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MATHFEST

2024 | INDIANAPOLIS, IN

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It All Starts With Math

WELCOME TO MAA MATHFEST 2024!

While many of us celebrate the new year on January 1st, or the Chinese New Year based on the lunisolar Chinese calendar, my academic year kicks off with MAA MathFest. This year, we are excited to gather in Indianapolis.



If you've never been to Indianapolis, you're in for a treat. Food enthusiasts can indulge in farm-to-table restaurants and sample local bourbon and whiskey. Music lovers can enjoy live performances from jazz and R&B to alternative and punk rock. Families will find plenty to explore, including the children's museum, zoo, motor speedway and museum, and the center for performing arts. Indianapolis has something for everyone, and MAA will bring the mathematics.

As always, MAA MathFest offers something for everyone. Secondary students and teachers can attend the Mathematical Olympiads Awards Ceremony, the panel on Instructional Practices to Increase Student Opportunities (which I am co-chairing with NCTM President Kevin Dykema), or the Chan Stanek Ross lecture titled "What a DJ Knows: Song Demand Prediction from Sound Data" by Kobi Abayomi. Math enthusiasts will enjoy David Taylor's presentation on mathematic and David Richeson's Martin Gardner Lecture on "A Romance of Many (and Fractional) Dimensions." The 2024 MAA Project NExT fellows and new faculty will gain valuable insights from the MAA Invited Address speakers, Ben Orlin and William Dunham, and Alicia Prieto Langarica's James R.C. Leitzel Lecture. For those interested in fairness in machine learning, Deanna Needell's AWM-MAA Etta Zuber Falconer Lecture is a must-see, as is Sofiat Olaoosebikan's MAA Invited Address on matching agents like doctors to hospitals. Don't miss the MAA Earle Raymond Hedrick Lecture series by Lillian B. Pierce, who will bridge concepts from number theory and analysis.

If you've attended MAA MathFest before, you know the MAA Pavilion is our central hub. Here, we will celebrate our prize winners, commemorate 50 years of the Rubik's cube, browse MAA merchandise, applaud Florence Fasanelli for her service to the Tensor Women's Program, reconnect with friends, and mingle with the fantastic MAA staff. Don't forget to thank them for all their hard work, especially MAA Associate Secretary, Nancy Neudauer.

The beginning of my school year feels energizing because of the dedication and effort the staff put into MAA MathFest. Get ready to have fun!

Hugs,

Hortensia (Tensia) Soto, MAA President



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INVITED ADDRESSES

Please note: All sessions are held at Eastern Daylight Time (EDT = UTC-4:00)



MAA EARLE RAYMOND HEDRICK LECTURE SERIES

Lillian B. Pierce, *Duke University*

Invisible Cities: On Ideas in Number Theory and Analysis

Lecture I - Superorthogonality

Thursday, August 8, 11:00 am - 11:50 am, JW Grand Ballroom 5/6

Lecture II - Moments

Friday, August 9, 10:00 am - 10:50 am, JW Grand Ballroom 5/6



AMS-MAA JOINT INVITED ADDRESS

Diana Thomas, *United States Military Academy West Point*

The Calculus of Metabolic Disease

Thursday, August 8, 2:00 pm - 2:50 pm, JW Grand Ballroom 5/6



MAA INVITED ADDRESS

Sofiat Olaosebikan, *University of Glasgow*

Matchings Under Preferences: The Student Project Allocation Problem and Beyond

Thursday, August 8, 1:00 pm - 1:50 pm, JW Grand Ballroom 5/6



MAA INVITED ADDRESS

Ben Orlin, *Saint Paul College*

Math for English Majors

Friday, August 9, 1:00 pm - 1:50 pm, JW Grand Ballroom 5/6



MAA INVITED ADDRESS

William Dunham, *Bryn Mawr College*

Bryn Mawr Matriculation Exams from Days of Yore

Thursday, August 8, 10:00 am - 10:50 am, JW Grand Ballroom 5/6



MAA JAMES R.C. LEITZEL LECTURE

Alicia Prieto Langarica, *Youngstown State University*

Move Outta the Way! Re-indigenizing Our Teaching Practices

Friday, August 9, 11:00 am - 11:50 am, JW Grand Ballroom 5/6

INVITED ADDRESSES



AWM-MAA ETTA ZUBER FALCONER LECTURE

Deanna Needell, *University of California, Los Angeles*

Towards Fairer-ness in Machine Learning

Thursday, August 8, 9:00 am - 9:50 am, JW Grand Ballroom 5/6



CHAN STANEK ROSS LECTURE FOR STUDENTS

Kobi Abayomi, *Seton Hall University and Gumbel Demand Acceleration*

What a DJ knows: Song Demand Prediction from Sound Data

Saturday, August 10, 1:00 pm - 1:50 pm, JW Grand Ballroom 5/6



CHRISTINE DARDEN LECTURE

Dawn Lott, *Delaware State University*

Mapping Biological Processes for the Purpose of Decision Making

Saturday, August 10, 10:00 am - 10:50 am, JW Grand Ballroom 5/6



MARTIN GARDNER LECTURE

David Richeson, *Dickinson College*

A Romance of Many (and Fractional) Dimensions

Saturday, August 10, 2:00 pm - 2:50 pm, JW Grand Ballroom 5/6



NAM DAVID HAROLD BLACKWELL LECTURE

Jacqueline Leonard, *University of Wyoming (Emerita)*

Facilitating Computational Thinking in Out-of-School Programs

Saturday, August 10, 11:00 am - 11:50 am, JW Grand Ballroom 5/6



STUDENT ACTIVITY SPEAKER

David Taylor, *Roanoke College*

Mathematics + Magic = Mathemagic: Creating Illusions with Undergraduate Mathematics Topics

Friday, August 9, 2:00 pm - 2:50 pm, JW Grand Ballroom 5/6

MAA PAVILION EVENTS

Events will be held in the MAA MathFest Exhibit Hall in the MAA Pavilion.

Exhibit Hall Grand Opening & Reception

Wednesday, August 7, 6:30 pm - 8:30 pm, Exhibit Hall

The MAA MathFest Grand Opening Reception will launch this year's MAA MathFest on a high note. The event is intended to draw attendees together in a spirit of camaraderie. We warmly invite you to enjoy complimentary light hors d'oeuvres while you mix and mingle throughout the Exhibit Hall with other registered participants and guests, sponsors, and exhibitors.

MAA Writing Award Winners Meet & Greet

Wednesday, August 7, 7:30 pm - 8:30 pm, Exhibit Hall

The MAA Prize Winners will be celebrated throughout MAA MathFest. Join this informal gathering to congratulate and hear a few words from the winners of the Pólya, Halmos-Ford, Trevor Evans and Allendoerfer Prizes/Awards! Enjoy some refreshments and a celebration of the awardees' exemplary writing.

Organizers:

Cindy Wyels, MAA Secretary, *CSU Channel Islands*
Hortensia Soto, MAA President, *Colorado State University*

MAA Cornhole Competition

Thursday, August 8, 9:30 am - 10:30 am, Exhibit Hall

Friday, August 9, 1:30 pm - 2:30 pm, Exhibit Hall

Grab a partner and compete in the first annual MAA cornhole competition! Whether you're a cornhole pro or a first-time player, we welcome everyone to participate. A sign-up sheet will be available at the MAA Pavilion. A prize will be awarded to the winner of the competition.

Organizer:

Justin Cortez, *Mathematical Association of America*

Celebrating Florence Fasanelli and Her Commitment to Outreach in Mathematics

Thursday, August 8, 10:00 am - 11:00 am, Exhibit Hall

Celebrate Dr. Florence Fasanelli and the years of service she has committed to math education outreach programs. Dr. Fasanelli served as the Outreach Director for the Tensor Women programs since 1995 and Tensor SUMMA since 2007. Join us in honoring her immediately following the Outreach Poster Session.

Organizers:

Kiera Palma, *Mathematical Association of America*
Audrey Malagon, *Mathematical Association of America*

VITAL Faculty Meet and Greet

Thursday, August 8, 11:00 am - 12:00 pm, Exhibit Hall

Stop by the pavilion to meet members of the Committee on VITAL (Visitors, Instructors, TAs, Adjuncts and Lecturers) Faculty Concerns and the ANET Leader for Adjunct Issues for AMATYC. Share your thoughts, concerns, and questions about issues facing VITAL faculty within the MAA and your institution.

Organizers:

Grace Cook, *Bloomfield College of Montclair State University*
Pat Barrientos, *El Paso Community College*

MAA PAVILION EVENTS

MAA Writing and Service Award Winners Meet & Greet

Thursday, August 8, 12:00 pm - 1:00 pm, Exhibit Hall

The MAA Prize Winners will be celebrated throughout MAA MathFest. Join this informal gathering to congratulate and hear a few words from the winners of the Beckenbach Book, Chauvenet, and Meritorious Service Awards! Enjoy some refreshments and a celebration of the awardees and the MAA values they exemplify.

Organizers:

Cindy Wyels, *MAA Secretary, CSU Channel Islands*

Hortensia Soto, *MAA President, Colorado State University*

LGBTQUIA+ Social Mixer

Thursday, August 8, 1:00 pm - 2:00 pm, Exhibit Hall

Join us for a social mixer dedicated to uniting and celebrating the LGBTQIA+ community. Let's come together to share experiences, exchange ideas, and build connections with fellow peers. Come celebrate our diversity and foster a supportive and inclusive community.

Organizers:

Pete Dohan, *Mathematical Association of America*

Spectra: *The Association of LGBTQ+ Mathematicians*

Play Backgammon

Thursday, August 8, 2:00 pm - 3:30 pm, Exhibit Hall

Friday, August 9, 2:30 pm - 4:00 pm, Exhibit Hall

Join us for backgammon at the MAA Pavillion! Come learn to play, improve your skills, and enjoy the game with fellow enthusiasts. It's a fun and exciting game where players with a good mathematics background have a decisive advantage. Boards will be set up and ready for action, and experienced players are ready to teach those who want to learn!

Organizers:

Art Benjamin, *Harvey Mudd College*

Charles (Chuck) Bower, *Indiana University*

Michael Pearson, *MAA Executive Director, Mathematical Association of America*

SIGMAA Leadership Social

Thursday, August 8, 2:00 pm - 3:00 pm, Exhibit Hall

Join SIGMAA leaders and the Committee on SIGMAAs for a time to exchange ideas on engaging the members of your SIGMAA community and develop the work of your SIGMAA. Connect and celebrate success and explore challenges with informal conversations and light refreshments.

Organizers:

Megan J Breit-Goodwin (She/Her), *Anoka Ramsey Community College - Coon Rapids*

Grant Innerst, *Shippensburg University*

Lifetime Member Mixer

Thursday, August 8, 4:00 pm - 5:00 pm, Exhibit Hall

We welcome and celebrate our Lifetime Members for their commitment to the MAA. Your commitment has been instrumental in shaping our community, and it's time for us to celebrate with a happy hour mixer and networking event.

Organizer:

Anita Douglas, *Mathematical Association of America*

MAA PAVILION EVENTS

Minority Participation in Mathematics Discussion Session

Thursday, August 8, 4:00 pm - 5:00 pm, Exhibit Hall

Please come by and join the discussion about initiatives to increase minority participation in Mathematics. The new chair of the committee, Aris Winger, will run the session and get feedback from the community about the next year's goals and initiatives.

Organizers:

Committee on Minority Participation in Mathematics
Aris Winger, *Georgia Gwinnett College*

MAA Bingo with Pete

Friday, August 9, 10:00 am - 11:00 am, Exhibit Hall

Get ready to "B-1" of the lucky ones at our bingo event! Join Pete for some fun, laughter, and fabulous swag—because in our game, everyone leaves with a prize that's more than just a "B-9" improvement to your MAA MathFest!!

Organizer:

Pete Dohan, *Mathematical Association of America*

The Rubik's Cube: 50 Years of Embodied Group Theory

Friday, August 9, 11:00 am - 12:00 pm, Exhibit Hall

What is the mathematics behind the Rubik's Cube? How can the Rubik's cube be used to demonstrate fundamental concepts in group theory to students? Come see how a solution can be easily built from just commutators and conjugation. Watch a Rubik's Cube being solved. While blindfolded! Me, not the cube. We'll also have time for audience members to participate in a speed contest and engage in discussion and questions about the Rubik's Cube, its history, and mathematics.

Organizer:

Brett Stevens, *Carleton University*

Meet and Greet with AMC Director and Editorial Board Members

Friday, August 9, 1:00 pm - 2:00 pm, Exhibit Hall

Join AMC Director Professor Bela Bajnok of Gettysburg College for a reception celebrating the MAA Competitions program. Members of the competitions' editorial boards will also be present. Students, educators, and all MAA members interested in the MAA Competitions programs are welcome to attend.

Organizers:

Audrey Malagon, *Mathematical Association of America*
Bela Bajnok, *Gettysburg College*

MAA Service, Leadership and Research Award Winners Meet & Greet

Friday, August 9, 2:00 pm - 3:00 pm, Exhibit Hall

Light refreshments for the Gung & Hu, Inclusivity, Dolciani, Stevens and Selden Awards
The MAA Prize Winners will be celebrated throughout MAA MathFest. Join this informal reception to congratulate and hear a few words from the winners of the Gung & Hu, Inclusivity, Dolciani, Stevens and Selden Awards! Enjoy some refreshments and a celebration of the awardees and the MAA values they exemplify.

Organizers:

Cindy Wyels, *MAA Secretary, CSU Channel Islands*
Hortensia Soto, *MAA President, Colorado State University*

EXHIBIT HALL SCHEDULE OF EVENTS

Wednesday, August 7th

6:30 pm - 8:30 pm: Exhibit Hall Grand Opening Reception

Thursday, August 8th

9:00 am - 6:00 pm: Exhibit Hall Open Hours

2:00 pm - 2:30 pm: Coffee Break!
Sponsored by the National Security Agency (NSA), Booth 305

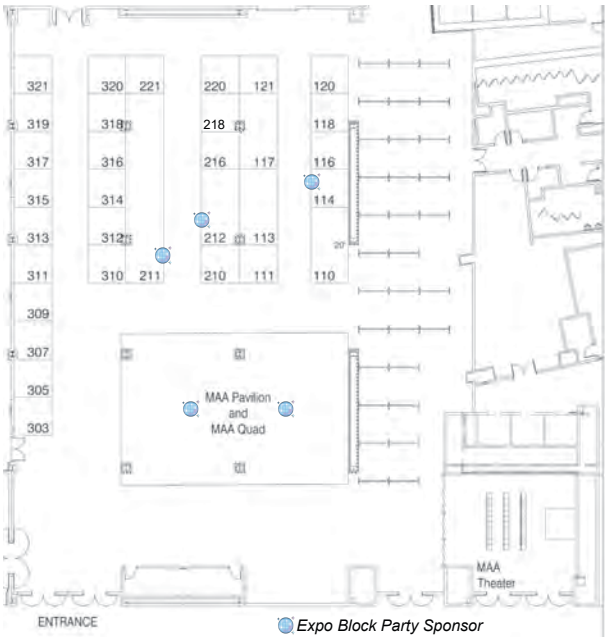
Friday, August 9th

9:00 am - 5:00 pm: Exhibit Hall Open Hours

12:00 pm - 1:00 pm: Expo Block Party!
Sponsored by Mathematical Association of America, XYZ Homework, American Mathematical Society, and the PROSE Consortium supported by a Community Grant from the United States Research Software Engineering Association

12:00 pm - 1:00 pm: Puppy Break!
Sponsored by Hudson River Trading (HRT), in partnership with IndyHumane

EXHIBIT HALL FLOOR PLAN



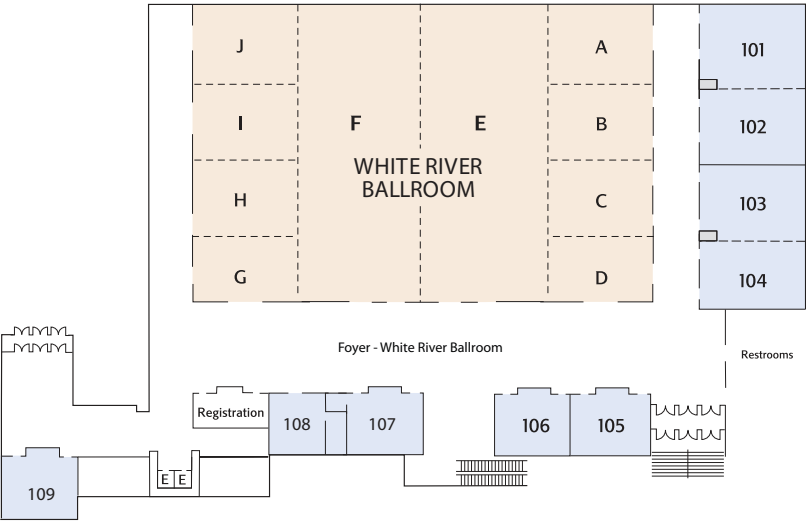
EXHIBITORS AND SPONSORS

American Institute of Mathematics (Booth 110)
American Mathematical Society (Booth 211) *
Association for Women in Mathematics (Booth 216)
Budapest Semesters in Mathematics Education (BSME) (Booth 312)
CalcPlot3D (Booth 118)
Citadel | Citadel Securities ^
Crowdmark (Booth 303)
Drexel University Department of Mathematics (Booth 313) *
Gradarius (Booth 319)
Hawkes Learning (Booth 113)
Hudson River Trading (HRT) ^
IndyHumane ^
Jane Street ^
MAA Indiana Section (Booth 317)
Macmillan Learning (Booth 210) *
Math Wiz Flashcards, LLC (Booth 318)
Mathematical Association of America (MAA) - MAA Pavilion *
MathHappens Foundation (Booth 117) *
National Security Agency (NSA) (Booth 305) *
The POGIL Project (Booth 218)
Princeton University Press (Booth 309)
The PROSE Consortium (Booth 114) *
Think Academy (Booth 315) *
Thrive Scholars (Booth 307)
Two Sigma ^
University of California, Riverside: Department of Mathematics (Booth 314)
University of North Texas (Booth 316)
Way to Succeed: Mindful Insights for Learning (Booth 311)
Wolfram (Booth 111)
Ximera Project (Booth 310)
XYZ Homework (Booth 212) *
Zim Olson and Zim Mathematics (Booth 116)

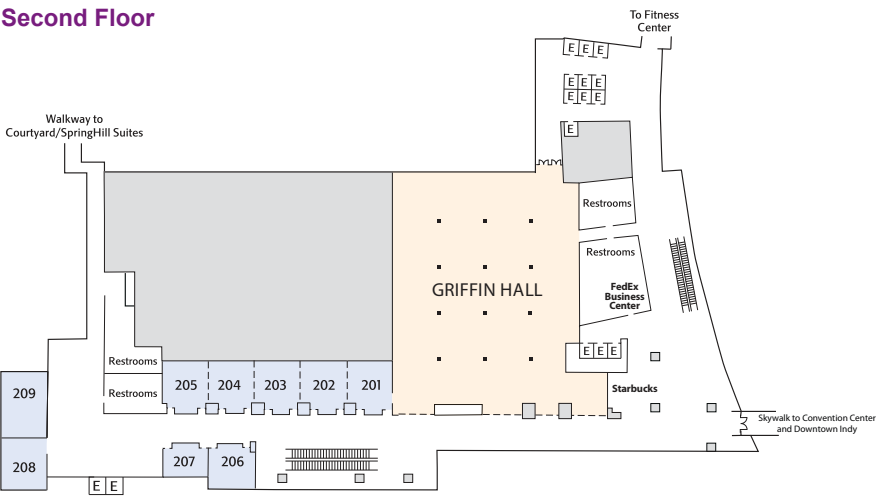
* Exhibitor / Sponsor ^ Sponsor Only

JW MARRIOTT INDIANAPOLIS FLOOR PLAN

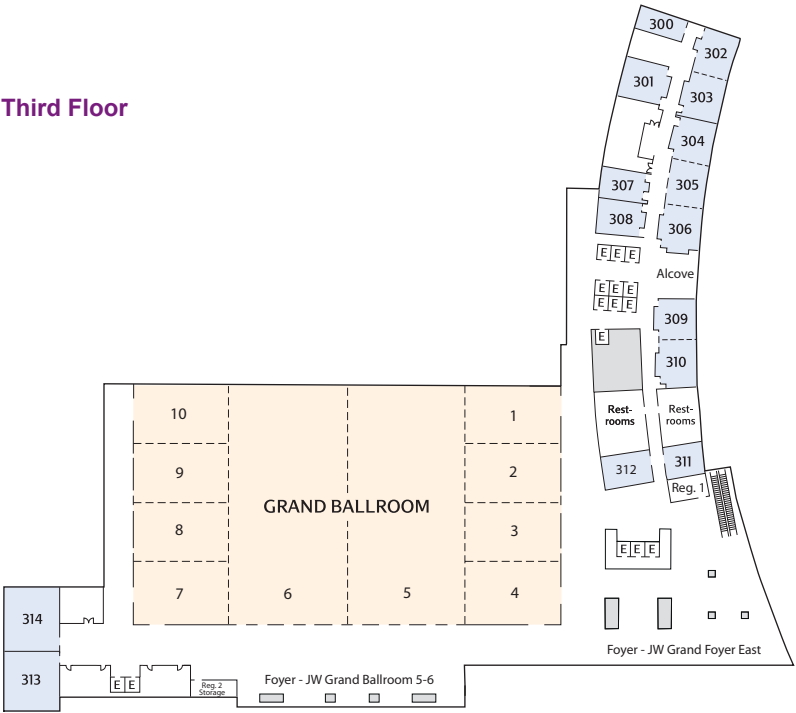
White River Conference Level



Second Floor



Third Floor



CHRONOLOGICAL SCHEDULE | WEDNESDAY

Please note: all sessions are listed in Eastern Daylight Time (EDT = UTC-4:00) and located at the JW Marriott Indianapolis unless otherwise specified

WEDNESDAY SCHEDULE, AUGUST 7

Committee Meeting

MAA Congress Meeting

8:30 am - 5:00 pm, JW Grand Ballroom 3/4

Registration & Information

2:00 pm - 8:00 pm, Grand Foyer East (Third Floor)

Special Session

AMC/AIME Editors' Favorite Problems

2:00 pm - 4:00 pm, Rooms 201-203 (Student Lounge)

Special Session

Pedagogies and Practices for Teaching Data Science

3:00 pm - 5:30 pm, JW Grand Ballroom 1/2

Math Jeopardy, the Student Welcome Reception, and Navigating MathFest Overview

4:00 pm - 5:45 pm, White River Ballroom F

Scatterplot Launch Special Event

Art Benjamin, *Harvey Mudd College*

Solving the Race in Backgammon

5:45 pm - 6:30 pm, JW Grand Ballroom 5/6

Exhibit Hall Social Event

Exhibit Hall Grand Opening & Reception

6:30 pm - 8:30 pm, Exhibit Hall

MAA Pavilion Event

Prizes & Awards Meet and Greet

7:30 pm - 8:30 pm, Exhibit Hall

CHRONOLOGICAL SCHEDULE | THURSDAY

THURSDAY SCHEDULE, AUGUST 8

Registration & Information

7:30 am - 6:00 pm, Grand Foyer East (Third Floor)

Introduction to MAA MathFest

8:00 am - 9:00 am, JW Grand Ballroom 3/4

MAA Invited Paper Session

Topology \cap Teaching: Knot Theory Research at Primarily Undergraduate Institutions

8:00 am - 12:00 pm, JW Grand Ballroom 7

MAA Invited Paper Session

Rethinking Number Theory

8:00 am - 11:00 am, JW Grand Ballroom 8

Contributed Paper Session

Building Community in Mathematics Departments, Part A

8:00 am - 10:55 am, JW Grand Ballroom 9

Contributed Paper Session

New Twists on Your Favorite Math Circle Activity, Part A

8:00 am - 10:55 am, Room 309/310

Contributed Paper Session

Equity Minded Practices in Placement and Entry-level Courses

8:00 am - 10:15 am, Room 311

Contributed Paper Session

Teaching and Learning of Calculus, Part A

8:00 am - 9:55 am, Room 313

Contributed Paper Session

Quantum Computation in the Undergraduate Curriculum

8:00 am - 10:35 am, Room 314

Panel

Launching Careers in Mathematics: Results from a Research Study of MAA Project NExT

8:00 am - 9:20 am, JW Grand Ballroom 2

CHRONOLOGICAL SCHEDULE | THURSDAY

THURSDAY SCHEDULE, AUGUST 8

Workshop

On the Shoulders of Giants: Teaching and Learning Mathematics from Primary Historical Sources

8:00 am - 9:20 am, JW Grand Ballroom 1

Minicourse*

Differential Equations: A Toolbox for Modeling the World in Your Classroom, Part A

8:00 am - 10:00 am, Room 103

**Note: Minicourses require additional payment*

Minicourse*

Computational Exploration in Undergraduate Mathematics Courses, Part A

8:00 am - 10:00 am, Room 104

**Note: Minicourses require additional payment*

Minicourse*

Becoming a Math JEDI: Working for Justice, Equity, Diversity, and Inclusion, Part A

8:00 am - 10:00 am, White River Ballroom C/D

**Note: Minicourses require additional payment*

AWM-MAA Etta Zuber Falconer Lecture

Deanna Needell, *University of California, Los Angeles*

Towards Fairer-ness in Machine Learning

9:00 am - 9:50 am, JW Grand Ballroom 5/6

Poster Session

Poster Session for Projects Supported by the NSF Division of Undergraduate Education

9:00 am - 10:30 am, Exhibit Hall

Poster Session

MAA Outreach Poster Session

9:00 am - 10:30 am, Exhibit Hall

Exhibit Hall Open Hours

9:00 am - 6:00 pm, Griffin Hall

CHRONOLOGICAL SCHEDULE | THURSDAY

THURSDAY SCHEDULE, AUGUST 8

MAA Pavilion Event

MAA Cornhole Competition

9:30 am - 10:30 am, Exhibit Hall

Contributed Paper Session

Inquiry-Based Learning, Part A

9:40 am - 10:55 am, JW Grand Ballroom 3/4

MAA Invited Address

William Dunham, *Bryn Mawr College*

Bryn Mawr Matriculation Exams from Days of Yore

10:00 am - 10:50 am, JW Grand Ballroom 5/6

Minicourse*

Game Theoretic Modeling, Part A

10:00 am - 12:00 pm, Room 104

**Note: Minicourses require additional payment*

Minicourse*

Navigating the AI Landscape: Practical and Ethical Integration in Mathematics Education, Part A

10:00 am - 12:00 pm, White River Ballroom C/D

**Note: Minicourses require additional payment*

MAA Pavilion Event

Celebrating Florence Fasanelli and Her Commitment to Outreach in Mathematics

10:00 am - 11:00 am, Exhibit Hall

MAA Earle Raymond Hedrick Lecture Series

Lillian B. Pierce, *Duke University*

Lecture Series - Invisible Cities: On Ideas in Number Theory and Analysis

Lecture I - Superorthogonality

11:00 am - 11:50 am, JW Grand Ballroom 5/6

MAA Pavilion Event

VITAL Faculty Meet and Greet

11:00 am - 12:00 pm, Exhibit Hall

CHRONOLOGICAL SCHEDULE | THURSDAY

THURSDAY SCHEDULE, AUGUST 8

MAA Pavilion Event

Prizes & Awards Meet and Greet

12:00 pm - 1:00 pm, Exhibit Hall

MAA Invited Address

Sofiat Olaosebikan, *University of Glasgow*

Matchings Under Preferences: The Student Project Allocation Problem and Beyond

1:00 pm - 1:50 pm, JW Grand Ballroom 5/6

Panel

A Compassionate Vision for Math Education

1:00 pm - 2:20 pm, JW Grand Ballroom 2

MAA Pavilion Event

LGBTQUIA+ Social Mixer

1:00 pm - 2:00 pm, Exhibit Hall

Exhibit Hall Social Event

Coffee Break! | *Sponsored by the National Security Agency (NSA), Booth 305*

2:00 pm - 2:30 pm, Booth 305, Exhibit Hall

AMS-MAA Joint Invited Address

Diana Thomas, *United States Military Academy West Point*

The Calculus of Metabolic Disease

2:00 pm - 2:50 pm, JW Grand Ballroom 5/6

MAA Invited Paper Session

Research and Career Journeys from the Project NExT Beautiful Blues '17

2:00 pm - 6:00 pm, JW Grand Ballroom 7

Contributed Paper Session

Teaching Flops: Learning and Adapting When Teaching Goes Astray, Part A

2:00 pm - 3:15 pm, JW Grand Ballroom 8

CHRONOLOGICAL SCHEDULE | THURSDAY

THURSDAY SCHEDULE, AUGUST 8

Panel

Engaging Students with the Mathematics of Soft Target Risk Assessment

2:00 pm - 3:20 pm, JW Grand Ballroom 3/4

Workshop

Introduction to WeBWork: An Open-Source Alternative to Generate and Deliver Online Homework Problems

2:00 pm - 3:20 pm, JW Grand Ballroom 1

Poster Session

MAA Contributed Poster Session, Part I

2:00 pm - 3:15 pm, Exhibit Hall

Minicourse*

Jumpstarting Your Scholarship, Part A

2:00 pm - 4:00 pm, Room 103

**Note: Minicourses require additional payment*

Minicourse*

Github and Data Science for Mathematicians, Part A

2:00 pm - 4:00 pm, Room 104

**Note: Minicourses require additional payment*

Minicourse*

ALPS – A Scaffolded Approach to Building an Active Classroom, Part A

2:00 pm - 4:00 pm, White River Ballroom C/D

**Note: Minicourses require additional payment*

MAA Section Officers Meeting

2:00 pm - 3:30 pm, White River Ballroom E

MAA Pavilion Event

Play Backgammon

2:00 pm - 3:30 pm, Exhibit Hall

CHRONOLOGICAL SCHEDULE | THURSDAY

THURSDAY SCHEDULE, AUGUST 8

MAA Pavilion Event

SIGMAA Leadership Social

2:00 pm - 3:00 pm, Exhibit Hall

Contributed Paper Session

Teaching and Learning of Differential Equations

2:30 pm - 6:05 pm, Room 313

Panel

Nurturing Equity, Inclusion, Diversity, and Belonging in Undergraduate Research: Strategies and Insights

2:30 pm - 3:50 pm, Grand Ballroom 2

Contributed Paper Session

Recreational Mathematics: Puzzles, Card Tricks, Games, and Gambling, Part A

3:00 pm - 5:55 pm, Room 309/310

Contributed Paper Session

Mathematical Experiences and Projects in Business, Industry, and Government (BIG)

3:00 pm - 5:55 pm, Room 311

Quotable Mathematics

Ben Orlin, *St. Paul College and Math with Bad Drawings*

3:00 pm - 4:30 pm, JW Grand Ballroom 5/6

AWM-MAA Invited Paper Session (aligned with the Falconer Lecture)

Ben Orlin, *St. Paul College*

Iterative and Sketching Approaches for Linear Systems and Beyond, Part A

3:30 pm - 6:00 pm, JW Grand Ballroom 8

Contributed Paper Session

Mathematics and Sports

3:30 pm - 6:05 pm, Room 314

Panel

Creating Successful Study Abroad Programs in Mathematics

3:30 pm - 4:50 pm, JW Grand Ballroom 3/4

CHRONOLOGICAL SCHEDULE | THURSDAY

THURSDAY SCHEDULE, AUGUST 8

Workshop

Exploring How Climate Applications Tie to the Undergraduate Curriculum

3:30 pm - 4:50 pm, JW Grand Ballroom 1

MAA Invited Paper Session

Trends in Mathematical and Computational Biology, Part A

4:00 pm - 6:00 pm, JW Grand Ballroom 9

Panel

Developing Grant Proposals for NSF Division for Undergraduate Education

4:00 pm - 5:20 pm, JW Grand Ballroom 2

One-on-One Meetings with NSF Program Officers

5:20 pm - 6:20 pm

Minicourse*

Teaching a Service-learning-based General-education Data Literacy and Visualization Course, Part A

4:00 pm - 6:00 pm, Room 103

**Note: Minicourses require additional payment*

Minicourse*

Empowering Mathematics Mentorship: Personalized Undergraduate Research Experiences and Community Building, Part A

4:00 pm - 6:00 pm, Room 104

**Note: Minicourses require additional payment*

Minicourse*

An Actionable Approach to Alternative Grading, Part A

4:00 pm - 6:00 pm, White River Ballroom C/D

**Note: Minicourses require additional payment*

Estimathon! | Sponsored by Jane Street

Round I: 4:00 pm - 5:00 pm, White River Ballroom F

Indiana Section Reception

4:00 pm - 5:00 pm, JW Grand Ballroom 10

CHRONOLOGICAL SCHEDULE | THURSDAY

THURSDAY SCHEDULE, AUGUST 8

MAA Pavilion Event

Lifetime Member Mixer

4:00 pm - 5:00 pm, Exhibit Hall

MAA Pavilion Event

Minority Participation in Mathematics Discussion Session

4:00 pm - 5:00 pm, Exhibit Hall

Poster Session

WEBSIGMAA Showcase of Web-Based Teaching Resources

4:15 pm - 5:45 pm, Exhibit Hall

Workshop

Moving from Inclusion to Belonging - Belonging in Mathematics: Fostering Inclusivity and Overcoming Barriers

5:00 pm - 6:20 pm, JW Grand Ballroom 1

Estimathon! | *Sponsored by Jane Street*

Round II: 5:00 pm - 6:00 pm, White River Ballroom F

MAA Prize Session

5:15 pm - 6:30 pm, JW Grand Ballroom 3/4

SIGMAA Activity

SIGMAA on Mathematical and Computational Biology (SIGMAA BIO) Business Meeting, Reception, and Guest Lecture

6:00 pm - 7:30 pm, JW Grand Ballroom 9

Mathematical Modeling in Medicine: Applications to Glaucoma and Heart Transplantation

Julia Arciero, *Indiana University–Purdue University Indianapolis*

SIGMAA Activity

SIGMAA on Business, Industry, and Government (SIGMAA BIG) Business Meeting and Guest Lecture

6:00 pm - 7:30 pm, Room 311

Frontier AI: Industry, Government, and Mathematicians

Aaron Luttmann, *Pacific Northwest National Laboratory*

CHRONOLOGICAL SCHEDULE | THURSDAY

THURSDAY SCHEDULE, AUGUST 8

SIGMAA Activity

**SIGMAA on Mathematical Knowledge for Teaching (SIGMAA MKT)
Business Meeting, Reception, and Fireside Chats**

6:20 pm - 7:50 pm, Room 313

SIGMAA Activity

SIGMAA on Quantitative Learning (SIGMAA QL) Gathering

6:30 pm - 7:30 pm, JW Grand Ballroom 8

SIGMAA Activity

**SIGMAA on Mathematics and Sports (SIGMAA Sports) Business
Meeting and Guest Lecture**

6:30 pm - 8:00 pm, White River Ballroom F

SIGMAA Activity

**SIGMAA on the History of Mathematics (SIGMAA HOM) Business
Meeting, Reception, and Guest Lecture**

6:30 pm - 8:00 pm, Room 309/310

Zero and Nothing in Medieval Arabic Arithmetic

Jeffery Oaks, *University of Indianapolis*

CHRONOLOGICAL SCHEDULE | FRIDAY

FRIDAY SCHEDULE, AUGUST 9

Registration & Information

7:30 am - 5:00 pm, Grand Foyer East (Third Floor)

MAA Invited Paper Session (aligned with an MAA Invited Address)

Matching and Labelings in Graphs

8:00 am - 11:00 am, JW Grand Ballroom 7

AWM-MAA Invited Paper Session (aligned with the Falconer Lecture)

Iterative and Sketching Approaches for Linear Systems and Beyond, Part B

8:00 am - 10:00 am, JW Grand Ballroom 8

MAA Invited Paper Session

"When are we going to use this?": Interdisciplinary Projects in Pure Math Courses

8:00 am - 12:00 pm, JW Grand Ballroom 9

Using Generative AI in the College Mathematics Classroom

8:00 am - 10:55 am, Room 309/310

Contributed Paper Session

Innovative and Effective Pedagogical and Technological Practices to Teach College Algebra and Pre-calculus, Part A

8:00 am - 10:55 am, Room 311

Contributed Paper Session

Teaching and Learning of Calculus, Part B

8:00 am - 10:35 am, Room 313

Contributed Paper Session

Research on Undergraduate Mathematics Education, Part A

8:00 am - 10:55 am, Room 314

Panel

Instructional Practices to Increase Student Opportunities

8:00 am - 9:20 am, JW Grand Ballroom 2

Workshop

Equity in the Moment

8:00 am - 9:20 am, JW Grand Ballroom 1

CHRONOLOGICAL SCHEDULE | FRIDAY

FRIDAY SCHEDULE, AUGUST 9

Poster Session

**Research in Motion (Undergraduate Student Poster Session)
- SETUP ONLY**

8:00 am - 9:00 am, Exhibit Hall

MAA Special Session organized by the Indiana Section

Notable Events in the History of the Indiana Section of the MAA

8:00 am - 10:00 am, JW Grand Ballroom 3/4

Minicourse*

Can We Make Grace the Norm in Our Classrooms?, Part A

8:00 am - 10:00 am, Room 103

**Note: Minicourses require additional payment*

Minicourse*

Teaching Probability and Statistics: Technology and Active Learning Approaches, Part A

8:00 am - 10:00 am, Room 104

**Note: Minicourses require additional payment*

Minicourse*

Teaching Mathematics Through Games, Part A

8:00 am - 10:00 am, White River Ballroom C/D

**Note: Minicourses require additional payment*

Poster Session

**Research in Motion (Undergraduate Student Poster Session) -
Students and Judges Only**

9:00 am - 10:00 am, Exhibit Hall

Exhibit Hall Open Hours

9:00 am - 5:00 pm, Griffin Hall

Panel

Innovations in Teaching-Focused Professional Development

9:30 am - 10:50 am, JW Grand Ballroom 2

CHRONOLOGICAL SCHEDULE | FRIDAY

FRIDAY SCHEDULE, AUGUST 9

Workshop

Putting the Differential Back into Calculus

9:30 am - 10:50 am, JW Grand Ballroom 1

MAA Earle Raymond Hedrick Lecture Series

Lillian B. Pierce, *Duke University*

Lecture Series - Invisible Cities: On Ideas in Number Theory and Analysis

Lecture II - Moments

10:00 am - 10:50 am, JW Grand Ballroom 5/6

Contributed Paper Session

How My Philosophy of Mathematics Affects My Teaching, Part A

10:15 am - 12:15 pm, JW Grand Ballroom 8

Poster Session

Research in Motion (Undergraduate Student Poster Session)

10:00 am - 12:00 pm, Exhibit Hall

Minicourse*

Differential Equations: A Toolbox for Modeling the World in Your Classroom, Part B

10:00 am - 12:00 pm, Room 103

**Note: Minicourses require additional payment*

Minicourse*

Computational Exploration in Undergraduate Mathematics Courses, Part B

10:00 am - 12:00 pm, Room 104

**Note: Minicourses require additional payment*

Minicourse*

Becoming a Math JEDI: Working for Justice, Equity, Diversity, and Inclusion, Part B

10:00 am - 12:00 pm, White River Ballroom C/D

**Note: Minicourses require additional payment*

MAA Pavilion Event

MAA BINGO with Pete

10:00 am - 11:00 am, Exhibit Hall

CHRONOLOGICAL SCHEDULE | FRIDAY

FRIDAY SCHEDULE, AUGUST 9

Panel

Starting a Data Science Program in Your Department

10:30 am - 11:50 am, JW Grand Ballroom 3/4

MAA James R.C. Leitzel Lecture

Alicia Prieto Langerica, *Youngstown State University*

Move Outta the Way! Re-indigenizing Our Teaching Practices

11:00 am - 11:50 am, JW Grand Ballroom 5/6

MAA Pavilion Event

Rubik's Cube

11:00 am - 12:00 pm, Exhibit Hall

Exhibit Hall Social Event

Expo Block Party! *Sponsored by the Mathematical Association of America, XYZ Homework, American Mathematical Society, and The PROSE Consortium supported by a Community Grant from the United States Research Software Engineering Association*

12:00 pm - 1:00 pm, Exhibit Hall

Puppy Break! *Sponsored by Hudson River Trading (HRT), in partnership with IndyHumane*

12:00 pm - 1:00 pm, Exhibit Hall

MAA Invited Address

Ben Orlin, *Saint Paul College*

Math for English Majors

1:00 pm - 1:50 pm, JW Grand Ballroom 5/6

Contributed Paper Session

Advances in Algebraic Topology, Part A

1:00 pm - 3:55 pm, Room 309/310

Poster Session

MAA Contributed Poster Session, Part II

1:00 pm - 2:15 pm, Exhibit Hall

MAA Pavilion Event

Meet and Greet with AMC Director and Editorial Board Members

1:00 pm - 2:00 pm, Exhibit Hall

CHRONOLOGICAL SCHEDULE | FRIDAY

FRIDAY SCHEDULE, AUGUST 9

MAA Pavilion Event

MAA Cornhole Competition

1:30 pm - 2:30 pm, Exhibit Hall

Student Activity

David Taylor, *Roanoke College*

Mathematics + Magic = Mathemagic: Creating Illusions with Undergraduate Mathematics Topics

2:00 pm - 2:50 pm, JW Grand Ballroom 5/6

MAA Invited Paper Session (aligned with the Gardner Lecture)

Mathematics and Art

2:00 pm - 6:00 pm, JW Grand Ballroom 7

Contributed Paper Session

Open-Source Products for the Advancement of Math Education Research and Practice

2:00 pm - 5:15 pm, Room 313

Panel

How to Hire a Math Educator: Considerations for Mathematics Departments

2:00 pm - 3:20 pm, JW Grand Ballroom 2

Panel

The Art of Publishing in MAA Journals

2:00 pm - 3:20 pm, JW Grand Ballroom 3/4

Workshop

Implementing Standards-based Grading in Introductory Mathematics Courses

2:00 pm - 3:20 pm, JW Grand Ballroom 1

Minicourse*

Teaching a Service-learning-based General-education Data Literacy and Visualization Course, Part B

2:00 pm - 4:00 pm, Room 103

**Note: Minicourses require additional payment*

CHRONOLOGICAL SCHEDULE | FRIDAY

FRIDAY SCHEDULE, AUGUST 9

Minicourse*

Empowering Mathematics Mentorship: Personalized Undergraduate Research Experiences and Community Building, Part B

2:00 pm - 4:00 pm, Room 104

**Note: Minicourses require additional payment*

Minicourse*

An Actionable Approach to Alternative Grading, Part B

2:00 pm - 4:00 pm, White River Ballroom C/D

**Note: Minicourses require additional payment*

MAA Pavilion Event

Prizes & Awards Meet and Greet

2:00 pm - 3:00 pm, Exhibit Hall

Film Screening of *Journeys of Black Mathematicians: Forging Resilience*

2:30 pm - 3:45 pm, White River Ballroom E

MAA Pavilion Event

Play Backgammon

2:30 pm - 4:00 pm, Exhibit Hall

MAA Invited Paper Session

The Mathematics of Post-Quantum Cryptography

3:00 pm - 6:00 pm, JW Grand Ballroom 8

Contributed Paper Session

Inquiry-Based Learning, Part B

3:00 pm - 6:15 pm, Room 314

Contributed Paper Session

Mathematics and the Life Sciences: Initiatives, Programs, Curricula, and Activities

3:00 pm - 4:15 pm, Room 311

Poster Session

PosterFest 2024: Scholarship by Early Career Mathematicians

3:00 pm - 4:30 pm, Exhibit Hall

CHRONOLOGICAL SCHEDULE | FRIDAY

FRIDAY SCHEDULE, AUGUST 9

History of Mathematics Trivia Contest

3:00 pm - 4:00 pm, Rooms 201-203 (Student Lounge)

Contributed Paper Session

Recreational Mathematics: Puzzles, Card Tricks, Games, and Gambling, Part B

3:30 pm - 5:05 pm, JW Grand Ballroom 9

Panel

Road to the IMO/EGMO | *Sponsored by Citadel |Citadel Securities*

3:30 pm - 4:50 pm, JW Grand Ballroom 2

Panel

Building a Great Section NExT Program

3:30 pm - 4:50 pm, JW Grand Ballroom 3/4

Contributed Paper Session

Community-Focused Experiences in the Statistics or Data Science Classroom

4:00 pm - 5:55 pm, Room 309/310

Minicourse*

Game Theoretic Modeling, Part B

4:00 pm - 6:00 pm, Room 104

**Note: Minicourses require additional payment*

Minicourse*

Navigating the AI Landscape: Practical and Ethical Integration in Mathematics Education, Part B

4:00 pm - 6:00 pm, White River Ballroom C/D

**Note: Minicourses require additional payment*

Poster Session

Math Circles in Motion: A Dynamic Activity and Poster Session

4:00 pm - 7:00 pm, White River Ballroom F

Reflections on a Decade as the Editor of MAA's In Memoriam

4:00 pm - 4:25 pm, JW Grand Ballroom 5/6

CHRONOLOGICAL SCHEDULE | FRIDAY

FRIDAY SCHEDULE, AUGUST 9

A Storytelling Event: Please Pay Attention to the Person Behind the Curtain!

4:30 pm - 6:00 pm, JW Grand Ballroom 5/6

Contributed Paper Session

Environmental Science for Mathematics Students

4:30 pm - 6:05 pm, Room 311

Workshop

Preparing Future Teachers to Investigate Data with CODAP

5:00 pm - 6:20 pm, JW Grand Ballroom 1

Alder Award Session

5:00 pm - 6:20 pm, JW Grand Ballroom 3/4

SIGMAA Activity

SIGMAA on the Philosophy of Mathematics (SIGMAA POM) Business Meeting, Reception, and Guest Lecture

6:00 pm - 7:30 pm, Room 103

Why Should We Care about "Foundations"?

Timothy Bays, *University of Notre Dame*

SIGMAA Activity

SIGMAA On Statistics and Data Science Education (SIGMAA SDS-Ed) Business Meeting and Guest Lecture

6:00 pm - 7:30 pm, Room 309/310

Performance Analytics in Professional Basketball

Sarah Kessler, *Indiana Fever*

SIGMAA Activity

SIGMAA on Undergraduate Research (SIGMAA UR) Business Meeting and Guest Lecture

6:00 pm - 7:30 pm, JW Grand Ballroom 9

Within Bounds and Without Borders: Cross-pollinating the Impact of Initiative and Inclusion on Mentoring Undergraduate Research (UR)

Haseeb Kazi, *Trine University*

CHRONOLOGICAL SCHEDULE | FRIDAY

FRIDAY SCHEDULE, AUGUST 9

SIGMAA Activity

SIGMAA on Mathematics Instruction Using the Web (SIGMAA WEB) Business Meeting and Guest Lecture

6:00 pm - 7:30 pm, Room 313

An Ecosystem for Open-Source Web Technologies Serving Mathematics Instruction

Steven Clontz, *University of Southern Alabama*

SIGMAA Activity

SIGMAA on Environmental Mathematics (SIGMAA EM) Business Meeting and Guest Lecture

6:15 pm - 7:45 pm, JW Grand Ballroom 2

Navigating Sustainability in Indianapolis

Morgan Mickelson, *Director of the Office of Sustainability with the City of Indianapolis*

SIGMAA Activity

SIGMAA on Inquiry-Based Learning (SIGMAA IBL) Business Meeting

6:30 pm - 8:00 pm, Room 314

SIGMAA Activity

SIGMAA on Math Circles for Students and Teachers (SIGMAA MCST) Business Meeting

7:00 pm - 8:30 pm, White River Ballroom F

Student Dessert Reception

8:00 pm - 10:00 pm, White River Ballroom E

Project NExT Reception: Celebrating 30 Years (Open to All!)

8:30 pm - 10:30 pm, JW Grand Ballroom 5/6

CHRONOLOGICAL SCHEDULE | SATURDAY

SATURDAY SCHEDULE, AUGUST 10

Registration & Information

7:30 am - 5:00 pm, Grand Foyer East (Third Floor)

MAA Invited Paper Session

Knot Theory and Not Knot Theory

8:00 am - 11:00 am, JW Grand Ballroom 7

MAA Invited Paper Session

Celebrating 50 years of Embodied Mathematics in the Rubik's Cube

8:00 am - 12:00 pm, JW Grand Ballroom 8

Contributed Paper Session

Building Community in Mathematics Departments, Part B

8:00 am - 10:35 am, JW Grand Ballroom 9

Contributed Paper Session

New Twists on Your Favorite Math Circle Activity, Part B

8:00 am - 9:15 am, Room 309/310

Contributed Paper Session

Engaging All Students in Meaningful Mathematics and Accessibility by Design

8:00 am - 10:15 am, Room 314

Contributed Paper Session

Differential Equations Student Activities and Projects, Big and Small

8:00 am - 10:15 am, Room 313

Contributed Paper Session

How My Philosophy of Mathematics Affects My Teaching, Part B

8:00 am - 10:00 pm, Room 311

Contributed Paper Session

Teaching and Learning of Calculus, Part C

8:00 am - 10:55 am, White River Ballroom F

CHRONOLOGICAL SCHEDULE | SATURDAY

SATURDAY SCHEDULE, AUGUST 10

Panel

Building Better Bridges to Calculus

8:00 am - 9:20 am, JW Grand Ballroom 2

Workshop

Geometric Puzzles and Brain Teasers in Perspective Art

8:00 am - 9:20 am, JW Grand Ballroom 1

Minicourse*

Can We Make Grace the Norm in Our Classrooms?, Part B

8:00 am - 10:00 am, Room 103

**Note: Minicourses require additional payment*

Minicourse*

Teaching Probability and Statistics: Technology and Active Learning Approaches, Part B

8:00 am - 10:00 am, Room 104

**Note: Minicourses require additional payment*

Minicourse*

Teaching Mathematics Through Games, Part B

8:00 am - 10:00 am, White River Ballroom C/D

**Note: Minicourses require additional payment*

MAA Business Meeting

9:00 am - 10:00 am, JW Grand Ballroom 3/4

Contributed Paper Session

Teaching Flops: Learning and Adapting When Teaching Goes Astray, Part B

9:30 am - 11:45 am, Room 309/310

Workshop

The Shape of the World (s)

9:30 am - 10:50 am, JW Grand Ballroom 1

MAA Town Hall

An Overview of the New AP Precalculus Modeling Approach

9:30 am - 10:20 am, JW Grand Ballroom 2

CHRONOLOGICAL SCHEDULE | SATURDAY

SATURDAY SCHEDULE, AUGUST 10

Christine Darden Lecture

Dawn Lott, *Delaware State University*

Mapping Biological Processes for the Purpose of Decision Making

10:00 am - 10:50 am, JW Grand Ballroom 5/6

Special Session

AIME/US(J)MO Editors' Favorite Problems

10:00 am - 12:00 pm, JW Grand Ballroom 3/4

Minicourse*

Jumpstarting Your Scholarship, Part B

10:00 am - 12:00 pm, Room 103

**Note: Minicourses require additional payment*

Minicourse*

Github and Data Science for Mathematicians, Part B

10:00 am - 12:00 pm, Room 104

**Note: Minicourses require additional payment*

Minicourse*

ALPS – A Scaffolded Approach to Building an Active Classroom, Part B

10:00 am - 12:00 pm, White River Ballroom C/D

**Note: Minicourses require additional payment*

Workshop

Mathematical Games and Puzzles: Fun for All!

10:30 am - 11:50 am, JW Grand Ballroom 2

NAM David Harold Blackwell Lecture

Jacqueline Leonard, *University of Wyoming (Emerita)*

Facilitating Computational Thinking in Out-of-School Programs

11:00 am - 11:50 am, JW Grand Ballroom 5/6

Workshop

Rubik's Cube Solving Workshop

11:00 am - 12:00 pm, JW Grand Ballroom 8

The Curious Cube

12:00 pm - 1:00 pm, JW Grand Ballroom 9

CHRONOLOGICAL SCHEDULE | SATURDAY

SATURDAY SCHEDULE, AUGUST 10

Chan Stanek Ross Lecture for Students

Kobi Abayomi, *Seton Hall University and Gumbel Demand Acceleration*

What a DJ knows: Song Demand Prediction from Sound Data

1:00 pm - 1:50 pm, JW Grand Ballroom 5/6

Contributed Paper Session

Innovative and Effective Pedagogical and Technological Practices to Teach College Algebra and Pre-calculus, Part B

1:00 pm - 5:15 pm, Room 309/310

Martin Gardner Lecture

David Richeson, *Dickinson College*

A Romance of Many (and Fractional) Dimensions

2:00 pm - 2:50 pm, JW Grand Ballroom 5/6

AMS-MAA Invited Paper Session (aligned with the AMS-MAA Joint Lecture)

AI Ethics in Mathematics Departments: Navigating the Future of Research and Education

2:30 pm - 6:00 pm, JW Grand Ballroom 8

MAA Invited Paper Session

Coloring and Labeling in Graphs

3:00 pm - 6:00 pm, JW Grand Ballroom 7

MAA Invited Paper Session

Trends in Mathematical and Computational Biology, Part B

4:00 pm - 5:00 pm, JW Grand Ballroom 9

Contributed Paper Session

Research on Undergraduate Mathematics Education, Part B

3:00 pm - 5:15 pm, Room 314

Contributed Paper Session

Advances in Algebraic Topology, Part B

3:00 pm - 4:15 pm, Room 311

CHRONOLOGICAL SCHEDULE | SATURDAY

SATURDAY SCHEDULE, AUGUST 10

Panel

Career Paths in Business, Industry, and Governments

3:00 pm - 4:20 pm, White River Ballroom F

Panel

Mental Health in the Mathematics Community: Continuing the Conversation

3:00 pm - 4:20 pm, JW Grand Ballroom 2

Read the Masters! Cauchy's Limits and the Integral Defined

3:00 pm - 5:00 pm, JW Grand Ballroom 1

Deborah and Franklin Tepper Haimo Awards

3:00 pm - 4:00 pm, JW Grand Ballroom 3/4

Pre-MOAC PowerUp! | *Sponsored by Citadel | Citadel Securities*

4:00 pm - 5:00 pm, White River Ballroom C/D

Mathematical Olympiads Awards Ceremony

5:00 pm - 7:00 pm, White River Ballroom E

NOTES

NOTES



MAA
MATHFEST

2024 | INDIANAPOLIS, IN

It all starts with Math.

Join the Mathematical Association of
America (MAA) community from
August 6-9th, 2025 at the
SAFE Credit Union Convention Center in
Sacramento, CA for MAA MathFest 2025!