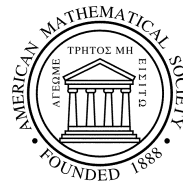


# Atlanta, Georgia Timetable



## M O N D A Y , J A N U A R Y 3

9:00 a.m. — 5:00 p.m. **AMS SHORT COURSE: RADON TRANSFORM AND APPLICATIONS TO INVERSE PROBLEMS, I**

9:00 a.m. — 5:00 p.m. **MAA SHORT COURSE: EIGHT LECTURES ON RANDOM GRAPHS, I**

## T U E S D A Y , J A N U A R Y 4

8:30 a.m. — 4:00 p.m. **MAA BOARD OF GOVERNORS**

9:00 a.m. — 5:00 p.m. **AMS SHORT COURSE: RADON TRANSFORM AND APPLICATIONS TO INVERSE PROBLEMS, II**

9:00 a.m. — 5:00 p.m. **MAA SHORT COURSE: EIGHT LECTURES ON RANDOM GRAPHS, II**

1:30 p.m. — 10:00 p.m. **AMS COUNCIL**

3:00 p.m. — 8:00 p.m. **JOINT MEETINGS REGISTRATION** *Full registration will be conducted from 3:00 p.m. until 7:00 p.m. Registration badge/program pickup only will be open until 8:00 p.m.*

## W E D N E S D A Y , J A N U A R Y 5

7:30 a.m. — 4:00 p.m. **JOINT MEETINGS REGISTRATION**

7:30 a.m. — 4:00 p.m. **EMPLOYMENT CENTER REGISTRATION**

8:00 a.m. — 10:50 a.m. **AMS-MAA-MER SPECIAL SESSION ON MATHEMATICS AND EDUCATION REFORM, I**

### AMS-SIAM SPECIAL SESSIONS

8:00 a.m. — 10:50 a.m. *Dynamic Equations on Time Scales; Integer Sequences and Rational Maps, I*

8:00 a.m. — 10:50 a.m. *Mathematical Image Processing, I*

8:00 a.m. — 10:50 a.m. *Theoretical and Computational Aspects of Inverse Problems, I*

8:00 a.m. — 10:50 a.m. **AMS-ASL SPECIAL SESSION ON REVERSE MATHEMATICS, I**

### AMS SPECIAL SESSIONS

8:00 a.m. — 10:50 a.m. *Riemannian Geometry, I*

8:00 a.m. — 10:50 a.m. *D-Modules, I*

8:00 a.m. — 10:50 a.m. *Commutative Algebra, I*

8:00 a.m. — 10:50 a.m. *Design Theory and Graph Theory, I*

8:00 a.m. — 10:50 a.m. *Analysis Problems in Modern Physics, I*

8:00 a.m. — 10:50 a.m. *In the Wake of Jacobi and Hamilton 200 Years Later, I*

8:00 a.m. — 10:50 a.m. *Radon Transform and Inverse Problems, I*

8:00 a.m. — 10:55 a.m. **AMS CONTRIBUTED PAPER SESSION**

### MAA CONTRIBUTED PAPER SESSIONS

8:00 a.m. — 10:55 a.m. *Getting Students To Discuss and To Write About Mathematics, I*

8:00 a.m. — 10:55 a.m. *My Favorite Demo: Innovative Strategies for Mathematics Instructors, I*

8:00 a.m. — 10:55 a.m. *Courses Below Calculus: A New Focus, I*

8:00 a.m. — 10:55 a.m. *Mathematics and Sports, I*

- 8:00 a.m. — 10:55 a.m. **MAA GENERAL CONTRIBUTED PAPER SESSION, I**
- 8:00 a.m. — 10:50 a.m. **SIAM MINISYMPOSIUM ON ERROR-CORRECTING CODES**
- 8:30 a.m. — 10:55 a.m. **MAA COMMITTEE ON GRADUATE STUDENTS SPECIAL PRESENTATION** *Training T. A.s in departments and at section meetings.*
- 9:00 a.m. — 11:00 a.m. **MAA MINICOURSE #12: PART A** *Getting students involved in undergraduate research.*
- 9:00 a.m. — 11:00 a.m. **MAA MINICOURSE #1: PART A** *Visual linear algebra.*
- 9:00 a.m. — 11:00 a.m. **MAA MINICOURSE #7: PART A** *Developing your department's assessment plan.*
- 9:30 a.m. — 10:50 a.m. **MAA SPECIAL PRESENTATION** *Doctoral programs in mathematics education: Their nature and how to find them.*
- 9:30 a.m. — 10:50 a.m. **MAA SPECIAL PRESENTATION** *A problem-based core program.*
- 10:05 a.m. — 10:55 a.m. **AMS INVITED ADDRESS** *Title to be announced.* **Bruce A. Kleiner**
- 11:10 a.m. — 12:00 p.m. **AMS-MAA INVITED ADDRESS** *Processing images using nonlinear PDEs.* **Andrea L. Bertozzi**
- 12:15 p.m. — 5:30 p.m. **EXHIBITS AND BOOK SALES**
- 1:00 p.m. — 1:50 p.m. **AMS COLLOQUIUM LECTURES: LECTURE I** *How polynomials vanish: Singularities, integrals, and ideals (Part I).* **Robert K. Lazarsfeld**
- 2:15 p.m. — 3:05 p.m. **MAA INVITED ADDRESS** *What are  $p$ -adic numbers and what are they for?* **Fernando Q. Gouvêa**
- 2:15 p.m. — 6:05 p.m. **AMS-MAA-MER SPECIAL SESSION ON MATHEMATICS AND EDUCATION REFORM, II**
- AMS-SIAM SPECIAL SESSIONS**
- 2:15 p.m. — 6:05 p.m. *Dynamic Equations on Time Scales; Integer Sequences and Rational Maps, II*
- 2:15 p.m. — 6:05 p.m. *Mathematical Image Processing, II*
- 2:15 p.m. — 6:05 p.m. *Theoretical and Computational Aspects of Inverse Problems, II*
- AMS SPECIAL SESSIONS**
- 2:15 p.m. — 6:05 p.m. *Riemannian Geometry, II*
- 2:15 p.m. — 6:05 p.m. *D-Modules, II*
- 2:15 p.m. — 6:05 p.m. *Commutative Algebra, II*
- 2:15 p.m. — 6:05 p.m. *Representations of Lie Algebras, I*
- 2:15 p.m. — 6:05 p.m. *Design Theory and Graph Theory, II*
- 2:15 p.m. — 6:05 p.m. *Radon Transform and Inverse Problems, II*
- 2:15 p.m. — 6:05 p.m. *Mathematical Sciences Research for the Department of Energy's Computational Biology Needs*
- 2:15 p.m. — 4:15 p.m. **MAA MINICOURSE #13: PART A** *Origami in undergraduate mathematics courses.*
- 2:15 p.m. — 4:15 p.m. **MAA MINICOURSE #2: PART A** *Teaching a Galois theory for undergraduates.*
- 2:15 p.m. — 4:15 p.m. **MAA MINICOURSE #8: PART A** *Mathematical finance.*
- MAA CONTRIBUTED PAPER SESSIONS**
- 2:15 p.m. — 6:00 p.m. *Mathematics in the Islamic World*
- 2:15 p.m. — 6:00 p.m. *Mathlets for Teaching and Learning Mathematics*
- 2:15 p.m. — 6:00 p.m. *Drawing on Our Students' Thinking to Improve the Mathematical Education of Teachers*
- 2:15 p.m. — 6:00 p.m. **MAA GENERAL CONTRIBUTED PAPER SESSION, II**
- 2:15 p.m. — 6:00 p.m. **SIAM MINISYMPOSIUM ON UNDERGRADUATE LINEAR ALGEBRA AND DIFFERENTIAL EQUATIONS: PROJECTS, PROBLEMS, AND ISSUES**
- 2:15 p.m. — 6:00 p.m. **SIAM MINISYMPOSIUM ON DISCONTINUOUS GALERKIN METHODS: THEORY AND APPLICATIONS**
- 2:15 p.m. — 3:45 p.m. **MAA PROJECT NEXT PANEL DISCUSSION** *Developing undergraduate research projects that are not in discrete mathematics.*

**W E D N E S D A Y , J A N U A R Y 5 ( c o n t ' d )**

- 2:15 p.m. — 3:35 p.m. **SIGMAA ON RUME GUIDELINES COMMITTEE PANEL DISCUSSION** *Ph.D. programs in research in undergraduate mathematics.*
- 2:15 p.m. — 3:35 p.m. **MAA-YOUNG MATHEMATICIANS' NETWORK PANEL DISCUSSION** *Career paths for undergraduates in mathematics.*
- 2:15 p.m. — 5:55 p.m. **AMS SESSION FOR CONTRIBUTED PAPERS**
- 2:30 p.m. — 5:00 p.m. **MAA SECTION OFFICERS**
- 3:20 p.m. — 4:05 p.m. **MAA INVITED ADDRESS** *Given four lines in space, how many other lines meet all four?: The geometry, topology, and combinatorics behind linear algebra.* **Ravi D. Vakil**
- 3:20 p.m. — 4:20 p.m. **AWM-NAM PANEL DISCUSSION** *Achieving diversity in graduate programs, Part I: The challenge to retain women.*
- 3:30 p.m. — 4:50 p.m. **MAA COMMITTEE ON GRADUATE STUDENTS SPECIAL PRESENTATION** *How to interview for your first job.*
- 3:50 p.m. — 5:10 p.m. **MAA PROJECT NEXT-YOUNG MATHEMATICIANS' NETWORK PANEL DISCUSSION** *Dealing with the two-body problem.*
- 3:50 p.m. — 5:10 p.m. **MAA CUPM SUBCOMMITTEE ON CURRICULUM RENEWAL ACROSS THE FIRST TWO YEARS (CRAFTY) PANEL DISCUSSION** *Refocused college algebra: A basis for QL programs.*
- 4:00 p.m. — 5:00 p.m. **WELCOMING RECEPTION FOR UNDERGRADUATE STUDENTS**
- 4:20 p.m. — 4:50 p.m. **AWM BUSINESS MEETING**
- 4:30 p.m. — 6:30 p.m. **MAA MINICOURSE #14: PART A** *Euler.*
- 4:30 p.m. — 6:30 p.m. **MAA MINICOURSE #3: PART A** *Creating interactive workbooks using MS Excel.*
- 4:30 p.m. — 6:30 p.m. **MAA MINICOURSE #9: PART A** *Infusing connections into core courses for future secondary teachers.*
- 4:50 p.m. — 5:30 p.m. **AWM FOCUS DISCUSSION** *Focus: Future.*
- 5:00 p.m. — 6:00 p.m. **RECEPTION FOR FIRST-TIME PARTICIPANTS**
- 5:30 p.m. — 8:00 p.m. **MATHEMATICAL INSTITUTES OPEN HOUSE**
- 6:00 p.m. — 7:00 p.m. **GRADUATE STUDENT RECEPTION**
- 8:30 p.m. — 9:30 p.m. **AMS JOSIAH WILLARD GIBBS LECTURE** *The Interplay between Analysis and Algorithms.* **Ingrid Daubechies**

**T H U R S D A Y , J A N U A R Y 6**

- 9:30 p.m. — 11:00 p.m. **AWM RECEPTION**
- 7:00 a.m. — 7:30 p.m. **EMPLOYMENT CENTER**
- 7:30 a.m. — 4:00 p.m. **JOINT MEETINGS REGISTRATION**
- 8:00 a.m. — 11:50 a.m. **AMS-MAA-MER SPECIAL SESSION ON MATHEMATICS AND EDUCATION REFORM, III**
- 8:00 a.m. — 11:50 a.m. **AMS-MAA SPECIAL SESSIONS**  
*Tropical Geometry, I*
- 8:00 a.m. — 11:50 a.m. **AMS-SIAM SPECIAL SESSIONS**  
*Stochastic, Large-Scale and Hybrid Systems, I*
- 8:00 a.m. — 11:50 a.m. *Dynamic Equations on Time Scales; Integer Sequences and Rational Maps, III*
- 8:00 a.m. — 11:50 a.m. *Orthogonal Polynomials—Random Matrices—Integrable Systems: Interdisciplinary Aspects, I*
- 8:00 a.m. — 11:50 a.m. *Theoretical and Computational Aspects of Inverse Problems, III*

- 8:00 a.m. — 11:50 a.m. **AMS-ASL SPECIAL SESSION ON REVERSE MATHEMATICS, II**
- AMS SPECIAL SESSIONS**
- 8:00 a.m. — 11:50 a.m. *Mathematical Sciences Contributions to the Biomedical Sciences, I*
- 8:00 a.m. — 11:50 a.m. *Riemannian Geometry, III*
- 8:00 a.m. — 11:50 a.m. *Quantum Topology, I*
- 8:00 a.m. — 11:50 a.m. *Commutative Algebra, III*
- 8:00 a.m. — 11:50 a.m. *Representations of Lie Algebras, II*
- 8:00 a.m. — 11:50 a.m. *Analysis Problems in Modern Physics, II*
- 8:00 a.m. — 11:50 a.m. *Radon Transform and Inverse Problems, III*
- 8:00 a.m. — 10:00 a.m. **MAA MINICOURSE #4: PART A** *Java applets in teaching mathematics.*
- MAA CONTRIBUTED PAPER SESSIONS**
- 8:00 a.m. — 12:00 p.m. *History of Undergraduate Mathematics in America, 1900–2000*
- 8:00 a.m. — 12:00 p.m. *Initializing and Sustaining Undergraduate Research Projects and Programs*
- 8:00 a.m. — 12:00 p.m. *Projects and Demonstrations that Enhance a Differential Equations Course*
- 8:00 a.m. — 12:00 p.m. *Countering “I Can’t Do Math”: Strategies for Teaching Under-Prepared, Math-Anxious Students*
- 8:00 a.m. — 12:00 p.m. **MAA GENERAL CONTRIBUTED PAPER SESSION, III**
- 8:00 a.m. — 11:55 a.m. **AMS SESSION FOR CONTRIBUTED PAPERS**
- 8:30 a.m. — 10:00 a.m. **MAA PROJECT NEXT PANEL DISCUSSION** *What faculty can do to promote diversity in mathematics.*
- 8:30 a.m. — 11:30 a.m. **MAA SPECIAL PRESENTATION** *Emerging technologies in undergraduate mathematics.*
- 9:00 a.m. — 9:50 a.m. **AWM EMMY NOETHER LECTURE** *From limit cycles to strange attractors.* **Lai-Sang Young**
- 9:00 a.m. — 11:00 a.m. **MAA MINICOURSE #10: PART A** *Bridging the gap between mathematics and the physical sciences.*
- 9:00 a.m. — 11:00 a.m. **MAA MINICOURSE #15: PART A** *Conceptests and Peer Instruction: Active learning in the calculus classroom.*
- 9:00 a.m. — 10:20 a.m. **MAA SPECIAL PRESENTATION** *National Science Foundation programs supporting learning and teaching in the mathematical sciences.*
- 10:00 a.m. — 11:00 a.m. **AMS SPECIAL PRESENTATION** *Do the Math!*
- 10:00 a.m. — 6:00 p.m. **EXHIBITS AND BOOK SALES**
- 10:05 a.m. — 10:55 a.m. **MAA INVITED ADDRESS** *Origami, linkages, and polyhedra: Folding with algorithms.* **Erik D. Demaine**
- 10:15 a.m. — 12:15 p.m. **MAA MINICOURSE #5: PART A** *Hands-on discrete mathematics with technology.*
- 10:30 p.m. — 12:00 p.m. **AMS-ASL PANEL DISCUSSION** *Hilbert’s first problem.*
- 10:30 a.m. — 12:00 p.m. **MAA PROJECT NEXT PANEL DISCUSSION** *Recruiting students for mathematics departments.*
- 10:45 a.m. — 12:05 p.m. **MAA PANEL DISCUSSION** *Using the CUPM Curriculum Guide 2004 to get grants to facilitate change.*
- 10:45 a.m. — 12:05 p.m. **MAA COMMITTEE ON ARTICULATION AND PLACEMENT PANEL DISCUSSION** *How changes in high school mathematics could influence collegiate mathematics.*
- 11:10 a.m. — 12:00 p.m. **SIAM INVITED ADDRESS** *Transforming men into mice (and into chimpanzees, dogs, chickens, etc.).* **Pavel Pevzner**
- 1:00 p.m. — 1:50 p.m. **AMS COLLOQUIUM LECTURES: LECTURE II** *How polynomials vanish: Singularities, integrals, and ideals (Part II).* **Robert K. Lazarsfeld**
- 1:00 p.m. — 3:50 p.m. **AMS-MAA-MER SPECIAL SESSION ON MATHEMATICS AND EDUCATION REFORM, IV**

**AMS-MAA SPECIAL SESSIONS**

1:00 p.m. — 3:50 p.m.

*Tropical Geometry, II*

**AMS-SIAM SPECIAL SESSIONS**

1:00 p.m. — 3:50 p.m.

*Stochastic, Large-Scale and Hybrid Systems, II*

1:00 p.m. — 3:50 p.m.

*Dynamic Equations on Time Scales; Integer Sequences and Rational Maps, IV*

1:00 p.m. — 3:50 p.m.

*Orthogonal Polynomials—Random Matrices—Integrable Systems: Interdisciplinary Aspects, II*

1:00 p.m. — 3:50 p.m.

*Theoretical and Computational Aspects of Inverse Problems, IV*

1:00 p.m. — 3:50 p.m.

**AMS-ASL SPECIAL SESSION ON REVERSE MATHEMATICS, III**

**AMS SPECIAL SESSIONS**

1:00 a.m. — 3:50 a.m.

*Mathematical Sciences Contributions to the Biomedical Sciences, II*

1:00 p.m. — 3:50 p.m.

*Quantum Topology, II*

1:00 p.m. — 3:50 p.m.

*Representations of Lie Algebras, III*

1:00 p.m. — 3:50 p.m.

*Analysis Problems in Modern Physics, III*

1:00 p.m. — 3:50 p.m.

*In the Wake of Jacobi and Hamilton 200 Years Later, II*

1:00 p.m. — 3:50 p.m.

*Radon Transform and Inverse Problems, IV*

1:00 p.m. — 3:00 p.m.

**MAA MINICOURSE #11: PART A** *Fair enough? Mathematics of equity.*

1:00 p.m. — 3:00 p.m.

**MAA MINICOURSE #16: PART A** *Music and mathematics.*

1:00 p.m. — 3:00 p.m.

**MAA MINICOURSE #6: PART A** *Webwork, an internet-based system for generating and delivering homework problems to students.*

**MAA CONTRIBUTED PAPER SESSIONS**

1:00 p.m. — 4:10 p.m.

*Getting Students To Discuss and To Write About Mathematics, II*

1:00 p.m. — 4:10 p.m.

*My Favorite Demo: Innovative Strategies for Mathematics Instructors, II*

1:00 p.m. — 4:10 p.m.

*Using Real-World Data to Illustrate Statistical Concepts, I*

1:00 p.m. — 4:10 p.m.

**MAA GENERAL CONTRIBUTED PAPER SESSION, IV**

1:00 p.m. — 3:00 p.m.

**ENVIRONMENTAL MATHEMATICS SIGMAA INVITED ADDRESS, COUNCIL MEETING, AND BUSINESS MEETING** *The featured speaker is Benoit B. Mandelbrot, Yale University.*

1:00 p.m. — 2:20 p.m.

**MAA PANEL DISCUSSION** *Using CUPM Curriculum Guide 2004: Assessing and improving the program for the major in mathematics.*

1:00 p.m. — 2:20 p.m.

**MAA SPECIAL PRESENTATION** *Learning to prove: Strategies to improve students' proof writing skills.*

1:00 p.m. — 4:00 p.m.

**MAA SPECIAL PRESENTATION** *Undergraduate mathematics and NSDL: The National Science Technology Engineering and Mathematics Education Digital Library.*

1:00 p.m. — 4:10 p.m.

**AMS SESSION FOR CONTRIBUTED PAPERS**

2:00 p.m. — 4:00 p.m.

**MAA PROJECT NEXT-YOUNG MATHEMATICIANS' NETWORK POSTER SESSION**

2:00 p.m. — 4:00 p.m.

**SUMMER PROGRAM FOR WOMEN IN MATHEMATICS**

2:15 p.m. — 3:05 p.m.

**AMS INVITED ADDRESS** *Embedded curves and Gromov-Witten invariants.* **Eleny Ionel**

2:30 p.m. — 3:50 p.m.

**MAA PANEL DISCUSSION** *Speaking of mathematics.*

2:30 p.m. — 3:50 p.m.

**MAA PANEL DISCUSSION** *The senior seminar or "capstone" experience for undergraduate mathematics majors.*

3:15 p.m. — 4:35 p.m.

**MAA PANEL DISCUSSION** *Moore method calculus by those who do it.*

3:20 p.m. — 4:10 p.m.

**AMS INVITED ADDRESS** *The power and weakness of randomness (when you are short on time).*  
**Avi Wigderson**

4:25 p.m. — 5:45 p.m.

**JOINT PRIZE SESSION**

5:45 p.m. — 6:30 p.m.

**JOINT PRIZE SESSION RECEPTION**

**T H U R S D A Y , J A N U A R Y 6 ( c o n t ' d )**

- 5:45 p.m. — 7:00 p.m. **LEHIGH UNIVERSITY RECEPTION**
- 5:45 p.m. — 7:00 p.m. **MAA TWO-YEAR COLLEGE RECEPTION**
- 6:00 p.m. — 8:00 p.m. **SIGMAA ON THE HISTORY OF MATHEMATICS ANNUAL MEETING** *The guest lecturer is Thomas Archibald, Dibner Institute at MIT and Arcadia University.*
- 6:00 p.m. — 7:00 p.m. **UNIVERSITY OF CHICAGO DEPARTMENT OF MATHEMATICS ALUMNI RECEPTION**
- 6:00 p.m. — 8:00 p.m. **ASSOCIATION OF LESBIAN, GAY, BISEXUAL, AND TRANSGENDERED MATHEMATICIANS RECEPTION**
- 6:00 p.m. — 9:30 p.m. **MER BANQUET**
- 7:30 p.m. — 8:30 p.m. **YOUNG MATHEMATICIANS' NETWORK TOWN MEETING**
- 8:15 p.m. — 9:45 p.m. **KNITTING CIRCLE**

**F R I D A Y , J A N U A R Y 7**

- 7:00 a.m. — 8:00 a.m. **JOINT PME AND MAA STUDENT CHAPTER ADVISORS' BREAKFAST**
- 7:30 a.m. — 4:00 p.m. **JOINT MEETINGS REGISTRATION**
- AMS-SIAM SPECIAL SESSIONS**
- 8:00 a.m. — 10:50 a.m. *Recent Advances in Mathematical Ecology, I*
- 8:00 a.m. — 10:50 a.m. *Nonsmooth Analysis in Variational and Imaging Problems, I*
- 8:00 a.m. — 10:50 a.m. *Reaction Diffusion Equations and Applications, I*
- 8:00 a.m. — 10:50 a.m. *Integrable Systems and Special Functions, I*
- AMS SPECIAL SESSIONS**
- 8:00 a.m. — 10:50 a.m. *Dynamics of Mapping Class Groups on Moduli Spaces, I*
- 8:00 a.m. — 10:50 a.m. *Inverse Spectral Geometry, I*
- 8:00 a.m. — 10:50 a.m. *Spaces of Vector-Valued Functions, I*
- 8:00 a.m. — 10:50 a.m. *Arithmetic Algebraic Geometry, I*
- 8:00 a.m. — 10:50 a.m. *Algorithmic Algebraic and Analytic Geometry, I*
- 8:00 a.m. — 10:50 a.m. *Modular Representation Theory of Finite and Algebraic Groups, I*
- MAA CONTRIBUTED PAPER SESSIONS**
- 8:00 a.m. — 10:55 a.m. *Using Real-World Data to Illustrate Statistical Concepts, II*
- 8:00 a.m. — 10:55 a.m. *Environmental Mathematics and the Interdisciplinary*
- 8:00 a.m. — 10:55 a.m. *Teaching Visualization Skills*
- 8:00 a.m. — 10:55 a.m. *Teaching and Assessing Problem Solving*
- 8:00 a.m. — 10:55 a.m. **MAA GENERAL CONTRIBUTED PAPER SESSION, V**
- 8:00 a.m. — 10:55 a.m. **AMS SESSION FOR CONTRIBUTED PAPERS**
- 8:00 a.m. — 5:00 p.m. **ASL INVITED ADDRESSES AND CONTRIBUTED PAPERS**
- 8:00 a.m. — 10:55 a.m. **PME COUNCIL**
- 8:15 a.m. — 7:30 p.m. **EMPLOYMENT CENTER**
- 9:00 a.m. — 9:50 a.m. **AMS INVITED ADDRESS** *Recent developments in inverse problems.* **Gunther Uhlmann**
- 9:00 a.m. — 11:00 a.m. **MAA MINICOURSE #12: PART B** *Getting students involved in undergraduate research.*
- 9:00 a.m. — 11:00 a.m. **MAA MINICOURSE #1: PART B** *Visual linear algebra.*
- 9:00 a.m. — 11:00 a.m. **MAA MINICOURSE #7: PART B** *Developing your department's assessment plan.*
- 9:00 a.m. — 10:20 a.m. **MAA COMMITTEE ON THE PROFESSION PANEL DISCUSSION** *Long-term mathematics faculty*

*outside of the tenure track: Possibilities, pitfalls, and practicalities.*

- 9:00 a.m. — 10:55 a.m. **MAA SPECIAL PRESENTATION** *Using mathematically rich activities to develop K–12 curricula: Part I.*
- 9:00 a.m. — 10:20 a.m. **MAA SPECIAL PRESENTATION** *Proposal writing workshop for grant applications to the NSF division of undergraduate education.*
- 9:30 a.m. — 10:55 a.m. **AMS WORKSHOP** *T.A. development using case studies: A workshop for faculty (Part 1).*
- 10:00 a.m. — 6:00 p.m. **EXHIBITS AND BOOK SALES**
- 10:05 a.m. — 10:55 a.m. **AMS INVITED ADDRESS** *Title to be announced.* **Steven M. Zelditch**
- 11:10 a.m. — 12:00 p.m. **AMS-MAA INVITED ADDRESS** *Algebraic statistics.* **Bernd Sturmfels**
- 1:00 p.m. — 1:50 p.m. **AMS COLLOQUIUM LECTURES: LECTURE III** *How polynomials vanish: Singularities, integrals, and ideals (Part III).* **Robert K. Lazarsfeld**
- 1:00 p.m. — 1:50 p.m. **MAA STUDENT LECTURE** *Victorian combinatorics.* **Robin J. Wilson**
- 1:00 p.m. — 5:50 p.m. **AMS-MAA-SIAM SPECIAL SESSION ON RESEARCH IN MATHEMATICS BY UNDERGRADUATES, I**
- AMS-MAA SPECIAL SESSIONS**  
*History of Mathematics, I*
- AMS-SIAM SPECIAL SESSIONS**  
1:00 p.m. — 5:50 p.m. *Recent Advances in Mathematical Ecology, II*  
1:00 p.m. — 5:50 p.m. *Reaction Diffusion Equations and Applications, II*
- AMS SPECIAL SESSIONS**  
1:00 p.m. — 5:50 p.m. *Algebraic Geometry Codes*  
1:00 p.m. — 6:00 p.m. *Current Events*  
1:00 p.m. — 5:50 p.m. *Mathematics and Mathematics Education in Fiber Arts*  
1:00 p.m. — 5:50 p.m. *Mathematicians' Work on Mathematics Education*  
1:00 p.m. — 5:50 p.m. *Spaces of Vector-Valued Functions, II*  
1:00 p.m. — 5:50 p.m. *Topics in Geometric Function Theory, I*
- 1:00 p.m. — 3:00 p.m. **MAA MINICOURSE #16: PART B** *Music and mathematics.*
- 1:00 p.m. — 3:00 p.m. **MAA MINICOURSE #2: PART B** *Teaching a Galois theory for undergraduates.*
- 1:00 p.m. — 3:00 p.m. **MAA MINICOURSE #8: PART B** *Mathematical finance.*
- MAA CONTRIBUTED PAPER SESSIONS**  
1:00 p.m. — 5:50 p.m. *Courses Below Calculus: A New Focus, II*  
1:00 p.m. — 5:50 p.m. *Mathematics and Sports, II*  
1:00 p.m. — 5:50 p.m. *Philosophy of Mathematics*  
1:00 p.m. — 5:50 p.m. *Using Handheld Technology To Facilitate Student-Centered Teaching/Learning Activities at the Developmental Algebra Level*
- 1:00 p.m. — 5:50 p.m. **MAA GENERAL CONTRIBUTED PAPER SESSION, VI**
- 1:00 p.m. — 3:00 p.m. **MAA INVITED PAPER SESSION ON MODELING PROBLEMS OF THE ENVIRONMENT**
- 1:00 p.m. — 3:00 p.m. **MAA POSTER SESSION ON PROJECTS SUPPORTED BY THE NSF DIVISION OF UNDERGRADUATE EDUCATION**
- 1:00 p.m. — 2:30 p.m. **AMS WORKSHOP** *T.A. development using case studies: A workshop for faculty (Part 2).*
- 1:00 p.m. — 2:30 p.m. **MAA PROJECT NEXT PANEL DISCUSSION** *Planning a sabbatical.*
- 1:00 p.m. — 2:20 p.m. **AMS-MAA JOINT COMMITTEE ON TEACHING ASSISTANTS AND PART-TIME INSTRUCTORS**

**FRIDAY, JANUARY 7 (cont'd)**

- PANEL DISCUSSION** *Just the facts: Profiles and inferences from data on permanently temporary faculty.*
- 1:00 p.m. — 2:20 p.m. **MAA COMMITTEE ON ARTICULATION AND PLACEMENT PANEL DISCUSSION** *The great divide: Graphing calculators in secondary and college education.*
- 1:00 p.m. — 5:55 p.m. **AMS SESSION FOR CONTRIBUTED PAPERS**
- 2:15 p.m. — 4:00 p.m. **NAM GRANVILLE-BROWN-HAYNES SESSION OF PRESENTATIONS BY RECENT DOCTORAL RECIPIENTS IN THE MATHEMATICAL SCIENCES**
- 2:15 p.m. — 4:10 p.m. **RMMC BOARD OF DIRECTORS**
- 2:30 p.m. — 4:00 p.m. **MAA PRESENTATIONS BY TEACHING AWARD RECIPIENTS**
- 2:30 p.m. — 4:00 p.m. **AMS COMMITTEE ON SCIENCE POLICY PANEL DISCUSSION**
- 2:30 p.m. — 3:50 p.m. **MAA PANEL DISCUSSION** *Classroom networks for developing mathematical understanding.*
- 2:45 p.m. — 4:45 p.m. **MAA SPECIAL PRESENTATION** *Information session on actuarial education.*
- 3:15 p.m. — 5:15 p.m. **MAA MINICOURSE #14: PART B** *Euler.*
- 3:15 p.m. — 5:15 p.m. **MAA MINICOURSE #3: PART B** *Creating interactive workbooks using MS Excel.*
- 3:15 p.m. — 5:15 p.m. **MAA MINICOURSE #9: PART B** *Infusing connections into core courses for future secondary teachers.*
- 4:00 p.m. — 6:30 p.m. **MAA COMMITTEE ON UNDERGRADUATE STUDENT ACTIVITIES AND CHAPTERS (CUSAC) POSTER SESSION** *Undergraduate student poster session.*
- 4:00 p.m. — 5:20 p.m. **SIGMAA FOR QUANTITATIVE LITERACY** *System-wide quantitative literacy initiatives.*
- 4:00 p.m. — 5:00 p.m. **WEB SIGMAA BUSINESS MEETING**
- 5:00 p.m. — 5:50 p.m. **AMS COMMITTEE ON SCIENCE POLICY-MAA SCIENCE POLICY COMMITTEE GOVERNMENT SPEAKER** *Speaker and title to be announced.*
- 5:00 p.m. — 6:00 p.m. **RECEPTION FOR MATHEMATICIANS IN BUSINESS, INDUSTRY, AND GOVERNMENT**
- 5:00 p.m. — 6:00 p.m. **MAA BUSINESS, INDUSTRY AND GOVERNMENT WELCOMING RECEPTION**
- 5:30 p.m. — 9:00 p.m. **NAM RECEPTION, BANQUET, AND COX-TALBOT ADDRESS** *Speaker and title to be announced.*
- 5:30 p.m. — 7:00 p.m. **NEW MEXICO STATE UNIVERSITY MATHEMATICS ASSOCIATION RECEPTION**
- 6:00 p.m. — 7:00 p.m. **MATHEMATICAL REVIEWS RECEPTION**
- 6:30 p.m. — 8:30 p.m. **BUDAPEST SEMESTERS IN MATHEMATICS REUNION**

**SATURDAY, JANUARY 8**

- 8:30 p.m. — 10:30 p.m. **PROJECT NEXT RECEPTION**
- 7:30 a.m. — 2:00 p.m. **JOINT MEETINGS REGISTRATION**
- 8:00 a.m. — 10:50 a.m. **AMS-MAA-SIAM SPECIAL SESSION ON RESEARCH IN MATHEMATICS BY UNDERGRADUATES, II**
- 8:00 a.m. — 10:50 a.m. **AMS-MAA SPECIAL SESSIONS** *History of Mathematics, II*
- 8:00 a.m. — 10:50 a.m. **AMS-SIAM SPECIAL SESSIONS** *Nonsmooth Analysis in Variational and Imaging Problems, II*

- 8:00 a.m. — 10:50 a.m. *Analysis and Applications in Nonlinear Partial Differential Equations, I*  
 8:00 a.m. — 10:50 a.m. *Integrable Systems and Special Functions, II*
- AMS SPECIAL SESSIONS**
- 8:00 a.m. — 10:50 a.m. *Inverse Spectral Geometry, II*  
 8:00 a.m. — 10:50 a.m. *Complex and Functional Analysis, I*  
 8:00 a.m. — 10:50 a.m. *Topics in Geometric Function Theory, II*  
 8:00 a.m. — 10:50 a.m. *Algorithmic Algebraic and Analytic Geometry, II*  
 8:00 a.m. — 10:50 a.m. *Modular Representation Theory of Finite and Algebraic Groups, II*
- MAA CONTRIBUTED PAPER SESSIONS**
- 8:00 a.m. — 10:55 a.m. *My Three Favorite Original Calculus Problems*  
 8:00 a.m. — 10:55 a.m. *Meeting the Challenge: Relationship Between Mathematics and Biology in the 21st Century*  
 8:00 a.m. — 10:55 a.m. *Mathematics Experiences in Business, Industry, and Government*
- 8:00 a.m. — 10:55 a.m. **MAA GENERAL CONTRIBUTED PAPER SESSION, VII**
- 8:00 a.m. — 10:55 a.m. **AMS SESSION FOR CONTRIBUTED PAPERS**
- 8:00 a.m. — 5:00 p.m. **ASL INVITED ADDRESSES AND CONTRIBUTED PAPERS**
- 8:30 a.m. — 5:00 p.m. **AWM WORKSHOP**
- 8:30 a.m. — 10:00 a.m. **AMS COMMITTEE ON EDUCATION PANEL DISCUSSION**
- 9:00 a.m. — 9:50 a.m. **MAA INVITED ADDRESS** *Square ice is very nice, but can you put a match to it?* **Georgia Benkart**
- 9:00 a.m. — 11:00 a.m. **MAA MINICOURSE #10: PART B** *Bridging the gap between mathematics and the physical sciences.*
- 9:00 a.m. — 11:00 a.m. **MAA MINICOURSE #15: PART B** *Conceptests and Peer Instruction: Active learning in the calculus classroom.*
- 9:00 a.m. — 11:00 a.m. **MAA MINICOURSE #4: PART B** *Java applets in teaching mathematics.*
- 9:00 a.m. — 10:55 a.m. **MAA INVITED PAPER SESSION ON WORLDS OF INTERACTIVE MATHEMATICS, PART I: THE LEGACY OF ELIAS DEEBA**
- 9:00 a.m. — 10:20 a.m. **MAA/RUME PANEL DISCUSSION** *The ICME-10 meeting.*
- 9:00 a.m. — 10:20 a.m. **MAA PANEL DISCUSSION** *Revisiting crossroads: The teaching and learning of mathematics in two-year colleges.*
- 9:00 a.m. — 9:50 a.m. **NAM-AWM PANEL DISCUSSION** *Achieving diversity in graduate programs, Part II: The challenge to retain underrepresented groups.*
- 9:00 a.m. — 12:00 p.m. **EXHIBITS AND BOOK SALES**
- 9:00 a.m. — 12:00 p.m. **EMPLOYMENT CENTER**
- 10:00 a.m. — 10:50 a.m. **NAM BUSINESS MEETING**
- 10:05 a.m. — 10:55 a.m. **MAA INVITED ADDRESS** *Symmetry in complex analysis.* **Steven G. Krantz**
- 11:10 a.m. — 11:40 a.m. **AMS BUSINESS MEETING**
- 11:45 a.m. — 12:15 p.m. **MAA BUSINESS MEETING**
- 1:00 p.m. — 1:50 p.m. **NAM CLAYTOR-WOODARD LECTURE** *Speaker and title to be announced.*
- 1:00 p.m. — 5:50 p.m. **AMS-MAA-SIAM SPECIAL SESSION ON RESEARCH IN MATHEMATICS BY UNDERGRADUATES, III**
- AMS-MAA SPECIAL SESSIONS**
- 1:00 p.m. — 5:50 p.m. *History of Mathematics, III*

**AMS-SIAM SPECIAL SESSIONS**

- 1:00 p.m. — 5:50 p.m. *Nonsmooth Analysis in Variational and Imaging Problems, III*  
 1:00 p.m. — 5:50 p.m. *Analysis and Applications in Nonlinear Partial Differential Equations, II*  
 1:00 p.m. — 5:50 p.m. *Integrable Systems and Special functions, III*

**AMS SPECIAL SESSIONS**

- 1:00 p.m. — 5:50 p.m. *Dynamics of Mapping Class Groups on Moduli Spaces, II*  
 1:00 p.m. — 5:50 p.m. *Inverse Spectral Geometry, III*  
 1:00 p.m. — 5:50 p.m. *Complex and Functional Analysis, II*  
 1:00 p.m. — 5:50 p.m. *Arithmetic Algebraic Geometry, II*  
 1:00 p.m. — 5:50 p.m. *Algorithmic Algebraic and Analytic Geometry, III*  
 1:00 p.m. — 5:50 p.m. *Modular Representation Theory of Finite and Algebraic Groups, III*

1:00 p.m. — 3:00 p.m. **MAA MINICOURSE #11: PART B** *Fair enough? Mathematics of equity.*

1:00 p.m. — 3:00 p.m. **MAA MINICOURSE #13: PART B** *Origami in undergraduate mathematics courses.*

1:00 p.m. — 3:00 p.m. **MAA MINICOURSE #5: PART B** *Hands-on discrete mathematics with technology.*

**MAA CONTRIBUTED PAPER SESSIONS**

- 1:00 p.m. — 5:30 p.m. *Mathematical Experiences for Students Outside the Classroom*  
 1:00 p.m. — 5:30 p.m. *Research on the Teaching and Learning of Undergraduate Mathematics*  
 1:00 p.m. — 5:30 p.m. *In-Service Training Programs For K–12 Mathematics Teachers*

**MAA GENERAL CONTRIBUTED PAPER SESSION, VIII**

1:00 p.m. — 3:00 p.m. **MAA INVITED PAPER SESSION ON SYMMETRY IN ANALYSIS**

1:00 p.m. — 2:20 p.m. **MAA SPECIAL PRESENTATION** *First-semester calculus: Meeting the needs of our students.*

1:00 p.m. — 3:00 p.m. **MAA PANEL DISCUSSION** *Using mathematically rich activities to develop K–12 curricula, part II.*

1:00 p.m. — 2:20 p.m. **MAA CUPM SUBCOMMITTEE ON CURRICULUM RENEWAL ACROSS THE FIRST TWO YEARS  
 PANEL DISCUSSION** *Faculty development for adjuncts and new faculty.*

**AMS SESSION FOR CONTRIBUTED PAPERS**

2:30 p.m. — 3:50 p.m. **MAA COMMITTEE ON MATHEMATICS AND THE ENVIRONMENT PANEL DISCUSSION**  
*Mathematical outreach and the environment.*

2:30 p.m. — 3:50 p.m. **MAA CUPM SUBCOMMITTEE ON CURRICULUM RENEWAL ACROSS THE FIRST TWO YEARS  
 (CRAFTY) PANEL DISCUSSION** *Open discussion on refocusing the courses before calculus.*

3:15 p.m. — 5:15 p.m. **MAA MINICOURSE #6: PART B** *Webwork, an internet-based system for generating and delivering homework problems to students.*

3:15 p.m. — 5:10 p.m. **MAA INVITED PAPER SESSION ON WORLDS OF INTERACTIVE MATHEMATICS, PART II: THE  
 LEGACY OF JAMES E. WHITE**

5:00 p.m. — 6:00 p.m. **NOTICES TENTH ANNIVERSARY RECEPTION**

6:30 p.m. — 7:30 p.m. **AMS BANQUET RECEPTION**

7:30 p.m. — 10:30 p.m. **AMS BANQUET**