

Program Timetable

This document provides a thumbnail sketch of all scientific and social events so you can easily see which events may overlap and better plan your time.

Monday, January 3

9:00 am–6:00 pm AMS SHORT COURSE ON 3D PRINTING: CHALLENGES AND APPLICATIONS

Tuesday, January 4

9:00 am–6:00 pm AMS SHORT COURSE ON 3D PRINTING: CHALLENGES AND APPLICATIONS

1:30–8:00 pm AMS COUNCIL

3:00–7:00 pm EMAIL CENTER

3:00–7:00 pm JOINT MEETINGS REGISTRATION

Wednesday, January 5

7:00 am–3:00 pm JOINT MEETINGS REGISTRATION (*advanced registration pick-up only 3:00–7:00 pm*)

7:00 am–8:30 pm EMAIL CENTER

8:00 am–3:00 pm AMS EMPLOYMENT CENTER

AMS SPECIAL SESSIONS

8:00–11:50 am *Geometric and Topological Combinatorics, I*

8:00–11:50 am *Quantum Categorical Structures in Mirror Symmetry, I*

8:00–11:50 am *Mathematics and Sports, I*

8:00–11:50 am *Mathematical Tools for Computer Vision Problems, I*

8:00–11:50 am *Stochastic Models in Studying Biological Systems, I*

8:00–11:50 am *Complex Adaptive Systems and Evolutionary Models in Biology and Psychology, I*

8:00–11:50 am *Advances in Coding Theory, I*

8:00–11:50 am *Mathematical Modeling of Biological Processes, I*

8:00–11:50 am *Geometry in the Mathematics of Data Science, I*

8:00–11:50 am *Recent Progress in Function Theory and Operator Theory, I*

8:00–11:50 am *Knot Theory in Dimension Four, I*

8:00–11:50 am *Recent Advances in Fluids and Related Models, I*

8:00–11:50 am *A Showcase of Number Theory at Undergraduate Institutions, I*

- 8:00–11:50 am *Numerical Methods and Deep Learning for PDEs, I*
- 8:00–11:50 am *Fusion Categories and Their Applications in Physics, I*
- 8:00–11:50 am *Advancing Data Privacy-Preserving Methodologies, I*
- 8:00–11:50 am *Latinxs in Combinatorics, I*
- 8:00–11:50 am *Programs that Support Student Research - SIGMAA on Undergraduate Research, I*
- 8:00–11:50 am *Scholarship of Teaching and Learning: Past, Present and Future, I*
- 8:00–11:50 am *Quantization for Probability Distributions and Dynamical Systems, I*
- 8:00–11:50 am *Abraham Robinson's Nonstandard Methods in Mathematics and Its Applications, I*
- 8:00–11:50 am *The Many Lives of Lattice Theory with an Emphasis on Distributive & Semi-distributive Lattices and Combinatorics, I*
- 8:00–11:50 am *Quaternions*
- 8:00–11:50 am *Structured Polynomial Systems In Mathematics and Its Applications, I*
- 8:00–11:50 am *Competing Foundations for Mathematics: How Do We Choose?, I*
- 8:00–11:50 am *Quadratic Forms, Theta Functions and Modularity, I*
- 8:00–11:50 am *The EDGE (Enhancing Diversity in Graduate Education) Program: Pure and Applied Talks by Women Math Warriors, I*
- 8:00–11:50 am *Real World Applications of Mathematics, I*
- 8:00–11:50 am *Topics and Generalizations in Geometric Group Theory, I*
- 8:00–11:50 am *Analysis of and Recent Advances in Difference, Differential and Dynamic Equations with Applications, I*
- 8:00–10:00 am **PROFESSIONAL ENHANCEMENT PROGRAM (PEP) #11: PART A Using Your Voice for Influence and Impact: Incorporating Mathematics into Public Discourse**
- 8:00–11:55 am **AMS CONTRIBUTED PAPER SESSION**
- 8:00 am–6:00 pm **PROJECT NEXT WORKSHOP**
- 8:00 am–12:00 pm **WIKIPEDIA EDIT-A-THON**
- 8:00–11:50 am **ASSOCIATION FOR WOMEN IN MATHEMATICS SPECIAL SESSION** *Women in Geometry, I*
- 8:00 am–12:00 pm **SOCIETY FOR INDUSTRIAL AND APPLIED MATHEMATICS SPECIAL SESSION** *Lessons Learned: The Future of Online and Hybrid Modalities in Education and the Workplace (A SIAM ED Session)*
- 9:00–9:50 am **ILAS INVITED ADDRESS** *Sign Patterns Meet Dynamical Systems. Pauline van den Driessche*
- 9:00–11:00 am **PROFESSIONAL ENHANCEMENT PROGRAM (PEP) #7: PART A Inclusive Active Learning in Undergraduate Mathematics**
- 9:00–10:00 am **ASSOCIATION FOR SYMBOLIC LOGIC TUTORIAL** *From noncommutative algebra to model theory - via Poisson algebras, I*
- 9:00–10:30 am **MAKING MATH MORE ACCESSIBLE: VENTURING INTO PUBLIC ARENAS**
- 9:00–11:00 am **PROFESSIONAL ENHANCEMENT PROGRAM (PEP) #1: PART A A Complex Transition to Advanced Undergraduate Mathematics**
- 9:00–10:30 am **TRANSFORMING POST-SECONDARY EDUCATION (TPSE) PANEL** *Exploring the Future of Mathematics Education - what should we be teaching?*
- 9:00–11:50 am **MATHEMATICAL SCIENCES RESEARCH INSTITUTE SPECIAL SESSION** *The MSRI African Diaspora Joint Mathematics Workshop (ADJOINT)*

9:30–10:30 am	AMS PANEL ON JOURNAL PUBLISHING <i>Ethics and Best Practices (sponsored by AMS Publishing)</i>
10:05–10:55 am	AMS INVITED ADDRESS <i>Title to be announced.</i> Daniel Reuben Krashen
10:30 am–12:00 pm	AMS COMMITTEE ON EQUITY, DIVERSITY, AND INCLUSION PANEL <i>Transforming Higher Education to Achieve Equity</i>
11:10 am–12:00 pm	AMS ERDŐS MEMORIAL LECTURE <i>Euclidean lines on hyperbolic manifolds.</i> Hee Oh
1:00–1:50 pm	AMS COLLOQUIUM LECTURES: LECTURE I <i>Title to be announced.</i> Karen Smith
	AMS SPECIAL SESSIONS
1:00–5:50 pm	<i>Geometric and Topological Combinatorics, II</i>
1:00–5:50 pm	<i>Quantum Categorical Structures in Mirror Symmetry, II</i>
1:00–5:50 pm	<i>Mathematics and Sports, II</i>
1:00–5:50 pm	<i>Mathematical Tools for Computer Vision Problems, II</i>
1:00–5:50 pm	<i>Stochastic Models in Studying Biological Systems, II</i>
1:00–5:50 pm	<i>Complex Adaptive Systems and Evolutionary Models in Biology and Psychology, II</i>
1:00–5:50 pm	<i>Advances in Coding Theory, II</i>
1:00–5:50 pm	<i>Mathematical Modeling of Biological Processes, II</i>
1:00–5:50 pm	<i>Geometry in the Mathematics of Data Science, II</i>
1:00–5:50 pm	<i>Recent Progress in Function Theory and Operator Theory, II</i>
1:00–5:50 pm	<i>Knot Theory in Dimension Four, II</i>
1:00–5:50 pm	<i>Recent Advances in Fluids and Related Models, II</i>
1:00–5:50 pm	<i>A Showcase of Number Theory at Undergraduate Institutions, II</i>
1:00–5:50 pm	<i>Numerical Methods and Deep Learning for PDEs, II</i>
1:00–5:50 pm	<i>Fusion Categories and Their Applications in Physics, II</i>
1:00–5:50 pm	<i>Advancing Data Privacy-Preserving Methodologies, II</i>
1:00–5:50 pm	<i>Latinxs in Combinatorics, II</i>
1:00–5:50 pm	<i>Programs that Support Student Research - SIGMAA on Undergraduate Research, II</i>
1:00–5:50 pm	<i>Scholarship of Teaching and Learning: Past, Present and Future, II</i>
1:00–5:50 pm	<i>Quantization for Probability Distributions and Dynamical Systems, II</i>
1:00–5:50 pm	<i>Abraham Robinson's Nonstandard Methods in Mathematics and Its Applications, II</i>
1:00–5:50 pm	<i>The Many Lives of Lattice Theory with an Emphasis on Distributive & Semi-distributive Lattices and Combinatorics, II</i>
1:00–5:50 pm	<i>Recent Advances in Mathematical Biology Ecology and Epidemiology</i>
1:00–5:50 pm	<i>Low-dimensional Manifolds, I</i>
1:00–5:50 pm	<i>Quaternions, II</i>
1:00–5:50 pm	<i>Structured Polynomial Systems In Mathematics and Its Applications, II</i>
1:00–5:50 pm	<i>Competing Foundations for Mathematics: How Do We Choose?, II</i>
1:00–5:50 pm	<i>Skein Theory and Quantum Algebra, I</i>
1:00–5:50 pm	<i>Heat Content Exit Time and Geometric Analysis, I</i>

- 1:00–5:50 pm *The EDGE (Enhancing Diversity in Graduate Education) Program: Pure and Applied Talks by Women Math Warriors, II*
- 1:00–5:50 pm *Topics and Generalizations in Geometric Group Theory, II*
- 1:00–5:50 pm *Analysis of and Recent Advances in Difference, Differential and Dynamic Equations with Applications, II*
- 1:00–3:00 pm **PROFESSIONAL ENHANCEMENT PROGRAM (PEP) #10: PART A Teaching a Tiling Theory Course**
- 1:00–3:00 pm **PROFESSIONAL ENHANCEMENT PROGRAM (PEP) #2: PART A Breaking the Cycle of Mechanisms of Inequality in Mathematics Teaching and Learning**
- 1:00–3:00 pm **PROFESSIONAL ENHANCEMENT PROGRAM (PEP) #3: PART A Developing Mathematics Programs for Workforce Preparation in Data Science and Other Applications**
- 1:00–5:55 pm **AMS CONTRIBUTED PAPER SESSION**
- 1:00–2:30 pm **PANEL ON ACTION RESPONSES FOR SOCIAL JUSTICE, EQUITY, DIVERSITY, AND INCLUSION FROM CBMS MEMBER SOCIETIES**
- 1:00–2:30 pm **PI MU EPSILON PANEL** *What Every Student Should Know about the JMM*
- 1:00–4:00 pm **COMAP WORKSHOP** *An Introduction to COMAP's Certificate in Modeling (CiM) Program for Educators*
- 1:00–5:50 pm **ASSOCIATION FOR WOMEN IN MATHEMATICS SPECIAL SESSION** *Mathematics in the Literary Arts and Pedagogy in Creative Settings*
- 1:00–5:50 pm **INTERNATIONAL LINEAR ALGEBRA SOCIETY SPECIAL SESSION** *The Inverse Eigenvalue Problem for a Graph, Zero Forcing, Throttling, and Related Topics, I*
- 1:00–6:00 pm **SOCIETY FOR INDUSTRIAL AND APPLIED MATHEMATICS SPECIAL SESSION** *Sensitivity Analysis and Uncertainty Quantification for Scientific and Biological Models*
- 2:00–3:00 pm **ASSOCIATION FOR SYMBOLIC LOGIC TUTORIAL** *From noncommutative algebra to model theory - via Poisson algebras, II*
- 2:00–3:30 pm **JMM WORKSHOP** *An Introduction to Team-Based Inquiry Learning*
- 2:15–3:05 pm **AMS INVITED ADDRESS** *Title to be announced. Gaston Mandata N'Guerekata*
- 2:15–3:40 pm **ASSOCIATION FOR WOMEN IN MATHEMATICS PANEL DISCUSSION** *Non-Traditional Careers in Mathematics*
- 2:15–5:05 pm **MATHEMATICAL SCIENCES RESEARCH INSTITUTE SPECIAL SESSION** *The MSRI African Diaspora Joint Mathematics Workshop (ADJOINT), II*
- 3:20–4:10 pm **AMS RETIRING PRESIDENTIAL ADDRESS** *Title to be announced. Jill Pipher*
- 3:45–4:15 pm **AWM BUSINESS MEETING**
- 4:00–6:00 pm **PROFESSIONAL ENHANCEMENT PROGRAM (PEP) #12: PART A Visualizing Projective Geometry Through Photographs and Perspective Drawings**
- 4:00–6:00 pm **PROFESSIONAL ENHANCEMENT PROGRAM (PEP) #5: PART A From LaTeX to RMarkdown: Communication and Collaboration Tools for the Mathematical Sciences**
- 4:00–6:00 pm **PROFESSIONAL ENHANCEMENT PROGRAM (PEP) #8: PART A Mathematical Modelling Of Real-World Infectious Disease Epidemics: An R Based Hands-On Professional Enhancement Program**
- 4:25–5:25 pm **JOINT PRIZE SESSION**
- 4:30–6:00 pm **SPECTRA WORKSHOP** *Identifying Best Practices Fostering Inclusion and Retention of LGBTQ Mathematicians*

5:00–5:50 pm	SIGMAA GUEST SPEAKER <i>Beyond the Strength of a Woman's Physical Power: Mathematics, Machines, and the Mind of Ada Lovelace.</i> Adrian Rice
6:15–8:30 pm	EXHIBITS AND BOOK SALES
6:15–8:30 pm	GRAND OPENING RECEPTION

Thursday, January 6

7:30 am–8:00 pm	EMAIL CENTER
7:30 am–4:00 pm	JOINT MEETINGS REGISTRATION
8:00 am–5:30 pm	AMS EMPLOYMENT CENTER
	AMS SPECIAL SESSIONS
8:00–11:50 am	<i>Quantum Categorical Structures in Mirror Symmetry, III</i>
8:00–11:50 am	<i>Mathematical Tools for Computer Vision Problems, III</i>
8:00–11:50 am	<i>Dynamics of Infectious Diseases: Ecological Models Across Multiple Scales (a Mathematics Research Communities Session), I</i>
8:00–11:50 am	<i>Combinatorial Applications of Computational Geometry and Algebraic Topology (a Mathematics Research Communities Session), I</i>
8:00–11:50 am	<i>Finding Needles in Haystacks: Approaches to Inverse Problems Using Combinatorics and Linear Algebra (a Mathematics Research Communities Session), I</i>
8:00–11:50 am	<i>Analysis in Metric Spaces (a Mathematics Research Communities Session), I</i>
8:00–11:50 am	<i>New Problems in Several Complex Variables (a Mathematics Research Communities Session), I</i>
8:00–11:50 am	<i>Knot Theory in Dimension Four, III</i>
8:00–11:50 am	<i>Weave Reality into Your Differential Equations Course with Modeling, I</i>
8:00–11:50 am	<i>Commutative Algebra, I</i>
8:00–11:50 am	<i>Applications of Mathematical Models and Dynamical Systems in Biology, I</i>
8:00–11:50 am	<i>Partition Theory and Related Topics, I</i>
8:00–11:50 am	<i>Latinxs in Combinatorics, III</i>
8:00–11:50 am	<i>Recent Advances in Packing, I</i>
8:00–11:50 am	<i>Distance Problems in Continuous Discrete and Finite Field Settings</i>
8:00–11:50 am	<i>Hopf Algebras and Tensor Categories, I</i>
8:00–11:50 am	<i>Algebraic and Bijective Methods in Permutation Enumeration, I</i>
8:00–11:50 am	<i>The Many Lives of Lattice Theory with an Emphasis on Distributive & Semi-distributive Lattices and Combinatorics, III</i>
8:00–11:50 am	<i>The Mathematics of RNA and DNA, I</i>
8:00–11:50 am	<i>Competing Foundations for Mathematics: How Do We Choose?, III</i>
8:00–11:50 am	<i>The Inverse Eigenvalue Problem for a Graph, Zero Forcing, Throttling and Related Topics, II</i>
8:00–11:50 am	<i>Analysis and Differential Equations at Undergraduate Institutions, I</i>
8:00–11:50 am	<i>Asymptotic Behavior of Evolution Equations, I</i>
8:00–11:50 am	<i>Skein Theory and Quantum Algebra, II</i>
8:00–11:50 am	<i>Quantitative Literacy and Society, I</i>

- 8:00–11:50 am *Quadratic Forms, Theta Functions and Modularity, II*
- 8:00–11:50 am *History of Mathematics, I*
- 8:00–11:50 am *The EDGE (Enhancing Diversity in Graduate Education) Program: Pure and Applied Talks by Women Math Warriors, III*
- 8:00–11:50 am *Transient Probabilities of Random Processes, Duality Theory and Gambler’s Ruin Probabilities, I*
- 8:00–11:50 am *Reaction Diffusion Models with Applications in Spatial Ecology, I*
- 8:00–11:50 am *Real World Applications of Mathematics, II*
- 8:00–10:00 am **PROFESSIONAL ENHANCEMENT PROGRAM (PEP) #9: PART A Recruiting and Mentoring Majors in the Mathematical Sciences**
- 8:00–11:30 am **PI MU EPSILON COUNCIL MEETING**
- 8:00 am–6:00 pm **PROJECT NEXT WORKSHOP**
- 8:00–9:30 am *AWM PANEL AWM 101 for Men, What You Need to Know about Women in Math*
- 8:00–11:55 am **AMS CONTRIBUTED PAPER SESSION**
- 8:00 am–1:00 pm **JMM WORKSHOP: BLACK MATHEMATICIANS EDIT-A-THON**
- 8:00–10:00 am *JMM PANEL Effective DEI Efforts in Math Departments*
- 8:00–9:30 am **SIAM PANEL ON A BIG WORLD VIEW Business-Industry-Government Careers for Mathematicians**
- 8:00–11:50 am **ASSOCIATION FOR SYMBOLIC LOGIC SPECIAL SESSION Model-theoretic Classification Program, I**
- 8:00–11:50 am **ASSOCIATION FOR WOMEN IN MATHEMATICS SPECIAL SESSION Women in Mathematical Biology, I**
- 8:00–11:50 am **ASSOCIATION FOR WOMEN IN MATHEMATICS SPECIAL SESSION Celebrating the Mathematical Contributions of the AWM, I**
- 8:00–11:50 am **ASSOCIATION FOR WOMEN IN MATHEMATICS SPECIAL SESSION Women in Geometry, II**
- 8:00–11:50 am **CONSORTIUM FOR MATHEMATICS AND ITS APPLICATIONS SPECIAL SESSION COMAP’s Mathematical Modeling Contests: Sharing Experiences and Benefits, I**
- 8:00–11:50 am **INTERNATIONAL LINEAR ALGEBRA SOCIETY SPECIAL SESSION Matrix Analysis and Applications, I**
- 8:00–11:00 am **SOCIETY FOR INDUSTRIAL AND APPLIED MATHEMATICS SPECIAL SESSION Advances in Mathematical Biology**
- 8:30–10:30 am **CAREER FAIR**
- 9:00 am–5:00 pm **EXHIBITS AND BOOK SALES**
- 9:00–9:50 am **AMS MARYAM MIRZAKHANI LECTURE** *Mixing surfaces, algebra, and geometry.* Dan Margalit
- 9:00–11:00 am **PROFESSIONAL ENHANCEMENT PROGRAM (PEP) #6: PART A Glimpses of Mathematics from Robotics: Simple Kinematic Problems for the Planar Robot Arms**
- 9:00–10:30 am **JMM PANEL DISCUSSION ON NEW HORIZONS: EXPLORING THE POSSIBILITIES AND BENEFITS OF STUDY ABROAD PROGRAMS POST-PANDEMIC**
- 9:00 am–12:00 pm **JMM WORKSHOP** *How to Create Data Science Summer Training for Faculty and Students*
- 9:30–11:00 am **AMS PANEL** *Advocacy for Mathematics & Science Policy*

10:00–11:30 am	JMM PANEL DISCUSSION: WHAT DID YOU DO? WHAT WILL YOU KEEP? REFLECTIONS ON MENTORING UNDERGRADUATE RESEARCHERS DURING AND POST-PANDEMIC
10:00–10:55 am	AWM-AMS NOETHER LECTURE <i>The Kakeya Needle Problem for Rectifiable Sets.</i> Marianna Csörnyei
10:30–11:00 am	THE MATH ALLIANCE: 15 YEARS OF BUILDING A NEW AMERICAN COMMUNITY IN THE MATHEMATICAL AND STATISTICAL SCIENCES
11:00 am–12:00 pm	AMS PANEL ON OPEN ACCESS AND MATHEMATICS <i>Open publishing models, licensing and copyright, and equity (sponsored by AMS Publishing)</i>
11:00 am–12:00 pm	JMM PANEL <i>International Engagement in Mathematical Sciences Research During the COVID-19 Pandemic</i>
11:05–11:55 am	SPECTRA LAVENDER LECTURE
11:10 am–12:00 pm	SIAM INVITED ADDRESS <i>Analysis and Applications of Nonlocal Models.</i> Qiang Du
11:10 am–12:00 pm	PROJECT NEXT LECTURE ON TEACHING AND LEARNING <i>Addressing Anti-Black Racism in Our Departments.</i> Edray Herber Goins
12:00–1:00 pm	SOCIETY FOR ADVANCEMENT OF CHICANOS/HISPANICS AND NATIVE AMERICANS IN SCIENCE RECEPTION
1:00–1:50 pm	AMS COLLOQUIUM LECTURES: LECTURE II <i>Title to be announced.</i> Karen Smith
	AMS SPECIAL SESSIONS
1:00–4:50 pm	<i>Mathematics and the Arts, I</i>
1:00–4:50 pm	<i>Mathematical Knowledge for Teaching High School and College Calculus Courses, I (Sponsored by SIGMAA on Mathematical Knowledge for Teaching)</i>
1:00–4:50 pm	<i>Geometric Group Theory-AMS Mirzakhani</i>
1:00–4:50 pm	<i>Dynamics of Infectious Diseases: Ecological Models Across Multiple Scales (a Mathematics Research Communities Session), II</i>
1:00–4:50 pm	<i>Combinatorial Applications of Computational Geometry and Algebraic Topology (a Mathematics Research Communities Session), II</i>
1:00–4:50 pm	<i>Finding Needles in Haystacks: Approaches to Inverse Problems Using Combinatorics and Linear Algebra (a Mathematics Research Communities Session), II</i>
1:00–4:50 pm	<i>Analysis in Metric Spaces (a Mathematics Research Communities Session), II</i>
1:00–4:50 pm	<i>New Problems in Several Complex Variables (a Mathematics Research Communities Session), II</i>
1:00–4:50 pm	<i>Weave Reality into Your Differential Equations Course with Modeling, II</i>
1:00–4:50 pm	<i>Commutative Algebra, II</i>
1:00–4:50 pm	<i>Applications of Mathematical Models and Dynamical Systems in Biology, II</i>
1:00–4:50 pm	<i>Partition Theory and Related Topics, II</i>
1:00–4:50 pm	<i>Latinxs in Combinatorics, IV</i>
1:00–4:50 pm	<i>Recent Advances in Packing, II</i>
1:00–4:50 pm	<i>Scholarship of Teaching and Learning: Past, Present and Future, III</i>
1:00–4:50 pm	<i>Distance Problems in Continuous Discrete and Finite Field Settings, II</i>
1:00–4:50 pm	<i>Hopf Algebras and Tensor Categories, II</i>
1:00–4:50 pm	<i>Algebraic and Bijective Methods in Permutation Enumeration, II</i>

- 1:00–4:50 pm *Low-dimensional Manifolds, II*
- 1:00–4:50 pm *The Mathematics of RNA and DNA, II*
- 1:00–4:50 pm *Analysis and Differential Equations at Undergraduate Institutions, II*
- 1:00–4:50 pm *Several Complex Variables Geometric PDE and CR Geometry*
- 1:00–4:50 pm *Asymptotic Behavior of Evolution Equations, II*
- 1:00–4:50 pm *Skein Theory and Quantum Algebra, III*
- 1:00–4:50 pm *Recent Developments in Nonlocal Modeling and Analysis, I*
- 1:00–4:50 pm *Quantitative Literacy and Society, II*
- 1:00–4:50 pm *History of Mathematics, II*
- 1:00–4:50 pm *Heat Content Exit Time and Geometric Analysis, II*
- 1:00–4:50 pm *Transient Probabilities of Random Processes, Duality Theory and Gambler's Ruin Probabilities, II*
- 1:00–4:50 pm *Reaction Diffusion Models with Applications in Spatial Ecology, II*
- 1:00–4:50 pm *Rethinking Number Theory, I*
- 1:00–3:00 pm **PROFESSIONAL ENHANCEMENT PROGRAM (PEP) #10: PART B** *Teaching a Tiling Theory Course*
- 1:00–3:00 pm **PROFESSIONAL ENHANCEMENT PROGRAM (PEP) #2: PART B** *Breaking the Cycle of Mechanisms of Inequality in Mathematics Teaching and Learning*
- 1:00–3:00 pm **PROFESSIONAL ENHANCEMENT PROGRAM (PEP) #6: PART B** *Glimpses of Mathematics from Robotics: Simple Kinematic Problems for the Planar Robot Arms*
- 1:00–2:30 pm **AMS COMMITTEE ON EDUCATION PANEL** *Forming Institutional Collaborations to Broaden Student Access*
- 1:00–4:55 pm **AMS CONTRIBUTED PAPER SESSION**
- 1:00–2:30 pm **JOINT COMMITTEE ON WOMEN PANEL DISCUSSION**
- 1:00–3:00 pm **SIMIODE WORKSHOP ON DIFFERENTIAL EQUATIONS: A TOOLBOX FOR MODELING THE WORLD IN YOUR CLASSROOM WITH YOUR STUDENTS, PART 1**
- 1:00–3:00 pm **SUMMER PROGRAM FOR WOMEN IN MATHEMATICS (SPWM) REUNION**
- 1:00–3:00 pm **AMS WORKSHOP** *Teaching and Managing Large Undergraduate Mathematics Courses in a Changing World, Part I*
- 1:00–4:50 pm **ASSOCIATION FOR SYMBOLIC LOGIC SPECIAL SESSION** *Model-theoretic Classification Program, II*
- 1:00–4:50 pm **ASSOCIATION FOR WOMEN IN MATHEMATICS SPECIAL SESSION** *Women in Mathematical Biology, II*
- 1:00–4:50 pm **ASSOCIATION FOR WOMEN IN MATHEMATICS SPECIAL SESSION** *Celebrating the Mathematical Contributions of the AWM, II*
- 1:00–4:50 pm **CONSORTIUM FOR MATHEMATICS AND ITS APPLICATIONS SPECIAL SESSION** *COMAP's Mathematical Modeling Contests: Sharing Experiences and Benefits, II*
- 1:00–4:50 pm **INTERNATIONAL LINEAR ALGEBRA SOCIETY SPECIAL SESSION** *Matrix Analysis and Applications, II*
- 1:00–4:50 pm **MATHEMATICAL SCIENCES RESEARCH INSTITUTE SPECIAL SESSION** *Frame Theory and Applications, I*

1:00–5:00 pm	SOCIETY FOR INDUSTRIAL AND APPLIED MATHEMATICS SPECIAL SESSION <i>Quantum Algorithms</i>
2:00–4:00 pm	POSTER SESSION: NSF EDUCATION PROGRAMS IN THE MATHEMATICAL SCIENCES
2:40–3:30 pm	NAM CLAYTOR-WOODARD LECTURE <i>Spatial data analysis for public health data.</i> Monica Jackson
3:30–4:30 pm	PI MU EPSILON PANEL <i>What Every Student Should Know about the JMM</i>
3:50–4:40 pm	ASA COMMITTEE OF PRESIDENTS OF STATISTICAL SOCIETIES LECTURE <i>Learning from COVID-19 Data on Transmission, Health Outcomes, Interventions and Vaccination.</i> Xihong Lin
5:00–6:00 pm	AMS JOSIAH WILLARD GIBBS LECTURE <i>Emergent behavior in collective dynamics.</i> Eitan Tadmor
6:00–7:00 pm	LIGHTNING TALKS IN ENVIRONMENTAL MATHEMATICS
6:00–8:00 pm	ASSOCIATION OF CHRISTIANS IN THE MATHEMATICAL SCIENCES RECEPTION AND LECTURE <i>The lecture will be given by Karl-Dieter Crisman of Gordon College.</i>
6:00–7:00 pm	RELATIVELY PRIME LIVE: AROUND THE CAMPFIRE
6:00–8:30 pm	MATHEMATICAL INSTITUTES OPEN HOUSE
6:00–7:00 pm	JUSTICE, EQUITY, DIVERSITY, INCLUSION RECEPTION
6:30–8:00 pm	{MATHILY, MATHILY-ER, MATHILY-EST} YEARLY GATHER: COLLABORATIVE PUZZLE TIME!
7:00–8:00 pm	MATHEMATICAL POETRY READING
7:00–7:30 pm	SIGMAA ENVIRONMENTAL MATHEMATICS BUSINESS MEETING
7:00–8:00 pm	NEBRASKA CONFERENCE FOR UNDERGRADUATE WOMEN IN MATHEMATICS REUNION
7:00–7:20 pm	ACMS GUEST SPEAKER <i>Title to be announced.</i> Karl-Dieter Crisman
7:30–8:20 pm	SIGMAA GUEST SPEAKER <i>Climate Justice Integrated Learning in STEM.</i> Heather Price
8:15–9:45 pm	KNITTING CIRCLE <i>Bring a project (knitting/crochet/tatting/beading/etc.) and chat with other mathematical crafters!</i>

Friday, January 7

7:30 am–8:30 pm	EMAIL CENTER
7:30 am–4:00 pm	JOINT MEETINGS REGISTRATION
8:00 am–5:30 pm	AMS EMPLOYMENT CENTER
	AMS SPECIAL SESSIONS
8:00–11:50 am	<i>Research in Mathematics by Undergraduates and Students in Post-baccalaureate Programs, I (AMS-SIAM)</i>
8:00–11:50 am	<i>Mathematics and the Arts, II</i>
8:00–11:50 am	<i>Knots, Links, 3-manifolds,... and 4-manifolds</i>
8:00–11:50 am	<i>Math Circle Outreach Activities that Engage Diverse Audiences, I</i>
8:00–11:50 am	<i>Geometric Group Theory-AMS Mirzakhani, II</i>
8:00–11:50 am	<i>The Mathematics of Decisions, Elections and Games, I</i>
8:00–11:50 am	<i>Commutative Algebra, III</i>

8:00–11:50 am	<i>Noncommutative Algebra and Noncommutative Invariant Theory</i>
8:00–11:50 am	<i>Presenting Research Mathematics Through Visual Storytelling: Slides Without Words and Equations, I</i>
8:00–11:50 am	<i>Nonlinear Evolution Equations Stability and Long Time Behavior of Solutions, I</i>
8:00–11:50 am	<i>Partition Theory and Related Topics, III</i>
8:00–11:50 am	<i>Creative Teaching Methods That Can Lead to Student Learning, I</i>
8:00–11:50 am	<i>Scholarship of Teaching and Learning: Past, Present and Future, IV</i>
8:00–11:50 am	<i>Hopf Algebras and Tensor Categories, III</i>
8:00–11:50 am	<i>If You Build It They Will Come: Presentations by Scholars in the National Alliance for Doctoral Studies in the Mathematical Sciences, I</i>
8:00–11:50 am	<i>Algebraic and Bijective Methods in Permutation Enumeration, III</i>
8:00–11:50 am	<i>Number Theory at Non-PhD Granting Institutions, I</i>
8:00–11:50 am	<i>Statistics and Machine Learning Using Topology and Geometry, I</i>
8:00–11:50 am	<i>Several Complex Variables Geometric PDE and CR Geometry, II</i>
8:00–11:50 am	<i>Mathematical Models for Biomolecular and Cellular Interactions, I</i>
8:00–11:50 am	<i>Recent Developments in Nonlocal Modeling and Analysis, II</i>
8:00–11:50 am	<i>Quantitative Literacy and Society, III</i>
8:00–11:50 am	<i>Quadratic Forms, Theta Functions and Modularity, III</i>
8:00–11:50 am	<i>Inquiry-based Teaching and Learning, I</i>
8:00–11:50 am	<i>History of Mathematics, III</i>
8:00–11:50 am	<i>Transient Probabilities of Random Processes, Duality Theory and Gambler’s Ruin Probabilities, III</i>
8:00–11:50 am	<i>Undergraduate Research Activities in Mathematical and Computational Biology, I</i>
8:00–10:00 am	PROFESSIONAL ENHANCEMENT PROGRAM (PEP) #11: PART B <i>Using Your Voice for Influence and Impact: Incorporating Mathematics into Public Discourse</i>
8:00 am–6:00 pm	PROJECT NEXT WORKSHOP
8:00–11:55 am	AMS CONTRIBUTED PAPER SESSION
8:00–11:50 am	AMERICAN STATISTICAL ASSOCIATION SPECIAL SESSION <i>Statistical issues of COVID-19 Data</i>
8:00–11:50 am	ASSOCIATION FOR WOMEN IN MATHEMATICS SPECIAL SESSION <i>Women in Mathematical Biology, III</i>
8:00–11:50 am	ASSOCIATION FOR WOMEN IN MATHEMATICS SPECIAL SESSION <i>Women and Gender Minorities in Symplectic and Contact Geometry and Topology, I</i>
8:00–11:50 am	INTERNATIONAL LINEAR ALGEBRA SOCIETY SPECIAL SESSION <i>The Interplay of Matrix Analysis and Operator Theory, I</i>
8:00–11:50 am	MATHEMATICAL SCIENCES RESEARCH INSTITUTE SPECIAL SESSION <i>Frame Theory and Applications, II</i>
8:00 am–12:00 pm	SOCIETY FOR INDUSTRIAL AND APPLIED MATHEMATICS SPECIAL SESSION <i>Graduate Research in Industry and in National Laboratory Internships</i>
8:30–10:30 am	AMS GRAD SCHOOL FAIR
9:00 am–5:00 pm	EXHIBITS AND BOOK SALES

- 9:00–9:50 am **MAA-SIAM-AMS HRABOWSKI-GATES-TAPIA-MCBAY LECTURE** *Title to be announced.* Dave Kung
- 9:00–9:50 am **ASL INVITED ADDRESS** *Semi-retractions and the Ramsey Property.* Lynn Scow
- 9:00–11:00 am **PROFESSIONAL ENHANCEMENT PROGRAM (PEP) #7: PART B** *Inclusive Active Learning in Undergraduate Mathematics*
- 9:00–11:00 am **PROFESSIONAL ENHANCEMENT PROGRAM (PEP) #1: PART B A** *Complex Transition to Advanced Undergraduate Mathematics*
- 9:00 am–12:00 pm **MATHEMATICS OF DOING, UNDERSTANDING, LEARNING, AND EDUCATING FOR SECONDARY SCHOOLS (MODULE(S2)) WORKSHOP** *Strengthening mathematics content instruction in mathematics courses that secondary mathematics education majors take*
- 9:00–11:00 am **INFORMATION SESSION ON NSF PROGRAMS IN THE DIRECTORATE FOR EDUCATION AND HUMAN RESOURCES**
- 9:00 am–12:00 pm **COMAP PROFESSIONAL DEVELOPMENT WORKSHOP AND COLLABORATION DISCUSSION** *Leveraging Math Modeling Contests to Bring More Interdisciplinarity to You, Your Students, and Your Colleagues*
- 9:00–11:50 am **MATHEMATICAL SCIENCES RESEARCH INSTITUTE SPECIAL SESSION** *The MSRI Undergraduate Program*
- 9:50–10:30 am **MAA-SIAM-AMS HRABOWSKI-GATES-TAPIA-MCBAY PANEL**
- 10:00–10:50 am **ASL INVITED ADDRESS** *The Promise of Formal Mathematics.* Jeremy Avigad
- 10:00 am–12:00 pm **AMS WORKSHOP** *Teaching and Managing Large Undergraduate Mathematics Courses in a Changing World, Part II*
- 10:30 am–12:00 pm **AMS-PME UNDERGRADUATE STUDENT POSTER SESSION**
- 11:10 am–12:00 pm **AAAS-AMS INVITED ADDRESS** *Title to be announced.* Kavita Ramanan
- 1:00–1:50 pm **AMS COLLOQUIUM LECTURES: LECTURE III** *Title to be announced.* Karen Smith
- 1:00–1:50 pm **ASL INVITED ADDRESS** *Decidability and definability in unramified henselian valued fields.* Franziska Jahnke
- AMS SPECIAL SESSIONS**
- 1:00–5:50 pm *Research in Mathematics by Undergraduates and Students in Post-baccalaureate Programs, II (AMS-SIAM)*
- 1:00–5:50 pm *Mathematical and Conceptual Foundations of Physics*
- 1:00–5:50 pm *Advances in Operator Algebras, I*
- 1:00–5:50 pm *Evolution Equations and Their Asymptotic Behavior*
- 1:00–5:50 pm *Knots, Links, 3-manifolds,... and 4-manifolds, II*
- 1:00–5:50 pm *Topics in Extremal Combinatorics*
- 1:00–5:50 pm *Explicit Methods for Modularity, I (Sponsored by Simons Collaboration on Arithmetic Geometry, Number Theory, and Computation)*
- 1:00–5:50 pm *Mathematical Knowledge for Teaching High School and College Calculus Courses, II (Sponsored by SIGMAA on Mathematical Knowledge for Teaching)*
- 1:00–5:50 pm *Math Circle Outreach Activities that Engage Diverse Audiences, II*
- 1:00–5:50 pm *Geometric Group Theory-AMS Mirzakhani, III*
- 1:00–5:50 pm *The Mathematics of Decisions, Elections and Games, II*
- 1:00–5:50 pm *Noncommutative Algebra and Noncommutative Invariant Theory, II*

- 1:00–5:50 pm *Polymath Jr: Mentoring and Learning, I*
- 1:00–5:50 pm *Mathematical Models of Diseases: Analysis and Computation, I*
- 1:00–5:50 pm *Creative Teaching Methods That Can Lead to Student Learning, II*
- 1:00–5:50 pm *A Match Made in the Stacks: Mathematician and Librarian Collaborations*
- 1:00–5:50 pm *If You Build It They Will Come: Presentations by Scholars in the National Alliance for Doctoral Studies in the Mathematical Sciences, II*
- 1:00–5:50 pm *Number Theory at Non-PhD Granting Institutions, II*
- 1:00–5:50 pm *Statistics and Machine Learning Using Topology and Geometry, II*
- 1:00–5:50 pm *Collaborative Undergraduate Research: Experiences with CURM*
- 1:00–5:50 pm *Several Complex Variables Geometric PDE and CR Geometry, III*
- 1:00–5:50 pm *Mathematical Models for Biomolecular and Cellular Interactions, II*
- 1:00–5:50 pm *Recent Developments in Nonlocal Modeling and Analysis, III*
- 1:00–5:50 pm *Analysis and Applications of Fractional Stochastic and Dynamic Systems*
- 1:00–5:50 pm *Mathematics of Algorithms in Industry, I*
- 1:00–5:50 pm *The Teaching and Learning of Undergraduate Ordinary Differential Equations*
- 1:00–5:50 pm *History of Mathematics, IV*
- 1:00–5:50 pm *Applied Combinatorial Methods*
- 1:00–5:50 pm *Rethinking Number Theory, II*
- 1:00–3:00 pm **PROFESSIONAL ENHANCEMENT PROGRAM (PEP) #12: PART B** *Visualizing Projective Geometry Through Photographs and Perspective Drawings*
- 1:00–3:00 pm **PROFESSIONAL ENHANCEMENT PROGRAM (PEP) #4: PART A** *Evidence-based Practices for More Effective Mentoring Relationships*
- 1:00–5:00 pm **NAM HAYNES-GRANVILLE-BROWNE SESSION OF PRESENTATIONS BY RECENT DOCTORAL RECIPIENTS**
- 1:00–5:55 pm **AMS CONTRIBUTED PAPER SESSION**
- 1:00–4:00 pm **JMM WORKSHOP** *Mathematicians Navigating Parenthood*
- 1:00–2:20 pm **SPECTRA PANEL** *Navigating the Job Market as an LGBTQ+ Mathematician*
- 1:00–2:30 pm **TRANSFORMING POST-SECONDARY EDUCATION (TPSE) PANEL** *Developing Innovative Upper Division Pathways in Mathematics: Strategies for Enrollment and Inclusion*
- 1:00–5:50 pm **AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE SPECIAL SESSION** *Stochastic Processes on Networks, I*
- 1:00–5:50 pm **ASSOCIATION FOR WOMEN IN MATHEMATICS SPECIAL SESSION** *Women of Color in Combinatorics, I*
- 1:00–5:50 pm **ASSOCIATION FOR WOMEN IN MATHEMATICS SPECIAL SESSION** *Women and Gender Minorities in Symplectic and Contact Geometry and Topology, II*
- 1:00–5:50 pm **ASSOCIATION FOR WOMEN IN MATHEMATICS SPECIAL SESSION** *Women in Topology*
- 1:00–5:50 pm **INTERNATIONAL LINEAR ALGEBRA SOCIETY SPECIAL SESSION** *The Interplay of Matrix Analysis and Operator Theory, II*
- 1:00–5:50 pm **MATHEMATICAL SCIENCES RESEARCH INSTITUTE SPECIAL SESSION** *Metric Geometry and Topology, I*

1:00–6:00 pm	SOCIETY FOR INDUSTRIAL AND APPLIED MATHEMATICS SPECIAL SESSION <i>Mathematics of Complex Systems</i>
2:00–2:50 pm	ASL INVITED ADDRESS <i>Diamonds compactness and ultrafilters in set theory.</i> Omer Ben-Neria
2:00–6:00 pm	CURRENT EVENTS BULLETIN
2:00–3:30 pm	JULIA ROBINSON MATHEMATICS FESTIVAL WORKSHOP
3:00–5:50 pm	ASL CONTRIBUTED PAPER SESSION
3:00–4:00 pm	SPECTRA BUSINESS MEETING
3:30–5:00 pm	AMS-PME UNDERGRADUATE STUDENT POSTER SESSION
4:00–6:00 pm	PROFESSIONAL ENHANCEMENT PROGRAM (PEP) #5: PART B <i>From LaTeX to RMarkdown: Communication and Collaboration Tools for the Mathematical Sciences</i>
4:00–6:00 pm	PROFESSIONAL ENHANCEMENT PROGRAM (PEP) #8: PART B <i>Mathematical Modelling Of Real-World Infectious Disease Epidemics: An R Based Hands-On Professional Enhancement Program</i>
4:00–6:30 pm	AWM WORKSHOP: POSTER PRESENTATIONS BY WOMEN GRADUATE STUDENTS AND RECEPTION
5:00–6:30 pm	ASSOCIATION FOR WOMEN IN MATHEMATICS RECEPTION AND AWARDS PRESENTATION
5:00–6:30 pm	MSRI RECEPTION FOR CURRENT AND FUTURE DONORS
5:30–7:30 pm	UNIVERSITY OF MARYLAND RECEPTION FOR ALUMNI AND FRIENDS
5:30–6:30 pm	SIGMAA GUEST SPEAKER <i>Trust but Verify: What Can We Know About the Reliability of a Computer-Generated Result?</i> Nicolas Fillion
6:00–7:00 pm	MATHEMATICALLY BENT THEATER <i>Performed by Colin Adams and the Mobiusbandaid Players.</i>
6:00–8:40 pm	NAM RECEPTION AND BANQUET
7:30–8:30 pm	PANEL DISCUSSION - TESTIMONIOS: STORIES OF LATINX AND HISPANIC MATHEMATICIANS
7:45–8:35 pm	NAM COX-TALBOT ADDRESS <i>Interest Convergence: An analytical viewpoint for examining how power dictates policies and reforms in mathematics.</i> Robert Q. Berry, III
8:00–10:00 pm	PROJECT NEXT RECEPTION <i>All Project NExT Fellows, consultants, and other friends of Project NExT are invited.</i>

Saturday, January 8

7:30 am–1:00 pm	EMAIL CENTER
7:30 am–1:00 pm	JOINT MEETINGS REGISTRATION
	AMS SPECIAL SESSIONS
8:00–11:50 am	<i>Research in Mathematics by Undergraduates and Students in Post-baccalaureate Programs, III (AMS-SIAM)</i>
8:00–11:50 am	<i>Mathematics and the Arts, III</i>
8:00–11:50 am	<i>Advances in Operator Algebras, II</i>
8:00–11:50 am	<i>Intersections of Geometric Analysis and Mathematical Physics, I</i>
8:00–11:50 am	<i>Modular Forms and Combinatorics, I</i>

8:00–11:50 am	<i>Mathematics Through the Informational Lens, I</i>
8:00–11:50 am	<i>Scalar Curvature and Convergence, I</i>
8:00–11:50 am	<i>Combinatorial Approaches to Topological Structures and Applications, I</i>
8:00–11:50 am	<i>Knots, Links, 3-manifolds,... and 4-manifolds, III</i>
8:00–11:50 am	<i>Geometric Group Theory-AMS Mirzakhani, IV</i>
8:00–11:50 am	<i>Innovative and Elective Ways to Teach Linear Algebra, I</i>
8:00–11:50 am	<i>Random Matrix Theory and its Applications</i>
8:00–11:50 am	<i>Noncommutative Algebra and Noncommutative Invariant Theory, III</i>
8:00–11:50 am	<i>Polymath Jr: Mentoring and Learning, II</i>
8:00–11:50 am	<i>Presenting Research Mathematics Through Visual Storytelling: Slides Without Words and Equations, II</i>
8:00–11:50 am	<i>Early Career Number Theory Research with Combinatorics, Modular Forms, and Basic Hypergeometric Series, I</i>
8:00–11:50 am	<i>Current Advances in Computational Biomedicine, I</i>
8:00–11:50 am	<i>Nonlinear Evolution Equations Stability and Long Time Behavior of Solutions, II</i>
8:00–11:50 am	<i>Geometric Measure Theory, I</i>
8:00–11:50 am	<i>Inquiry-based Teaching and Learning, II</i>
8:00–11:50 am	<i>Little School Dynamics: Cool Research at Primarily Undergraduate Institutions, I</i>
8:00–11:50 am	<i>Mathematical Modeling of Population Dynamics Across Scales: From Immuno-epidemiology to Multilevel Selection, I</i>
8:00–11:50 am	<i>Undergraduate Research Activities in Mathematical and Computational Biology, II</i>
8:00–11:50 am	<i>Piecewise & Discontinuous Difference Equations & Applications, I</i>
8:00 am–12:00 pm	AWM WORKSHOP: WOMEN IN ALGEBRAIC GEOMETRY (WIAG), I
8:00 am–6:00 pm	PROJECT NEXT WORKSHOP
8:00–11:55 am	AMS CONTRIBUTED PAPER SESSION
8:00–11:50 am	AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE SPECIAL SESSION <i>Stochastic Processes on Networks, II</i>
8:00–11:50 am	ASSOCIATION FOR WOMEN IN MATHEMATICS SPECIAL SESSION <i>Women and Gender Minorities in Symplectic and Contact Geometry and Topology, III</i>
8:00–11:50 am	ASSOCIATION FOR WOMEN IN MATHEMATICS SPECIAL SESSION <i>Women in Computational Topology</i>
8:00–11:50 am	INTERNATIONAL LINEAR ALGEBRA SOCIETY SPECIAL SESSION <i>The Interplay of Matrix Analysis and Operator Theory, III</i>
8:00–11:50 am	MATHEMATICAL SCIENCES RESEARCH INSTITUTE SPECIAL SESSION <i>Combinatorial and Homological Methods in Commutative Algebra, I</i>
8:00–11:50 am	MATHEMATICAL SCIENCES RESEARCH INSTITUTE SPECIAL SESSION <i>Resistance Distance and Other Metrics on Graphs and Networks, I</i>
8:00–11:50 am	MATHEMATICAL SCIENCES RESEARCH INSTITUTE SPECIAL SESSION <i>Metric Geometry and Topology, II</i>
8:00 am–12:00 pm	SOCIETY FOR INDUSTRIAL AND APPLIED MATHEMATICS SPECIAL SESSION <i>Advancing Racial Equity in Applied Mathematics</i>

8:00–9:30 am	AMS COMMITTEE ON MEETINGS AND CONFERENCES PANEL <i>Holding AMS Meetings and Conferences in Localities with Discriminatory Practices</i>
9:00 am–12:00 pm	EXHIBITS AND BOOK SALES
9:00–9:50 am	ASL INVITED ADDRESS <i>Model theory of large fields.</i> Erik Walsberg
9:00–11:00 am	PROFESSIONAL ENHANCEMENT PROGRAM (PEP) #9: PART B <i>Recruiting and Mentoring Majors in the Mathematical Sciences</i>
9:00–10:00 am	NAM BUSINESS MEETING
9:00 am–12:00 pm	NSF SESSION: OUTCOMES AND INNOVATIONS FROM NSF UNDERGRADUATE EDUCATION PROGRAMS IN THE MATHEMATICAL SCIENCES, PART 1
9:00–9:50 am	VON NEUMANN LECTURE <i>Title to be announced.</i> Anna Gilbert
9:00–11:50 am	MATHEMATICAL SCIENCES RESEARCH INSTITUTE SPECIAL SESSION <i>The MSRI Undergraduate Program</i>
10:00–10:50 am	ASL INVITED ADDRESS <i>Ramsey like Theorems on the Rationals.</i> Peter Cholak
10:00–11:30 am	MATH CIRCLE DEMO: MIND READING WITH MATH
10:30 am–12:00 pm	AMS PANEL <i>The Future of Books for Graduate Students and Research Mathematicians</i>
10:30–11:30 am	NAM PANEL DISCUSSION
11:10 am–12:00 pm	AMS LECTURE ON EDUCATION <i>Title to be announced.</i> Tyler J. Jarvis
1:00–1:50 pm	ASL INVITED ADDRESS <i>Lower Bounds in Set Theory.</i> Sandra Müller
	AMS SPECIAL SESSIONS
1:00–5:50 pm	<i>Research in Mathematics by Undergraduates and Students in Post-baccalaureate Programs, IV (AMS-SIAM)</i>
1:00–5:50 pm	<i>Mathematics and the Arts, IV</i>
1:00–5:50 pm	<i>Intersections of Geometric Analysis and Mathematical Physics, II</i>
1:00–5:50 pm	<i>Modular Forms and Combinatorics, II</i>
1:00–5:50 pm	<i>Partial Differential Equations and Complex Variables</i>
1:00–5:50 pm	<i>Mathematics Through the Informational Lens, II</i>
1:00–5:50 pm	<i>Scalar Curvature and Convergence, II</i>
1:00–5:50 pm	<i>Combinatorial Approaches to Topological Structures and Applications, II</i>
1:00–5:50 pm	<i>Topics in Extremal Combinatorics</i>
1:00–5:50 pm	<i>Explicit Methods for Modularity, II (Sponsored by Simons Collaboration on Arithmetic Geometry, Number Theory, and Computation)</i>
1:00–5:50 pm	<i>Engaging Students Through Modeling Hands-on Projects and Innovative Exploratory Approaches</i>
1:00–5:50 pm	<i>The Mathematics of Computational and Data-enabled Science</i>
1:00–5:50 pm	<i>Random Polynomials and Related Models</i>
1:00–5:50 pm	<i>Bifurcations of Difference Equations and Discrete-time Competitive and Cooperative Population Models</i>
1:00–5:50 pm	<i>Innovative and Elective Ways to Teach Linear Algebra-cps, II</i>
1:00–5:50 pm	<i>Mathematical Models of Diseases: Analysis and Computation, II</i>
1:00–5:50 pm	<i>Early Career Number Theory Research with Combinatorics, Modular Forms, and Basic Hypergeometric Series, II</i>

- 1:00–5:50 pm *Current Advances in Computational Biomedicine, II*
- 1:00–5:50 pm *Perfectoid Spaces*
- 1:00–5:50 pm *Geometric Measure Theory, II*
- 1:00–5:50 pm *Inquiry-based Teaching and Learning, III*
- 1:00–5:50 pm *Mathematics of Algorithms in Industry, II*
- 1:00–5:50 pm *Little School Dynamics: Cool Research at Primarily Undergraduate Institutions, II*
- 1:00–5:50 pm *Mathematical Modeling of Population Dynamics Across Scales: From Immuno-epidemiology to Multilevel Selection, II*
- 1:00–5:50 pm *Women in Computational Topology, II*
- 1:00–5:50 pm *Mathematics and New Media*
- 1:00–5:50 pm *Piecewise & Discontinuous Difference Equations & Applications, II*
- 1:00–3:00 pm **PROFESSIONAL ENHANCEMENT PROGRAM (PEP) #3: PART B** *Developing Mathematics Programs for Workforce Preparation in Data Science and Other Applications*
- 1:00–3:00 pm **PROFESSIONAL ENHANCEMENT PROGRAM (PEP) #4: PART B** *Evidence-based Practices for More Effective Mentoring Relationships*
- 1:00–6:00 pm **AWM WORKSHOP: WOMEN IN ALGEBRAIC GEOMETRY (WIAG), II**
- 1:00–5:55 pm **AMS CONTRIBUTED PAPER SESSION**
- 1:00–4:00 pm **NSF SESSION: OUTCOMES AND INNOVATIONS FROM NSF UNDERGRADUATE EDUCATION PROGRAMS IN THE MATHEMATICAL SCIENCES, PART 2**
- 1:00–3:00 pm **SIMIODE WORKSHOP ON DIFFERENTIAL EQUATIONS: A TOOLBOX FOR MODELING THE WORLD IN YOUR CLASSROOM WITH YOUR STUDENTS, PART 2**
- 1:00–5:50 pm **ASSOCIATION FOR WOMEN IN MATHEMATICS SPECIAL SESSION** *Women of Color in Combinatorics, II*
- 1:00–5:50 pm **ASSOCIATION FOR WOMEN IN MATHEMATICS SPECIAL SESSION** *Women and Gender Minorities in Symplectic and Contact Geometry and Topology, IV*
- 1:00–5:50 pm **INTERNATIONAL LINEAR ALGEBRA SOCIETY SPECIAL SESSION** *Inverse Eigenvalue Problems for Nonnegative Matrices*
- 1:00–5:50 pm **MATHEMATICAL SCIENCES RESEARCH INSTITUTE SPECIAL SESSION** *Tensor Modeling and Optimization*
- 1:00–5:50 pm **MATHEMATICAL SCIENCES RESEARCH INSTITUTE SPECIAL SESSION** *Combinatorial and Homological Methods in Commutative Algebra, II*
- 1:00–5:50 pm **MATHEMATICAL SCIENCES RESEARCH INSTITUTE SPECIAL SESSION** *Resistance Distance and Other Metrics on Graphs and Networks, II*
- 1:00–5:50 pm **MATHEMATICAL SCIENCES RESEARCH INSTITUTE SPECIAL SESSION** *Lie Group Actions in Differential Geometry*
- 1:00–6:00 pm **SOCIETY FOR INDUSTRIAL AND APPLIED MATHEMATICS SPECIAL SESSION** *Nonlocal and Fractional Problems in Analysis and PDEs*
- 1:30–2:30 pm **JPBM COMMUNICATIONS AWARD LECTURE** *Title to be announced.* Talithia Williams
- 3:00–4:00 pm **MAA-AMS-SIAM GERALD AND JUDITH PORTER PUBLIC LECTURE** *Title to be announced.* Lauren K Williams