

Meetings & Conferences of the AMS

IMPORTANT INFORMATION REGARDING MEETINGS PROGRAMS: AMS Sectional Meeting programs do not appear in the print version of the *Notices*. However, comprehensive and continually updated meeting and program information with links to the abstract for each talk can be found on the AMS website. See <http://www.ams.org/meetings/>. Programs and abstracts will continue to be displayed on the AMS website in the Meetings and Conferences section until about three weeks after the meeting is over. Final programs for Sectional Meetings will be archived on the AMS website in an electronic issue of the *Notices* as noted below for each meeting.

Orlando, Florida

University of Central Florida

November 9–10, 2002

Meeting #982

Southeastern Section

Associate secretary: John L. Bryant

Announcement issue of *Notices*: September 2002

Program first available on AMS website: September 26, 2002

Program issue of electronic *Notices*: November 2002

Issue of *Abstracts*: Volume 23, Issue 4

Deadlines

For organizers: Expired

For consideration of contributed papers in Special Sessions:
Expired

For abstracts: Expired

Invited Addresses

Steven J. Cox, Rice University, *Decoding the dance of your dendritic spines*.

James Haglund, University of Pennsylvania, *The q, t -Catalan numbers and the space of diagonal harmonics*.

Marius Mitrea, University of Missouri-Columbia, *Elliptic and parabolic boundary problems in Sobolev-Besov spaces on nonsmooth domains*.

Ricardo H. Nochetto, University of Maryland, College Park, *Basic principles for convergence of adaptive finite element methods and applications to the Stokes problem*.

Special Sessions

Algebraic and Enumerative Combinatorics, **James Haglund**, University of Pennsylvania, and **Jeff B. Remmel**, University of California San Diego.

Asymptotics of Integrable Partial Differential Equations, Riemann-Hilbert Problem and Related Topics, **Ken T. R. McLaughlin**, University of North Carolina at Chapel Hill and University of Arizona, and **Alexander Tovbis**, University of Central Florida.

Commutative Algebra, **Heath M. Martin**, University of Central Florida, and **Stephanie A. Fitchett**, Florida Atlantic University.

Computational Mathematics, **Ricardo H. Nochetto**, University of Maryland, and **Bernardo Cockburn**, University of Minnesota.

Computational Methods in Analysis, **George A. Anastassiou**, University of Memphis.

Financial Mathematics, **Craig A. Nolder** and **Alec N. Kercheval**, Florida State University.

Function Spaces, Singular Integrals and Applications to PDEs, **Marius Mitrea** and **Dorina Mitrea**, University of Missouri-Columbia.

Functional and Harmonic Analysis of Wavelets, Frames and Their Applications, **Deguang Han**, University of Central Florida, and **Manos I. Papadakis**, University of Houston.

Graph Theory, **Robert C. Brigham**, University of Central Florida, **Cun-Quan Zhang**, West Virginia University, and **Yue Zhao**, University of Central Florida.

Homotopy Theory and Geometric Topology, **Alexander N. Dranishnikov**, **James E. Keesling**, and **Yuli B. Rudyak**, University of Florida.

Invariants of Knots and Low-Dimensional Manifolds, **J. Scott Carter**, University of South Alabama, and **Masahico Saito**, University of South Florida.

The Likelihood Inferences in Statistics, **Jian-Jian Ren**, University of Central Florida.

Mathematical Neuroscience, **Steve J. Cox**, Rice University, and **Richard Bertram**, Florida State University.

Nonlinear Waves, **Min Chen**, Purdue University, and **Roy Choudhury** and **David J. Kaup**, University of Central Florida.

Baltimore, Maryland

Baltimore Convention Center

January 15–18, 2003

Meeting #983

Joint Mathematics Meetings, including the 109th Annual Meeting of the AMS, 86th Annual Meeting of the Mathematical Association of America (MAA), annual meetings of the Association for Women in Mathematics (AWM) and the National Association of Mathematicians (NAM), the winter meeting of the Association for Symbolic Logic (ASL), with sessions contributed by the Society for Industrial and Applied Mathematics (SIAM).

Associate secretary: Susan J. Friedlander

Announcement issue of *Notices*: October 2002

Program first available on AMS website: November 1, 2002

Program issue of electronic *Notices*: January 2003

Issue of *Abstracts*: Volume 24, Issue 1

Deadlines

For organizers: Expired

For consideration of contributed papers in Special Sessions:
Expired

For abstracts: Expired

For summaries of papers to MAA organizers: Expired

AMS Program Updates

Graphic Depiction of Mathematics: Tips for Minimizing Hassles with Your Publisher, Thursday, 1:00 p.m. to 2:30 p.m., presented by **Stephen Moye** and **Tom Kacvinsky**, AMS. “Dear Author: Your paper is accepted for publication. but there are problems with your graphics.” Have you ever received a note like this? Feeling discouraged? Then join the AMS experts for a session on how to prepare graphics for your publisher. Graphics, often an essential part of a document devoted to mathematics, are also the element of the publishing process most prone to headaches and hassles for authors and publishers alike. In this session we will talk about good practices for the creation of graphics and discuss commonly available software that can considerably ease the process of creating graphics. This presentation offers tips and information to avert problems before they happen, thus facilitating the publishing process for you and the publisher.

MAA Program Updates

Knowledge for Teaching Algebra: Issues from *The Mathematical Education of Teachers*, Wednesday, 9:00 a.m. to 10:20 a.m., organized by **Joan Ferrini-Mundy**, Michigan State University. The question of what mathematics teachers need to know for teaching is of interest to mathematicians, teacher-educators, those who are involved in the professional development of teachers, and researchers who study teacher education. The 2001 *CBMS Mathematical Education of Teachers Report* makes recommendations about the mathematics that teachers need for teaching. In this session we will focus on the mathematical preparation of teachers of secondary school mathematics, using the MET document as a framework for discussing issues in research, teacher education, and instructional materials for teachers. Panelists will discuss recent work in the MSU-based, NSF-funded Study of Algebra Knowledge for Teaching and the High School Mathematics from an Advanced Standpoint project, funded by the Stuart Foundation, in relationship to the MET report. We will focus specifically on issues concerning the education of teachers for teaching secondary school algebra. The panelists will include **Daniel Chazan**, University of Maryland; **Anthony L. Peressini**, University of Illinois at Urbana-Champaign; and **Joan Ferrini-Mundy**. The panel will be moderated by **Gail F. Burrill**, Michigan State University; **William G. McCallum**, University of Arizona, will serve as discussant.

Organizational Reception for the Proposed WEBSIG-MAA, Wednesday, 7:00 p.m. to 8:15 p.m. This Special Interest Group will focus on the use of the World Wide Web for undergraduate mathematics instruction, whether for distance learning or as an adjunct to a traditional course. The reception will provide an opportunity for the organizers and potential members to meet each other and discuss plans for the group.

SIGMAA on Environmental Mathematics, Thursday, 5:45 p.m. to 7:15 p.m. This MAA Special Interest Group will hold its inaugural reception, including a talk by **William Rundell**, the new director of NSF’s Division of Mathematical Sciences. If you have an interest in helping with the educational challenge of fusing together the most pressing problems of our time with the most potent technology of our time, please join us on Thursday evening.

Interdisciplinary Business Mathematics, Friday, 9:00 a.m. to 10:55 a.m., 1:00 p.m. to 3:00 p.m., and 5:00 p.m. to 7:00 p.m., organized by **Richard B. Thompson**, University of Arizona. Electronic texts for a new interdisciplinary program in mathematics for freshman business college majors will be demonstrated. This material, developed at the University of Arizona, is currently used by over 1,200 students in seven institutions. Participants will have an opportunity to engage in hands-on exploration of major business projects with Excel and PowerPoint tools. Richard B. Thompson, coauthor of the course, will preside. This course will be repeated in each of three different time frames for the convenience of participants (it is not a three-part course). Sponsored by the MAA and the University of Arizona.

The Role of Mathematics in the Professional Work of Mathematics Educators, Friday, 1:00 p.m. to 2:20 p.m., organized by **Joan Ferrini-Mundy**, Michigan State University. The professional work of mathematics educators spans many arenas of activity, including the design of instructional materials, the preservice and continuing education of teachers, and research about teaching and learning. In a study supported by the NSF, Developing Leadership for Mathematics and Science Education, a group of researchers at Michigan State University, is examining the roles played by background and preparation, including subject matter experience, in the professional work of educators. This panel discussion will open with a discussion of the issues and considerations that are emerging in this research. Panelists will speak to these issues from the vantage points of their own engagement in teaching prospective teachers of secondary school, developing secondary school instructional materials, and conducting research about the mathematical knowledge entailed in teaching. Commentators will discuss the implications of the panelists' comments for the design of doctoral programs in mathematics education and for the mathematical preparation of mathematics educators. Panelists include **Christian R. Hirsch**, Western Michigan University; **Bradford R. Findell**, University of Georgia; and **Deborah Loewenberg Ball**, University of Michigan. **Gail F. Burrill**, Michigan State University will serve as commentator.

Informal Session on Actuarial Education has been moved from Friday, 5:00 p.m. to 7:00 p.m., to Saturday, 4:15 p.m. to 6:15 p.m.

Other Organizations

The Association for Symbolic Logic will present these invited addresses: **Arthur W. Apter**, Baruch College of the City University of New York, *Some results concerning strong compactness and supercompactness*. **Krzysztof Ciesielski**, West Virginia University, *Set theoretical aspects of the Fubini theorem and separate continuity*. **Lou P. van den Dries**, University of Illinois, Urbana-Champaign, *Lower bounds in arithmetic complexity*. **Jeff L. Hirst**, Appalachian State University, *Hindman's theorem, ultrafilters, and reverse mathematics*. **Bjorn Kjos-Hanssen**, Ruprecht-Karls-Universität Heidelberg, *Initial segments of the Turing degrees with a view toward automorphisms*. **David E. Marker**, University of Illinois at Chicago, *Model theory and differential algebra*. **Timothy H. McNicholl**, University of Dallas, *Automorphisms of the c.e. weak truth-table degrees*. **Rahim Nazim Moosa**, Massachusetts Institute of Technology, *F-structures and semiabelian varieties over finite fields*. **Andrzej Roslanowski**, University of Nebraska at Omaha and University of Northern Iowa, *Proper forcing revisited*.

Summer Program for Women in Mathematics (SPWM) Reunion, Thursday, 2:00 p.m. to 4:00 p.m., organized by **Murli M. Gupta** and **E. Arthur Robinson Jr.**, George Washington University. SPWM program participants will describe their experiences.

Social Events

The Ohio State University Reception for Alumni and Friends, Thursday, 5:45 p.m. to 7:45 p.m.

The University of Wisconsin-Madison Department of Mathematics Reception, Friday, 5:30 p.m. to 7:00 p.m.

Ancillary Conference

Teaching an Introductory Statistics Course Based on Statistical Thinking, Tuesday, 8:30 a.m. to 5:00 p.m., presented by **Roger W. Hoerl** and **G. Rex Bryce**. This course is sponsored by the American Statistical Association. A great deal has been published recently about making fundamental changes to introductory statistics courses. Much of this discussion has centered around focusing more on conceptual understanding of key concepts (statistical thinking) and less on formulas and calculations, which can now be left to the computer. For example, the ASA/MAA Committee on Undergraduate Statistics recommends "...emphasize statistical thinking through active learning with more data and concepts, less theory and fewer recipes." A key barrier to change is that instructors would need to devote considerable time to redesigning introductory courses from scratch, since even the recently revised texts do not go far enough in the transition from calculations to statistical thinking. For example, few include interactive exercises or projects in the text itself or teach how to integrate the tools into an overall process of scientific discovery, provide sequential case studies involving integration of several tools, or stress a dynamic process versus static population context for data. This workshop will present a radically revised course based on statistical thinking, utilizing a new text published by Roger Hoerl and Ron Snee. This text is oriented towards a business context but with augmentation can be used for other contexts as well, such as general statistics. The workshop will also review results and lessons learned from two recent courses at Brigham Young University that used this approach and text. The course fee is \$325. Registration deadline is December 15, 2002. Please see learnstat@amstat.org for information on how to register, or call 703-684-1221.

Baton Rouge, Louisiana

Louisiana State University

March 14–16, 2003

Meeting #984

Southeastern Section

Associate secretary: John L. Bryant

Announcement issue of *Notices*: January 2003

Program first available on AMS website: January 30, 2003

Program issue of electronic *Notices*: March 2003

Issue of *Abstracts*: Volume 24, Issue 2

Deadlines

For organizers: Expired
 For consideration of contributed papers in Special Sessions:
 November 26, 2002
 For abstracts: January 22, 2003

Invited Addresses

Bruce K. Driver, University of California San Diego, *Title to be announced.*
Gunter Lumer, Université de Mons-Hainout, *Title to be announced.*
Barry M. McCoy, SUNY at Stony Brook, *Title to be announced.*
Stephen C. Milne, Ohio State University, *Title to be announced.*

Special Sessions

Algebraic Number Theory and K-Theory (Code: AMS SS A1), **Jurgen Hurrelbrink** and **Jorge F. Morales**, Louisiana State University, and **Robert Osburn**, McMaster University.
Applied Mathematics and Materials Science (Code: AMS SS B1), **Robert Lipton**, **Stephen Shipman**, **Blaise Bourdin**, and **Yuri Antipov**, Louisiana State University.
Arrangements in Topology and Algebraic Geometry (Code: AMS SS C1), **Daniel C. Cohen**, Louisiana State University, and **Alexander I. Suciu**, Northeastern University.
Asymptotic Analysis and Generalized Functions (Code: AMS SS M1), **Ricardo Estrada** and **Frank Neubrander**, Louisiana State University.
Commutative Ring Theory (Code: AMS SS D1), **James B. Coykendall**, North Dakota State University.
Frames, Wavelets, and Tomography (Code: AMS SS E1), **Gestur Olafsson**, Louisiana State University.
Graphs and Matroids (Code: AMS SS F1), **Bogdan S. Oporowski** and **James G. Oxley**, Louisiana State University.
Induced Representations: Connections to Graphs, Number Theory, Geometry (Code: AMS SS G1), **J. William Hoffman**, **Robert V. Perlis**, and **Neal W. Stoltzfus**, Louisiana State University.
Low Dimensional Topology (Code: AMS SS H1), **Oliver T. Dasbach**, **Patrick M. Gilmer**, and **Richard A. Litherland**, Louisiana State University.
Mathematical Techniques in Musical Analysis (Code: AMS SS J1), **Judith L. Baxter**, University of Illinois at Chicago, and **Robert Peck**, Louisiana State University.
Q-Series in Number Theory and Combinatorics (Code: AMS SS N1), **Mourad E. H. Ismail**, University of South Florida, and **Stephen C. Milne**, The Ohio State University.
The Role of Mathematics Departments in Secondary Education (Code: AMS SS P1), **James J. Madden** and **Frank Neubrander**, Louisiana State University.
Stochastic Analysis and Applications (Code: AMS SS K1), **H.-H. Kuo** and **P. Sundar**, Louisiana State University.

Stochastics, Quantization, and Segal-Bargmann Analysis (Code: AMS SS L1), **Bruce K. Driver**, University of California San Diego, **Brian C. Hall**, University of Notre Dame, and **Jeffrey J. Mitchell**, Baylor University.

Bloomington, Indiana

Indiana University

April 4–6, 2003

Meeting #985

Central Section
 Associate secretary: Susan J. Friedlander
 Announcement issue of *Notices*: February 2003
 Program first available on AMS website: February 20, 2003
 Program issue of electronic *Notices*: April 2003
 Issue of *Abstracts*: Volume 24, Issue 2

Deadlines

For organizers: Expired
 For consideration of contributed papers in Special Sessions:
 December 17, 2002
 For abstracts: February 11, 2003

Invited Addresses

Daniel J. Allcock, University of Texas, *Title to be announced.*
Brian D. Conrad, University of Michigan, *Title to be announced.*
Robin A. Pemantle, Ohio State University, *Title to be announced.*
Sijue Wu, University of Maryland, *Title to be announced.*

Special Sessions

Algebraic Topology (Code: AMS SS W1), **Randy McCarthy**, University of Illinois, Urban-Champaign, and **Ayelet Lindenstrauss**, Indiana University.
Applications of Teichmüller Theory to Dynamics and Geometry (Code: AMS SS K1), **Christopher M. Judge** and **Matthias Weber**, Indiana University.
Codimension One Splittings of Manifolds (Code: AMS SS U1), **James F. Davis**, Indiana University, and **Andrew A. Ranicki**, University of Edinburgh.
Cryptography and Computational and Algorithmic Number Theory (Code: AMS SS S1), **Joshua Holden** and **John Rickert**, Rose-Hulman Institute of Technology, **Jonathan Sorenson**, Butler University, and **Andreas Stein**, University of Illinois at Urbana-Champaign.
Differential Geometry (Code: AMS SS L1), **Jiri Dadok**, **Bruce Solomon**, and **Ji-Ping Sha**, Indiana University.
Ergodic Theory and Dynamical Systems (Code: AMS SS A1), **Roger L. Jones** and **Ayşe A. Sahin**, DePaul University.
Extremal Combinatorics (Code: AMS SS R1), **Dhruv Mubayi**, University of Illinois at Chicago, and **Jozef Skokan**, University of Illinois at Urbana-Champaign.

Geometric Topology (Code: AMS SS D1), **Paul A. Kirk** and **Charles Livingston**, Indiana University.

Graph and Design Theory (Code: AMS SS N1), **Atif A. Abueida**, University of Dayton, and **Mike Daven**, Mount Saint Mary College.

Graph Theory (Code: AMS SS Q1), **Tao Jiang**, **Zevi Miller**, and **Dan Pritikin**, Miami University.

Harmonic Analysis in the 21st Century (Code: AMS SS E1), **Winston C. Ou** and **Alberto Torchinsky**, Indiana University.

Holomorphic Dynamics (Code: AMS SS B1), **Eric D. Bedford** and **Kevin M. Pilgrim**, Indiana University.

Mathematical and Computational Problems in Fluid Dynamics and Geophysical Fluid Dynamics (Code: AMS SS H1), **Roger Temam** and **Shouhong Wang**, Indiana University.

Operator Algebras and Free Probability (Code: AMS SS J1), **Hari Bercovici**, Indiana University, and **Marius Dadarlat**, Purdue University.

Operator Algebras and Their Applications (Code: AMS SS T1), **Jerry Kaminker**, Indiana University-Purdue University Indianapolis, and **Ronghui Ji**, Indiana University-Purdue University Indianapolis.

Particle Models and Their Fluid Limits (Code: AMS SS F1), **Robert T. Glassey** and **David C. Hoff**, Indiana University.

Probability (Code: AMS SS G1), **Russell D. Lyons**, Indiana University, and **Robin A. Pemantle**, Ohio State University.

Recent Trend in the Analysis and Computations of Functional Differential Equations (Code: AMS SS M1), **Paul W. Eloe** and **Qin Sheng**, University of Dayton.

Representations of Infinite Dimensional Lie Algebras and Mathematical Physics (Code: AMS SS P1), **Katrina Deane Barron**, University of Notre Dame, and **Rinat Kedem**, University of Illinois, Urbana.

Stochastic Analysis with Applications (Code: AMS SS V1), **Jin Ma** and **Frederi Viens**, Purdue University.

Weak Dependence in Probability and Statistics (Code: AMS SS C1), **Richard C. Bradley** and **Lanh T. Tran**, Indiana University.

New York, New York

Courant Institute

April 12–13, 2003

Meeting #986

Eastern Section

Associate secretary: Lesley M. Sibner

Announcement issue of *Notices*: February 2003

Program first available on AMS website: February 27, 2003

Program issue of electronic *Notices*: April 2003

Issue of *Abstracts*: Volume 24, Issue 3

Deadlines

For organizers: Expired

For consideration of contributed papers in Special Sessions:
December 24, 2002

For abstracts: February 18, 2003

Invited Addresses

Matthias Aschenbrenner, University of California Berkeley, *Title to be announced.*

John Etnyre, University of Pennsylvania, *Title to be announced.*

Hans Foellmer, Humboldt University Berlin, *Title to be announced.*

Wilfrid Gangbo, Georgia Institute of Technology, *Title to be announced.*

Special Sessions

Algebraic and Topological Combinatorics (Code: AMS SS E1), **Eva-Maria Feichtner**, ETH, Zürich, Switzerland; and **Dmitry N. Kozlov**, University of Bern, Switzerland, and KTH, Stockholm, Sweden.

Algebraic Geometry, Integrable Systems, and Gauge Theory (Code: AMS SS C1), **Marcos Jardim** and **Eyal Markman**, University of Massachusetts, Amherst.

Analytical and Computational Methods in Electromagnetics (Code: AMS SS G1), **Alexander P. Stone**, University of New Mexico, and **Peter A. McCoy**, U. S. Naval Academy.

Combinatorial and Statistical Group Theory (Code: AMS SS B1), **Alexei Myasnikov** and **Vladimir Shpilrain**, City College, New York.

Contact and Symplectic Geometry (Code: AMS SS K1), **John B. Etnyre** and **Joshua M. Sabloff**, University of Pennsylvania.

Galois Module Theory and Hopf Algebras (Code: AMS SS F1), **Daniel R. Replegle**, College of Saint Elizabeth, and **Robert G. Underwood**, Auburn University.

The History of Mathematics (Code: AMS SS D1), **Patricia R. Allaire**, Queensborough Community College, CUNY, and **Robert E. Bradley**, Adelphi University.

Hopf Algebras and Quantum Groups (Code: AMS SS A1), **M. Susan Montgomery**, University of Southern California, **Earl J. Taft**, Rutgers University, and **Sarah J. Witherspoon**, Amherst College.

Low-Dimensional Topology (Code: AMS SS M1), **James Conant**, Cornell University, **Slava Krushkal**, University of Virginia, and **Rob Schneiderman**, NYU-Courant Institute.

Nonlinear Partial Differential Equations in Differential Geometry (Code: AMS SS L1), **John C. Loftin** and **Mu-Tao Wang**, Columbia University.

Rigidity in Dynamics, Geometry, and Group Theory (Code: AMS SS J1), **David Fisher**, CUNY, Herbert H. Lehman College, and **Steven E. Hurder** and **Kevin M. Whyte**, University of Illinois at Chicago.

Topological Aspects of Complex Singularities (Code: AMS SS H1), **Sylvain E. Cappell**, NYU-Courant Institute, and

Walter D. Neumann and Agnes Szilard, Barnard College, Columbia University.

San Francisco, California

San Francisco State University

May 3–4, 2003

Meeting #987

Western Section

Associate secretary: Michel L. Lapidus

Announcement issue of *Notices*: March 2003

Program first available on AMS website: March 20, 2003

Program issue of electronic *Notices*: May 2003

Issue of *Abstracts*: Volume 24, Issue 3

Deadlines

For organizers: Expired

For consideration of contributed papers in Special Sessions:
January 14, 2003

For abstracts: March 11, 2003

Invited Addresses

Joe P. Buhler, Reed College, *A problem in symmetric functions arising from phase determination in crystallography.*

Raymond C. Heitmann, University of Texas at Austin, *Title to be announced.*

Alexei Y. Kitaev, California Institute of Technology, *Title to be announced.*

Arkady Vaintrob, University of Oregon, *Title to be announced.*

Special Sessions

Beyond Classical Boundaries of Computability (Code: AMS SS E1), **Mark Burgin**, University of California Los Angeles, and **Peter Wegner**, Brown University.

Combinatorial Commutative Algebra and Algebraic Geometry (Code: AMS SS C1), **Serkan Hosten**, San Francisco State University, and **Ezra Miller**, Mathematical Sciences Research Institute.

Geometry and Arithmetic over Finite Fields (Code: AMS SS G1), **Bjorn Poonen**, University of California Berkeley, and **Joe P. Buhler**, Reed College.

The History of Nineteenth and Twentieth Century Mathematics (Code: AMS SS A1), **Shawnee McMurrin**, California State University, San Bernardino, and **James A. Tattersall**, Providence College.

Q-Series and Partitions (Code: AMS SS B1), **Neville Robbins**, San Francisco State University.

Qualitative Properties and Applications of Functional Equations (Code: AMS SS F1), **Theodore A. Burton**, Southern Illinois University at Carbondale.

Topological Quantum Computation (Code: AMS SS D1), **Alexei Kitaev**, California Institute of Technology, and **Samuel J. Lomonaco**, University of Maryland, Baltimore County.

Seville, Spain

June 18–21, 2003

Meeting #988

First Joint International Meeting between the AMS and the Real Sociedad Matematica Española (RSME).

Associate secretary: Susan J. Friedlander

Announcement issue of *Notices*: To be announced

Program first available on AMS website: Not applicable

Program issue of electronic *Notices*: Not applicable

Issue of *Abstracts*: Not applicable

Deadlines

For organizers: Expired

For consideration of contributed papers in Special Sessions:
To be announced

For abstracts: To be announced

Invited Addresses

Xavier Cabre, Universitat Politècnica de Catalunya, Barcelona, *Title to be announced.*

Charles Fefferman, Princeton University, *Title to be announced.*

Michael Hopkins, Massachusetts Institute of Technology, *Title to be announced.*

Ignacio Sols, Universidad Complutense, Madrid, *Title to be announced.*

Luis Vega, Universidad del País Vasco, Bilbao, *Title to be announced.*

Efim Zelmanov, Yale University, *Title to be announced.*

Special Sessions

Affine Algebraic Geometry, **Jaime Gutierrez**, University of Cantabria, **Vladimir Shpilrain**, City College of New York, and **Jie-Tai Yu**, University of Hong Kong.

Algebraic Geometry, **Felix Delgado**, Universidad de Valladolid, and **Andrey N. Todorov**, University of California Santa Cruz.

Algebraic Topology, **Alejandro Adem**, University of Wisconsin, **J. Aguade**, Universitat Autònoma de Barcelona, and **Eric M. Friedlander**, Northwestern University.

Banach Spaces of Analytic Functions, **Daniel Girela**, University of Malaga, and **Michael Stessin**, SUNY at Albany.

Biomolecular Mathematics, **Thomas J. Head** and **Fernando Guzman**, SUNY at Binghamton, **Mario Perez**, Universidad de Sevilla, and **Carlos Martín-Vide**, Rovira i Virgili University.

Classical and Harmonic Analysis, **Nets Katz**, Washington University, **Carlos Perez**, Universidad de Sevilla, and **Ana Vargas**, Universidad Autónoma de Madrid.

Combinatorics, **Joseph E. Bonin**, George Washington University, and **Marc Noy**, Universitat Politècnica de Catalunya.

Commutative Algebra: Geometric, Homological, Combinatorial and Computational Aspects, **Alberto Corso**, University of Kentucky, **Philippe Gimenez**, Universidad de Valladolid, and **Santiago Zarzuela**, Universitat de Barcelona.

Computational Methods in Algebra and Analysis, **Eduardo Cattani**, University of Massachusetts, Amherst, and **Francisco Jesus Castro-Jimenez**, Universidad de Sevilla.

Constructive Approximation Theory, **Antonio Duran**, Universidad de Sevilla, and **Edward B. Saff**, Vanderbilt University.

Control and Geometric Mechanics, **Manuel de Leon**, Instituto de Matemáticas y Física Fundamental, **Alberto Ibort**, Universidad Carlos III, and **Francesco Bullo**, University of Illinois, Urbana.

Differential Galois Theory, **Teresa Crespo** and **Zbigniew Hajto**, Universitat de Barcelona, and **Andy R. Magid**, University of Oklahoma.

Differential Structures and Homological Methods in Commutative Algebra and Algebraic Geometry, **Gennady Lyubeznik**, University of Minnesota, and **Luis Narvaez-Macarro**, Universidad de Sevilla.

Discrete and Computational Geometry, **Ferran Hertado**, Universitat Politècnica de Catalunya, and **William Steiger**, Rutgers University.

Dynamical Systems, **George Haller**, Massachusetts Institute of Technology, **Zbigniew H. Nitecki**, Tufts University, **Enrique Ponce**, Universidad de Sevilla, **Tere M. Seara**, Universitat Politècnica de Catalunya, and **Xavier Jarque**, Universitat Autònoma de Barcelona.

Effective Analytic Geometry over Complete Fields, **Luis-Miguel Pardos**, Universidad de Cantabria, and **J. Maurice Rojas**, Texas A&M University.

Geometric Methods in Group Theory, **José Burillo**, Universitat Politècnica de Catalunya, **Jennifer Tayback**, University of Albany, and **Enric Ventura**, Universitat Politècnica de Catalunya.

History of Modern Mathematics—Gauss to Wiles, **Jose Ferreiros**, Universidad de Sevilla, and **David Rowe**, Universitat Mainz.

Homological Methods in Banach Space Theory, **Jesus M. F. Castillo**, Universidad de Extremadura, and **N. J. Kalton**, University of Missouri.

Homotopy Algebras, **Pedro Real**, Universidad de Sevilla, **Thomas J. Lada**, North Carolina State University, and **James Stasheff**, University of North Carolina.

Interpolation Theory, Function Spaces and Applications, **Fernando Cobos**, Universidad Complutense de Madrid, and **Pencho Petrushev**, University of South Carolina.

Lorentzian Geometry and Mathematical Relativity, **Luis J. Alias**, Universidad de Murcia, and **Gregory James Galloway**, University of Miami.

Mathematical Aspects of Semiconductor Modeling and Nano-technology, **Irene Martínez Gamba**, University of Texas, Austin, and **Jose Antonio Carrillo**, Universidad de Granada.

Mathematical Fluid Dynamics, **Diego Cordoba**, CSIC, Madrid, and Princeton University, **Susan Friedlander**, University of Illinois, Chicago, and **Marcos Antonio Fontelos**, Universidad Rey Juan Carlos.

Mathematical Methods in Finance and Risk Management, **Santiago Carrillo Menendez**, Universidad Autónoma de Madrid, **Antonio Falcos Montesinos**, Universidad Cardinal Herrera CEU, **Antonio Sanchez-Calle**, Universidad Autónoma de Madrid, and **Luis A. Seco**, University of Toronto at Mississauga.

The Mathematics of Electronmicroscopic Imaging, **Jose-Maria Carazo**, Centro Nacional de Biotecnología-CSIC, and **Gabor T. Herman**, City University of New York.

Moduli Spaces in Geometry and Physics, **Steven B. Bradlow**, University of Illinois, Urbana-Champaign, and **Oscar Garcia-Prada**, Universidad Autónoma de Madrid.

Nonassociative Algebras and Their Applications, **Efim I. Zelmanov**, Yale University, **Santos Gonzalez**, Universidad de Oviedo, and **Alberto Elduque**, Universidad de Zaragoza.

Nonlinear Dispersive Equations, **Gustavo Ponce**, University of California Santa Barbara, and **Luis Vega**, Universidad del País Vasco.

Numerical Linear Algebra, **Lothar Reichel**, Kent State University, and **Francisco Marcellan**, Universidad Carlos III de Madrid.

Operator Theory and Spaces of Analytic Functions, **Jose Bonet**, Universidad Politècnica de Valencia, **Pedro Paul**, Universidad de Sevilla, and **Cora S. Sadosky**, Howard University.

PDE Methods in Continuum Mechanics, **Juan L. Vazquez**, Universidad Autónoma de Madrid, and **J. W. Neuberger**, University of North Texas.

Polynomials and Multilinear Analysis in Infinite Dimensions, **Richard M. Aron**, Kent State University, **J. A. Jaramillo** and **Jose G. Llavona**, Universidad Complutense de Madrid, and **Andrew M. Tonge**, Kent State University.

Quantitative Results in Real Algebra and Geometry, **Carlos Andradas** and **Antonio Diaz-Cano**, Universidad Complutense, **Victoria Powers**, Emory University, and **Frank Sottile**, University of Massachusetts, Amherst.

Recent Developments in the Mathematical Theory of Inverse Problems, **Russell Brown**, University of Kentucky, **Alberto Ruiz**, Universidad Autónoma de Madrid, Spain, and **Gunther Uhlmann**, University of Washington.

Riemannian Foliations, **Jesus Antonio Alvarez Lopez**, Universidad de Santiago de Compostela, and **Efton L. Park**, Texas Christian University.

Ring Theory and Related Topics, **Jose Gomez-Torrecillas**, University of Granada, **Pedro Antonio Guil Asensio**, University of Murcia, **Sergio R. Lopez-Permouth**, Ohio University, and **Blas Torrecillas**, University of Almeria.

Variational Problems for Submanifolds, **Frank Morgan**, Williams College, and **Antonio Ros**, Universidad de Granada.

Boulder, Colorado

University of Colorado

October 2–4, 2003

Meeting #989

Western Section

Associate secretaries: Susan J. Friedlander and Michel L. Lapidus

Announcement issue of *Notices*: August 2003

Program first available on AMS website: August 21, 2003

Program issue of electronic *Notices*: October 2003

Issue of *Abstracts*: Volume 24, Issue 4

Deadlines

For organizers: March 3, 2003

For consideration of contributed papers in Special Sessions:
June 6, 2003

For abstracts: August 12, 2003

Invited Addresses

J. Brian Conrey, American Institute of Mathematics, *Title to be announced.*

Giovanni Forni, Northwestern University, *Title to be announced.*

Juha M. Heinonen, University of Michigan, *Title to be announced.*

Joseph D. Lakey, New Mexico State University, *Title to be announced.*

Albert Schwarz, University of California Davis, *Title to be announced.*

Brooke E. Shipley, Purdue University, *Title to be announced.*

Avi Wigderson, Institute for Advanced Study, *Title to be announced* (Erdős Memorial Lecture).

Special Sessions

Algebras, Lattices and Varieties (Code: AMS SS A1), **Keith A. Kearnes**, University of Colorado, Boulder, **Agnes Szendrei**, Bolyai Institute, and **Walter Taylor**, University of Colorado, Boulder.

Binghamton, New York

SUNY-Binghamton

October 11–12, 2003

Meeting #990

Eastern Section

Associate secretary: Lesley M. Sibner

Announcement issue of *Notices*: August 2003

Program first available on AMS website: August 28, 2003

Program issue of electronic *Notices*: October 2003

Issue of *Abstracts*: Volume 24, Issue 4

Deadlines

For organizers: March 10, 2003

For consideration of contributed papers in Special Sessions:
June 24, 2003

For abstracts: August 19, 2003

Invited Addresses

Peter Kuchment, Texas A&M University, *Title to be announced.*

Zlil Sela, Einstein Institute of Mathematics, *Title to be announced.*

Zoltan Szabo, University of Michigan, Ann Arbor, *Title to be announced.*

Jeb F. Willenbring, Yale University, *Title to be announced.*

Special Sessions

Biomolecular Mathematics (Code: AMS SS A1), **Thomas J. Head** and **Dennis G. Pixton**, SUNY at Binghamton, **Mitsunori Ogihara**, University of Rochester, and **Carlos Martin-Vide**, Universitat Rovira i Virgili.

Chapel Hill, North Carolina

University of North Carolina at Chapel Hill

October 24–25, 2003

Meeting #991

Southeastern Section

Associate secretary: John L. Bryant

Announcement issue of *Notices*: August 2003

Program first available on AMS website: September 11, 2003

Program issue of electronic *Notices*: October 2003

Issue of *Abstracts*: Volume 24, Issue 4

Deadlines

For organizers: March 24, 2003

For consideration of contributed papers in Special Sessions:
July 19, 2003

For abstracts: September 3, 2003

Bangalore, India

India Institute of Science

December 17–20, 2003

Meeting #992

First Joint AMS-India Mathematics Meeting

Associate secretary: Susan J. Friedlander

Announcement issue of *Notices*: To be announced

Program first available on AMS website: Not applicable

Program issue of electronic *Notices*: Not applicable

Issue of *Abstracts*: Not applicable

Deadlines

For organizers: To be announced

For consideration of contributed papers in Special Sessions:
To be announced

For abstracts: To be announced

Invited Addresses

George Papanicolaou, Stanford University, *Title to be announced.*

Peter Sarnak, Princeton University, *Title to be announced.*

Vladimir Voevodsky, Institute for Advanced Study, Princeton, *Title to be announced.*

Special Sessions

Algebraic and Geometric Methods in Multivariable Operator Theory, **Ronald G. Douglas**, Texas A&M University, and **Gadadhar Misra**, Indian Statistical Institute.

Phoenix, Arizona

Phoenix Civic Plaza

January 7–10, 2004

Meeting #993

Joint Mathematics Meetings, including the 110th Annual Meeting of the AMS, 87th Annual Meeting of the Mathematical Association of America (MAA), annual meetings of the Association for Women in Mathematics (AWM) and the National Association of Mathematicians (NAM), and the winter meeting of the Association for Symbolic Logic (ASL).

Associate secretary: Michel L. Lapidus

Announcement issue of *Notices*: October 2003

Program first available on AMS website: To be announced

Program issue of electronic *Notices*: January 2004

Issue of *Abstracts*: To be announced

Deadlines

For organizers: April 2, 2003

For consideration of contributed papers in Special Sessions:
To be announced

For abstracts: To be announced

For summaries of papers to MAA organizers: To be announced

Tallahassee, Florida

Florida State University

March 12–13, 2004

Meeting #994

Southeastern Section

Associate secretary: John L. Bryant

Announcement issue of *Notices*: To be announced

Program first available on AMS website: To be announced

Program issue of electronic *Notices*: To be announced

Issue of *Abstracts*: To be announced

Deadlines

For organizers: August 13, 2003

For consideration of contributed papers in Special Sessions:
To be announced

For abstracts: To be announced

Athens, Ohio

Ohio University

March 26–27, 2004

Meeting #995

Central Section

Associate secretary: Susan J. Friedlander

Announcement issue of *Notices*: To be announced

Program first available on AMS website: To be announced

Program issue of electronic *Notices*: To be announced

Issue of *Abstracts*: To be announced

Deadlines

For organizers: August 26, 2003

For consideration of contributed papers in Special Sessions:
To be announced

For abstracts: To be announced

Los Angeles, California

University of Southern California

April 3–4, 2004

Western Section

Associate secretary: Michel L. Lapidus

Announcement issue of *Notices*: To be announced

Program first available on AMS website: To be announced

Program issue of electronic *Notices*: To be announced

Issue of *Abstracts*: To be announced

Deadlines

For organizers: To be announced
For consideration of contributed papers in Special Sessions:
To be announced
For abstracts: To be announced

Lawrenceville, New Jersey

Rider University

April 17–18, 2004

Meeting #997

Eastern Section
Associate secretary: Lesley M. Sibner
Announcement issue of *Notices*: To be announced
Program first available on AMS website: To be announced
Program issue of electronic *Notices*: To be announced
Issue of *Abstracts*: To be announced

Deadlines

For organizers: September 17, 2003
For consideration of contributed papers in Special Sessions:
To be announced
For abstracts: To be announced

Houston, Texas

University of Houston

May 13–15, 2004

Sixth International Joint Meeting of the AMS and the Sociedad Matemática Mexicana (SMM).
Associate secretary: John L. Bryant
Announcement issue of *Notices*: To be announced
Program first available on AMS website: To be announced
Program issue of electronic *Notices*: To be announced
Issue of *Abstracts*: To be announced

Deadlines

For organizers: To be announced
For consideration of contributed papers in Special Sessions:
To be announced
For abstracts: To be announced
For summaries of papers to MAA organizers: To be announced

Pittsburgh, Pennsylvania

University of Pittsburgh

November 6–7, 2004

Eastern Section
Associate secretary: Lesley M. Sibner
Announcement issue of *Notices*: To be announced
Program first available on AMS website: To be announced
Program issue of electronic *Notices*: To be announced
Issue of *Abstracts*: To be announced

Deadlines

For organizers: April 7, 2004
For consideration of contributed papers in Special Sessions:
To be announced
For abstracts: To be announced

Atlanta, Georgia

Atlanta Marriott Marquis and Hyatt Regency Atlanta

January 5–8, 2005

Joint Mathematics Meetings, including the 111th Annual Meeting of the AMS, 88th Annual Meeting of the Mathematical Association of America (MAA), annual meetings of the Association of Women in Mathematics (AWM) and the National Association of Mathematicians (NAM), and the winter meeting of the Association of Symbolic Logic (ASL).
Associate secretary: Lesley M. Sibner
Announcement issue of *Notices*: October 2004
Program first available on AMS website: To be announced
Program issue of electronic *Notices*: January 2005
Issue of *Abstracts*: To be announced

Deadlines

For organizers: April 5, 2004
For consideration of contributed papers in Special Sessions:
To be announced
For abstracts: To be announced
For summaries of papers to MAA organizers: To be announced

Mainz, Germany

June 16–19, 2005

Second Joint AMS-Deutsche Mathematiker-Vereinigung (DMV) Meeting
Associate secretary: Susan J. Friedlander
Announcement issue of *Notices*: To be announced
Program first available on AMS website: To be announced
Program issue of electronic *Notices*: To be announced
Issue of *Abstracts*: To be announced

Deadlines

For organizers: To be announced
For consideration of contributed papers in Special Sessions:
To be announced
For abstracts: To be announced
For summaries of papers to MAA organizers: To be announced

San Antonio, Texas

Henry B. Gonzalez Convention Center

January 12–15, 2006

Joint Mathematics Meetings, including the 112th Annual Meeting of the AMS, 89th Annual Meeting of the Mathematical Association of America, annual meetings of the Association for Women in Mathematics (AWM) and the National Association of Mathematicians (NAM), and the winter meeting of the Association for Symbolic Logic (ASL).
Associate secretary: John L. Bryant
Announcement issue of *Notices*: October 2005
Program first available on AMS website: To be announced
Program issue of electronic *Notices*: January 2006
Issue of *Abstracts*: To be announced

Deadlines

For organizers: April 12, 2005
For consideration of contributed papers in Special Sessions:
To be announced
For abstracts: To be announced
For summaries of papers to MAA organizers: To be announced

New Orleans, Louisiana

*New Orleans Marriott and Sheraton
New Orleans Hotel*

January 4–7, 2007

Joint Mathematics Meetings, including the 113th Annual meeting of the AMS, 90th Annual Meeting of the Mathematical Association of America (MAA), annual meetings of the Association for Women in Mathematics (AWM) and the National Association of Mathematicians (NAM), and the winter meeting of the Association for Symbolic Logic (ASL).
Associate secretary: Susan J. Friedlander
Announcement issue of *Notices*: October 2006
Program first available on AMS website: To be announced
Program issue of electronic *Notices*: January 2007
Issue of *Abstracts*: To be announced

Deadlines

For organizers: April 4, 2006
For consideration of contributed papers in Special Sessions:
To be announced
For abstracts: To be announced
For summaries of papers to MAA organizers: To be announced