

## **List of conference titles and organizing committees of 2000-2006 AMS-IMS-SIAM Summer Research Conferences**

Conferences run five days unless noted otherwise.

**2006:**

### ***Representations of Real Reductive Lie Groups***

James Arthur, University of Toronto  
Wilfried Schmid (cochair), Harvard University  
Peter Trapa (cochair), University of Utah

### ***Integer Points in Polyhedra -- Geometry, Number Theory, Representation Theory, Algebra, Optimization, Statistics***

Matthias Beck (co-chair), San Francisco State University  
Christian Haase (co-chair), Freie Universität Berlin  
Bruce Reznick, University of Illinois, Urbana-Champaign  
Michele Vergne, Ecole Polytechnique Paris  
Volkmar Welker, Philipps-Universität Marburg  
Ruriko Yoshida, Duke University

### ***Discrete and Computational Geometry – Twenty Years Later***

Jacob E. Goodman, City College, CUNY  
Janos Pach, City College; Courant Institute; Renyi Institute  
Richard Pollack, Courant Institute, NYU)

### ***Machine and Statistical Learning: Prediction and Discovery***

Joseph Verducci, Ohio State University  
Xiaotong Shen, University of Minnesota  
John Lafferty, Carnegie Mellon University

**2005:**

***Quantum Topology - Contemporary Issues and Perspectives***

Louis H. Kauffman (co-chair), University of Illinois at Chicago  
Jozef H. Przytycki (co-chair), George Washington University  
Fernando J. O. Souza (co-chair), University of Iowa

***Mathematical Modeling of Novel Optical Materials and Devices***

Peter Kuchment, Texas A&M University  
Leonid Kunyansky, University of Arizona  
Shari Moskow, University of Florida  
Fadil Santosa, University of Minnesota

***Quantum Graphs and Their Applications***

Gregory Berkolaiko, Texas A&M University  
Robert Carlson, University of Colorado, Colorado Springs  
Stephen Fulling, Texas A&M University  
Peter Kuchment (Chair), Texas A&M University

***Summer School in Commutative Algebra: Local Cohomology and Its Applications*** (two weeks)

Anurag K. Singh, Georgia Institute of Technology  
Uli Walther, Purdue University

***Control Methods in PDE-Dynamical Systems***

Fabio Ancona, University of Bologna  
Irena Lasiecka, University of Virginia  
Walter Littman, University of Minnesota  
Roberto Triggiani, University of Virginia

***Competitive Mathematical Models of Disease Dynamics: Emerging Paradigms and Challenges***

Carlos Castillo-Chavez, Arizona State University  
Dominic P. Clemence (co-chair), North Carolina A&T State University  
Abba B. Gumel (co-chair), University of Manitoba  
Trachette Jackson (co-chair), University of Michigan  
Ronald E. Mickens, Clark-Atlanta University

**2004:**

***String Geometry***

Katrin Becker, University of Utah  
Melanie Becker, University of Maryland  
Aaron Bertram, University of Utah  
Paul Green, University of Maryland  
Benjamin McKay, University of Utah

***Complex Dynamics: Twenty-Five Years after the Appearance of the Mandelbrot Set***

Eric Bedford, Indiana University  
Brodil Branner, Technical University of Denmark  
Robert L. Devaney (Co-chair), Boston University  
Linda Keen (Co-chair), CUNY, Herbert H. Lehman College  
Mikhail Lyubick, SUNY, Stony Brook

***Algebraic Geometry: Presentations by Young Researchers***

Herb Clemens, Ohio State University  
Rob Lazarsfeld, University of Michigan  
Ravi Vakil, Stanford University

***Representations of Algebraic Groups, Quantum Groups, and Lie Algebras***

Brian J. Parshall (chair), University of Virginia  
Georgia Benkart, University of Wisconsin, Madison  
Jens C. Jantzen, Aarhus University, Denmark  
Zongzhu Lin, Kansas State University  
Daniel K. Nakano, University of Georgia

***Gaussian Measure and Geometric Convexity*** (six days)

Keith Ball, University College London  
Vitali Milman, Tel Aviv University  
Alain Pajor, University of Marne-la-Vallee  
Rolf Schneider, University of Freiburg  
Rick Vitale (chair), University of Connecticut  
Wolfgang Weil, University of Karlsruhe

**2003:**

***Spectral Theory and Inverse Spectral Theory for Jacobi Operators***

Kenneth T.-R. McLaughlin, University of North Carolina, Chapel Hill  
Xin Zhou, Duke University

***Machine Learning, Statistics and Discoveries***

John D. Lafferty, Carnegie-Mellon University  
Xiaotong Shen, Ohio State University  
Joseph S. Verducci, Ohio State University

***Mathematics of Finance***

Wendell H. Fleming, Brown University  
Jean-Pierre Fouque, North Carolina State University  
Bozenna Pasik-Duncan, University of Kansas  
Stan R. Pliska, University of Illinois at Chicago  
K. Ronnie Sircar, Princeton University  
George Yin (Chair), Wayne State University  
Qing Zhang (Co-chair), University of Georgia

***Hydrodynamic Stability and Flow Control***

Peter J. Schmid, University of Washington  
James J. Riley, University of Washington

***Integer Points in Polyhedra, Geometry, Number Theory, Algebra, Optimization***

Alexander Barvinok, University of Michigan  
Matthias Beck (Co-chair), SUNY Binghamton  
Christian Haase (Co-chair), Duke University  
Bruce Reznick, University of Illinois, Urbana-Champaign  
Michele Vergne, Ecole Polytechnique Paris  
Volkmar Welker, Philipps-Universitat Marburg

***Commutative Algebra: Presentations by Young Researchers***

Jurgen Herzog, Universitat Essen  
Craig Huneke, University of Kansas  
Roger L. Wiegand, University of Nebraska

**2002:**

***Groups, Representations and Cohomology*** (Seven days)

Alejandro Adem (Co-chair), University of Wisconsin, Madison  
Jon Carlson (Co-chair), University of Georgia  
Geoff Mason, University of California, Santa Cruz  
Brian Parshall, University of Virginia  
Stephen Smith, University of Illinois at Chicago  
Sarah Witherspoon, University of Massachusetts

***Advances in Quantum Dynamics***

B. Mitchell Baker, US Naval Academy  
Palle E.T. Jorgensen, University of Iowa  
Paul S. Muhly, University of Iowa  
Geoffrey L. Price, US Naval Academy

***Waves in Periodic and Random Media***

David Dobson, Texas A&M University  
Alex Figotin, University of California, Irvine  
Peter Kuchment (Co-chair), Texas A&M University  
Stephanos Venakides (Co-chair), Duke University

***Graph Coloring and Symmetry***

Karen Collins, Wesleyan University  
Danny Krizanc, Wesleyan University  
Alexander C. Russell, University of Connecticut

***Emerging Issues in Longitudinal Data Analysis***

Jane-Ling Wang, University of California, Davis  
Marie Davidian, North Carolina State University  
Xihong Lin, University of Michigan

**2001:**

***Statistics in Functional Genomics***

Francoise Sillier-Moiseiwitsch (Chair), University of North Carolina, Chapel Hill  
Richard Simon, National Cancer Institute, NIH  
Kay Tatsuoka, GlaxoSmithKline Pharmaceuticals

***Fluid Flow and Transport in Porous Media: Mathematical and Numerical Treatment***

Zhangxin (John) Chen (Co-chair), Southern Methodist University  
Richard Ewing (Co-chair), Texas A&M University  
Jose Lage, Southern Methodist University  
Raytcho Lazarov, Texas A&M University

***The Legacy of Inverse Scattering Transform in Nonlinear Wave Propagation***

Jerry Bona, University of Texas at Austin  
D.J. Kaup, Clarkson University  
S. Roy Choudhury, University of Central Florida

***Harmonic Analysis*** (two weeks)

William Beckner, University of Texas at Austin  
Alexander Nagel, University of Wisconsin, Madison  
Andreas Seeger, University of Wisconsin, Madison  
Hart Smith, University of Washington

***Lusternik-Schnirelmann Category in the New Millennium***

Octav Cornea, Universite de Lille  
Gregory Lupton, Cleveland State University  
John Oprea, Cleveland State University  
Daniel Tanre, Universite de Lille

***Fast Algorithms in Mathematics, Computer Science and Engineering***

Franklin Luk, Rensselaer Polytechnic Institute  
Volker Mehrmann, TU Chemnitz  
Vadim Olshevesky (Chair) Georgia State University  
Robert Plemmons, North Carolina State University

**2000:**

***Symbolic Computation: Solving Equations in Algebra, Geometry and Engineering***

Edward Green, Virginia Tech  
Serkan Hosten, Georgia Mason University  
Reinhard Laubenbacher, New Mexico State University  
Victoria Powers, Emory University

***Dispersive Wave Turbulence***

Paul Milewski, University of Wisconsin  
Leslie Smith, University of Wisconsin  
Esteban Tabak, New York University  
Fabian Waleffe, University of Wisconsin

***Radon Transforms and Tomography***

Leon Ehrenpreis, Temple University  
Adel Faridani, Oregon State University  
Fulton B. Gonzalez, Tufts University  
Eric L. Grinberg, Temple University  
Eric Todd Quinto (Chair), Tufts University

***Noncommutative Geometry*** (two weeks)

Alain Connes (Chair), IHES  
Nigel Higson, Penn State University  
John Roe, Penn State University  
Guoliang Yu, University of Colorado

***Bayes Frequentist and Likelihood Inference: A Synthesis***

Gauri Sankar Datta (Co-chair), University of Georgia  
Nancy Reid (Co-chair), University of Toronto  
Dongchu Sun (Co-chair), University of Missouri  
James Berger, Duke University  
Malay Ghosh, University of Florida  
Elizabeth Slate, Cornell University

***Algorithms, Computational Complexity and Models of Computation for Nonlinear and Multivariate Problems***

Eugene Allgower, Colorado State University  
Kurt Georg, Colorado State University  
Christopher Sikorski (Chair), University of Utah  
Frank Stenger, University of Utah