

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 six 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.

Nashville, Tennessee

Vanderbilt University

October 16–17, 2004

Saturday – Sunday

Meeting #999

Southeastern Section

Associate secretary: John L. Bryant

Announcement issue of *Notices*: August 2004

Program first available on AMS website: September 2, 2004

Program issue of electronic *Notices*: October 2004

Issue of *Abstracts*: Volume 25, Issue 4

Deadlines

For organizers: Expired

For consideration of contributed papers in Special Sessions:

Expired

For abstracts: August 24, 2004

Invited Addresses

Ruth M. Charney, Brandeis University, *Title to be announced.*

Peter S. Ozsvath, Columbia University, *Title to be announced.*

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

Rudi Weikard, University of Alabama at Birmingham, *Title to be announced.*

Special Sessions

Algebraic Geometry and Commutative Algebra (Code: SS 8A), **Juan C. Migliore**, University of Notre Dame, and **Uwe Nagel**, University of Kentucky.

Biomathematics (Code: SS 12A), **Laurent Pujo-Menjouet** and **Glenn F. Webb**, Vanderbilt University.

Geometry of Hyperbolic Manifolds (Code: SS 10A), **John G. Ratcliffe** and **Steven T. Tschantz**, Vanderbilt University.

Index Theory and the Topology of Manifolds (Code: SS 3A), **Bruce Hughes** and **Guoliang Yu**, Vanderbilt University.

Inverse Problems (Code: SS 9A), **Maeve L. McCarthy**, Murray State University, and **Rudi Weikard**, University of Alabama at Birmingham.

Local and Homological Algebra (Code: SS 6A), **Florian Enescu**, University of Utah, and **Adela N. Vraciu**, University of South Carolina.

Nonlinear Partial Differential Equations and Applications (Code: SS 11A), **Gieri Simonett**, Vanderbilt University.

Operator Theory on Function Spaces (Code: SS 7A), **Dechao Zheng**, Vanderbilt University.

Semigroup Theory (Code: SS 13A), **Matthew I. Gould**, Vanderbilt University, and **Karen Ann Linton**, California State Polytechnic University, Pomona.

Topological Aspects of Group Theory (Code: SS 5A), **Michael L. Mihalik** and **Mark V. Sapir**, Vanderbilt University.

Universal Algebra and Lattice Theory (Code: SS 4A), **Ralph N. McKenzie**, Vanderbilt University, and **George F. McNulty**, University of South Carolina.

Von Neumann Algebras and Noncommutative Ergodic Theory (Code: SS 1A), **Dietmar Bisch**, Vanderbilt University, and **Sorin T. Popa**, University of California Los Angeles.

Wavelets, Frames, and Sampling (Code: SS 2A), **Akram Aldroubi** and **Douglas P. Hardin**, Vanderbilt University, and **Qiyu Sun**, University of Central Florida.

Accommodations

Participants should make their own arrangements directly with a hotel of their choice as early as possible. Special rates have been negotiated with the hotels listed below. Rates quoted do not include sales tax of 14.25%. The AMS is not responsible for rate changes or for the quality of the accommodations. When making a reservation, participants

should state that they are with the American Mathematical Society (AMS) Fall Southeastern Sectional Meeting group. Cancellation and early checkout policies vary; be sure to check when you make your reservation.

Days Inn-Vanderbilt, 1800 West End Avenue, Nashville, TN 37203; 615-327-0922 (phone), 407-206-3001 (fax); \$65/single or double, includes complimentary continental breakfast, exercise room on premises; about 1/3 mile to the meeting site. **Deadline for reservations is September 15, 2004.** Be sure to check cancellation and early checkout policies.

Hampton Inn & Suites at the University, 2330 Elliston Place, Nashville, TN 37203; 615-320-6060 or 888-880-5395 (phone), 615-327-4723 (fax); \$79/single or double, complimentary hot breakfast daily; about 1/3 mile to the meeting site. **Deadline for reservations is September 15, 2004.** Be sure to check cancellation and early checkout policies.

Holiday Inn Select Vanderbilt, 2613 West End Avenue, Nashville, TN; 615-327-4707 (phone), 615-320-4850 (fax); \$80/single or double, full-service restaurant, cocktail lounge, as well as coffee shop on premises; about 1/2 mile to the meeting site. **Deadline for reservations is September 15, 2004.** Be sure to check cancellation and early checkout policies.

Food Service

There are many restaurants along 21st Avenue that are convenient for lunch.

Local Information

The math department's webpage is located at <http://sitemason.vanderbilt.edu/math>; the university's homepage is <http://www.vanderbilt.edu/>.

Other Activities

Book Sales: Examine the newest titles from the AMS! Many of the AMS books will be available at a special discount available only at the meeting. Complimentary coffee will be served courtesy of AMS Membership Services.

AMS Editorial Activity: An acquisitions editor from the AMS book program will be present to speak with prospective authors. If you have a book project that you would like to discuss with the AMS, please stop by the book exhibit.

Parking

The closest public parking to the meeting site is found at Wesley Place parking garage. From the airport take I-40 West toward Nashville. Follow the signs for I-24 West/I-40 West, then I-65 South/I-40 West. Exit at Broadway. At the base of the ramp, go straight through the traffic light at McGavock Street and turn left onto Broadway. Stay left. Continue on Broadway to 16th Avenue, where the road splits. Veer left onto Broadway. Broadway will become 21st Avenue South. As you pass the traffic light at Grand Avenue, the Vanderbilt main campus will be on your right. Turn left at Scarritt Place (first traffic light after Grand Avenue). The entrance to the Wesley Place parking garage will be on your right one-half block past the intersection. Pub-

lic parking spaces are 52-170. Cost at the time of this printing is \$5/day.

Registration and Meeting Information

The meeting is on the main campus of Vanderbilt University in Nashville, Tennessee. Sessions and Invited Addresses will take place in Wilson and Furman Halls.

The registration desk will be in the lobby of Wilson Hall and will be open Saturday, October 16, 7:30 a.m.-4:00 p.m. and Sunday, October 17, 8:00 a.m.-noon. Fees are \$40 for AMS or CMS members; \$60 for nonmembers; and \$5 for students/unemployed/emeritus, payable on site by cash, check, or credit card.

Travel and Campus Map

Vanderbilt University is located a mile and a half southwest of downtown Nashville and is approximately 4 hours from Atlanta, 3 hours from Birmingham, 2 1/2 hours from Knoxville, 3 hours from Louisville, and 3 hours from Memphis.

A campus map is found at <http://www.vanderbilt.edu/map/entry.html>.

The closest airport is Nashville International Airport (BNA) and is serviced by all major airlines. **Delta Air Lines** has been selected as the official airline for this meeting because of economical rates and convenient schedules. The following specially negotiated rates are available for this meeting and exclusively for mathematicians and their families for the period October 13, 2004, through October 20, 2004. Other restrictions/discounts may apply and seats are limited.

Delta Air Lines is offering:

- A 5% discount off Delta's published round-trip fares within the continental United States, excluding A, D, I, U, and T classes of service.
- A 10% discount off Delta's domestic published unrestricted round-trip coach fares (Y06/YR06) rates. No advance reservations or ticketing is required.
- An additional 5% bonus discount if you purchase your ticket 60 days or more prior to your departure through Meeting Network Reservations or your travel agent; online not applicable.

To take advantage of these discounts and make immediate reservations, call Delta Meeting Network at 800-241-6760 between 8:00 a.m. and 11:00 p.m. Eastern Standard Time, Monday through Sunday, referencing **File Number 205778A**.

Ground transportation from the airport: The 10-mile cab ride to campus/hotels will take about 20 minutes and cost about \$25. A Gray Line shuttle van (www.graylinenashville.com) to downtown hotels makes the trip in about 30 minutes and costs \$11 one way/\$17 round trip; be sure to take the "West End/Vandy Area" shuttle. The public bus to downtown leaves the airport 14 times a day, Monday-Friday, and four times a day on Saturdays and Sundays. The fare is \$1.40, and schedules are available at the airport Welcome Center on the baggage claim

level. If you need information before you arrive, call the center at 615-275-1674.

Driving: Getting to Vanderbilt from Nashville International Airport: Take I-40 west to Exit 209A. Turn left onto Broadway. Follow Broadway and veer right to West End Avenue. Allow approximately thirty minutes, driving time from the airport to Vanderbilt University. If traffic is light, it will take less time.

Getting to Vanderbilt via the Interstates: From the north, take I-65 to I-40 West and then look for I-40 East to Exit 209B. Turn right on Broadway.

From the east or south, take I-40 West to Exit 209A. Turn left on Broadway.

From the west, take I-40 East to Exit 209B. Turn right on Broadway (US 70S); follow Broadway and veer right to West End Avenue.

Albuquerque, New Mexico

University of New Mexico

October 16–17, 2004

Saturday – Sunday

Meeting #1000

Western Section

Associate secretary: Michel L. Lapidus

Announcement issue of *Notices*: August 2004

Program first available on AMS website: September 3, 2004

Program issue of electronic *Notices*: October 2004

Issue of *Abstracts*: Volume 25, Issue 4

Deadlines

For organizers: Expired

For consideration of contributed papers in Special Sessions:
Expired

For abstracts: August 24, 2004

Invited Addresses

Sara C. Billey, University of Washington, Seattle, *Title to be announced.*

Peter Ebenfelt, University of California San Diego, *Analytic and geometric properties of CR manifolds and their mappings.*

Theodore Stanford, New Mexico State University, *Knots modulo braids.*

Craig A. Tracy, University of California Davis, *Title to be announced.*

Special Sessions

Algebraic Geometry (Code: SS 3A), **Hirotschi Abo** and **Chris Peterson**, Colorado State University.

Analysis and Geometry in Carnot-Carathéodory Spaces (Code: SS 13A), **Luca Capogna**, University of Arkansas, and **Robert Smits**, New Mexico State University.

Arithmetic Geometry (Code: SS 6A), **Alexandru Buium** and **Michael J. Nakamaye**, University of New Mexico.

Braids and Knots (Code: SS 14A), **Theodore Stanford**, New Mexico State University.

Categories and Operads in Topology, Geometry, Physics and Other Applications (Code: SS 5A), **Hanna Ewa Makaruk** and **Robert Michal Owczarek**, Los Alamos National Laboratory, and **Zbigniew Oziewicz**, Universidad Nacional Autónoma de México.

Financial Mathematics: The Mathematics of Derivative Securities (Code: SS 4A), **Maria Cristina Mariani**, New Mexico State University, and **Osvaldo Mendez**, University of Texas at El Paso.

Interactions in Riemannian Geometry (Code: SS 8A), **Charles P. Boyer** and **Krzysztof Galicki**, University of New Mexico.

Mathematical Methods in Turbulence (Code: SS 9A), **Monika Nitsche** and **Vachtang Poutkaradze**, University of New Mexico.

Mathematics for Secondary Teachers: Curriculum and Assessment (Code: SS 16A), **Adriana Aceves** and **Kristin Umland**, University of New Mexico.

Multiscale Methods and Sampling in Time-Frequency Analysis (Code: SS 10A), **Jeffrey Andrew Hogan**, University of Arkansas, and **Joseph D. Lakey**, New Mexico State University.

Nonlinear Partial Differential Equations Applied to Materials Science (Code: SS 11A), **Patricia Bauman**, Purdue University, and **Tiziana Giorgi**, New Mexico State University.

Probabilistic and Geometric Methods in Learning Theory (Code: SS 15A), **Vladimir Koltchinskii**, University of New Mexico.

Random Matrix Theory and Growth Processes (Code: SS 1A), **Craig A. Tracy**, University of California Davis.

Regularity in PDEs and Harmonic Analysis (Code: SS 12A), **Marianne Korten** and **Charles Nelson Moore**, Kansas State University, and **Maria C. Pereyra**, University of New Mexico.

Several Complex Variables and CR Geometry (Code: SS 2A), **Peter Ebenfelt**, University of California San Diego, and **Marshall A. Whittlesey**, California State University, San Marcos.

Spectral Geometry (Code: SS 7A), **Ivan G. Avramidi**, New Mexico Institute of Mining and Technology, and **Thomas Patrick Branson**, University of Iowa.

Accommodations

Participants should make their own arrangements directly with the hotel. The rates quoted for the DoubleTree Hotel are available until September 15. When making a reservation, identify yourself as being with the UNM Math. and Stat. group attending the AMS Meeting. After September 15 rooms may not be available at the quoted price. The AMS is not responsible for rate changes or for the quality of the accommodations. Hotels have varying cancellation or early

checkout penalties; be sure to ask details when making your reservation.

Double Tree Hotel, 201 Marquette NW, Albuquerque, NM 87102; 866-224-9330, 888-223-4113; \$79/single or double plus tax (currently 11%). Approximately 1 mile to campus. Deadline for reservations is September 15. Be sure to check the cancellation policy. The website is <http://www.doubletreealbuquerque.com>.

Food Service

A list of Albuquerque restaurants will be available at the registration desk.

Local Information and Campus Map

For further information please consult the website maintained by the Department of Mathematics at the University of New Mexico: <http://www.math.unm.edu/conferences/ams/>.

To view a campus map please visit: <http://www.unm.edu/campusmap.html>. Dane Smith Hall is building 48 at F-G-3. For travel information please visit: <http://www.newmexico.org/place/loc/transportation/page/DB-place/category/105/place/573.html>.

Other Activities

AMS Book Sale: Examine the newest titles from AMS! Complimentary coffee will be served, courtesy of AMS Membership Services. The AMS Book Sale will operate during the same hours as registration and will be held in Dane Smith Hall.

AMS Editorial Activity: An acquisitions editor from the AMS book program will be present to speak with prospective authors. If you have a book project that you would like to discuss with the AMS, please stop by the book exhibit.

Parking

Private parking lots are within walking distance to the meeting and are located on Cornell Avenue between Central Avenue and Silver Avenue and on Silver Avenue between Cornell Avenue and Stanford Avenue. These lots have coin-operated machines at a cost of \$2.25 per day. Exact change must be deposited in the machine.

Registration and Meeting Information

Registration will take place in Dane Smith Hall, located on Las Lomas Blvd., across from University House on Yale Avenue, from 7:30 a.m. to 4:00 p.m. on Saturday, October 16, and from 8:00 a.m. to noon on Sunday, October 17. Registration fees are \$40 for AMS or CMS members; \$60 for nonmembers; and \$5 for students/unemployed/emeritus, payable on site by cash, check, or credit card. All talks will take place in Dane Smith Hall.

Social Event

The Department of Math will host a reception in the atrium of Dane Smith Hall, Saturday, October 16, at 6:00 p.m.

Travel

By Air: Albuquerque Sunport International Airport : Albuquerque is served by many of the major commercial carriers and several commuter airlines. The Sunport is located 2 miles south of UNM and 4 miles southeast of the Doubletree Hotel. Driving time to either location is approximately 10 minutes.

Announcing Delta Air Lines as the official airline for the sectional meeting in Albuquerque, New Mexico!

The following specially negotiated rates are available for this meeting and exclusively to mathematicians and their families for the period October 13, 2004, through October 20, 2004.

Other restrictions/discounts may apply, and seats are limited.

Delta Air Lines is offering:

- A 5% discount off Delta's published round-trip fares within the continental United States, excluding A, D, I, U, and T classes of service.
- A 10% discount off Delta's domestic published unrestricted round-trip coach fares (Y06/YR06) rates. No advance reservations or ticketing is required.
- An additional 5% bonus discount if you purchase your ticket 60 days or more prior to your departure through Meeting Network Reservations or your travel agent; online not applicable.

To take advantage of these discounts and make immediate reservations, call Delta Meeting Network at 800-241-6760, between 8:00 a.m. and 11:00 p.m. Eastern Standard Time, Monday through Sunday, referencing **File Number 205778A**.

Traveling to Albuquerque by car: Albuquerque is served by two major interstates, I-25 (north-south) and I-40 (east-west). The Martin Luther King exit one mile south of the I-25-I-40 interchange allows access to the Doubletree Hotel (go approx. one mile west to downtown; hotel is on right between 2nd and 3rd Streets) and UNM (go east to University Blvd., enter campus, turn right on Redondo Rd., and follow it to visitor parking or residence halls).

Driving Directions from Sunport to Doubletree Hotel: Take I-25 north to Martin Luther King exit, turn left on MLK, go approximately one mile; Doubletree Hotel is on right between 2nd and 3rd Streets.

Driving Directions from Sunport to UNM: Take Yale Blvd. exit north until you dead-end at Central Ave. Cross Central Ave. to enter campus.

Transportation from/to the Sunport: Shuttle and taxi service available after all flights outside at baggage claim level. 24/7 service available from Airport Shuttle (505-765-1234; typical charge \$16) and Albuquerque Cab (505-883-4888; typical charge \$15). Sunport provides a shuttle to Rental Car Center. Doubletree Hotel does not have a private shuttle.

Getting around Albuquerque is easiest by car, but the city has regular bus service along Central Ave. from down-

town to UNM for participants who wish to stay downtown. Taxi service is available but best arranged beforehand.

Car Rental: Special rates have been negotiated with **Avis Rent A Car** for the period October 9 to October 24, 2004, beginning at \$24.99/day for a subcompact car at the weekend rate (the weekend rate is available from noon Thursday until Monday at 11:59 p.m.). All rates include unlimited free mileage. Rates do not include state or local surcharges, tax, optional coverages, or gas refueling charges. Renter must meet Avis's age, driver, and credit requirements, and return to the same renting location. Make reservations by calling 800-331-1600 or online at www.avis.com. Please quote **Avis Discount Number B159266** when making reservations.

Weather

October weather is generally pleasant, with daytime temperatures in the 60° F. range, and nighttime temperatures in the 30-45° F. range. For up-to-the-minute weather, please visit <http://www.weather.com/outlook/driving/local/USNM0004>.

Evanston, Illinois

Northwestern University

October 23–24, 2004

Saturday – Sunday

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*: Volume 25, Issue 4

Deadlines

For organizers: Expired

For consideration of contributed papers in Special Sessions:
Expired

For abstracts: August 31, 2004

Invited Addresses

Ian Agol, University of Illinois at Chicago, *Title to be announced*.

Robert W. Ghrist, University of Illinois, *Title to be announced*.

Yuri Manin, Northwestern University, *Title to be announced*.

Paul Seidel, Imperial College-London and University of Chicago, *Title to be announced*.

Special Sessions

Algebraic Representations and Deformations (Code: SS 19A), **Stephen R. Doty** and **Anthony Giaquinto**, Loyola University of Chicago.

Algebraic Topology: Interactions with Representation Theory and Algebraic Geometry (Code: SS 13A), **Paul G. Goerss**, Northwestern University, **Jesper Kragh Grodal**, University of Chicago, and **Brooke E. Shipley**, University of Illinois at Chicago.

Applications of Motives (Code: SS 18A), **Eric M. Friedlander**, Northwestern University, **Alexander Goncharov**, Brown University, **Mikhail Kapranov**, Yale University, and **Yuri Manin**, Max Planck Institute for Mathematics.

Codes and Applications (Code: SS 5A), **William C. Huffman**, Loyola University of Chicago, and **Vera S. Pless**, University of Illinois at Chicago.

Computability Theory and Applications (Code: SS 8A), **Robert I. Soare** and **Denis R. Hirschfeldt**, University of Chicago.

Differential Geometry (Code: SS 10A), **Anders Ingemar Linner** and **Hongyou Wu**, Northern Illinois University.

Extremal Combinatorics (Code: SS 2A), **Dhruv Mubayi** and **Yi Zhao**, University of Illinois at Chicago.

Fluid Dynamics, Diffusion and Reaction (Code: SS 4A), **Peter S. Constantin** and **Leonid V. Ryzhik**, University of Chicago.

Geometric Aspects of the Langlands Program (Code: SS 17A), **Edward Frenkel**, University of California Berkeley, **Dennis Gaitsgory**, University of Chicago, **Mark Goresky**, Institute for Advanced Study, and **Kari Vilonen**, Northwestern University.

Geometric Partial Differential Equations (Code: SS 7A), **Gui-Qiang Chen** and **Jared Wunsch**, Northwestern University.

Hopf Algebras at the Crossroads of Algebra, Category Theory, and Topology (Code: SS 24A), **Louis H. Kauffman** and **David E. Radford**, University of Illinois at Chicago, and **Fernando J. O. Souza**, University of Iowa.

Index Theory, Morse Theory, and the Witten Deformation Method (Code: SS 3A), **Igor Prokhoronkov** and **Ken Richardson**, Texas Christian University.

Iterated Function Systems and Analysis on Fractals (Code: SS 12A), **Ka-Sing Lau**, Chinese University of Hong Kong, and **Stephen S.-T. Yau**, University of Illinois at Chicago.

Low-Dimensional Topology and Kleinian Groups (Code: SS 21A), **Ian Agol**, **John Holt**, and **Saul Schleimer**, University of Illinois at Chicago.

Mathematical Problems in Robotics (Code: SS 15A), **Robert W. Ghrist**, University of Illinois at Urbana-Champaign.

Mathematical Techniques in Musical Analysis (Code: SS 23A), **Judith Baxter**, University of Illinois at Chicago, **Richard Cohn**, University of Chicago, and **Robert Peck**, Louisiana State University.

Modern Schubert Calculus (Code: SS 1A), **Ezra Miller**, University of Minnesota, and **Frank Sottile**, University of Massachusetts.

Nonlinear Partial Differential Equations and Applications (Code: SS 6A), **Gui-Qiang Chen**, Northwestern University, and **Mikhail Feldman**, University of Wisconsin at Madison.

Nonlinear Waves (Code: SS 14A), **Jerry L. Bona**, University of Illinois at Chicago, **Shuming Sun**, Virginia Polytechnic Institute and State University, and **Bingyu Zhang**, University of Cincinnati.

Representation Theory of Reductive Groups (Code: SS 20A), **Jeffrey D. Adler**, University of Akron, and **Ju-Lee Kim**, University of Illinois at Chicago.

Solving Polynomial Systems (Code: SS 9A), **Anton Leykin** and **Jan Verschelde**, University of Illinois at Chicago.

Special Functions, Orthogonal Polynomials, and Their Applications (Code: SS 22A), **George Gasper**, Northwestern University, and **Ahmed I. Zayed**, DePaul University.

Spectral Problems of Differential Operators (Code: SS 16A), **Qingkai Kong**, **Hongyou Wu**, and **Anton Zettl**, Northern Illinois University.

Stability Issues in Fluid Dynamics (Code: SS 11A), **Susan J. Friedlander** and **Roman Shvydkoy**, University of Illinois at Chicago.

Accommodations

Participants should make their own arrangements directly with the hotel of their choice and state that they will be attending the American Mathematical Society/NU Math. Dept. meeting. The AMS is not responsible for rate changes or for the quality of the accommodations. Rates quoted do not include taxes. Hotels have varying cancellation or early checkout penalties; be sure to ask for details when making your reservation.

Best Western University Plaza, 1501 Sherman Ave., Evanston, IL; 847-491-6400, toll-free reservations: 800-328-6786, fax: 847-328-3090; \$89 single or double plus tax (currently 13.5%). Four blocks to campus. **Deadline for reservations is September 22, 2004.**

Comfort Inn, 9333 Skokie Blvd., Skokie, IL 60007; 847-679-4200, fax: 847-679-4218; \$89 single/double plus tax (currently 9.5%). Approximately 4 miles to campus. Limited shuttle service to campus will be provided by the hotel. A complimentary hot buffet breakfast served daily. **Deadline for reservations is September 22, 2004.**

Doubletree Hotel & Executive Meeting Center North Shore, 9599 Skokie Blvd., Skokie, IL 60077; 847-679-7000, toll-free reservations: 800-222-8733, fax: 847-679-9841; \$79 single or double plus tax (currently 12%). Approximately 4 miles to campus. **Deadline for reservations is October 8, 2004.**

Hampton Inn and Suites, 5201 Old Orchard Road, Skokie, IL 60077; 847-583-1111, fax: 847-583-0300; \$99 single or double plus tax (currently 9.5%). Approximately 4 miles to campus. **Deadline for reservations is October 1, 2004.**

Hilton Garden Inn Evanston, 1818 Maple Avenue, Evanston, IL 60201; 847-475-6400, fax: 847-475-6460; \$104 single or double plus tax (currently 13.5%). Three blocks to campus. **Deadline for reservations is September 24, 2004.**

The Homestead, 1625 Hinman Avenue, Evanston, IL 60201; 847-475-3300, fax: 847-570-8100; \$100 single or double plus tax (currently 13.5%). Two blocks to campus. **Deadline for reservations is October 8, 2004.**

Food Service

There are a number of restaurants adjacent to the campus. A list of restaurants will be available at the registration desk.

Local Information

Please visit the website maintained by the Department of Mathematics at <http://www.math.northwestern.edu/>, the Northwestern University website <http://www.northwestern.edu/>, and for a campus map: http://www.northwestern.edu/campus/maps/evanston_campus_map.html.

Other Activities

AMS Book Sale: Examine the newest titles from AMS! Complimentary coffee will be served courtesy of AMS Membership Services. The AMS Book Sale will operate during the same hours as registration. The location of the Book Sale will be announced at a later date.

AMS Editorial Activity: An acquisitions editor from the AMS book program will be present to speak with prospective authors. If you have a book project that you would like to discuss with the AMS, please stop by the book exhibit.

Parking

Vehicles may be parked without a permit and free of charge (except in designated lots listed below) after 4:00 p.m. on Friday and before 7:30 a.m. on Monday.

Do not park in the following lots:

- Student Health (FH Permits Only)
- University Police
- Central Utility Plant
- Tech Institute Lots and Drives
- Foster-Walker Complex (R Spaces only)*
- Handicapped and Reserved Spaces

*Not enforced Friday 4:00 p.m. to Monday 7:30 a.m.

Registration and Meeting Information

The registration desk will be open 7:30 a.m. to 4:30 p.m. on Saturday and 8:00 a.m. to noon on Sunday. The location of the registration desk and the location of the talks will be announced at a later date.

Registration fees: (payable on site only) \$40/AMS members; \$60/nonmembers; \$5/emeritus members, students, or unemployed mathematicians. Fees are payable by cash, check, VISA, MasterCard, Discover, or American Express.

Social Event

The Department of Mathematics will host a reception on Saturday evening (time and place to be announced).

Travel

By Air: Evanston is served by both Chicago's O'Hare International Airport and Midway Airport.

Announcing Delta Air Lines as the official airline for the sectional meeting in Evanston, Illinois!

The following specially negotiated rates are available for this meeting and exclusively to mathematicians and their families for the period October 20, 2004, through October 27, 2004.

Other restrictions/discounts may apply, and seats are limited.

Delta Air Lines is offering:

- A 5% discount off Delta's published round-trip fares within the continental United States, excluding A, D, I, U, and T classes of service.
- A 10% discount off Delta's domestic published unrestricted round-trip coach fares (Y06/YR06) rates. No advance reservations or ticketing is required.
- An additional 5% bonus discount if you purchase your ticket 60 days or more prior to your departure through Meeting Network Reservations or your travel agent; online not applicable.

To take advantage of these discounts and make immediate reservations, call Delta Meeting Network at 800-241-6760 between 8:00 a.m. and 11:00 p.m. Eastern Standard Time, Monday through Sunday, referencing **File Number 205778A**.

Airport Shuttle from O'Hare: Continental Airport Express offers daily shuttle service from O'Hare International Airport between downtown Chicago and north suburban locations from 6:00 a.m. to 11:30 p.m. Departures are about every 5 to 10 minutes. The fare to Evanston is approximately \$20 for a standard passenger or \$17 for students. You can reserve a seat in advance by calling 312-454-7799, or you can make your reservation at the Continental Air Transport ticket counter after you have collected your baggage.

Subway (the "L") from O'Hare: The Chicago Transit Authority (CTA/elevated/"L") train provides rapid transit service from O'Hare to downtown and from downtown to Evanston.

1. Take the CTA Blue Line train from the O'Hare station to Washington Street in Chicago's Loop.
2. Get off at Washington Street and walk through the pedestrian tunnel to the Washington Street stop on the Red Line. Take the Red Line north to Howard Street.
3. Howard Street is as far as the Red Line goes in the direction of Evanston, so you will need to get off the Red Line train and transfer to a Purple Line train. Take the Purple Line north to the Foster Street stop in Evanston.
4. Walk east, passing Sherman Avenue and Orrington Avenue (about two and a half blocks), until you arrive at

Sheridan Road. Refer to the campus maps at http://www.northwestern.edu/campus/maps/evanston_campus_map.html to find specific locations.

Taxi to Evanston Campus from O'Hare: Taxis are available on a first-come, first-served basis from the lower-level curb front of all terminals. Shared ride service is available. Expect to spend approximately \$35 to \$40 for a taxi to Evanston.

Airport Shuttle from Midway: To take the Airport Shuttle from Midway, you **MUST** make reservations one day in advance by calling 312-454-7799. Check in with the Continental Air Transport ticket agent located near the baggage claim area. Continental Airport Express offers daily shuttle service between Midway and north suburban locations from 6:00 a.m. to 11:30 p.m. Departures are about every 15 minutes. The fare to the Evanston campus is about \$28. The pickup location is located in front of the main terminal building.

Subway (the "L") from Midway: The Chicago Transit Authority (CTA/elevated/"L") train provides transit service to downtown. There is an "L" stop at the airport.

1. Take the CTA Orange Line to the State/Lake stop in Chicago's Loop. You will be on the elevated level above State Street and Lake Street at that location.
2. Walk down the stairs to State Street.
3. Walk about a half block south and take the stairs down from State Street to the subway station. Take the Red Line north to Howard Street.
4. Howard Street is as far as the Red Line goes in the direction of Evanston, so you will need to get off the Red Line train and transfer to a Purple Line train. Take the Purple Line north to the Foster Street stop in Evanston.
5. Walk east, passing Sherman Avenue and Orrington Avenue (about two and a half blocks), until you arrive at Sheridan Road. Refer to the website http://www.northwestern.edu/campus/maps/evanston_campus_map.html to find specific locations.

Taxi: The fare from Midway to Evanston is approximately \$40.

Driving: From O'Hare International Airport:

1. Take the main exit road from the airport, which turns into I-190, east for about a half mile.
2. Exit right and go north on I-294, the Tri-State Tollway. You will be headed north toward Wisconsin, and shortly after entering you will need to pay a 50¢ toll.
3. Go north about three miles to the Dempster Street eastbound exit.
4. Take Dempster Street east approximately 10 miles through Park Ridge, Niles, Morton Grove, and Skokie into Evanston.
5. At Chicago Avenue in Evanston, turn left and go north.
6. Main campus is approximately three-fourths of a mile north at Chicago Avenue and Sheridan Road.

From Midway Airport:

1. From Midway take Cicero Avenue north to I-55 (the Stevenson Expressway).
2. Turn right (northeast) on I-55 toward downtown Chicago.
3. Follow I-55 to Lake Shore Drive northbound.
4. Take Lake Shore Drive north through downtown Chicago and continue until Lake Shore Drive ends. Lake Shore Drive splits; you will need to be in one of the right two lanes to turn north on Sheridan Road.
5. Turn right and continue north on Sheridan Road through Chicago into Evanston.
6. Follow Sheridan Road north, which makes several right-hand turns to keep going north, until you reach the Northwestern campus. Refer to the campus maps to find specific locations.

To Evanston from the /north, via I-94: (Note: Highway is called I-94 East, but runs north-south in Chicago metropolitan area.)

1. Take I-94 East south to Skokie Highway.
2. Go south on Skokie Highway approximately 2 miles to Golf Road.
3. Turn left (east) at Golf Road.
4. Follow Golf Road approximately 4 miles east into Evanston (the road name changes to Emerson Street in Evanston).
5. Just past Maple Street in Evanston is a fork in the road; bear to the right to go onto Clark Street.
6. Follow Clark Street through downtown Evanston. You'll know you're going the correct way when you note some landmarks:
 - The Rebecca Crown Center, which houses the offices of the Central Administration of Northwestern, on the north side of Clark Street (to your left).
 - A Burger King restaurant on the south side of Clark Street (to your right).
7. The main campus is located at the corner of Chicago Avenue and Sheridan Road.

To Evanston from the West or Southwest, via I-55 or I-80 to I-94 West: (Note: Highway is called I-94 West, but runs north-south in Chicago metro area.)

1. If coming in on eastbound I-80, follow I-80 until the interchange with I-55; take northbound I-55.
2. Follow northbound I-55 until the interchange with I-90/I-94; take northbound I-90/I-94 (Kennedy Expressway).
3. When I-94 splits from I-90, bear to the right, staying on I-94 W (Edens Expressway).
4. Take I-94 W north to Dempster Street east.
5. Follow Dempster Street east approximately 5 miles through the suburbs of Skokie and Evanston.
6. At Chicago Avenue in Evanston, turn left and go north.

7. Main campus is approximately three-fourths of a mile north at Chicago Avenue and Sheridan Road.

To Evanston from the West or Northwest, via I-88, I-90, or I-190: (Note: These directions also apply if traveling from O'Hare International Airport.)

1. Take I-88, I-90, or I-190 eastbound until you reach northbound I-294 (heading toward Wisconsin).
2. Take I-294 north to Dempster Street east.
3. Follow Dempster Street approximately 10 miles through the suburbs of Des Plaines, Park Ridge, Niles, Morton Grove, Skokie, and Evanston.
4. At Chicago Avenue in Evanston, turn left and go north.
5. Main campus is approximately three-fourths of a mile north at Chicago Avenue and Sheridan Road.

To Evanston from the South or Southeast, via I-94, I-90, I-80, or I-57:

Once you reach the Chicago area, you want to go north on I-94 West (Note: Highway is called I-94 West, but runs north-south in Chicago metro area.) If you are coming from:

I-80/I-94: I-94 splits from I-80 south of Chicago and heads north.

I-57: I-57 ends at and merges into I-94 on the south side of Chicago.

I-90: I-90 merges with I-94 on the south side of Chicago.

Once you are northbound on I-94 W:

1. When I-94 splits from I-90, bear to the right, staying on I-94 (Edens Expressway).
2. Take I-94 W north to Dempster Street east.
3. Follow Dempster Street approximately 5 miles through the suburbs of Skokie and Evanston.
4. At Chicago Avenue in Evanston, turn left and go north.
5. Main campus is approximately three-fourths of a mile north at Chicago Avenue and Sheridan Road.

Car Rental: Special rates have been negotiated with **Avis Rent A Car** for the period October 16–October 31, 2004. All rates include unlimited free mileage; beginning at \$24.99/day for a subcompact car at the weekend rate (the weekend rate is available from noon Thursday until Monday at 11:59 p.m.). Rates do not include state or local surcharges, tax, optional coverages, or gas refueling charges. Renter must meet Avis's age, driver, and credit requirements. Make reservations by calling 800-331-1600 or online at www.avis.com. Nonweekend and weekly rates are also available. Please quote **Avis Discount Number B159266** when making reservations.

Weather

October weather is generally pleasant and mild, with temperatures in the upper fifties and low sixties. Please visit <http://www.accuweather.com/adcbn/public/>

local_index.asp?zipcode=60201 for current and future weather conditions in Evanston.

Pittsburgh, Pennsylvania

University of Pittsburgh

November 6–7, 2004

Saturday – Sunday

Meeting #1002

Eastern Section

Associate secretary: Lesley M. Sibner

Announcement issue of *Notices*: September 2004

Program first available on AMS website: September 23, 2004

Program issue of electronic *Notices*: November 2004

Issue of *Abstracts*: Volume 25, Issue 4

Deadlines

For organizers: Expired

For consideration of contributed papers in Special Sessions:
July 20, 2004

For abstracts: September 14, 2004

Invited Addresses

Jeffrey F. Brock, Brown University, *Title to be announced.*

Der-Chen Chang, Georgetown University, *Title to be announced.*

Robert Schapire, Princeton University, *Title to be announced.*

Ofer Zeitouni, University of Minnesota, Minneapolis, *Title to be announced.*

Special Sessions

Convexity and Combinatorics (Code: SS 2A), **James F. Lawrence** and **Valeriu Soltan**, George Mason University.

Geometric Analysis and Partial Differential Equations in Subelliptic Structures (Code: SS 12A), **Cristian E. Gutierrez**, Temple University, **Guozhen Lu**, Wayne State University, and **Juan J. Manfredi**, University of Pittsburgh.

Graph Polynomials (Code: SS 8A), **E. Glen Whitehead Jr.**, University of Pittsburgh.

The History of Mathematics (Code: SS 3A), **Robert E. Bradley**, Adelphi University, and **Lawrence A. D'Antonio**, Ramapo College of New Jersey.

Invariants of Knots and 3-Manifolds (Code: SS 1A), **Marta M. Asaeda**, University of Maryland, **Jozef H. Przytycki**, George Washington University, and **Adam S. Sikora**, SUNY at Buffalo.

Knots and Macromolecules (Code: SS 7A), **Kenneth C. Millett**, University of California Santa Barbara, and **Eric J. Rawdon**, Duquesne University.

Mathematical Biology (Code: SS 13A), **Jonathan E. Rubin** and **Bard Ermentrout**, University of Pittsburgh.

Mathematical Finance (Code: SS 11A), **David Saunders** and **John Chadam**, University of Pittsburgh.

Mathematical Modeling of Nonlinear Phenomena in Biology and Mechanics (Code: SS 6A), **Anna Vainchtein** and **William C. Troy**, University of Pittsburgh.

Modularity of Galois Representations and Serre's Conjecture (Code: SS 14A), **Mark E. T. Dickinson**, University of Pittsburgh.

Multiscale Algorithms in Computational Fluid Dynamics (Code: SS 5A), **William J. Layton**, University of Pittsburgh, and **Anastasios Liakos**, U.S. Naval Academy.

Multivariate Hypergeometric Functions: Combinatorial and Algebraic-Geometric Aspects (Code: SS 9A), **Eduardo Cattani**, University of Massachusetts, Amherst, **Alicia M. Dickenstein**, Universidad de Buenos Aires, and **Laura Felicia Matusevich**, Harvard University.

Partial Differential Equations and Applications (Code: SS 4A), **Xinfu Chen** and **Dehua Wang**, University of Pittsburgh.

PDE-Based Methods in Imaging and Vision (Code: SS 15A), **Stacey E. Levine**, Duquesne University, and **Yunmei Chen**, University of Florida.

Trends in Operator Theory and Banach Spaces (Code: SS 10A), **Christopher J. Lennard** and **Thomas A. Metzger**, University of Pittsburgh.

Atlanta, Georgia

*Atlanta Marriott Marquis and Hyatt Regency
Atlanta*

January 5–8, 2005

Wednesday – Saturday

Meeting #1003

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: November 1, 2004

Program issue of electronic *Notices*: January 2005

Issue of *Abstracts*: Volume 26, Issue 1

Deadlines

For organizers: Expired

For consideration of contributed papers in Special Sessions:
August 10, 2004

For abstracts: October 5, 2004

For summaries of papers to MAA organizers: September 14, 2004

Joint Invited Addresses

Andrea L. Bertozzi, University of California Los Angeles, *Title to be announced* (AMS-MAA Invited Address).

Bernd Sturmfels, University of California Berkeley, *Title to be announced* (AMS-MAA Invited Address).

AMS Invited Addresses

Ingrid Daubechies, Princeton University, *Title to be announced* (Josiah Willard Gibbs Lecture).

Eleny Ionel, University of Wisconsin, *Title to be announced*.

Bruce A. Kleiner, University of Michigan, Ann Arbor, *Title to be announced*.

Robert K. Lazarsfeld, University of Michigan, *Title to be announced* (Colloquium Lectures).

Gunther Uhlmann, University of Washington, *Title to be announced*.

Avi Wigderson, Institute for Advanced Study, *Title to be announced*.

Steven M. Zelditch, Johns Hopkins University, *Title to be announced*.

MAA Invited Addresses

Georgia Benkart, University of Wisconsin, Madison, *Title to be announced*.

Erik D. Demaine, Massachusetts Institute of Technology, *Title to be announced*.

Fernando Q. Gouvêa, Colby College, *Title to be announced*.

Steven G. Krantz, Washington University, *Title to be announced*.

Ravi D. Vakil, Stanford University, *Title to be announced*.

Robin J. Wilson, The Open University, *Title to be announced*.

Invited Addresses of Other Organizations

Pavel Pevzner, University of California San Diego, *Title to be announced* (SIAM).

AMS Special Sessions

Some sessions are cosponsored with other organizations. These are noted within the parentheses at the end of each listing, where applicable.

Algebraic Geometry Codes and Quantum Codes (Code: SS 13A), **Shuhong Gao** and **Gretchen L. Matthews**, Clemson University.

Algorithmic Algebraic and Analytic Geometry (Code: SS 34A), **Saugata Basu**, Georgia Institute of Technology, **Victoria A. Powers**, Emory University, **Mika K. Sepälä**, Florida State University, **Tanush T. Shaska**, University of Idaho, and **Emil J. Volcheck**, National Security Agency.

Analysis and Applications in Nonlinear Partial Differential Equations (Code: SS 27A), **Michael T. Lacey**, **Jason L. Metcalfe**, **Gerd Mockenhaupt**, **Ronghua Pan**, and **Andrzej J. Swiech**, Georgia Institute of Technology. (AMS-SIAM)

Analysis Problems in Modern Physics (Code: SS 30A), **Steven M. Zelditch**, Johns Hopkins University.

Arithmetic Algebraic Geometry (Code: SS 32A), **Matthew H. Baker** and **Dino J. Lorenzini**, University of Georgia.

Commutative Algebra (Code: SS 20A), **Srikanth B. Iyengar**, University of Missouri, **Sean M. Sather-Wagstaff**, University of Illinois at Urbana-Champaign, **Anurag K. Singh**, Georgia Institute of Technology, and **Carolyn A. Yackel**, Mercer University.

Complex and Functional Analysis (Code: SS 25A), **Mihaly Bakonyi**, Georgia State University, and **Imre Patyi**, University of California San Diego.

Current Events (Code: SS 1A), **David Eisenbud**, Mathematical Sciences Research Institute and University of California Berkeley.

Design Theory and Graph Theory (Code: SS 24A), **Mike Daven**, Mount Saint Mary College, and **Atif A. Abueida**, University of Dayton.

D-Modules (Code: SS 14A), **Steven Sperber**, University of Minnesota, Minneapolis, and **Uli Walther**, Purdue University.

Dynamic Equations on Time Scales; Integer Sequences and Rational Maps (Code: SS 26A), **Martin J. Bohner**, University of Missouri-Rolla, **Marc A. Chamberland**, Grinnell College, **Billur Kaymakçalan**, Georgia Southern University, **Allan C. Peterson**, University of Nebraska-Lincoln, and **Diana M. Thomas**, Montclair State University. (AMS-SIAM)

Dynamics of Mapping Class Groups on Moduli Spaces (Code: SS 10A), **Richard J. Brown**, American University.

History of Mathematics (Code: SS 3A), **Joseph W. Dauben**, Lehman College (CUNY), **Patti Hunter**, Westmont College, and **Karen H. Parshall**, University of Virginia. (AMS-MAA)

Integrable Systems and Special Functions (Code: SS 31A), **Andras Balogh**, University of Texas-Pan American, **Mourad E. H. Ismail**, University of Central Florida, **Wen-Xiu Ma**, University of South Florida, and **Zhijun Qiao**, Los Alamos National Laboratory. (AMS-SIAM)

Inverse Spectral Geometry (Code: SS 16A), **Carolyn S. Gordon**, Dartmouth University, and **Ruth Gornet** and **Peter A. Perry**, University of Kentucky.

In the Wake of Jacobi and Hamilton 200 Years Later (Code: SS 37A), **Maria-Clara Nucci**, University of Perugia, and **Pavel Winternitz**, Centre de Recherches Mathématiques, Université de Montréal.

Mathematical Image Processing (Code: SS 36A), **Jianhong Shen**, University of Minnesota, Minneapolis, and **Tony F. Chan**, University of California Los Angeles. (AMS-SIAM)

Mathematical Sciences Contributions to the Biomedical Sciences (Code: SS 29A), **Peter D. March**, Ohio State University, **De Witt L. Sumners**, Florida State University, and **John Whitmarsh**, The National Institutes of Health. (AMS-MAA)

Mathematical Sciences Research for the Department of Energy's Computational Biology Needs (Code: SS 7A),

Jennifer R. Slimowitz, Board on Mathematical Sciences and Their Applications.

Mathematicians' Work on Mathematics Education (Code: SS 19A), **William G. McCallum**, University of Arizona. (AMS-MAA)

Mathematics and Education Reform (Code: SS 2A), **William H. Barker**, Bowdoin College, **Jerry L. Bona** and **Naomi Fisher**, University of Illinois at Chicago, **Kenneth C. Millett**, University of California Santa Barbara, and **Bonnie Saunders**, University of Illinois at Chicago. (AMS-MAA-MER)

Mathematics and Mathematics Education in Fiber Arts (Code: SS 21A), **Sarah-Marie Belcastro**, Xavier University, and **Carolyn A. Yackel**, Mercer University.

Modular Representation Theory of Finite and Algebraic Groups (Code: SS 8A), **David J. Hemmer**, University of Toledo, and **Cornelius Pillen**, University of South Alabama.

Nonsmooth Analysis in Variational and Imaging Problems (Code: SS 17A), **M. Zuhair Nashed**, University of Central Florida, and **Otmar Scherzer**, University of Innsbruck. (AMS-SIAM)

Orthogonal Polynomials–Random Matrices–Integrable Systems: Interdisciplinary Aspects (Code: SS 38A), **Jinho Baik**, University of Michigan, Ann Arbor, **Steven B. Damelin**, Georgia Southern University, and **Peter D. Miller**, University of Michigan, Ann Arbor. (AMS-SIAM)

Quantum Topology (Code: SS 15A), **Stavros Garoufalidis** and **T. T. Q. Le**, Georgia Institute of Technology.

Radon Transform and Inverse Problems (Code: SS 5A), **Adel Faridani**, Oregon State University, **Gestur Olafsson**, Louisiana State University, and **Todd Quinto**, Tufts University.

Reaction Diffusion Equations and Applications (Code: SS 28A), **Xu-Yan Chen**, Georgia Institute of Technology, **Yuanwei Qi**, University of Central Florida, **Junping Shi**, The College of William and Mary, and **Ratnasingham Shivaji**, Mississippi State University. (AMS-SIAM)

Recent Advances in Mathematical Ecology (Code: SS 18A), **Semen Koksial**, Florida Institute of Technology, **Sebastian Schreiber**, The College of William & Mary, and **Robert van Woesik**, Florida Institute of Technology. (AMS-SIAM)

Representations of Lie Algebras (Code: SS 23A), **Brian D. Boe**, University of Georgia, **Ben L. Cox**, College of Charleston, **Vyacheslav M. Futorny**, Universidade de Sao Paulo, **William A. Graham**, University of Georgia, **Duncan J. Melville**, St Lawrence University, and **Daniel K. Nakano**, University of Georgia.

Research in Mathematics by Undergraduates (Code: SS 9A), **Darren A. Narayan** and **Tamara A. Burton**, Rochester Institute of Technology, **Michael J. Fisher**, California State University, Fresno, and **Carl V. Lutzer**, Rochester Institute of Technology. (AMS-MAA-SIAM)

Reverse Mathematics (Code: SS 6A), **Jeff L. Hirst**, Appalachian State University, and **Reed Solomon**, University of Connecticut. (AMS-ASL)

Riemannian Geometry (Code: SS 11A), **Igor Belegradek**, Georgia Institute of Technology, and **Mohammad Ghomi**, Georgia Institute of Technology and Pennsylvania State University.

Spaces of Vector-Valued Functions (Code: SS 22A), **Terje Høim**, Florida Atlantic University, and **David A. Robbins**, Trinity College.

Stochastic, Large-Scale, and Hybrid Systems (Code: SS 12A), **A. S. Vatsala**, University of Louisiana at Lafayette, and **G. S. Ladde**, University of Texas at Arlington. (AMS-SIAM)

Theoretical and Computational Aspects of Inverse Problems (Code: SS 4A), **Gunther Uhlmann**, University of Washington, and **David L. Colton**, University of Delaware. (AMS-SIAM)

Topics in Geometric Function Theory (Code: SS 33A), **Abdelkrim Farouk Brania**, Morehouse College, **David A. Herron**, University of Cincinnati, and **Shanshuang Yang**, Emory University.

Tropical Geometry (Code: SS 35A), **Michael Develin** and **Bernd Sturmfels**, University of California Berkeley. (AMS-MAA)

Bowling Green, Kentucky

Western Kentucky University

March 18–19, 2005

Friday – Saturday

Meeting #1004

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*: Volume 26, Issue 2

Deadlines

For organizers: July 19, 2004

For consideration of contributed papers in Special Sessions:

To be announced

For abstracts: To be announced

Newark, Delaware

University of Delaware

April 2–3, 2005

Saturday – Sunday

Meeting #1005

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*: Volume 26, Issue 2

Deadlines

For organizers: September 2, 2004

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

For abstracts: To be announced

Invited Addresses

Xiu Xiong Chen, University of Wisconsin, *Title to be announced.*

Anna Gilbert, AT&T Labs Research, *Title to be announced.*

Alex Lubotzky, Hebrew University of Jerusalem, *Title to be announced.*

Lorenz Schwachhoefer, University of Dortmund, *Title to be announced.*

Special Sessions

Asymptotic Behavior of Evolution Equations (Code: SS 4A), **Gaston M. N'Guerekaya**, Morgan State University, and **Nguyen Van Minh**, James Madison University.

Homotopy Theory (in Honor of Donald M. Davis's and Martin Bendersky's 60th Birthdays) (Code: SS 1A), **Kenneth G. Monks**, University of Scranton, and **W. Stephen Wilson**, Johns Hopkins University.

Mathematical Methods in Electromagnetic Wave Propagation (Code: SS 3A), **Fioralba Cakoni** and **Peter B. Monk**, University of Delaware.

Singular Analysis and Spectral Theory of Partial Differential Equations (Code: SS 2A), **Juan B. Gil**, Pennsylvania State University, Altoona, and **Gerardo A. Mendoza**, Temple University.

Lubbock, Texas

Texas Tech University

April 8–10, 2005

Friday – Sunday

Meeting #1006

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*: Volume 26, Issue 3

Deadlines

For organizers: September 9, 2004

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

For abstracts: To be announced

Invited Addresses

Nikolai Ivanov, Michigan State University, *Title to be announced.*

Mattias Jonsson, University of Michigan, *Title to be announced.*

Nicolas Monod, University of Chicago, *Title to be announced.*

Hee Oh, California Institute of Tech, *Title to be announced.*

Special Sessions

Classical and Differential Galois Theory (Code: SS 3A), **Lourdes Juan** and **Arne Ledet**, Texas Tech University, and **Andy R. Magid**, University of Oklahoma.

Differential Geometry and Its Applications (Code: SS 2A), **Josef F. Dorfmeister**, Munich University of Technology, **Magdalena D. Toda**, Texas Tech University, and **Hongyou Wu**, Northern Illinois University.

Homological Algebra and Its Applications (Code: SS 4A), **Alex Martsinkovsky**, Northeastern University, and **Mara D. Neusel**, Texas Tech University.

Recent Advances in Complex Function Theory (Code: SS 5A), **Brock Williams**, **Roger Barnard**, and **Kent Pearce**, Texas Tech University.

Topology of Continua (Code: SS 1A), **Wayne Lewis**, Texas Tech University.

Santa Barbara, California

University of California Santa Barbara

April 16–17, 2005

Saturday – Sunday

Meeting #1007

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*: Volume 26, Issue 3

Deadlines

For organizers: September 16, 2004

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

For abstracts: To be announced

Invited Addresses

Mei-Chu Chang, University of California Riverside, *To be announced.*

Mischa Kapovich, University of California Davis, *To be announced.*

Mihai Putinar, University of California Santa Barbara, *To be announced.*

James Sethian, University of California Berkeley, *To be announced.*

Special Sessions

Dynamical Systems in Neuroscience (Code: SS 1A), **Eugene M. Izhikevich**, The Neurosciences Institute.

History of Mathematics (Code: SS 2A), **Shawnee L. McMurrin**, California State University, San Bernardino, and **James J. Tattersall**, Providence College.

Recent Advances in Combinatorial Number Theory (Code: SS 3A), **Mei-Chu Chang**, University of California Riverside, and **Van Ha Vu**, University of California San Diego.

Mainz, Germany

June 16–19, 2005

Thursday – Sunday

Meeting #1008

Joint International Meeting with the Deutsche Mathematiker-Vereinigung (DMV) and the Oesterreichische Mathematische Gesellschaft (OMG)

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

Invited Addresses

Helene Esnault, University of Essen, *Title to be announced.*

Richard Hamilton, Columbia University, *Title to be announced.*

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

Christian Krattenthaler, University of Lyon, *Title to be announced.*

Frank Natterer, University of Muenster, *Title to be announced.*

Horng-Tzer Yau, New York University and Stanford University, *Title to be announced.*

Special Sessions

Algebraic Combinatorics, **Patricia Hersh**, University of Michigan, **Christian Krattenthaler**, Université Claude Bernard Lyon-I, and **Volkmar Welker**, Philipps University Marburg.

Algebraic Geometry, **Yuri Tschinkel**, Georg-August-Universität Göttingen, and **Brendan E. Hassett**, Rice University.

Discrete Geometry, **Jacob Eli Goodman**, The City College of New York, CUNY, **Emo Welzl**, Eidgenössische Technis-

che Hochschule, and **Gunter M. Ziegler**, Technical University of Berlin.

Functional Analytic and Complex Analytic Methods in Linear Partial Differential Equations, **R. Meise**, University of Dusseldorf, **B. A. Taylor**, University of Michigan, and **Dietmar Vogt**, University of Wuppertal.

History of Mathematics: Mathematics and War, **Thomas W. Archibald**, Acadia University, **John H. McCleary**, Vassar College, **Moritz Epple**, University of Stuttgart, and **Norbert Schappacher**, Technische Universität Darmstadt.

Homotopy Theory, **Paul G. Goerss**, Northwestern University, **Hans-Werner Henn**, Institut de Recherche Mathématique Avancée, Strasbourg, and **Stefan Schwede**, Universität Bonn.

Hopf Algebras and Quantum Groups, **Susan Montgomery**, University of Southern California, and **Hans-Jurgen Schneider**, University of Munich.

Mathematics Education, **Gunter Torner**, Universität Duisburg-Essen and **Alan Schoenfeld**, School of Education, Berkeley.

Nonlinear Waves, **Herbert Koch**, University of Dortmund, and **Daniel I. Tataru**, University of California Berkeley.

Stochastic Analysis on Metric Spaces, **Laurent Saloff-Coste**, Cornell University, **Karl-Theodor Sturm**, University of Bonn, and **Wolfgang Woess**, Graz Technical University.

Topology of Manifolds, **Matthias Kreck**, University of Heidelberg, and **Andrew Ranicki**, University of Edinburgh.

Annandale-on-Hudson, New York

*Bard College***October 8–9, 2005**

Saturday – Sunday

Meeting #1009

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*: Volume 26, Issue 4

Deadlines

For organizers: March 8, 2005

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

For abstracts: To be announced

Invited Addresses

Persi Diaconis, Stanford University, *Title to be announced* (Erdős Memorial Lecture).

Johnson City, Tennessee

East Tennessee State University

October 15–16, 2005

Saturday – Sunday

Meeting #1010

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*: Volume 26, Issue 4

Deadlines

For organizers: March 15, 2005

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

For abstracts: To be announced

Lincoln, Nebraska

University of Nebraska in Lincoln

October 21–22, 2005

Friday – Saturday

Meeting #1011

Central Section

Associate secretary: Susan J. Friedlander

Announcement issue of *Notices*: August 2005

Program first available on AMS website: To be announced

Program issue of electronic *Notices*: To be announced

Issue of *Abstracts*: Volume 26, Issue 4

Deadlines

For organizers: March 22, 2005

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

For abstracts: To be announced

Invited Addresses

Barry Masur, University of Illinois at Chicago, *Title to be announced.*

Alejandro Uribe, University of Michigan, *Title to be announced.*

Judy Walker, University of Nebraska, *Title to be announced.*

Jack Xin, University of Texas, *Title to be announced.*

Special Sessions

Algebraic Geometry (Code: SS 1A), **Brian Harbourne**, University of Nebraska-Lincoln, and **Bangere P. Purnaprajna**, University of Kansas.

Eugene, Oregon

University of Oregon

November 12–13, 2005

Saturday – Sunday

Meeting #1012

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*: Volume 26, Issue 4

Deadlines

For organizers: April 12, 2005

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

For abstracts: To be announced

Taiwan

December 14–18, 2005

Wednesday – Sunday

Meeting #1013

First Joint International Meeting between the AMS and the Taiwanese Mathematical Society.

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

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

San Francisco, California

San Francisco State University

April 29–30, 2006

Saturday – Sunday

Western Section

Associate secretary: Michel L. Lapidus

Announcement issue of *Notices*: To be announced

Program first available on AMS website: To be announced

Program issue of electronic *Notices*: To be announced

Issue of *Abstracts*: To be announced

Deadlines

For organizers: To be announced

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

For abstracts: To be announced

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