
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.

Seville, Spain

June 18–21, 2003

Meeting #988

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

Associate secretary: Susan J. Friedlander

Announcement issue of *Notices*: February 2003

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: Expired

For consideration of contributed papers in Special Sessions:
Expired

For abstracts: Expired

Invited Addresses

Xavier Cabre, Universitat Politècnica de Catalunya, Barcelona, *Phase transition layers, minimal surfaces, and ground states.*

Charles Fefferman, Princeton University, *Beyond the Whitney extension theorem.*

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

Ignacio Sols, Universidad Complutense, Madrid, *Stability of principal bundles.*

Luis Vega, Universidad del País Vasco, Bilbao, *Integrating factors and generalized Schrödinger flows.*

Efim Zelmanov, Yale University, *Infinite dimensional algebras and superalgebras.*

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-Champaign.

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**, Universität 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 Martinez Gamba**, University of Texas at 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.

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, and **Gunther Uhlmann**, University of Washington.

Riemannian Foliations, **Jesus Antonio Alvarez Lopez**, Universidade 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

Joint Central/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: Expired

For consideration of contributed papers in Special Sessions:
Expired

For abstracts: August 12, 2003

Invited Addresses

J. Brian Conrey, American Institute of Mathematics, *Random matrix theory and the Riemann zeta-function*.

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, *Recent progress in time-frequency analysis*.

Albert Schwarz, University of California Davis, *Maximally supersymmetric gauge theories*.

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

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

Special Sessions

Algebraic Geometry (Code: AMS SS M1), **Holger Kley**, **Rick Miranda**, and **Chris Peterson**, Colorado State University.

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.

Analysis on Singular Spaces (Code: AMS SS L1), **Mario Bonk**, University of Michigan, and **Juha Heinonen**, Mathematical Sciences Research Institute.

Applications of Number Theory and Algebraic Geometry to Coding (Code: AMS SS B1), **David R. Grant**, University of Colorado, Boulder, **Jose Felipe Voloch**, University of Texas at Austin, and **Judy Leavitt Walker**, University of Nebraska, Lincoln.

Associative Rings and Their Modules (Code: AMS SS J1), **Gene Abrams**, University of Colorado at Colorado Springs, and **Kent Fuller**, University of Iowa.

Computational and Mathematical Biology (Code: AMS SS S1), **Harvey J. Greenberg**, University of Colorado at Denver.

Computational Number Theory (Code: AMS SS R1), **Brian Conrey** and **Michael Rubinstein**, American Institute of Mathematics.

Dynamics of Rational Polygonal Billiards and Related Systems (Code: AMS SS K1), **Giovanni Forni**, Northwestern University.

Finite Geometries (Code: AMS SS N1), **Stanley E. Payne**, University of Colorado, Denver, and **Robert Allen Liebler**, Colorado State University.

Geometric Methods in Partial Differential Equations (Code: AMS SS C1), **Jeanne N. Clelland**, University of Colorado, Boulder, and **George R. Wilkins**, University of Hawaii.

Graphs and Diagraphs (Code: AMS SS H1), **Michael Jacobson**, University of Colorado, Denver, and **Richard J. Lundgren**, University of Colorado, Denver.

Groupoids in Analysis and Geometry (Code: AMS SS D1), **Lawrence Baggett**, University of Colorado, Boulder, **Jerry Kaminker**, Indiana University-Purdue University Indianapolis, and **Judith Packer**, University of Colorado, Boulder.

Homotopy Theory (Code: AMS SS F1), **Daniel Dugger**, University of Oregon, and **Brooke E. Shipley**, Purdue University.

Noncommutative Geometry and Geometric Analysis (Code: AMS SS E1), **Carla Farsi**, **Alexander Gorokhovsky**, and **Siye Wu**, University of Colorado.

Nonlinear Waves (Code: AMS SS P1), **Bernard Deconinck**, Colorado State University, and **Harvey Segur**, University of Colorado, Boulder.

Structured Population and Epidemic Models: Periodicity, Chaos, and Extinction (Code: AMS SS G1), **Linda J. S. Allen**, Texas Tech University, and **Sophia R.-J. Jang**, University of Louisiana at Lafayette.

Ubiquitous Heat Kernel (Code: AMS SS Q1), **Jay Jorgenson**, City College of New York, and **Lynne Walling**, University of Colorado, Boulder.

Binghamton, New York

Binghamton University

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: Expired

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, Princeton University, *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**, Binghamton University, **Mitsunori Ogihara**, University of Rochester, and **Carlos Martin-Vide**, Universitat Rovira i Virgili.

Boundary Value Problems on Singular Domains (Code: AMS SS C1), **Juan B. Gil**, Temple University, and **Paul A. Loya**, Binghamton University.

Character Theory of Finite Groups and Algebraic Combinatorics (Code: AMS SS P1), **Kenneth W. Johnson**, Pennsylvania State University, and **Eirini Poimenidou**, New College of Florida.

Dowling Lattices: The 30th Anniversary (Code: AMS SS N1), **Thomas Zaslavsky**, Binghamton University.

Finite Solvable Groups and Their Representations (Code: AMS SS K1), **Ben Brewster**, Binghamton University, and **Arnold Feldman**, Franklin & Marshall College.

Geometric Group Theory (Code: AMS SS B1), **Zlil Sela**, Einstein Institute of Mathematics, and **Ross Geoghegan**, Binghamton University.

Homotopy Theory: Honoring Peter Hilton on His Eightieth Birthday (Code: AMS SS J1), **Martin Bendersky** and **Joseph Roitberg**, Hunter College (CUNY).

Infinite Groups and Group Rings (Code: AMS SS D1), **Luise-Charlotte Kappe**, Binghamton University, and **Derek J. S. Robinson**, University of Illinois, Urbana-Champaign.

Inverse Problems and Tomography (Code: AMS SS H1), **Peter Kuchment**, Texas A&M University, **Leonid A. Kunyansky**, University of Arizona, and **Eric Todd Quinto**, Tufts University.

Lie Algebras, Conformal Field Theory, and Related Topics (Code: AMS SS E1), **Chongying Dong**, University of California Santa Cruz, and **Alex J. Feingold** and **Gaywalee Yamskulna**, Binghamton University.

Manifold Theory (Code: AMS SS L1), **Erik K. Pedersen**, Binghamton University, and **Ian Hambleton**, McMaster University.

Noncommutative Ring Theory (Code: AMS SS M1), **Howard E. Bell** and **Yuanlin Li**, Brock University.

Probability Theory (Code: AMS SS F1), **Miguel A. Arcones**, Binghamton University, and **Evarist Gine**, University of Connecticut.

Quasigroups and Loops (Code: AMS SS R1), **Tuval S. Foguel**, North Dakota State University, and **J. D. Phillips**, Wabash College.

Statistics (Code: AMS SS G1), **Miguel A. Arcones**, **Anton Schick**, and **Qiqing Yu**, Binghamton University.

Topological Combinatorics (Code: AMS SS Q1), **Laura M. Anderson**, Binghamton University, and **Edward B. Swartz**, Cornell University.

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: Expired

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

For abstracts: September 3, 2003

Invited Addresses

James N. Damon, University of North Carolina, *Title to be announced.*

Erica L. Flapan, Pomona College, *Title to be announced.*

Mary Ann Horn, Vanderbilt University, *Title to be announced.*

Helmut Voelklein, University of Florida, *Title to be announced.*

Special Sessions

Algebras and Their Representations (Code: AMS SS M1), **Edward L. Green**, Virginia Polytech Institute & State University, and **Ellen E. Kirkman**, Wake Forest University.

Association Schemes: 1973–2003 (Code: AMS SS F1), **William J. Martin**, Worcester Polytechnic Institute, and **Dijen K. Ray-Chaudhuri**, Ohio State University.

Banach Algebras and Several Complex Variables (Code: AMS SS J1), **John T. Anderson**, College of the Holy Cross, and **Alexander J. Izzo**, Bowling Green State University.

Commutative Rings and Monoids (Code: AMS SS K1), **Scott Chapman**, Trinity University.

Current Topics in Optical Communications Systems (Code: AMS SS Q1), **Rudy Horne** and **Tobias Schaefer**, University of North Carolina.

Group Actions on Curves (Code: AMS SS A1), **Kay Magaard**, Wayne State University and University of Florida, and **Helmut Voelklein**, University of Florida.

Group Cohomology in Algebra and Geometry (Code: AMS SS E1), **Richard M. Hain**, Duke University, and **Kevin P. Knudson**, Mississippi State University.

Homological Physics (Code: AMS SS I1), **Thomas J. Lada**, North Carolina State University, and **James Stasheff**, University of North Carolina at Chapel Hill.

Knots, Links, and Embedded Graphs (Code: AMS SS C1), **Joel S. Foisy**, SUNY at Potsdam, and **Erica L. Flapan**, Pomona College.

Linear Operators on Function Spaces (Code: AMS SS G1), **Nathan S. Feldman**, Washington and Lee University, and **William T. Ross**, University of Richmond.

Mathematical Modeling in Physiology and Medicine (Code: AMS SS N1), **Mary Ann Horn**, Vanderbilt University.

Mathematical Molecular Biology (Code: AMS SS P1), **Dorothy Buck**, Brown University.

Measurable, Complex, and Symbolic Dynamics (Code: AMS SS D1), **Jane M. Hawkins** and **Karl E. Petersen**, University of North Carolina at Chapel Hill.

Multiscale Challenges in Soft Matter Materials (Code: AMS SS L1), **Gregory M. Forest**, University of North Carolina, **Qi Wang**, Florida State University, and **Ruhai Zhou**, University of North Carolina.

Nonlinear Wave Phenomena: Stability and Interactions (Code: AMS SS H1), **Christopher Jones**, University of North Carolina at Chapel Hill, and **Bjorn Sandstede**, The Ohio State University.

Bangalore, India

Indian 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: Expired

For consideration of contributed papers in Special Sessions:
Not applicable

For abstracts: September 1, 2003

Invited Addresses

R. Balasubramanian, Institute for Mathematical Sciences, *Title to be announced.*

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

M. S. Raghunathan, Tata Institute of Fundamental Research, *Title to be announced.*

Peter Sarnak, Princeton University and NYU, Courant Institute, *Title to be announced.*

K. B. Sinha, Indian Statistical Institute, *Title to be announced.*

Vladimir Voevodsky, Institute for Advanced Study, *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.

Algebraic and Geometric Topology, **Parameswaren Sankaran**, Institute of Mathematical Sciences, and **P. B. Shalen**, University of Illinois.

Automorphic Forms and Functoriality, **James Cogdell**, Oklahoma State University, and **T. N. Venkataramana**, Tata Institute of Fundamental Research.

Buildings and Group Theory, **N. S. Narasimha Sastry**, Indian Statistical Institute, and **Richard M. Weiss**, Tufts University.

Commutative Algebra and Algebraic Geometry, **Sudhir Ghorpade**, Indian Institute of Technology, Bombay, **Hema Srinivasan**, University of Missouri, and **Jugal K. Verma**, Indian Institute of Technology, Bombay.

Cycles, K-Theory, and Motives, **Eric M. Friedlander**, Northwestern University, **Steven Lichtenbaum**, Brown University, **Kapil Paranjape**, Institute of Mathematical Sciences, and **Vasudevan Srinivas**, Tata Institute of Fundamental Research.

Differential Equations and Applications to Population Dynamics, Epidemiology, Genetics and Microbiology, **Bindhyachal Rai**, University of Allahabad, **Sanjay Rai**, Jacksonville University, **Terrance Quinn**, Ohio University Southern, and **Sunil Tiwari**, Sonoma State University.

History of Indian Mathematics, **Gerard G. Emch**, University of Florida, and **R. Sridharan**, Chennai Mathematical Institute.

L-Functions, Automorphic Forms and Cryptography, **R. Balasubramanian**, Institute of Mathematical Sciences, and **K. Soundararajan**, University of Michigan.

The Many Facets of Linear Algebra and Matrix Theory, **Richard Brualdi**, University of Wisconsin, and **Rajendra Bhatia**, Indian Statistical Institute.

PDE and Applications, **Susan B. Friedlander**, University of Illinois, and **P. N. Srikanth**, Tata Institute of Fundamental Research.

Probability Theory, **Rajeeva Karandikar**, Indian Statistical Institute, and **Srinivasa R. S. Varadhan**, NYU-Courant Institute.

Quantum Dynamics, **William Arveson**, University of California Berkeley, and **B. V. Rajarama Bhat**, Indian Statistical Institute.

Reductive Groups: Arithmetic, Geometry and Representation Theory, **Vikram Mehta** and **R. Parimala**, Tata Institute of Fundamental Research, and **Gopal Prasad**, University of Michigan, Ann Arbor.

Spectral and Inverse Spectral Theories of Schrödinger Operators, **Peter David Hislop**, University of Kentucky, and **Krishna Maddaly**, Institute of Mathematical Sciences.

Phoenix, Arizona

Phoenix Civic Plaza

January 7–10, 2004

Wednesday – Saturday

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), the winter meeting of the Association for Symbolic Logic (ASL), with sessions contributed by the Society for Industrial and Applied Mathematics (SIAM).

Associate secretary: Michel L. Lapidus

Announcement issue of *Notices*: October 2003

Program first available on AMS website: November 1, 2003

Program issue of electronic *Notices*: January 2004

Issue of *Abstracts*: Volume 25, Issue 1

Deadlines

For organizers: Expired

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

For abstracts: October 1, 2003

For summaries of papers to MAA organizers: To be announced

Joint Invited Addresses

Bonnie Berger, Massachusetts Institute of Technology, *Title to be announced* (AMS-MAA Invited Address).

Stephen Wolfram, Wolfram Research Inc., *Title to be announced* (AMS-MAA Invited Address).

AMS Invited Addresses

Michael Aschbacher, California Institute of Technology, *Title to be announced*.

Hyman Bass, University of Michigan, *Title to be announced* (AMS Retiring Presidential Address).

Sun-Yang Alice Chang, Princeton University, *Title to be announced* (AMS Colloquium Lectures).

Gregory F. Lawler, Cornell University, *Title to be announced*.

James A. Yorke, University of Maryland, *Title to be announced*.

MAA Contributed Paper Sessions

The organizers listed below solicit papers pertinent to their sessions. Presentations are generally limited to ten minutes, but selected participants may extend their contributions up to twenty minutes. Please note that the dates and times scheduled for these sessions remain tentative. See the end of this announcement for specific submission procedures and other details.

Teaching a History of Mathematics Course (MAA CP A1), Wednesday morning, **Joel K. Haack***, Joel.Haack@uni.edu, University of Northern Iowa; and **Amy E. Shell-Gellasch**, United States Military Academy. This session solicits papers on the teaching of history of mathematics courses. Papers can address courses at all levels and types, from general history courses for educators to topic-specific courses for majors. Special consideration will be given to papers that present ideas on how to organize and develop history of mathematics courses. Other topics such as ideas for units or Web usage will be considered.

Teaching Operations Research in the Undergraduate Classroom (MAA CP B1), Wednesday morning, **Dipa Choudhury***, Loyola College, MD, dsc@loyola.edu; and **Steven M. Hetzler**, Salisbury State University. This session seeks to highlight innovative teaching strategies in operations research in the undergraduate classroom. These strategies could include the construction of new teaching materials or creative use of existing materials. Submissions should provide specific learning objectives addressed by the use of these materials. In addition, potential speakers should provide some of the following information: (1) the syllabus of the course you teach, (2) a personal philosophy (with examples) of technology integration in the classroom, (3) interesting case studies, or (4) suggestions on textbooks and/or software.

Uses of the WWW That Enrich and Promote Learning (MAA CP C1), Wednesday and Saturday afternoons, **Marcelle Bessman***, Jacksonville University, mbessma@ju.edu; **Marcia P. Birken**, Rochester Institute of Technology; **Mary L. Platt**, Salem State College; and **Brian E. Smith**, McGill University. This session seeks to highlight uses of the Web and its tools that engage students in the learning process. Tools such as course management systems, digital resources, tutorial systems, and hybrids that combine these functions on the Web can make a difference in student engagement, understanding, and performance. Talks should demonstrate how these technologies are being integrated into the learning process. The session is sponsored by the MAA Committee on Computers in Mathematics Education (CCIME).

Mathematical Experiences for Students outside the Classroom (MAA CP D1), Wednesday morning, **Laura L. Kelleher***, Massachusetts Maritime Academy, lkelleher@mma.mass.edu; and **Mary S. Hawkins**, Prairie View A&M University. Mathematics “happens” outside the classroom, and in fact many mathematics majors are drawn to the subject

through an event sponsored by a student chapter or math club. This session seeks presentations by academic, industrial, business, or student mathematicians so that the audience will be encouraged to organize and run events for their students. Descriptions of nonclassroom activities could include, but are not limited to, special lectures, workshops for students, math days, math fairs, research projects for students, career days, recreational mathematics, problem-solving activities, and student consultants. This session is organized by the MAA Committee on Undergraduate Student Activities and Chapters.

Courses below Calculus: A New Focus (MAA CP E1), Wednesday afternoon and Thursday morning, **Mary Robinson***, University of New Mexico, Valencia Campus, maryrobn@unm.edu; **Florence S. Gordon**, New York Institute of Technology; **Arlene H. Kleinstein**, SUNY at Farmingdale; **Norma M. Agras**, Miami Dade Community College; **Laurette B. Foster**, Prairie View A&M University; and **Linda Martin**, Albuquerque T-VI. An unprecedented collaborative effort is currently being developed among members of the MAA, AMATYC, and NCTM to launch a national initiative to refocus the courses below calculus to better serve the majority of students taking these courses. The goal of the initiative is to encourage courses that place much greater emphasis on conceptual understanding and realistic applications via mathematical modeling than traditional courses that too often are designed to develop algebraic skills needed for calculus. For this session we specifically seek to address all of the college-level courses below calculus, with particular emphasis on offerings in college algebra and precalculus. We seek presentations that present new visions for such courses, discuss implementation issues (such as faculty training, placement tests, introduction of alternative tracks for different groups of students, transferability problems, etc.) related to offering such courses, present results of studies on student performance and tracking data in both traditional and new versions of these courses and in follow-up courses, discuss the needs of other disciplines and the workplace from courses at this level, discuss connections to the changing school curricula and implications for teacher education. This session is cosponsored by the MAA CUPM Subcommittee on Curriculum Renewal Across the First Two Years (CRAFTY), the MAA Committee on Two Year Colleges, and the MAA Committee on Articulation and Placement.

Getting Students to Discuss and Write about Mathematics (MAA CP F1), Wednesday afternoon, **Sarah L. Mabrouk***, Framingham State College, smabrouk@frc.mass.edu. This session invites papers about assignments and projects that require students to communicate mathematics through in-class oral presentations that they make or in-class discussions that they must lead and motivate and through written assignments and/or papers. These assignments can include analysis and applications of mathematics, presentations of and analysis of proofs, presentations about famous mathematicians and the mathematics that they studied, and assignments/projects that utilize creative writing. Each presenter is encouraged to discuss how the use of the assignment/project helped students to improve

their understanding of mathematics and their ability to communicate mathematics. Of particular interest is the effect of such projects/assignments/presentations throughout the course on the students' understanding of mathematics, their communication of mathematics, and their attitude toward mathematics.

The Effective Use of Computer Algebra Systems in the Teaching of Mathematics (MAA CP G1), Wednesday afternoon, **L. Carl Leinbach***, Gettysburg College, leinbach@gettysburg.edu; and **Edward A. Connors**, University of Massachusetts. Computer Algebra Systems (CAS) create an environment for the learning and teaching of mathematics. They can be used to encourage mathematical explorations and to affect the way in which we teach and what material we emphasize. Papers for this session are to discuss one of the following topics: classroom uses of CAS, student projects that use the CAS in a significant way, testing practices that allow the students to use a CAS, or evaluations of the overall use of CAS at a particular institution. It is expected that each presentation, in addition to explaining the use of the CAS, will address the effectiveness of this use in the teaching and learning of mathematics. While proposals for papers dealing with the use of a CAS in any mathematics course are welcome, preference will be given to papers dealing with the use of a CAS in courses other than the calculus sequence. In particular, papers on the use of the CAS in courses such as applied statistics, college algebra, quantitative methods, and the mathematics preparation of teachers are particularly welcome. Note that this session is focused on the use of a CAS, not technology in general. However, the choice of a platform (computer or handheld device) or CAS (Derive, Maple, Mathematica, or other CAS) is that of the presenter.

Placement Strategies (MAA CP H1), Thursday morning, **Janet P. Ray***, Seattle Central Community College, janray@sccd.ctc.edu; **Susan L. Forman**, Bronx Community College, CUNY; and **Patricia R. Wilkinson**, Borough of Manhattan Community College, CUNY. Proper placement of students into their first college mathematics class is important to students and faculty alike. This session invites papers that describe placement strategies and instruments that you are using or have used at your institution. Papers might deal with uses of homegrown or standardized instruments, non-test-based strategies, or innovative, multilayered approaches. Also invited are papers describing how the success of your placement strategy is measured. How do you know if it is working? Systems in place at any type of institution or at any mathematics level are welcome. This session is cosponsored by the MAA Committee on Two-Year Colleges and the MAA Committee on Articulation and Placement.

Chaotic Dynamics and Fractal Geometry (MAA CP I1), Thursday morning, **Denny Gulick***, University of Maryland, dng@math.md.edu; and **Jon Scott**, Montgomery College. During the past decade and a half, the areas of chaotic dynamics and fractal geometry have emerged as lively subjects not only for research but also in the undergraduate curriculum. One of the wonderful features of these subjects is that they are able to combine many of the fundamental undergraduate topics, among them calculus and analysis,

differential equations, linear algebra, geometry, statistics, and computer science. This session invites papers that investigate the impact of these two fields on undergraduate mathematics. The papers, which should have an expository flavor, might include new developments in either chaos or fractals (or both), interesting or novel applications, undergraduate research experiences, or innovative approaches for exploring these topics in undergraduate mathematics.

Truth in Using the History of Mathematics in Teaching Mathematics (MAA CP J1), Thursday morning, **Victor J. Katz***, University of the District of Columbia, vkatz@udc.edu; and **Eisso J. Atzema**, University of Maine. The history of mathematics has long been accepted as a scholarly activity for its own sake. Increasingly, historical research is called upon by a wide variety of professionals within the mathematical community to serve a broad range of agendas. We seek contributions from mathematicians, mathematics historians, and mathematics educators at all levels that address the issue of “truth” in the use of the history of mathematics. In particular, contributions are welcome that consider three particular issues: (1) whether and/or how myths and legends can be effectively used as such in the mathematics classroom, (2) what role the examination of myths and legends might play in a history of mathematics course, and (3) how the mathematics history community can contribute toward the effective use of history by “consumers” of history. This session is sponsored by the MAA History of Mathematics Special Interest Group (HOM SIGMAA).

Innovations in Teaching Discrete Mathematics (MAA CP K1), Thursday afternoon, **William E. Fenton***, Bellarmine University, wfenton@bellarmine.edu; and **Nancy L. Hagelgans**, Ursinus College. Discrete mathematics is offered in many mathematics departments, at different levels, for different audiences, and with different expectations. This session seeks presentations on novel approaches to the teaching of discrete mathematics. These could be exploratory activities, application projects, interdisciplinary courses, etc. We particularly encourage presentations on the use of technology as a teaching tool or as a source of interesting problems and applications. Evaluation of the pedagogy is welcome though not mandatory.

Initiating and Sustaining Undergraduate Research Projects and Programs (MAA CP L1), Thursday afternoon, **James A. Davis***, University of Richmond, jdavis@richmond.edu; and **Joel S. Foisy**, State University of New York. Papers are requested describing undergraduate research programs. Of particular interest will be descriptions of innovative ways to get administrative support or other support that creates a sustainable program. Also of interest will be papers indicating where to find appropriate problems and how to gauge the right level. This session is sponsored by the MAA CUPM Subcommittee on Research by Undergraduates.

Mathlets for Teaching and Learning Mathematics (MAA CP M1), Thursday afternoon, **David M. Strong***, Pepperdine University; David.Strong@pepperdine.edu; **Thomas E. Leathrum**, Jacksonville State University; and **Joe Yanik**, Emporia State University. This session seeks to provide a forum in which presenters may demonstrate mathlets

and related materials that they have created or further developed. Mathlets are small computer-based (but ideally platform-independent) interactive tools for teaching math, frequently developed as World Wide Web materials such as scripts or Java applets, but there may be many other innovative variations. Mathlets allow students to experiment with and visualize a variety of mathematical concepts, and they can be easily shared by mathematics instructors around the world. The session is sponsored by the MAA Committee on Computers in Mathematics Education (CCIME).

Statistics Education Discourse on Inference (MAA CP N1), Friday morning, **John D. McKenzie Jr.***, Babson College, mckenzie@babson.edu; and **Carolyn K. Cuff**, Westminster College. Since the introductory statistics courses have infused data-driven activities into the course, many learning difficulties related to data have been minimized. However, the area of inference, a major topic in the course, remains a stumbling block for students. Papers are solicited which demonstrate effective teaching on inference topics, including confidence intervals, hypothesis testing, power and the interpretation of results. Sponsored by the MAA Statistics Special Interest Group (STAT SIGMAA).

Math and the Arts (MAA CP O1), Friday morning, **Ann Robertson***, Connecticut College, arob@conncoll.edu; **John M. Sullivan**, University of Illinois, Urbana; **Reza Sarhangi**, Towson University; and **Nathaniel A. Friedman**, State University of New York, Albany. This session seeks interdisciplinary abstracts related to mathematics and one or more of the following disciplines: archeology and related fields, architecture, dance, music, literature, theater, film, and the visual arts. Session objectives include: (1) to present topics or new findings relating mathematics to its artistic and aesthetic presentations and (2) to introduce innovative techniques and to demonstrate the use of technology in promoting connections and interdisciplinary work in math and the arts.

Applications of Mathematics in Computer Science (MAA CP P1), Friday morning, **William A. Marion***, Valparaiso University, Bill.Marion@valpo.edu. This session invites papers which illustrate examples of the application of mathematics or mathematical thinking to topics introduced in an undergraduate computer science curriculum. These examples should be presented in such a way that they can be used as a lecture example, an in-class assignment, a homework assignment, or a project by instructors who teach courses in computer science. Examples for use in the following categories of courses will be considered—discrete mathematics courses, CS I- and II-type courses, and all other computer science courses—and should be of a type which supplements the material in a standard text (or which presents a topic in a novel way). As a follow-up to this session, particularly interesting examples will be given consideration for entry into an online repository.

Mathematics Experiences in Business, Industry and Government (MAA CP Q1), Friday morning, **Philip E. Gustafson***, Mesa State College, pgustafs@mesastate.edu; and **Michael G. Monticino**, University of North Texas. This paper session will provide a forum for mathematicians with experience in business, industry, and government (BIG) to

present papers or discuss projects involving the application of mathematics to BIG problems. BIG mathematicians as well as faculty and students in academia who are interested in learning more about BIG practitioners, projects, and issues will find this session of interest. This session is sponsored by the MAA Special Interest Group in Business, Industry and Government (BIG SIGMAA).

Teaching and Learning of Undergraduate Mathematics (MAA CP R1), Friday afternoon and Saturday morning, **Anne E. Brown***, Indiana University South Bend, abrown@iusb.edu; **Marilyn P. Carlson**, Arizona State University; and **Draga D. Vidakovic**, Georgia State University. Research papers that address issues concerning the teaching and learning of undergraduate mathematics are invited. Appropriate for this session are theoretical or empirical investigations conducted within clearly defined theoretical frameworks using either qualitative or quantitative methodologies. Of highest priority are proposals that report on completed studies which further existing work in the field. Sponsored by the MAA Research in Undergraduate Mathematics Education Special Interest Group (RUME SIGMAA).

My Favorite Demo: Innovative Strategies for Mathematics Instructors (MAA CP S1), Friday afternoon and Saturday morning, **David R. Hill***, Temple University, hill@math.temple.edu; and **Lila F. Roberts**, Georgia Southern University. Mathematics instructors use a myriad of innovative techniques for teaching mathematical concepts. Technology readily available in colleges and universities has provided a means to boost creativity and flexibility in lesson design. Tools an instructor utilizes may include specialized computer applications, animations and other multimedia tools, java applets, physical devices, games, etc. This contributed paper session will focus on novel demos that mathematics instructors have successfully used in their classrooms. Rather than focus on projects or student group activities, this contributed paper session will focus on the instructor's activities to facilitate learning. Mathematical content areas will include precalculus, calculus, elementary probability, and selected postcalculus topics. This session invites 1) demos that introduce a topic, 2) demos that illustrate how concepts are applicable, 3) demos that tell a story or describe the development of a procedure, and 4) demos that lead to an activity that involves the class. Presenters of demos are encouraged to give the demonstration, if time and equipment allow, and to discuss how to use it in a classroom setting. Proposals should describe how the demo fits into a course; the use of technology or technology requirements, if any; and the effect of the demo on student attitudes toward mathematics.

Mathematical Models of the Environment (MAA CP T1), Friday afternoon, **Karen D. Bolinger***, Clarion University, kbolinge@clarion.edu; **William D. Stone**, New Mexico Institute of Mining and Technology; and **Ahlam E. Tannouri**, Morgan State University. We invite presentations that deal with all aspects of using mathematics to model problems of the environment. Presentations are welcome that deal with exposition, pedagogy, or elementary modeling and that are suitable for college-level mathematics classes. Also

welcome are presentations that deal with student research efforts, senior capstone experiences, group projects, and applications of higher mathematics, whether they fit within any course, weave through many mathematics courses, or stretch across departmental boundaries. Talks especially valued are those that make practical suggestions concerning how to establish fruitful communication between mathematicians and applied scientists and how to stimulate mathematics students into thinking about real world problems in terms of the mathematics they study. This session is sponsored by the MAA Environmental Mathematics Special Interest Group (ENVIRON SIGMAA) and the MAA Committee on Mathematics and the Environment.

Philosophy of Mathematics (MAA CP U1), Friday afternoon, **Roger A. Simons***, Rhode Island College, rsimons@ric.edu; and **Satish C. Bhatnagar**, University of Nevada, Las Vegas. This session invites papers on any topic in the philosophy of mathematics except logic and set theory. Possible topics include the nature of mathematics, the nature of mathematical objects, the nature of mathematical knowledge, the relation between mathematics and the physical world, and the role of esthetics in the development of mathematics.

Focus on Integrating Graphic Handhelds into Collegiate Mathematics (MAA CP V1), Saturday morning, **Charles E. Hofmann***, LaSalle University, hofmann@lasalle.edu; and **Joseph R. Fiedler**, California State University Bakersfield. The appropriate use of technology, graphic calculators, algebra-capable calculators, and data collection devices in the mathematics classroom has been the center of much debate. Few are neutral regarding the use of these devices. The pervasive use by students complicates testing and opens the field to novel and focused assessment activities. This session invites papers about the full range of handheld devices and their classroom uses. Presenters are encouraged not only to share their classroom activities but also to discuss how these activities fit into the overall structure of their courses and curricula. Papers for this session are to discuss one or more of the following topics: classroom uses of handheld technologies, evaluations of their overall use at a particular institution, strategies for their effective incorporation into large lectures or into service courses, use of handheld technologies in significant ways in student projects and laboratories, and cross-disciplinary collaborations exploiting these technologies.

Mathematics and Sports (MAA CP W1), Saturday morning, **Sean L. Forman***, Saint Joseph's University, sforman@sju.edu; and **Douglas Drinen**, University of the South. When applied to the sporting arena, mathematics can provide both compelling classroom examples and interesting research problems. Baseball has long been mined for interesting statistics examples, ranging from regression and probability to the game-theoretic aspects of in-game strategy. Recent books on jai alai, football, and a few other sports have studied those sports through a mathematical lens. The economics of sports is now covered by its own journal, and the statistics publication *Chance* routinely discusses statistical examples from sporting events. This session invites papers describing interesting classroom

examples utilizing examples from sports and papers discussing the application of mathematics to sporting events.

Technology in Mathematics Teacher Preparation Courses (MAA CP X1), Saturday afternoon, **Mary Ann Connors***, Westfield State College, mconnors@foma.wsc.ma.edu; and **Christine Browning**, Western Michigan University, Kalamazoo. Preparing teachers to use technology appropriately is a challenging task for teacher-educators. Handheld computer algebra systems, graphing calculators, spreadsheets, and other computer software are popular tools for facilitating numerical investigations, connecting mathematics topics, and incorporating multiple representations of various meaningful problems. Such explorations lead to students' better understanding of mathematical concepts while empowering them to analyze practical problems. This session invites papers presenting ways in which we can prepare preservice teachers to use and develop meaningful activities that will engage their future students in mathematical thinking facilitated by technological tools. Papers that present curriculum revisions concentrating on meaningful technology use within courses that focus on mathematical content for preservice teachers are also encouraged. It is the hope that these curriculum revisions and/or activities will serve as a catalyst for class discussions of issues connected with K-12 curriculum and instruction, national and state standards, sequencing of topics, the role of technology, and assessment.

Strategies That Work to Positively Change Student Attitudes toward Mathematics (MAA CP Y1), Saturday afternoon, **Caren L. Diefenderfer***, Hollins University, cdiefenderfer@hollins.edu; **Janet L. Andersen**, Hope College; and **Elizabeth G. Yanik**, Emporia State University. We solicit papers that describe strategies, both in and out of the classroom, which demonstrate a positive impact on student attitudes toward, and perceptions of, mathematics. These may be strategies incorporated in math courses that general education students are "forced" to take or strategies used in courses designed for majors. In addition, talks may emphasize departmental activities that have helped to create a positive esprit de corps and talks that address encouraging members of underrepresented groups are particularly welcome. Our concern is that many students (including mathematics majors) leave our programs with negative attitudes toward mathematics. We are also concerned that there are potential majors that we are not reaching, because we are not adequately conveying the benefits and satisfaction of doing mathematics. This may be particularly true of underrepresented groups. We would like the mathematics community to be aware of successful strategies that can be modified for use in our individual programs which will help students to learn, experience, and believe in the joy and magic of mathematics. We are also interested in the question of how to cultivate a mathematically appreciative society. In particular, how can such strategies be used to attract and retain more minority students in mathematics courses?

General Contributed Paper Session (MAA CP Z1), Wednesday, Thursday, and Saturday afternoons, **Laura J. Wallace***, California State University San Bernardino, wallace@csusb.edu. Papers may be presented on any math-

ematical topic. Papers that fit into one of the other sessions should be sent to that organizer, not to this session. Any paper that cannot be accommodated in one of the named contributed paper sessions will be diverted automatically to this session; therefore, papers should not be sent to more than one session organizer.

Submission Procedures for MAA Contributed Papers

Send a detailed one-page summary of your paper by email directly to the organizer indicated with an asterisk (*) no later than **September 9, 2003**; concurrently, submit your abstract directly to the AMS (see below for instructions). In order to enable the organizer(s) to evaluate the appropriateness of your paper, include as much detailed information as possible within the one-page summary limitation. The AMS will publish abstracts for MAA talks. These will be available online about two months before the meeting, and paper copy will be available onsite to registered participants. Abstracts must be submitted on the appropriate AMS form within stated limits and NO LATER THAN OCTOBER 1. Electronic submission is available via the Internet or email. No technical knowledge of \LaTeX is necessary for submission; however, \LaTeX and \AMS-\LaTeX are the only typesetting systems that can be used if display mathematics is used or special formatting is desired. To see descriptions and to view the electronic templates available, visit the abstracts submission page at <http://www.ams.org/abstracts/instructions.html>, or send email to: abs-submit@ams.org, typing HELP as the subject line. Abstracts submitted electronically are quickly either acknowledged, with a unique abstract number assigned to the presentation; or rejected, with a short message on what information is missing or inappropriate. All questions concerning the submission of abstracts should be addressed to abs-coord@ams.org. The EVENT CODE is the seven characters appearing in the title description shown above, e.g., MAA CP A1. The SUBJECT CODE (required in the electronic template) is the last two-character letter/number combination from the event code list, i.e., A1.

Audiovisual equipment available for MAA talks: Each session room contains an overhead projector and screen; blackboards will not be available. Persons needing additional equipment should contact, as soon as possible and DEFINITELY PRIOR TO SEPTEMBER 9, 2003, the session organizer whose name is followed by an asterisk (*).

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:
November 25, 2003

For abstracts: January 20, 2004

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:
December 9, 2003

For abstracts: February 3, 2004

Invited Addresses

Mario Bonk, University of Michigan, *Title to be announced.*

Irene Gamba, University of Texas, *Title to be announced.*

R. I. Grigorchuk, Texas A&M University, *Title to be announced.*

Eric Zaslow, Northwestern University, *Title to be announced.*

Special Sessions

Algebraic Coding Theory (Code: AMS SS H1), **Marcus Greferath**, San Diego State University, and **Sergio R. López-Permouth**, Ohio University.

Differential Equations and Control Theory (Code: AMS SS A1), **Sergiu Aizicovici** and **Nicolai Pavel**, Ohio University.

Dynamical Systems (Code: AMS SS C1), **Patrick D. McSwiggen**, University of Cincinnati, and **Todd Young**, Ohio University.

Groups, Representations, and Characters (Code: AMS SS B1), **Mark Lewis**, Kent State University, and **Thomas R. Wolf**, Ohio University.

Linear Algebra and its Applications (Code: AMS SS F1), **S. K. Jain**, Ohio University, and **Michael Neumann**, University of Connecticut.

Statistics and Probability (Code: AMS SS G1), **Maria Rizzo** and **Vladimir Vinogradov**, Ohio University.

Theory of Rings and Modules (Code: AMS SS D1), **Nguyen Viet Dung**, **Franco Guerriero**, **Dinh Van Huynh**, and **Pramod Kanwar**, Ohio University.

Los Angeles, California

University of Southern California

April 3–4, 2004

Meeting #996

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: September 3, 2003

For consideration of contributed papers in Special Sessions:
December 16, 2003

For abstracts: February 10, 2004

Invited Addresses

Dan Boneh, Stanford University, *Title to be announced.*

Maria E. Schonbek, University of California Santa Cruz, *Title to be announced.*

Paul Smith, University of Washington, *Noncommutative Algebraic Geometry.*

Christopher Martin Thiele, University of California Los Angeles, *Title to be announced.*

Special Sessions

Contact and Symplectic Geometry (Code: AMS SS A1), **Dragomir Dragnev**, **Ko Honda**, and **Sang Seon Kim**, University of Southern California.

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:
December 30, 2003

For abstracts: February 24, 2004

Invited Addresses

Dennis Sullivan, City College (CUNY), *Title to be announced.*

Special Sessions

Algebraic Geometry and Mirror Symmetry (Code: AMS SS D1), Ciprian Borcea, Rider University.

Automorphic Forms and Analytic Number Theory (Code: AMS SS A1), Stephen Miller, Rutgers University, and Ramin Takloo-Bighash, Princeton University.

Geometry of Protein Modelling (Code: AMS SS E1), Ileana Streinu, Smith College, and Jack Snoeyink, University of North Carolina at Chapel Hill.

Homotopical Physics (Code: AMS SS G1), James Stasheff, University of North Carolina, and Thomas J. Lada, North Carolina State University.

Homotopy Theory, a Special Session in Honor of Bill Browder's 70th Birthday (Code: AMS SS C1), Martin Bendersky, Hunter College, and Donald Davis, Lehigh University.

Strings and Branes (Code: AMS SS F1), Thomas P. Branson, University of Iowa, and S. James Gates, University of Maryland.

Surgery, a Special Session in Honor of Bill Browder's 70th Birthday (Code: AMS SS H1), Frank S. Quinn, Virginia Polytech Institute & State University.

Tomography and Integral Geometry (Code: AMS SS B1), Andrew Markoe, Rider University, and Eric Todd Quinto, Tufts University.

Houston, Texas

University of Houston

May 13–15, 2004

Meeting #998

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

Nashville, Tennessee

Vanderbilt University

October 16–17, 2004

Meeting #999

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: March 16, 2004

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

For abstracts: To be announced

Albuquerque, New Mexico

University of New Mexico

October 16–17, 2004

Meeting #1000

Southeastern 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: March 16, 2004

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

For abstracts: To be announced

Evanston, Illinois

Northwestern University

October 23–24, 2004

Meeting #1001

Central Section

Associate secretary: Susan J. Friedlander

Announcement issue of *Notices*: August 2004

Program first available on AMS website: September 9, 2004

Program issue of electronic *Notices*: October 2004

Issue of *Abstracts*: To be announced

Deadlines

For organizers: March 23, 2004
 For consideration of contributed papers in Special Sessions:
 July 7, 2004
 For abstracts: August 31, 2004
 For abstracts: To be announced

Invited Addresses

Ian Agol, University of Illinois-Chicago, *Title to be announced.*
Robert Ghrist, University of Illinois-Urbana, *Title to be announced.*
Yuri Manin, Northwestern University, *Title to be announced.*
Paul Siedel, Imperial College-London and University of Chicago, *Title to be announced.*

Pittsburgh, Pennsylvania

University of Pittsburgh

November 6–7, 2004

Meeting #1002

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

Wednesday – Saturday
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

Newark, Delaware

University of Delaware

April 2–3, 2005

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 2, 2004
 For consideration of contributed papers in Special Sessions:
 To be announced
 For abstracts: To be announced

Mainz, Germany

*Deutsche Mathematiker-Vereinigung (DMV)
 and the Osterreichische Mathematische
 Gesellschaft (OMG)*

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

San Antonio, Texas

Henry B. Gonzalez Convention Center

January 12–15, 2006

Thursday – Sunday
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

Thursday – Sunday
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

San Diego, California

San Diego Convention Center

January 6–9, 2008

Sunday – Wednesday
Joint Mathematics Meetings, including the 114th Annual Meeting of the AMS, 91st 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 2007
Program first available on AMS website: November 1, 2007
Program issue of electronic *Notices*: January 2008
Issue of *Abstracts*: Volume 29, Issue 1

Deadlines

For organizers: April 6, 2007
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

Washington, District of Columbia

*Marriott Wardman Park Hotel and
Omni Shoreham Hotel*

January 7–10, 2009

Wednesday – Saturday
Joint Mathematics Meetings, including the 115th Annual Meeting of the AMS, 92nd 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: Lesley M. Sibner
Announcement issue of *Notices*: October 2008
Program first available on AMS website: November 1, 2008
Program issue of electronic *Notices*: January 2009
Issue of *Abstracts*: Volume 30, Issue 1

Deadlines

For organizers: April 7, 2008
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