modeling and computations.

**Call for Papers:** Contributed papers are invited. Abstracts must be submitted by February 15, 2002, to X. Lu, Chair of Local Organizing Committee, Dept. of Mathematics & Statistics, Univ. of North Carolina at Wilmington, Wilmington, NC 28403. If you are interested in organizing a special session for the conference, please contact: S. Hu ([shh209f@smsu.edu](mailto:shh209f@smsu.edu)), Dept. of Math., Southwest Missouri State Univ., Springfield, MO 65804.

**Deadlines:** Abstracts: February 15, 2002; Preregistration: March 15, 2002 (both form and fees).

**Information:** Contact: X. Lu ([lux@uncwil.edu](mailto:lux@uncwil.edu)); tel: 910-962-3673; fax: 910-962-7107, Dept. of Math. & Stat., Univ. of North Carolina at Wilmington, Wilmington, NC 28403. Or visit <http://www.uncwil.edu/mathconf/> for more detailed and regularly updated information (such as travel, hotel, abstract submission, proceedings, etc.) and downloadable registration forms.

\* 27–June 10 **Computational Lie Theory**, Centre de Recherches Mathématiques (CRM), Université d Montréal, Montréal (Québec), Canada.

**Organizers:** W. Casselman (UBC) and F. Knop (Rutgers).

**Focus:** This extended workshop is aimed at researchers interested in explicit computations in Lie theory, in particular Coxeter groups. In addition to the usual talks, there will also be several series of survey lectures suitable for graduate students by M. Brion (Grenoble), M. Geck (Lyon), F. Knop (Rutgers), P. Littelmann (Wuppertal), G. Olshanskii (IITP), and J. Stembridge (Michigan), G. Lusztig (MIT) will be delivering some of his Aisenstadt lectures during the period of the conference.

**Invited Participants:** D. L. Alvis (Indiana), A. A. Klyachko (Bilkent), R. Bédard (UQAM), R. Bezrukavnikov (Chicago), S. Billey (MIT), M. Brion (Joseph Fourier), I. Cherednik (North Carolina), F. du Cloux (Lyon I), M. J. Dyer (Notre Dame), W. Fulton (Michigan), M. Geck (Lyon), M. Haiman (North California, San Diego), G. J. Heckman (Nijmegen), A. G. Helminck (Carolina), F. Knop (Rutgers), S. Kumar (North Carolina at Chapel Hill), P. Littelmann (Bergische), R. MacPherson (IAS), J. McKay (Concordia), M. Noumi (Kobe), A. Okounkov (California, Berkeley), G. Olshanski (Moscow), E. M. Opdam (Amsterdam), A. Ram (Wisconsin), Y. B. Sanderson (William Paterson), T. A. Springer (Utrecht), J. R. Stembridge (Michigan), B. Sturmfels (California, Berkeley), P. Trapa (Harvard), J. F. van Diejen (Chile), M. van Leeuwen (Poitiers), D. A. Vogan Jr. (MIT), N. R. Wallach (California, San Diego), G. S. Warrington (Harvard), A. Zelevinski (Northeastern).

**Information:** Those wishing to participate in the above activities are invited to write to: L. Pelletier, Centre de Recherches Mathématiques (CRM), Université de Montréal, C.P. 6128, Succ. Centre-ville, Montréal, (Québec), Canada H3C3J7; e-mail: [ACTIVITES@CRM.UMontreal.CA](mailto:ACTIVITES@CRM.UMontreal.CA); or visit <http://www.CRM.UMontreal.CA/geometry/>.

---

### June 2002

\* 10–15 **Algebraic Transformation Groups**, Centre de Recherches Mathématiques (CRM), Université de Montréal, Montréal (Québec), Canada.

**Organizers:** A. Broer (Montréal) and J. Carrell (UBC).

**Description:** The purpose of the meeting is to bring together experts in algebraic groups, algebraic geometry, representation theory and related areas, especially those touching on: geometric methods in representation theory using tools like equivariant cohomology and perverse sheaves, the Hilbert scheme of points on a surface and its connection with the  $n!$ -conjecture in algebraic combinatorics, equivariant versions of cohomology and Chow groups related to flag manifolds and Schubert varieties, quantum cohomology and Schubert calculus.

**Participants:** A. Bertram (Utah), M. Brion (Grenoble), C. De Concini (Rome), W. Fulton (Michigan), V. Ginzburg (Chicago), M. Haiman (UCSD), M. Kapranov (Toronto), A. Knutson (Berkeley), B. Kostant (MIT), S. Kumar (North Carolina), L. Manivel (Grenoble), E. Meinrenken (Toronto), I. Mirkovic (Massachusetts), H. Nakajima (Kyoto), D. Peterson (UBC), C. Procesi (Rome), E. Vasserot (Cergy-Pontoise), C. Woodward (Rutgers).

**Information:** Those wishing to participate in the above activities are invited to write to: L. Pelletier, Centre de Recherches Mathématiques (CRM), Université de Montréal, C.P. 6128, Succ. Centre-ville, Montréal, (Québec), Canada H3C3J7; e-mail: [ACTIVITES@CRM.UMontreal.CA](mailto:ACTIVITES@CRM.UMontreal.CA); or visit <http://www.CRM.UMontreal.CA/geometry/>.

\* 30–July 14 **5th Summer School/Conference: Let's Face Chaos through Nonlinear Dynamics**, Maribor, Slovenia.

**Program:** Nonlinear dynamics, synergetics, physics of complex systems in pure and applied sciences, including pure and applied mathematics, theoretical and experimental physics, biophysics and physiology, chemistry, astrophysics, econophysics, technology and engineering, and even sociology.

**Organizers:** M. Robnik, G. Casati, P. Cvitanovic, S. Grossmann, H. Haken, T. Bountis, H. Hasegawa, J.-L. Pichard, T. Prosen, A. Stefanovska.

**Information:** <http://www.camtp.uni-mb.si/chaos/2002/>.

the criteria in the next to the last paragraph at the bottom of the first page of this section are met.

---

### August 2002

\* 20–28 **Satellite Conferences for ICM 2002**, Beijing, China.

**Information:** <http://www.icm2002.org.cn/satellite/index.html>.

---

The following new announcements will not be repeated until