
Meetings & Conferences of the AMS

PROGRAM ALERT: In order that AMS meeting programs include the most timely information for each speaker, abstract deadlines have been moved to dates much closer to the meeting. What this means is that most meeting programs will appear in the *Notices* *after* the meeting takes place. However, complete meeting programs will be available on e-MATH about two to three weeks after the abstract deadline. ***Remember***, e-MATH is your most comprehensive source for up-to-date meeting information. See <http://www.ams.org/meetings/>.

Chicago, Illinois

DePaul University-Chicago

September 12–13, 1998

Meeting #935

Central Section

Associate secretary: Susan J. Friedlander

Announcement issue of *Notices*: June/July 1998

Program issue of *Notices*: November 1998

Issue of *Abstracts*: Volume 19, Issue 3

Deadlines

For organizers: Expired

ATTENTION! PLEASE READ CAREFULLY!

Due to the extraordinary number of people (100,000+) attending a conference on Manufacturing Technology being held in Chicago we have been advised that there are NO hotel rooms available in the immediate area. The AMS has blocked rooms at the O'Hare Hilton. The cost is \$125 single or double. Reservations can be made by calling 773-686-8000 or 1-800-455-8667. Mention the American Mathematical Society (AMS) meeting.

Transportation from the Hilton to DePaul is best provided by the "Blue Line" Chicago Transit Authority (CTA) train which runs 24 hours a day, approximately every 10 minutes (every 20 minutes at night). From the trains, exit at Jackson Boulevard (300 south). The fare is \$1.50 and exact change is recommended to simplify entering the train stations. The ride between the hotel and DePaul University is approximately 30-35 minutes.

We regret any inconvenience this development may cause. The AMS Website (www.ams.org/meetings/) has been updated to reflect any change in hotel availability.

For consideration of contributed papers in Special Sessions: Expired

For abstracts: July 21, 1998

Invited Addresses

Vitaly Bergelson, Ohio State University, *Number theory, combinatorics and ergodic theorems along polynomials.*

Sheldon Katz, Oklahoma State University, *The mathematics and physics of mirror symmetry.*

Ralf Spatzier, University of Michigan, *Rigidity phenomena in geometry and dynamics.*

Vladimir Voevodsky, Northwestern University, *Motivic homotopy type?*

Special Sessions

Algebraic Coding (Code: AMS SS C1), **William C. Huffman**, Loyola University of Chicago, and **Vera S. Pless**, University of Illinois at Chicago.

Algebraic Combinatorics: Association Schemes and Related Topics (Code: AMS SS L1), **Sung Yell Song**, Iowa State University.

Algebraic Geometry and Mirror Symmetry (Code: AMS SS N1), **Ezra Getzler** and **Mikhail Kapranov**, Northwestern University, and **Sheldon Katz**, Oklahoma State University.

Commutative Algebra (Code: AMS SS J1), **Irena V. Peeva**, Massachusetts Institute of Technology, and **Michael Stillman**, Cornell University.

Complex Dynamics (Code: AMS SS H1), **Shmuel Friedland**, University of Illinois at Chicago.

Complexity of Geometric Structures on Manifolds (Code: AMS SS F1), **Melvin G. Rothenberg** and **Shmuel A. Weinberger**, University of Chicago.

Ergodic Theory and Topological Dynamics (Code: AMS SS G1), **Roger L. Jones**, DePaul University, and **Randall McCutcheon**, Wesleyan College.

Fourier Analysis (Code: AMS SS E1), **Marshall Ash**, DePaul University, and **Mark A. Pinsky**, Northwestern University.

K-Theory and Motivic Cohomology (Code: AMS SS D1), **Kevin Knudson**, Northwestern University, and **Mark Walker**, University of Nebraska-Lincoln.

Nonlinear Partial Differential Equations. (Code: AMS SS O1), **Gui-Qiang Chen** and **Konstantina Trivisa**, Northwestern University.

Number Theory (Code: AMS SS I1), **Jeremy T. Teitelbaum** and **Yuri Tschinkel**, University of Illinois at Chicago.

Orthogonal Polynomial Series, Summability and Conjugates (Code: AMS SS M1), **Calixto P. Calderon**, University of Illinois at Chicago, and **Luis A. Caffarelli**, University of Texas at Austin.

Rigidity in Geometry and Dynamics (Code: AMS SS K1), **Steven E Hurder**, University of Illinois at Chicago, and **Ralf J. Spatzier**, University of Michigan.

Stochastic Analysis (Code: AMS SS A1), **Richard B. Sowers**, University of Illinois-Urbana, and **Elton P. Hsu**, Northwestern University.

Topics in Mathematics and Curriculum Reform (Code: AMS SS B1), **Richard J. Maher**, Loyola University Chicago.

Winston-Salem, North Carolina

Wake Forest University

October 9–10, 1998

Meeting #936

Southeastern Section

Associate secretary: Robert J. Daverman

Announcement issue of *Notices*: August 1998

Program issue of *Notices*: December 1998

Issue of *Abstracts*: Volume 19, Issue 3

Deadlines

For organizers: Expired

For consideration of contributed papers in Special Sessions: Expired

For abstracts: August 18, 1998

Invited Addresses

David F. Anderson, University of Tennessee, *Unique and nonunique factorization in integral domains*.

Idris Assani, University of Carolina, Chapel Hill, *A.e. multiple recurrence and Wiener Wintner dynamical systems*.

Marcy Barge, Montana State University-Bozeman, *Structure of attractors*.

Roger Temam, Indiana University, *Some mathematical problems related to the equations of the atmosphere and the oceans*.

Special Sessions

Abelian Groups and Modules (Code: AMS SS B1), **Ulrich Albrecht**, Auburn University.

Boundary Value Problems (Code: AMS SS K1), **John V. Baxley** and **Stephen B. Robinson**, Wake Forest University.

Combinatorics and Graph Theory (Code: AMS SS A1), **Bruce Landman**, University of North Carolina.

Commutative Ring Theory (Code: AMS SS E1), **David F. Anderson**, University of Tennessee, Knoxville, and **Evan Houston**, University of North Carolina, Charlotte.

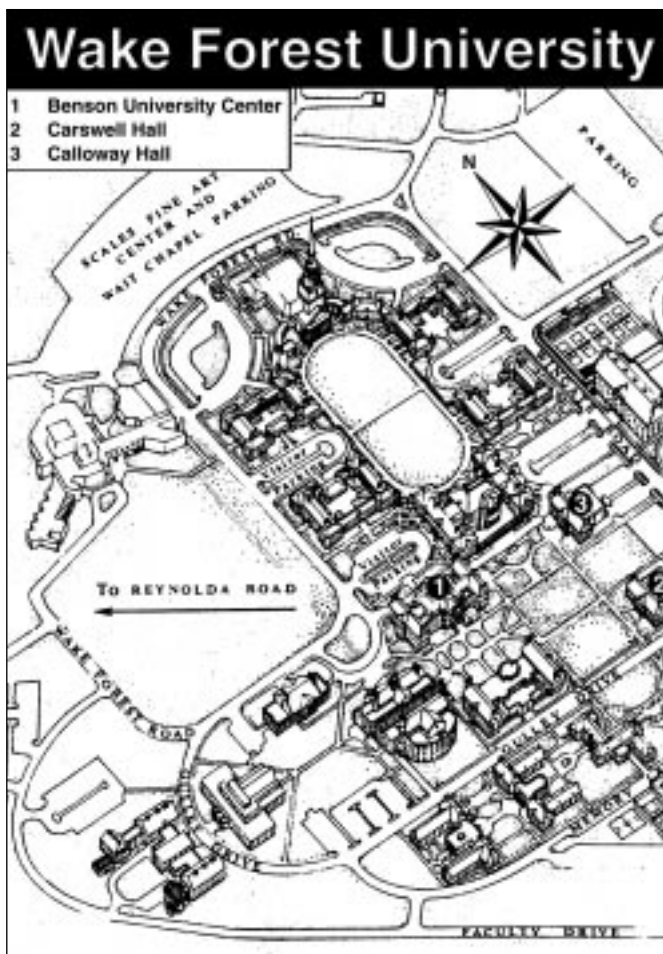
Ergodic Theory (Code: AMS SS F1), **Idris Assani**, University of North Carolina, Chapel Hill.

Modern Methods in Set Theory and General Topology (Code: AMS SS H1), **Winfried Just** and **Paul Szeptycki**, Ohio University.

Noncommutative Algebra (Code: AMS SS C1), **Ellen Kirkman** and **James Kuzmanovich**, Wake Forest University.

Operator Theory and Holomorphic Spaces (Code: AMS SS L1), **Tavan T. Trent** and **Zhijian Wu**, University of Alabama.

Recent Results on the Topology of Three-Manifolds (Code: AMS SS D1), **Hugh Nelson Howards**, Wake Forest University.



Spectral Theory of Differential Equations and Applications (Code: AMS SS G1), **Dominic Clemence** and **Alexandra Kurepa**, North Carolina A&T University.

Topology in Dynamics (Code: AMS SS J1), **Marcy Barge**, Montana State University-Bozeman, and **Krystyna M. Kuperberg**, Auburn University.

Accommodations

Participants should make their own arrangements directly with a hotel of their choice. Special rates have been negotiated at the hotels listed below. Participants should state that they are with AMS-WFU Math and Computer Science. **All rooms will be on a space available basis after the deadline given.** The AMS is not responsible for rate changes or for the quality of the accommodations chosen. Because the Winston-Salem area is a popular destination in the fall, participants should **make reservations as early as possible.**

Courtyard By Marriott, 3111 University Parkway, 336-727-1277 (fax: 336-722-8219); \$65 single/double; about .8 miles from campus (10-minute walk). Breakfast available. **Deadline for reservations is September 25.**

Ramada Plaza Coliseum, 3050 University Parkway, 336-723-2911 (fax: 336-777-1003); \$62 single/double; about .8 miles from campus (10-minute walk). Full-service restaurant on premises. **Deadline for reservations is September 8.**

Holiday Inn Select, 5790 University Parkway, 336-767-9595 (fax: 336-744-1888); \$67 single/double; about 3.2 miles from campus. Full-service restaurant on premises. **Deadline for reservations is September 25.**

Food Service and Local Information

Wake Forest campus cafeteria is in Reynolda Hall, open 7:00 a.m. to 7:00 p.m. daily.

Information about the university and the Department of Mathematics and Computer Science can be found at <http://www.wfu.edu/> and <http://www.mthcsc.wfu.edu/> respectively.

Other Activities

AMS Book Sale: Examine the newest titles from AMS. Most books will be available at a special 50% discount offered only at meetings. Complimentary coffee will be served courtesy of AMS Membership Services.

Parking

Free parking is available in the large lots behind Wait Chapel and next to Worrell Law and Management Center.

Registration and Meeting Information

Registration will take place in the main lobby of Benson University Center from 7:30 a.m. to 4:00 p.m. on Friday and 8 a.m. to noon on Saturday. Sessions will take place in Calloway Hall, Carswell Hall, and Benson University Center.

Registration fees: (payable on-site only) \$30/AMS members; \$45 nonmembers; \$10 emeritus members, students, or unemployed mathematicians. Fees are payable by cash, check, VISA, MasterCard, Discover, or American Express.

Travel

The closest airport is Piedmont Triad International Airport in Greensboro.

USAirways has been selected as the official airline for the meeting. The following specially negotiated rates are available only for the period October 6-13, 1998: 5% discount off first class and any published USAirways promotional round-trip fare, or 10% discount off unrestricted coach fares with seven-day advance reservations and ticketing required. These discounts are valid providing all rules and restrictions are met and are applicable for travel from the continental U.S., Bahamas, Canada, and San Juan, P.R. Discounts are not combinable with other discounts or promotions. Additional restrictions may apply on international travel. For reservations call (or have your travel agent call) 800-334-8644 between 8:00 a.m. and 9:00 p.m. Eastern Daylight Time. **Refer to Gold File Number 73670341.**

If driving from the airport to the campus, follow the directions below from the northeast and east. Cab fare is about \$35 for one or two persons. The Airport Express shuttle, located on the lower level of the airport at the baggage claim area, costs \$25 one way or \$48 round trip per person.

Driving directions: From the south: Interstate 85 to Charlotte; Interstate 77 to Statesville; Interstate 40 to Winston-Salem; Business 40 at Winston-Salem; Silas Creek Parkway north; bear right 100 yards before the second stoplight; cross Reynolda Road directly into WFU campus.

- From the west: Interstate 40 to Winston-Salem and follow as above.

- From the north and northwest: Interstate 77 to Statesville; Interstate 40 to Winston-Salem and follow as above.

- From the northeast and east: Interstate 85 to Greensboro; Interstate 40 to Winston-Salem and follow as above.

- From the northeast and east (alternate): Interstate 85 to Greensboro; Interstate 40 to Kernersville; Business 40 to Winston-Salem; Cherry Street north which becomes University Parkway at Lawrence Joel Veterans Memorial Coliseum.

Weather

The weather in Winston-Salem during mid-October is typically mild with daytime temperatures between 60° and 70°F. Nighttime temperatures run between 35° and 45°F.

State College, Pennsylvania

Pennsylvania State University

October 24-25, 1998

Meeting #937

Eastern Section

Associate secretary: Lesley M. Sibner

Announcement issue of *Notices*: August 1998

Program issue of *Notices*: January 1999

Issue of *Abstracts*: Volume 19, Issue 4

Deadlines

For organizers: Expired

For consideration of contributed papers in Special Sessions: Expired

For abstracts: September 1, 1998

Invited Addresses

Jeffrey Adams, University of Maryland, College Park, *Characters of nonlinear groups*.

Nigel D. Higson, Pennsylvania State University, *Title to be announced*.

Tasso J. Kaper, Boston University, *Title to be announced*.

Kate Okikiolu, University of California, San Diego and MIT, *Title to be announced*.

Special Sessions

Automorphic Forms and Arithmetic Geometry (Code: AMS SS H1), **Kevin L. James**, and **Wen-Ching Winnie Li**, Pennsylvania State University.

C-Algebraic Methods in Geometry and Topology* (Code: AMS SS B1), **Nigel D. Higson**, Pennsylvania State University, and **Erik Guentner** and **John D. Trout Jr.**, Dartmouth College.

Least Squares and Total Least Squares (Code: AMS SS G1), **Jesse L. Barlow**, Pennsylvania State University.

Mathematical Modeling of Inhomogeneous Materials: Homogenization and Related Topics (Code: AMS SS D1), **Leonid Berlyand**, Pennsylvania State University, and **Karl Voss**, Yale University.

Metric Topology (Code: AMS SS F1), **Steve Armentrout**, **Joseph Borzellino**, **Hossein Movahedi-Lankarani**, and **Robert Wells**, Pennsylvania State University.

Modeling of Phase Transitions of Partially Ordered Physical Systems (Code: AMS SS C1), **Maria-Carme T. Calderer**, Pennsylvania State University.

Operator Algebras and Noncommutative Geometry (Code: AMS SS K1), **Victor Nistor**, **Paul F. Baum**, and **Adrian Ocneanu**, Pennsylvania State University.

Partitions and q-Series (Code: AMS SS A1), **George E. Andrews**, **Ken Ono**, and **Scott D. Ahlgren**, Pennsylvania State University.

Set Theory (Code: AMS SS J1), **Thomas Jech**, Pennsylvania State University.

Symplectic Geometry and Quantization (Code: AMS SS E1), **Jean-Luc Brylinski**, **Ranee Brylinski**, **Boris Tsygan**, and **Ping Xu**, Pennsylvania State University.

Accommodations

Participants should make their own arrangements directly with a hotel of their choice. Special rates have been negotiated at the hotel listed below. Participants should state that they will be attending the AMS Eastern Section Meeting at Pennsylvania State University. **All rooms will be on a space available basis after the deadline given.** The AMS is not responsible for rate changes or for the quality of the accommodations chosen. Because the Penn State area is a popular destination in the fall, participants should **make reservations as early as possible.**

Ramada Inn, 1450 South Atherton St. (Business Route 322), 814-238-3001 (fax: 814-237-1345); \$70 single/double (plus 7% tax); approximately 2 miles from the meeting site. **Deadline is October 21, 1998.**

Food Service and Local Information

Several restaurants are located within walking distance. For a restaurant guide and information about State College and Penn State, see <http://www.math.psu/weiss/aboutsc.html>. Also see the page maintained by the math department at <http://www.math.psu.edu>.

Other Activities

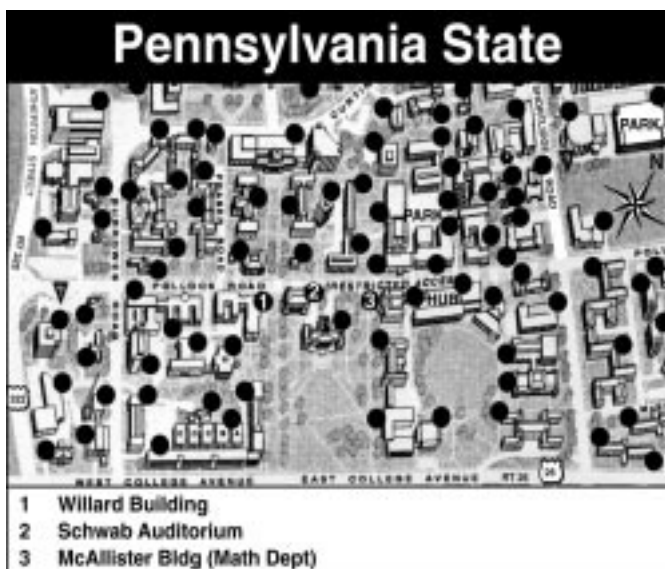
AMS Book Sale: Examine the newest titles from AMS. Most books will be available at a special 50% discount offered only at meetings. Complimentary coffee will be served courtesy of AMS Membership Services.

Parking

Parking is free on campus on the weekends, except in posted "24-hour restricted lots". The closest parking lot is off of Pollock Road behind Osmond Laboratory, across from the Hetzel Union Building (HUB). There are two parking garages on campus. The Eisenhower Parking Deck is located behind the Eisenhower Auditorium on Shortledge Road and the HUB Parking Deck located on Shortledge Road next to the Grange Building, corner of Pollock Road and Shortledge Road. Both are a 12-15 minute walk to the meeting.

Registration and Meeting Information

Registration will take place in the lobby of Schwab Auditorium from 7:30 a.m. to 4:00 p.m. on Saturday and 7:30



a.m. to noon on Sunday. Sessions will take place in Schwab Auditorium and the Willard Building next door.

Registration fees: (payable on-site only) \$30/AMS members; \$45 nonmembers; \$10 emeritus members, students, or unemployed mathematicians. Fees are payable by cash, check, VISA, MasterCard, Discover, or American Express.

Travel

Pennsylvania State University at University Park is located approximately in the geographic center of the state, in the town of State College. All modes of public transportation and several major highways service the University, making it easily accessible from metropolitan areas.

USAirways has been selected as the official airline for the meeting. The following specially negotiated rates are available only for the period 5–12: 5% discount off first class and any published USAirways promotional round-trip fare, or 10% discount off unrestricted coach fares with seven-day advance reservations and ticketing required. These discounts are valid providing all rules and restrictions are met and are applicable for travel from the continental U.S., Bahamas, Canada, and San Juan, P.R. Discounts are not combinable with other discounts or promotions. Additional restrictions may apply on international travel. For reservations call (or have your travel agent call) 800-334-8644 between 8:00 a.m. and 9:00 p.m. Eastern Daylight Time. **Refer to Gold File Number 73670341.**

Airlines serve the State College area through the University Park Airport (State College, PA) located five miles from campus.

Limousine or taxi service is available for all flights. The approximate cost from the airport to Penn State campus is \$11, and airport to the Ramada Inn is \$14.

For taxi service call 814-353-6001; limousine service is available by calling 814-353-6000. There is a complimentary phone at the airport to make these calls.

Driving directions: University Park (State College) is readily accessible from both ends of the state via Interstate 80 (I-80):

From New York City, the suggested route is via George Washington Bridge to I-80. In Pennsylvania, exit from I-80 (the Keystone Shortway) at Exit 24 (Bellefonte), and follow Route 26 south to State College. Once in State College Route 26 is known as College Avenue and it runs perpendicular to Atherton Street (Business Route 322).

From Philadelphia, there are two routes. Take the Northeast Extension of the Pennsylvania Turnpike to I-80, leave I-80 at Exit 24 (Route 26-Bellefonte exit and follow Route 26 to State College; or take Philadelphia's Schuylkill Expressway to the Pennsylvania Turnpike, leave the turnpike at Exit 19 (Harrisburg East), and follow I-283 to I-83 and proceed north on I-83 to the I-81 Interchange. Then follow I-81 west to Route 322, 22 west exit. Proceed west on Route 322 through Lewistown to State College. Once you get into State College, take Business Route 322 (Atherton Street).

From Pittsburgh, follow Route 22 to Duncansville, Route 220, bypassing downtown Altoona and Tyrone, through Port Matilda, and then Route 322 east to State College. Once you get into State College, take Business Route 322 (Atherton

Street). A scenic route follows Route 22 beyond Duncansville to Water Street, Route 45 to Pine Grove Mills, and Route 26 to State College.

From Washington, D.C., several routes are available. Take Route 270 to Frederick, Route 70 to Breezewood, Route 30 to Everett, and Route 26 to State College (once in State College, Route 26 is known as College Avenue); or follow Route 270 to Frederick, Route 15 past Gettysburg; through Camp Hill to Amity Hall, and then Route 322 west to State College; or take I-95 or the Baltimore-Washington Parkway to Baltimore, west loop I-695 to I-83 north. Continue on I-83 north to the I-81 Interchange. Then follow I-81 west to Route 322/22 Exit. Proceed west on Route 322 to Lewistown and State College. Once into State College, follow Business Route 322 (Atherton Street).

From the west, take I-80 to Exit 20 (Woodland) just east of Clearfield, then Route 322 east to State College. Once into State College, follow Business Route 322 (Atherton Street). One may also exit I-80 at Exit 24 (Bellefonte) and follow Route 26 south to State College. Once into State College, Route 26 is known as College Avenue.

By bus: Trailways and Greyhound Lines connections are available to and from State College. The bus station is a couple of blocks from the meeting rooms on Penn State campus. Call Trailways at 814-238-7362, or Greyhound at 814-237-5865.

Weather

The weather at Penn State during the end of October is typically cool with possible rain showers.

Tucson, Arizona

University of Arizona-Tucson

November 14–15, 1998

Meeting #938

Western Section

Associate secretary: Robert M. Fossum/Bernard Russo

Announcement issue of *Notices*: September 1998

Program issue of *Notices*: To be announced

Issue of *Abstracts*: Volume 19, Issue 4

Deadlines

For organizers: Expired

For consideration of contributed papers in Special Sessions: July 29, 1998

For abstracts: September 23, 1998

Invited Addresses

Alexandru Buium, University of New Mexico, *Differential algebraic geometry and derivatives of integers.*

Hans Koch, University of Texas at Austin, *Title to be announced.*

Mark Lewis, University of Utah, *Title to be announced.*

Jiang-Hua Lu, University of Arizona, *Title to be announced.*

Special Sessions

Arithmetic Algebraic Geometry (Code: AMS SS H1), **Douglas Ulmer**, University of Arizona.

Classical and Quantum Mechanical Lattice Spin Systems (Code: AMS SS E1), **Tom Kennedy**, University of Arizona.

Conditionally Positive Definite Functions and Interpolation Schemes (Code: AMS SS G1), **Donald Myers**, University of Arizona.

Dynamical Systems (Code: AMS SS F1), **Marek Rychlik** and **Maciej P. Wojtkowski**, University of Arizona.

Filaments, Interfaces and Patterns (Code: AMS SS I1), **Nicholas Ercolani** and **Jerry Moloney**, University of Arizona.

Geometry and Lie Groups (Code: AMS SS B1), **Samuel R. Evens** and **Jiang-Hua Lu**, University of Arizona.

Groups and Computation (Code: AMS SS A1), **Robert Beals**, University of Arizona.

Integrable Systems and Random Matrix Theory (Code: AMS SS K1), **K. T-R McLaughlin**, University of Arizona, and **Craig A. Tracy**, University of California, Davis.

Mathematics and Biology (Code: AMS SS D1), **Jim Cushing** and **Shandelle M. Henson**, University of Arizona.

Spectral Geometry and Its Applications (Code: AMS SS C1), **Xianzhe Dai**, University of Southern California, and **Leonid Friedlander**, University of Arizona.

Striking the Balance: Theory, Technique, and Applications in Lower Division Mathematics Courses (Code: AMS SS J1), **Joseph Watkins**, University of Arizona.

San Antonio, Texas

Henry B. Gonzales Convention Center

January 13–16, 1999

Meeting #939

Joint Mathematics Meetings, including the 105th Annual Meeting of the AMS, 82nd 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 1998

Program issue of *Notices*: January 1998

Issue of *Abstracts*: Volume 20, Issue 1

Deadlines

For organizers: Expired

For consideration of contributed papers in Special Sessions: August 6, 1998

For abstracts: October 1, 1998

For summaries of papers to MAA organizers: September 4, 1998

Joint Invited Addresses

Jennifer Tour Chayes, Microsoft, *Title to be announced.*

Joan Feigenbaum, AT&T Bell Laboratories, *Department Head, Algorithms & Distributed Data.*

Joint Special Sessions

Geometry in Dynamics (Code: AMS SS F1), **Krystyna Kuiperberg**, Auburn University.

Mathematics and Education Reform (Code: AMS SS M1), **William H. Barker**, Bowdoin College, **Jerry L. Bona**, University of Texas at Austin, **Naomi Fisher**, University of Illinois at Chicago, and **Kenneth C. Millett**, University of California Santa Barbara.

Model Theory and Its Applications (Code: AMS SS S1), **Anand Pillay**, MSRI and University of Illinois, Urbana.

Research in Mathematics by Undergraduates (Code: AMS SS E1), **John E. Meier** and **Leonard A. VanWyk**, Lafayette College.

The History of Mathematics (Code: AMS SS L1), **Karen H. Parshall**, University of Virginia, and **Victor J. Katz**, University of the District of Columbia.

AMS Invited Addresses

Ronald L. Graham, AT&T Labs, *Title to be announced* (AMS Retiring Presidential Address).

Nancy J. Kopell, Boston University, *Title to be announced* (AMS Josiah Willard Gibbs Lecture).

Sorin Popa, University of California Los Angeles, *Title to be announced.*

Chuu-Lian Terng, Northeastern University, *Title to be announced.*

Alan D. Weinstein, University of California, Berkeley, *Title to be announced.*

AMS Special Sessions

Banach Spaces of Holomorphic Functions and Operators on These Spaces (Code: AMS SS D1), **Benjamin A. Lotto**, Vassar College, and **Pamela B. Gorkin**, Bucknell University.

Bergman Spaces and Related Topics (Code: AMS SS B1), **Peter L. Duren**, University of Michigan, Ann Arbor, and **Michael Stessin**, SUNY at Albany.

Combinatorial Topology (Code: AMS SS K1), **Laura M. Anderson** and **Jonathan P. McCammond**, Texas A&M University.

Commutative Algebra (Code: AMS SS G1), **Scott Thomas Chapman**, Trinity University.

Commutative Algebra and Algebraic Geometry (Code: AMS SS J1), **Roger A. Wiegand**, University of Nebraska and Purdue University, and **Susan Elaine Morey**, Southwest Texas State University.

Computational Algebraic Geometry for Curves and Surfaces (Code: AMS SS R1), **Mika K. Seppala**, Florida State University, and **Emil J. Volcheck**, National Security Agency.

Development of Electronic Communications in Mathematics (Code: AMS SS N1), **Alfonso Castro**, University of North Texas, and **Rafael De La Llave**, University of Texas at Austin.

Discrete Models and Difference Equations (Code: AMS SS T1), **Saber Elaydi**, Trinity University, and **Gerry Ladas**, University of Rhode Island.

Dynamical, Spectral, and Arithmetic Zeta-Functions (Code: AMS SS H1), **Michel L. Lapidus**, University of California, Riverside, and **Machiel van Frankenhuysen**, Institut des Hautes Études Scientifiques.

Hamiltonian Mechanics: Applications to Celestial Mechanics and Chemistry (Code: AMS SS Y1), **Michael K. Rudnev**, The University of Texas at Austin, and **Stephen R. Wiggins**, California Institute of Technology.

Mathematics Education and Mistaken Philosophies of Mathematics (Code: AMS SS U1), **Saunders Mac Lane**, University of Chicago, and **Richard A. Askey**, University of Wisconsin-Madison.

Operator Algebras and Applications (Code: AMS SS P1), **Allan P. Donsig**, University of Nebraska-Lincoln, and **Nik Weaver**, Washington University.

Probabilistic Combinatorics (Code: AMS SS C1), **Béla Bollobás**, University of Memphis.

Recent Developments in Differential Geometry (Code: AMS SS V1), **Huai-Dong Cao** and **Jianxin Zhou**, Texas A&M University.

Several Complex Variables (Code: AMS SS A1), **Emil J. Straube** and **Harold P. Boas**, Texas A&M University.

Singularities in Algebraic and Analytic Geometry (Code: AMS SS X1), **Caroline G. Grant**, U.S. Naval Academy, and **Ruth I. Michler**, University of North Texas.

The Functional and Harmonic Analysis of Wavelets (Code: AMS SS Q1), **Lawrence W. Baggett**, University of Colorado, and **David R. Larson**, Texas A&M University.

The Mathematics of the Navier-Stokes Equations (Code: AMS SS W1), **Peter A. Perry** and **Zhong-Wei Shen**, University of Kentucky.

Gainesville, Florida

University of Florida

March 12–13, 1999

Meeting #940

Southeastern Section

Associate secretary: Robert J. Daverman

Announcement issue of *Notices*: To be announced

Program issue of *Notices*: To be announced

Issue of *Abstracts*: To be announced

Deadlines

For organizers: Expired

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

For abstracts: To be announced

Invited Addresses

Alexander N. Dranishnikov, University of Florida, *Title to be announced.*

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

Michael P. Loss, Georgia Institute of Technology, *Title to be announced.*

John G. Thompson, University of Florida, *Title to be announced.*

Special Sessions

Algebraic and Geometric Combinatorics (Code: AMS SS P1), **Andrew J. Vince** and **Neil L. White**, University of Florida.

Analytical Problems in Mathematical Physics (Code: AMS SS M1), **Eric A. Carlen**, Georgia Institute of Technology, and **Laszlo Erdos**, Courant Institute, NYU.

Computability Theory (Code: AMS SS G1), **Douglas Cenzer**, University of Florida, **Geoffrey Louis LaForte**, University of West Florida, and **Rick L. Smith**, University of Florida.

Continuum Theory and Dynamical Systems (Code: AMS SS A1), **Philip Boyland** and **Beverly Brechner**, University of Florida, and **John Mayer**, University of Alabama at Birmingham.

Finite Groups and Their Representations (Code: AMS SS D1), **Alexandre Turull**, University of Florida.

Galois Theory (Code: AMS SS E1), **J. G. Thompson** and **H. Voelklein**, University of Florida.

Geometric Topology (Code: AMS SS H1), **James E. Keesling** and **Alexander N. Dranishnikov**, University of Florida.

Geometry of Interacting Particles, Random Walks, and Brownian Motion (Code: AMS SS N1), **Irene Hueter**, University of Florida, and **Gregory F. Lawler**, Duke University.

Groups and Geometries (Code: AMS SS F1), **Chat Ho** and **Peter Sin**, University of Florida.

Linear Operator Theory (Code: AMS SS J1), **Leiba Rodman**, College of William & Mary, and **Scott A. McCullough**, University of Florida.

Markov Processes and Potential Theory (Code: AMS SS C1), **Joe Glover** and **Murali Rao**, University of Florida.

Partial Differential Equations and Applications (Code: AMS SS K1), **Gang Bao** and **Yun-mei Chen**, University of Florida.

Probability on Algebraic Structures (Code: AMS SS Q1), **Gregory M. Budzban** and **Philip Feinsilver**, Southern Illinois University at Carbondale, and **Arunava Mukherjea**, University of South Florida.

Structure and Representation Theory of Lattice-Ordered Groups and f -Rings (Code: AMS SS L1), **Jorge Martinez**, University of Florida.

The Erdős Legacy and Connections to Florida (Code: AMS SS B1), **Krishnaswami Alladi** and **Jean Larson**, University of Florida.

Urbana, Illinois

University of Illinois, Urbana-Champaign

March 18–21, 1999

Meeting #941

Central Section

Associate secretary: Susan J. Friedlander

Announcement issue of *Notices*: To be announced

Program issue of *Notices*: To be announced

Issue of *Abstracts*: To be announced

Deadlines

For organizers: Expired

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

For abstracts: To be announced

Invited Addresses

Alexander Beilinson, MIT, *Title to be announced*.

Alexandra Bellow, Northwestern University, *Title to be announced*.

Igor Krichever, Columbia University, *Title to be announced*.

Steven Rallis, Ohio State University, *Title to be announced*.

Trevor Wooley, University of Michigan, *Title to be announced*.

Special Sessions

Algebraic K-Theory (and the 5th Annual Great Lakes K-Theory Conference) (Code: AMS SS H1), **Daniel Grayson**, University of Illinois-Urbana.

Combinatorial Designs (Code: AMS SS M1), **Ilene H. Morgan**, University of Missouri-Rolla, and **Walter D. Wallis**, Southern Illinois University-Carbondale.

Diophantine Equations, Inequalities and Related Arithmetic Problems (Code: AMS SS F1), **Michael Bennett**, University of Illinois-Urbana, and **Trevor Wooley**, University of Michigan.

Elementary and Analytic Number Theory (Code: AMS SS E1), **Harold G. Diamond** and **A. J. Hildebrand**, University of Illinois-Urbana.

Galois Representations (Code: AMS SS C1), **Nigel Boston**, University of Illinois-Urbana, and **Michael Larsen**, University of Missouri.

Graph Theory (Code: AMS SS G1), **Douglas B. West**, University of Illinois-Urbana.

Holomorphic Vector Bundles and Complex Geometry (Code: AMS SS L1), **Maarten Bergvelt**, **Steven Bradlow**, and **John P. D'Angelo**, University of Illinois-Urbana, and **Lawrence Ein**, University of Illinois-Chicago.

Integrable Equations (Code: AMS SS I1), **Igor Krichever**, Columbia University, and **Kirill Vaninsky**, Kansas State University.

Martingales and Analysis (Code: AMS SS D1), **Joseph Max Rosenblatt**, **Renming Song**, and **Richard B. Sowers**, University of Illinois-Urbana.

Nonstandard Analysis (Code: AMS SS B1), **C. Ward Henson** and **Peter Loeb**, University of Illinois-Urbana.

Operator Spaces and Their Applications (Code: AMS SS J1), **Gilles Pisier**, Texas A&M, and **Zhong-Jin Ruan**, University of Illinois-Urbana.

Recent Progress in Elementary Geometry (Code: AMS SS A1), **John E. Wetzel**, University of Illinois-Urbana, and **Clark Kimberling**, University of Evansville.

Symplectic Geometry and Topology (Code: AMS SS K1), **Eugene M. Lerman** and **Susan Tolman**, University of Illinois-Urbana.

Las Vegas, Nevada

University of Nevada-Las Vegas

April 10–11, 1999

Meeting #942

Western Section

Associate secretary: Bernard Russo

Announcement issue of *Notices*: To be announced

Program issue of *Notices*: To be announced

Issue of *Abstracts*: To be announced

Deadlines

For organizers: July 10, 1998

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

For abstracts: To be announced

Special Sessions

Analysis and Geometry (Code: AMS SS I1), **Peter Li** and **Song-Ying Li**, University of California, Irvine.

Combinatorial Theory (Code: AMS SS G1), **Kequan Ding**, University of Illinois-Urbana, **Peter Shiue**, University of Las Vegas, Nevada, and **Yeong-Nan Yeh**, Academia Sinica.

Control and Dynamics of Partial Differential Equations (Code: AMS SS A1), **Zhonghai Ding**, University of Nevada-Las Vegas.

Diophantine Problems (Code: AMS SS J1), **Arthur Baragar**, University of Nevada-Las Vegas, and **Michael Bennett**, University of Illinois.

Geometric Group Theory (Code: AMS SS H1), **Eric M. Freiden**, Southern Utah University, and **Eric Lewis Swenson**, Brigham Young University.

Graph Theory (Code: AMS SS B1), **Hung-Lin Fu**, University of National Chiao-Tung University-Taiwan, **Chris A. Rodger**, Auburn University, and **Michelle Schultz**, University of Nevada-Las Vegas.

Nonlinear PDEs - Methods and Applications (Code: AMS SS C1), **David Costa**, University of Nevada-Las Vegas.

Number Theory (Code: AMS SS F1), **Gennady Bachman**, University of Nevada-Las Vegas, **Richard A. Mollin**, University of Calgary, and **Peter J. Shiue**, University of Nevada-Las Vegas.

Numerical Analysis and Computational Mathematics (Code: AMS SS E1), **Jun Zhang**, University of Minnesota and University of Kentucky, and **Jennifer Zhao**, University of Michigan, Dearborn.

Set Theory (Code: AMS SS D1), **Douglas Burke** and **Derrick BuBose**, University Nevada-Las Vegas.

Buffalo, New York

State University of New York at Buffalo

April 24–25, 1999

Meeting #943

Eastern Section

Associate secretary: Lesley M. Sibner

Announcement issue of *Notices*: To be announced

Program issue of *Notices*: To be announced

Issue of *Abstracts*: To be announced

Deadlines

For organizers: July 24, 1998

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

For abstracts: To be announced

Invited Addresses

Michele M. Audin, University of Louis Pasteur, *Title to be announced.*

Russel Cafilisch, University of California, Los Angeles, *Title to be announced.*

Jeff Smith, Purdue University, *Title to be announced.*

Alexander Voronov, MIT, *Title to be announced.*

Gregg J. Zuckerman, Yale University, *Title to be announced.*

Special Sessions

Combinatorics and Graph Theory (Code: AMS SS C1), **Harris Kwong**, SUNY College at Fredonia.

Knot and 3-Manifolds (Code: AMS SS E1), **Thang T.Q. Le**, State University of New York at Buffalo, **William W. Menasco**, SUNY at Buffalo, and **Morwen B. Thistlethwaite**, University of Tennessee.

Mathematical Physics (Code: AMS SS D1), **Jonathan Dimmock**, SUNY at Buffalo.

Representations of Lie Algebras (Code: AMS SS F1), **Duncan J. Melville**, Saint Lawrence University.

Smooth Categories in Geometry and Mechanics (Code: AMS SS A1), **F. William Lawvere**, SUNY at Buffalo.

Thin Films: Solid and Liquid (Code: AMS SS B1), **E. Bruce Pitman**, SUNY at Buffalo, and **Brian Spencer**, State University of New York at Buffalo.

Denton, Texas

University of North Texas

May 19–22, 1999

Meeting #944

Fourth International Joint Meeting between the AMS and the Sociedad Matemática Mexicana.

Associate secretary: Lesley M. Sibner

Announcement issue of *Notices*: January 1999

Program issue of *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

Melbourne, Australia

Melbourne, Australia

July 12–16, 1999

Meeting #945

First International Joint Meeting of the American Mathematical Society and the Australian Mathematical Society.

Associate secretary: Susan J. Friedlander

Announcement issue of *Notices*: To be announced

Program issue of *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

Invited Addresses

Jennifer Chayes, Microsoft, *Title to be announced.*

Michael Eastwood, University of Adelaide, *Title to be announced.*

Vaughan Jones, University of California, Berkeley, *Title to be announced.*

Hyam Rubinstein, Melbourne University, *Title to be announced.*

Richard M. Schoen, Stanford University, *Title to be announced.*

Neil Trudinger, Australian National University, *Title to be announced.*

Special Sessions

Discrete Groups (Code: AMS SS H1), **Marston Conder**, **Gaven Martin**, and **Eamonn O'Brien**, University of Auckland.

Fluid Dynamics (Code: AMS SS C1), **Susan Friedlander**, Northwestern University, and **Roger H. J. Grimshaw**, Monash University.

Geometric Themes in Group Theory (Code: AMS SS A1), **Gustav I. Lehrer**, University of Sydney, **Cheryl E. Praeger**, University of Western Australia, and **Stephen D. Smith**, University of Illinois at Chicago.

Low Dimensional Topology (Code: AMS SS D1), **William H. Jaco**, Oklahoma State University, and **Hyam Rubinstein**, Melbourne University.

Mathematical Physics: Many Body Systems (Code: AMS SS B1), **Alan L. Carey**, University of Adelaide, **Paul A. Pearce**, University of Melbourne, and **Mary Beth Ruskai**, University of Massachusetts, Lowell.

Mathematics Learning Centers (Code: AMS SS G1), **Judith Baxter**, University of Illinois, Chicago, **Jackie Nicholas**, University of Sidney, and **Jeanne Wald**, Michigan State University.

Moduli Spaces of Riemann Surfaces, Mapping Class Groups and Invariants of 3-manifolds (Code: AMS SS F1), **Ezra Getzler**, Northwestern University, and **Richard Hain**, Duke University.

Probability Theory and Its Applications (Code: AMS SS E1), **Timothy Brown**, University of Melbourne, **Phil Pollett**, University of Queensland, and **Ruth J. Williams**, University of California, San Diego.

Providence, Rhode Island

Providence College

October 2–3, 1999

Eastern Section

Associate secretary: Lesley M. Sibner

Announcement issue of *Notices*: To be announced

Program issue of *Notices*: To be announced

Issue of *Abstracts*: To be announced

Deadlines

For organizers: January 6, 1999

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

For abstracts: To be announced

Austin, Texas

University of Texas-Austin

October 8–10, 1999

Central Section

Associate secretary: Susan J. Friedlander

Announcement issue of *Notices*: To be announced

Program issue of *Notices*: To be announced

Issue of *Abstracts*: To be announced

Deadlines

For organizers: January 6, 1999

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

For abstracts: To be announced

Invited Addresses

Mikhail Kapranov, Northwestern University, *Title to be announced.*

John Roe, Oxford University and Pennsylvania State University, *Title to be announced.*

Catherine Sulem, University of Toronto, *Title to be announced.*

Tatiana Toro, University of Washington, *Title to be announced.*

Special Sessions

The Development of Topology in the Americas (Code: AMS SS A1), **Cameron Gordon**, University of Texas, Austin, and **Ioan Mackenzie James**, University of Oxford.

Washington, District of Columbia

Marriott Wardman Park Hotel and Omni Shoreham Hotel

January 19–22, 2000

Joint Mathematics Meetings, including the 106th Annual Meeting of the AMS, 83rd Meeting of the Mathematical Association of America (MAA), with minisymposia and other special events contributed by the Society for Industrial and Applied Mathematics (SIAM), and the annual meetings of the Association for Women in Mathematics (AWM) and the National Association of Mathematicians (NAM).

Associate secretary: Bernard Russo

Announcement issue of *Notices*: To be announced

Program issue of *Notices*: To be announced

Issue of *Abstracts*: To be announced

Deadlines

For organizers: April 20, 1999

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

Lowell, Massachusetts

University of Massachusetts, Lowell

April 1–2, 2000

Eastern Section

Associate secretary: Lesley M. Sibner

Announcement issue of *Notices*: To be announced

Program issue of *Notices*: To be announced

Issue of *Abstracts*: To be announced

Deadlines

For organizers: July 1, 1999

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

For abstracts: To be announced

Notre Dame, Indiana

University of Notre Dame

April 7–9, 2000

Central Section

Associate secretary: Susan J. Friedlander

Announcement issue of *Notices*: To be announced

Program issue of *Notices*: To be announced

Issue of *Abstracts*: To be announced

Deadlines

For organizers: July 7, 1999

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

For abstracts: To be announced

Odense, Denmark

Odense University

June 12–15, 2000

First AMS-Scandinavian International Meeting. Sponsored by the AMS, Dansk Matematisk Forening, Suomen matemaattinen yhdistys, Icelandic Mathematical Society, Norsk Matematisk Forening, and Svenska matematikersamfundet.

Associate secretary: Robert M. Fossum

Announcement issue of *Notices*: To be announced

Program issue of *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

Toronto, Ontario Canada

University of Toronto

September 22–24, 2000

Central Section

Associate secretary: Susan J. Friedlander

Announcement issue of *Notices*: To be announced

Program issue of *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

New Orleans, Louisiana

New Orleans Marriott and ITT Sheraton New Orleans Hotel

January 10–13, 2001

Joint Mathematics Meetings, including the 107th Annual Meeting of the AMS, 84th 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).

Associate secretary: Lesley M. Sibner

Announcement issue of *Notices*: To be announced

Program issue of *Notices*: To be announced

Issue of *Abstracts*: To be announced

Deadlines

For organizers: April 11, 2000

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

Columbia, South Carolina

University of South Carolina

March 16–18, 2001

Southeastern Section

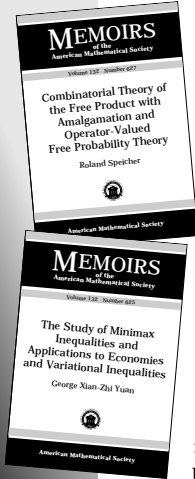
Associate secretary: Robert J. Daverman

Announcement issue of *Notices*: To be announced

Program issue of *Notices*: To be announced

Issue of *Abstracts*: To be announced

Analysis



Combinatorial Theory of the Free Product with Amalgamation and Operator-Valued Free Probability Theory

Roland Speicher, *University of Heidelberg, Germany*

Free probability theory, introduced by Voiculescu, has developed very actively in the last few years and has had an increasing impact on quite different fields in mathematics and physics. Whereas the subject arose out of the field of von Neumann algebras, presented here is a quite different view of Voiculescu's amalgamated free product. This combinatorial description not only allows re-proving of most of Voiculescu's results in a concise and elegant way, but also opens the way for many new results.

Unlike other approaches, this book emphasizes the combinatorial structure of the concept of "freeness". This gives an elegant and easily accessible description of freeness and leads to new results in unexpected directions. Specifically, a mathematical framework for otherwise quite ad hoc approximations in physics emerges.

Memoirs of the American Mathematical Society, Volume 132, Number 627; 1998; 88 pages; Softcover; ISBN 0-8218-0693-9; List \$39; Individual member \$23; Order code MEMO/132/627NA

The Study of Minimax Inequalities and Applications to Economics and Variational Inequalities

George Xian-Zhi Yuan, *University of Queensland, Brisbane, Australia*

This book provides a unified treatment for the study of the existence of equilibria of abstract economics in topological vector spaces from the viewpoint of Ky Fan minimax inequalities, which strongly depend on his infinite dimensional version of the classical Knaster, Kuratowski and Mazurkiewicz Lemma (KKM Lemma) in 1961. Studied are applications of general system versions of minimax inequalities and generalized quasi-variational inequalities, and random abstract economics and its applications to the system of random quasi-variational inequalities are given.

Features:

- Presents new results and recent development of KKM theory.
- Offers an overview of modern and up-to-date treatment of the KKM theory, including related articles covering theory and applications.
- Uses an interdisciplinary approach with specific applications in mathematics and economics.
- Includes a comprehensive bibliography.

Memoirs of the American Mathematical Society, Volume 132, Number 625; 1998; 140 pages; Softcover; ISBN 0-8218-0747-1; List \$43; Individual member \$26; Order code MEMO/132/625NA



All prices subject to change. Charges for delivery are \$3.00 per order. For optional air delivery outside of the continental U. S., please include \$6.50 per item. *Prepayment required.* Order from: **American Mathematical Society**, P. O. Box 5904, Boston, MA 02206-5904, USA. For credit card orders, fax 1-401-455-4046 or call toll free 1-800-321-4AMS (4267) in the U. S. and Canada, 1-401-455-4000 worldwide. Or place your order through the AMS bookstore at www.ams.org/bookstore. Residents of Canada, please include 7% GST.

Meetings & Conferences

Deadlines

For organizers: June 15, 2000

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

For abstracts: To be announced

Williamstown, Massachusetts

Williams College

October 13–14, 2001

Eastern Section

Associate secretary: Lesley M. Sibner

Announcement issue of *Notices*: To be announced

Program issue of *Notices*: To be announced

Issue of *Abstracts*: To be announced

Deadlines

For organizers: January 11, 2001

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

For abstracts: To be announced

San Diego, California

San Diego Convention Center

January 6–9, 2002

Joint Mathematics Meetings, including the 108th Annual Meeting of the AMS and 85th Meeting of the Mathematical Association of America (MAA).

Associate secretary: Robert J. Daverman

Announcement issue of *Notices*: To be announced

Program issue of *Notices*: To be announced

Issue of *Abstracts*: To be announced

Deadlines

For organizers: April 4, 2001

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