# Event Agenda

2026 School Science and Mathematics Association Annual Convention

## Wednesday, November 04, 2026

## Thursday, November 05, 2026

**7:00 AM - 8:45 AM**

**Breakfast**

Location: Adams Room

**8:00 AM - 8:45 AM**

**Opening Session**

Location: Adams Room

**9:00 AM - 9:50 AM**

**Morning Breakout Sessions**

**What is Happening in Mathematics Classrooms: A Call for Research**

9:00 AM - 9:50 AM
Location: Millenium Parlor
Speakers: Kate Raymond, Melissa Gunter

**Integrated STEM Design: Maintaining Conceptual Focus in Science and Coding**

9:00 AM - 9:50 AM
Location: Hancock Parlor
Speakers: Webster Wong, Anna Bloodworth, AnnaMarie Conner

**Psychological Safety in STEM Classrooms: A Scoping Review**

9:00 AM - 9:50 AM
Location: Medinah Parlor
Speaker: Megan Che

**Sorting Through Mathematics Teaching Practices: How Teachers Characterize Their Own Practice**

9:00 AM - 9:50 AM
Location: Grant Park Parlor
Speakers: Margeaux Smith, Trena Wilkerson

**Beyond Productivity: A Time Literacy Framework for Equitable Undergraduate Time Management Support**

9:00 AM - 9:50 AM
Location: Wrigley Parlor
Speaker: Darrell Earnest

**9:00 AM - 10:15 AM**

**Morning Workshops**

**LOVE MATH: A One-Cut Journey into Mathematical Discovery**

9:00 AM - 10:15 AM
Location: Water Tower Parlor
Speakers: Winnie Ko, Shannon Tassopoulos, Uzoma Eze

**Branching Out: Leveraging Outdoor Spaces to Create Authentic K-5 STEM Learning Experiences**

9:00 AM - 10:15 AM
Location: Spire Parlor
Speakers: Jelena Byers, Jessica Ivy

**10:00 AM - 10:25 AM** — **Morning Breakout Sessions**

### A Comparative Analysis and Connections Across K-12 STEM and STEAM Frameworks
10:00 AM - 10:25 AM
Location: Hancock Parlor
Speakers: Alyssa Harbin, Sarah Bush, Daniel Edelen

### From Classroom to Museum: Integrating Early Mathematics and Science Learning
10:00 AM - 10:25 AM
Location: Millenium Parlor
Speakers: Krystle Moos, Sandi Cooper

### Categorizing Non-Routine Algebra Difficulties to Support STEM Learners
10:00 AM - 10:25 AM
Location: Medinah Parlor
Speakers: Eunmi Joung, Kuo-Liang Chang

### Teaching Online Prealculus Courses Using a Flipped Instructional Model
10:00 AM - 10:25 AM
Location: Grant Park Parlor
Speakers: Sue Brown, Nelson Carter

### Investigations into Place-based Lessons in Appalachia
10:00 AM - 10:25 AM
Location: Wrigley Parlor
Speakers: Sydney Dunn, Will Tidwell

**10:35 AM - 11:00 AM** — **Morning Breakout Sessions**

### The Impact of Mathematical Justifications on Conceptual Understanding
10:35 AM - 11:00 AM
Location: Wrigley Parlor

### Preservice Elementary Teachers Self-efficacy and Perceptions of Generative AI in STEM Education
10:35 AM - 11:00 AM
Location: Hancock Parlor
Speakers: Deepika Menon, Azatzhan Baitekov, Azadeh Hassani, Amanda Henson, Drishti Takoo, Babar Bajwa

### A FRAMEWORK TO ASSESS PROSPECTIVE TEACHERS' ASSESSMENT OF STUDENT THINKING
10:35 AM - 11:00 AM
Location: Grant Park Parlor
Speakers: Nama Namakshi, Hiroko Warshauer

### Examining State Approaches to Priority Standards: A Qualitative Analysis
10:35 AM - 11:00 AM
Location: Millenium Parlor
Speaker: Ashley Schmidt

### From Fearing to Envisioning: Mathematical Discourse and Teacher Identity
10:35 AM - 11:00 AM
Location: Medinah Parlor

**10:35 AM - 11:50 AM** — **Workshop**

### Does curiosity kill the cat? Exploring complex mathematics with young learners
10:35 AM - 11:50 AM
Location: Water Tower Parlor
Speakers: Cacey Wells, Lianne Jones

### 3, 2, 1...Blast Off! Engaging Engineers in the Powerful Effects of Productive Struggle
10:35 AM - 11:50 AM
Location: Spire Parlor
Speakers: Doris Fulwider, Elizabeth Davison, Asenath Odondi

**11:10 AM - 12:00 PM** — **Morning Breakout Sessions**

### Co-Teaching for Integrated STEM: Preparing Elementary PSTs to Design and Teach Solar Energy Lessons
11:10 AM - 12:00 PM
Location: Millenium Parlor
Speakers: Bethany LeLaurin, Selina Bartels

### Rethinking Statistics Classrooms: A Quasi-Experimental Comparison of Interactive and Lecture-Based Instruction
11:10 AM - 12:00 PM
Location: Wrigley Parlor
Speaker: Brentley Bendewald

### Exploring Elementary Teachers' Mathematics Curricular Use: Focus on Vision and Trust
11:10 AM - 12:00 PM
Location: Hancock Parlor
Speakers: Doris Fulwider, Jill Newton

### Can AI (Almost Intelligence!) Actually Help In A Math Class?
11:10 AM - 12:00 PM
Location: Grant Park Parlor
Speaker: Charles Emenaker

**12:00 PM - 1:30 PM** **Lunch/Keynote: The origin of dinosaurian flight: the Archaeopteryx story**
Location: Adams Room

**1:45 PM - 2:10 PM** **Afternoon Breakout Sessions**

**Portrait of a STEM Agent: Equity-Oriented STEM Literacy in Action**
1:45 PM - 2:10 PM
Location: Spire Parlor
Speakers: Kristin Cook, Craig Schroeder, Jessica Ivy, Sarah Bush, Megan Burton, Thomas Roberts, Daniel Edelen, Margaret Mohr-Schroeder, Christa Jackson

**Changing with the Times... Two New Assignments for Mathematics Methods**
1:45 PM - 2:10 PM
Location: Wrigley Parlor
Speaker: Paula Stickles

**Preservice teachers' task design with ChatGPT for teaching math through multiple representations**
1:45 PM - 2:10 PM
Location: Grant Park Parlor
Speaker: Young Rae Kim

**Fostering Equity in STEAM Education: Preservice Teachers' Learning Through Biography Assignment**
1:45 PM - 2:10 PM
Location: Millenium Parlor
Speaker: Elizabeth N. Forde

**Impacts of a Disease Ecology PD on Teacher Self-Efficacy and Instructional Practice**
1:45 PM - 2:10 PM
Location: Medinah Parlor
Speaker: Rebekah Hammack

**Preservice Teachers' Mathematical Knowledge for Teaching: Contextual Fraction Multiplication**
1:45 PM - 2:10 PM
Location: Hancock Parlor
Speaker: Tegan Nusser

**Leveraging Experiential Learning to Deepen Understanding of the Statistical Investigation Cycle**
1:45 PM - 2:10 PM
Location: Water Tower Parlor
Speaker: Michael Daiga

**2:20 PM - 2:45 PM** **Afternoon Breakout Sessions**

**Navigating STEM Pathways: Beliefs About Mathematics and Women's STEM Identities**
2:20 PM - 2:45 PM
Location: Spire Parlor
Speakers: Nancy Holincheck, Terrie Galanti, Tiffany Butler

**Supporting Teachers' Mathematical Creativity, Content Knowledge, and Pedagogical Reasoning**
2:20 PM - 2:45 PM
Location: Water Tower Parlor
Speakers: Ali Bicer, Mehmet Akif Colak

**Bridging the Research to Classroom Gap: A Metasynthesis of K-3 Mathematical Misconceptions**
2:20 PM - 2:45 PM
Location: Hancock Parlor
Speakers: Fay Quiroz, Michelle Tudor

**My Experience Teaching Mathematics in Elementary Schools as a Substitute Teacher**
2:20 PM - 2:45 PM
Location: Grant Park Parlor
Speaker: Elaine Tuft

**Mathematics Teachers' Leadership Interactions With Affirming Learning Walks**
2:20 PM - 2:45 PM
Location: Medinah Parlor
Speaker: Angel Maldonado

**Exploring factors that support students' learning in a social justice mathematics classroom**
2:20 PM - 2:45 PM
Location: Millenium Parlor
Speakers: Waleed Raja, Nicole Fonger

**Instructional Design and Classroom Intervention in Mathematics Informed by Eye-Tracking**
2:20 PM - 2:45 PM
Location: Wrigley Parlor
Speaker: Lyndee Govert

**2:55 PM - 3:25 PM** **Afternoon Breakout Sessions**

**Elementary preservice teachers' conceptual understanding of cascading hazards and wildfire disasters**
2:55 PM - 3:25 PM
Location: Hancock Parlor
Speakers: Debika Jana, Merryn Cole

**Anti-Racist Practices of Secondary Science Teachers Disrupting Anti-Black Racism**
2:55 PM - 3:25 PM
Location: Grant Park Parlor
Speaker: Tiffany Butler

**The Use of AI in Designing Mathematics Interventions for Students with Disabilities**
2:55 PM - 3:25 PM
Location: Spire Parlor
Speaker: Mahtob Aquzade

**Building Teacher Candidatesâ€™ Mathematical Thinking Through Real World Applications**
2:55 PM - 3:25 PM
Location: Wrigley Parlor
Speaker: Atinuke Adeyemi

**Sensing Intervention Opportunities in Small-Group Mathematical Argumentation**
2:55 PM - 3:25 PM
Location: Millenium Parlor
Speakers: Jennifer Kleiman, Ngutor Tembe

**My journey with action research and problem-solving in an algebra class to link theory to practice**
2:55 PM - 3:25 PM
Location: Medinah Parlor
Speaker: Ricki McKee

**Argue with a Chatbot? Using Artificial Intelligence to Support Scientific Thinking and Reasoning**
2:55 PM - 3:25 PM
Location: Water Tower Parlor
Speaker: Yin Hong Cheah

**3:35 PM - 4:05 PM** **Fireside Chat/Snack**
Location: Adams Room

**4:15 PM - 4:40 PM** **Afternoon Breakout Sessions**

**How are early number concepts revealed through kindergarten teachersâ€™ instructional enactment?**
4:15 PM - 4:40 PM
Location: Millenium Parlor
Speaker: Andrea Martinez Bennett

**A Spiderweb in Mendel's Garden: Secondary Teacher Decision-Making When Teaching Genetics**
4:15 PM - 4:40 PM
Location: Grant Park Parlor
Speaker: Gracie Davis

**Curriculum Fidelity and the Construction of a Reform-Oriented Science Teaching Identity**
4:15 PM - 4:40 PM
Location: Hancock Parlor
Speakers: Richard Kozoll, Peter Ower

**Repositioning perspectives on STEM education methodologies & methods: A discussion with you!**
4:15 PM - 4:40 PM
Location: Water Tower Parlor
Speakers: Jonathan Bostic, Daniel Edelen, Thomas Roberts, Carlton Barker

**Instructional Coherence in Preservice Teachers' Mathematics Questioning**
4:15 PM - 4:40 PM
Location: Wrigley Parlor
Speaker: Jessie Store

**Mathematics Research Experiences and Pre-Service Teachers' Conceptions of Proof**
4:15 PM - 4:40 PM
Location: Spire Parlor
Speakers: David Barker, Oscar Chavez, Seyedehkhadijeh Azimi Asmaroud, Winnie Ko

**Grand Challenges in STEM: Replicating UTeach-Inspired Problem-Based Learning in the Legacy Cycle**
4:15 PM - 4:40 PM
Location: Medinah Parlor
Speakers: Martha Day, Melanie Owens

**4:45 PM - 5:10 PM** **Committee Meetings**

**Awards and Endowment**
4:45 PM - 5:10 PM
Location: Hancock Parlor

**Conventions**
4:45 PM - 5:10 PM
Location: Water Tower Parlor

**Finance**
4:45 PM - 5:10 PM
Location: Wrigley Parlor

**Membership**
4:45 PM - 5:10 PM
Location: Spire Parlor

**Nomination and Election**
4:45 PM - 5:10 PM
Location: Medinah Parlor

**Policy**
4:45 PM - 5:10 PM
Location: Grant Park Parlor

**Publications**
4:45 PM - 5:10 PM
Location: Millenium Parlor

**5:30 PM - 6:30 PM** **Graduate Session**
Location: Parlor Room - President's Suite - 9th floor in 142 (Tiffany Suite)

## Friday, November 06, 2026

**7:00 AM - 8:45 AM** **Breakfast**
Location: Adams Room

**7:45 AM - 8:45 AM** **Business Meeting and Awards**
Location: Adams Room

**9:00 AM - 9:50 AM** **Morning Breakout Sessions**

**Centering Mathematics: A Math-focused Integrated Stem Approach Through Digital Flowers Genetics**
9:00 AM - 9:50 AM
Location: Wrigley Parlor
Speakers: Hanan Alyami, Rebecca Palu

**Design, Test, Revise: Engineering Design with Barbie Bungee in STEM Teacher Education**
9:00 AM - 9:50 AM
Location: Medinah Parlor
Speaker: Andrea Foster

**An overview of methodologies, methods, and approaches used in integrative STEM education research**
9:00 AM - 9:50 AM
Location: Hancock Parlor
Speakers: Daniel Edelen, Jonathan Bostic, Thomas Roberts, Audrey Roberts

**Childrenâ€™s Map Drawing: Analyzing Visuospatial Reasoning Elements within a Summer Literacy Program**
9:00 AM - 9:50 AM
Location: Grant Park Parlor
Speakers: Maria Eloisa Nuguid, Comfort Aje

**Women Scholars in Mathematics and Integrated STEM: Focus on Experiences, Identities, and Resilience**
9:00 AM - 9:50 AM
Location: Millenium Parlor
Speakers: Ricki McKee, Jill Newton, Asenath Odondi

**9:00 AM - 10:15 AM** **Workshop**

**Ungrading: Undoing traditional assessment practices**
9:00 AM - 10:15 AM
Location: Spire Parlor
Speakers: Cacey Wells, Michael Daiga

**Robot Delivery: A Design Challenge for Integrated STEM and Supporting Collective Argumentation**
9:00 AM - 10:15 AM
Location: Water Tower Parlor
Speakers: Anna Bloodworth, Ngutor Tembe, Webster Wong, Jennifer Kleiman, AnnaMarie Conner

**10:00 AM - 10:25 AM** **Morning Breakout Sessions**

### History of Mathematics in the Classroom: A Focus on Cultures
10:00 AM - 10:25 AM
Location: Wrigley Parlor
Speaker: Brian Evans

### STEM SMART: Five Essential Life Skills Students Need for Their Future
10:00 AM - 10:25 AM
Location: Medinah Parlor
Speaker: Alan Zollman

### The Impact of Chessboard Math on Students Attitudes and Understanding of Multiples in Grades 4 & 5
10:00 AM - 10:25 AM
Location: Hancock Parlor
Speakers: Yun-Chi Tsou, Kaun-Chun Chen

### Learning from Student Experiences in Mathematics across the Grades
10:00 AM - 10:25 AM
Location: Grant Park Parlor
Speaker: Melissa Gunter

### A University-Based Pathway to Support STEM Majors' Exploration of K-12 Teaching
10:00 AM - 10:25 AM
Location: Millenium Parlor
Speaker: Terrie Galanti

**10:35 AM - 11:00 AM** **Morning Breakout Sessions**

### Culturally Responsive Pedagogy within Alternative Certification Math Teacher Preparation
10:35 AM - 11:00 AM
Location: Wrigley Parlor
Speaker: Brian Evans

### SSMA Outstanding Early Career Award: Mathematics Standards: Examining Policy and its Effects on Mathematics Education
10:35 AM - 11:00 AM
Location: Grant Park Parlor
Speaker: Ashley Schmidt

### Community Engaged STEM Partnerships
10:35 AM - 11:00 AM
Location: Millenium Parlor
Speakers: Jung Colen, Kristin Cook, Akhtar Mahmood

### The Influence of Girls' Positioning on the Quality of a Small-Group Scientific Argumentation
10:35 AM - 11:00 AM
Location: Medinah Parlor
Speakers: Bongjun Kim, Rebekah Hammack

### Perceptions of AI for STEM Instructional Practice: Insights from Inservice Elementary Teachers
10:35 AM - 11:00 AM
Location: Hancock Parlor
Speakers: Deepika Menon, Shanza Malik

**10:35 AM - 11:50 AM** **Workshop**

### AI Workshop for Mathematics Teachers: From Task Design to Ethical Reflective Practice
10:35 AM - 11:50 AM
Location: Spire Parlor
Speaker: Ghan Shyam Joshi

### Classroom Community under Construction
10:35 AM - 11:50 AM
Location: Water Tower Parlor
Speakers: Melissa Gunter, Jamie-Marie Miller, Katrina Rothrock

**11:10 AM - 12:00 PM** **Morning Breakout Sessions**

**From Endurance to Identity: Helping Rural Students Transform Struggle into Purpose Using STEM Education**
11:10 AM - 12:00 PM
Location: Medinah Parlor
Speakers: Ashley Gess, Emily Driggers

**Fostering Connection: Using AI to Develop Teacher Candidates' Discernment and Reflective Practice**
11:10 AM - 12:00 PM
Location: Hancock Parlor
Speakers: Thomas Roberts, Stefanie Livers

**Situated Reasoning and Math Self-Efficacy in a Dual Language Classroom**
11:10 AM - 12:00 PM
Location: Wrigley Parlor

**Principles to practice: Strategies from an equitable and effective STEM education framework**
11:10 AM - 12:00 PM
Location: Millenium Parlor
Speaker: Sean Yee

**Before the Room: Using AI to Rehearse the Mathematical Conversations That Matter Most**
11:10 AM - 12:00 PM
Location: Grant Park Parlor
Speakers: Kwaku Adu-Gyamfi, Tony Thompson

**12:00 PM - 1:30 PM** **Lunch On Your Own**

**1:45 PM - 2:10 PM** **Afternoon Breakout Sessions**

**Voices of Science Teachers and Administrators on Data-driven Instruction and Growth Mindset**
1:45 PM - 2:10 PM
Location: Wrigley Parlor

**SSMA Connections Award: STEAM Unit for Transdisciplinary Teaching - Building Green Spaces**
1:45 PM - 2:10 PM
Location: Medinah Parlor
Speaker: Jack Clines

**1901-2026: 125 years of big ideas in mathematics education from SSMA**
1:45 PM - 2:10 PM
Location: Grant Park Parlor
Speaker: Oscar Chavez

**What Makes Math Fun? Preservice Teacher and Caregiver Perspectives on Family Math Night Activities**
1:45 PM - 2:10 PM
Location: Hancock Parlor
Speaker: Kristi Martin

**Exploring One Rural Elementary Teachers' Problem Scoping Practices While Teaching Engineering**
1:45 PM - 2:10 PM
Location: Spire Parlor
Speakers: Rudan Wang, Rebekah Hammack

**Not Too Small for Big Science: Complexity and Quantum in Elementary Classrooms**
1:45 PM - 2:10 PM
Location: Millenium Parlor
Speakers: Nancy Holincheck, Jennifer Simons

**1:45 PM - 3:00 PM** **Workshop**

**Culturally Responsive Mathematics Teaching Practices Through Literacy: Exploring Mable MATHis**
1:45 PM - 3:00 PM
Location: Water Tower Parlor
Speaker: Amanda Sawyer

**2:20 PM - 2:45 PM** **Afternoon Breakout Sessions**

**Universal Design in STEM for Inclusive Early Childhood Classrooms**
2:20 PM - 2:45 PM
Location: Medinah Parlor
Speakers: Bridget Miller, Christie Martin

**Perceived Support Amongst STEM Teachers During and After COVID-19**
2:20 PM - 2:45 PM
Location: Spire Parlor
Speaker: Molly Weinburgh

**How Instructors Conceptualize Mathematical Proof in Introduction-to-Proof Courses**
2:20 PM - 2:45 PM
Location: Hancock Parlor
Speakers: Winnie Ko, Shannon Tassopoulos, Uzoma Eze

**Balancing Equations: Using Physical Models to Build Relational Thinking in Early Algebra**
2:20 PM - 2:45 PM
Location: Wrigley Parlor
Speaker: Bethany LeLaurin

**Lived Experiences of Rural STEM Teachers: A Photo Elicitation Stu**
2:20 PM - 2:45 PM
Location: Millenium Parlor
Speakers: Julie Mills, Clay Stanfield

**2:20 PM - 3:10 PM** **Afternoon Breakout Sessions**

**STEM Teachers and AI: Development and Validation of the Teacher AI Beliefs and Actions Scale**
2:20 PM - 3:10 PM
Location: Grant Park Parlor
Speakers: Nancy Holincheck, Terrie Galanti

**2:55 PM - 3:20 PM** **Afternoon Breakout Sessions**

**Stress, Growth, and Everything Between: Exploring Pre-Service Teachers' Perceptions of edTPA**
2:55 PM - 3:20 PM
Location: Millenium Parlor
Speakers: Lianne Jones, Cacey Wells

**Ethnomodeling: A vehicle for catalyzing change in mathematics teacher preparation**
2:55 PM - 3:20 PM
Location: Hancock Parlor
Speakers: S Soni, Alyssa Harbin, Trena Wilkerson

**Exploring the Transformation: Preservice Teacher Identity Shifts in an Afterschool STEM Club**
2:55 PM - 3:20 PM
Location: Spire Parlor
Speakers: Elizabeth N. Forde, Queshonda Kudaisi

**Energy for everyone: Research Meets Social Justice Lessons**
2:55 PM - 3:20 PM
Location: Wrigley Parlor
Speaker: Naomi Gutierrez

**Enhancing the Validity of Probability Prompts Using Four Generative Artificial Intelligence Tools**
2:55 PM - 3:20 PM
Location: Medinah Parlor
Speakers: Ayse Fethiye Gemci, Amanda Sawyer

**3:30 PM - 3:55 PM** **Afternoon Breakout Sessions**

**Eliciting Mathematical Thinking: Teachers' Questioning During Read-Alouds**
3:30 PM - 3:55 PM
Location: Spire Parlor
Speakers: Mahtob Aquzade, Laura Bofferding, Jelena Byers, Lisa Hawley

**Math is hard & science is scary: Addressing math & science anxiety in preservice elementary teachers**
3:30 PM - 3:55 PM
Location: Water Tower Parlor
Speakers: Merryn Cole, Travis Olson, Debika Jana, Anthony Baidoo

**On Fire or a Bear of a task: Mathematical Modeling Tasks and What's Worked For Me**
3:30 PM - 3:55 PM
Location: Wrigley Parlor
Speaker: Will Tidwell

**Representations of Mathematical Proof Across Major U.S. Standards Documents**
3:30 PM - 3:55 PM
Location: Millenium Parlor
Speaker: Seyedehkhadijeh Azimi Asmaroud

**Partnership Operationalizations and Configurations in Mathematics Education Research: Scoping Review**
3:30 PM - 3:55 PM
Location: Hancock Parlor
Speakers: Lianne Jones, Megan Che, Colleen Eddy, Trena Wilkerson, Karen Enderle

**The Precalculus Self-Efficacy Survey (PCSES): Development and Validation**
3:30 PM - 3:55 PM
Location: Grant Park Parlor
Speakers: Nelson Carter, Sue Brown

**SSMA Dissertation Award: Seeing Peers' Math Thinking: Online Videos for Fostering Student Noticing and Engagement**
3:30 PM - 3:55 PM
Location: Medinah Parlor
Speaker: Ho-Chieh Lin

**4:15 PM - 5:15 PM** **Keynote: Building the Wild Mile and rewilding Urban Rivers**
Location: Empire

**5:15 PM - 6:30 PM** **Reception and Poster Session**

Location: Empire

**Student Engagement in a Role-Play-Based Mathematics Intervention for a Third Grader with Down Syndrome**
5:15 PM - 6:30 PM
Location: Empire
Speaker: Michelle Donner

**Elementary Teacher Candidates' Perception of Developmentally Sequenced Microteaching Sessions**
5:15 PM - 6:30 PM
Location: Empire
Speaker: Jung Colen

**Paper Bags for the Chain Rule: Incorporating Manipulatives in Calculus**
5:15 PM - 6:30 PM
Location: Empire
Speaker: Jennifer Buchholz

**Mathematical Modeling-oriented integrated STEM (MoiSTEM): Conceptual Framework**
5:15 PM - 6:30 PM
Location: Empire
Speaker: Dayat Hidayat

**From Experience to Aspiration: Black Studentsâ€™ Math Identities and Pathways in De-Streamed Classroom**
5:15 PM - 6:30 PM
Location: Empire
Speaker: Chinyere Saka

**Artificial Intelligence in the Professional Development of Mathematics Teachers:A Conceptual Review**
5:15 PM - 6:30 PM
Location: Empire
Speaker: Ghan Shyam Joshi

**Improving Undergraduate STEM Self-Efficacy and Communication in Mathematics and Data Science Courses**
5:15 PM - 6:30 PM
Location: Empire
Speaker: Jesse Wilcox

**Integrating Science & Literacy: Interdisciplinary Instruction for Elementary Preservice Teachers**
5:15 PM - 6:30 PM
Location: Empire
Speakers: Bongjun Kim, Rebekah Hammack

**Navigating Disciplinary Boundaries: A Qualitative Case Study of Cross-Disciplinary Undergraduate Research in Teacher Education**
5:15 PM - 6:30 PM
Location: Empire
Speaker: Lacey Fitts

**Rewriting the Narrative: Using Music as a Tool for Math Trauma Recovery**
5:15 PM - 6:30 PM
Location: Empire

**The Role of Productive Struggle in Shaping Undergraduate Students' Attitudes and Achievement in Mathematics**
5:15 PM - 6:30 PM
Location: Empire
Speaker: Elizabeth Davison

**Examining How GenAI-Mediated Interactions Engage Preservice Teachers in Problem-Posing**
5:15 PM - 6:30 PM
Location: Empire
Speaker: Leyang (Lisa) Xu

**Teaching STEM with Primary Sources: Exploring the history and development of technology with “STEPS”**
5:15 PM - 6:30 PM
Location: Empire
Speaker: Joy Carpenter

**Ximera vs. Traditional Textbooks in Linear Algebra: Implications for Passing Rates & Course Design**
5:15 PM - 6:30 PM
Location: Empire
Speakers: Shannon Solis, Leyang (Lisa) Xu

**AI-Based Math Tools in Engineering: Perceptions & Actual Use via PLS-SEM**
5:15 PM - 6:30 PM
Location: Empire
Speaker: Truc Chi Ho

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## Saturday, November 07, 2026

**7:30 AM - 8:45 AM** **Breakfast**

Location: Adams Room

**9:00 AM - 9:25 AM** **Morning Breakout Sessions**

**Initial findings from reviewing K-12 mathematics literature focused on data visualization concepts**

9:00 AM - 9:25 AM
Location: Hancock Parlor
Speakers: Shirley Matteson, Audrey Meador

**Designing a Community-Based Bus Stop: An Integrated STEM Lesson for Middle School Students**

9:00 AM - 9:25 AM
Location: Wrigley Parlor
Speaker: Dayat Hidayat

**STEM Career Changers and Critical Reflection: Identity, Practice, and Equity**

9:00 AM - 9:25 AM
Location: Medinah Parlor
Speaker: Jennifer Simons

**National Science Foundation funding: Current opportunities for STEM education research**

9:00 AM - 9:25 AM
Location: Millenium Parlor
Speaker: Jonathan Bostic

**Authenticity in High School Mathematics: Negotiations, Tensions, and Classroom Realities**

9:00 AM - 9:25 AM
Location: Grant Park Parlor
Speaker: Margeaux Smith

**SSMA Award for Excellence: STEM Rocks**

9:00 AM - 9:25 AM
Location: Spire Parlor
Speakers: Margaret Mohr-Schroeder, Craig Schroeder, Megan Burton, Thomas Roberts, Kristin Cook, Jessica Ivy, Christa Jackson, Sarah Bush

**9:00 AM - 10:15 AM** **Workshop**

**Hands-on Math for Environmental Problem Solving: Making Real-World Connections**

9:00 AM - 10:15 AM
Location: Water Tower Parlor
Speaker: Jamie-Marie Miller

**9:35 AM - 10:00 AM** **Morning Breakout Sessions**

**Mapping the Landscape of Environmental Education Professional Development**

9:35 AM - 10:00 AM
Location: Medinah Parlor
Speaker: William Thornburgh

**Exploring the Relationship among Mathematical Writing, Number Talks, and Strategy Use**

9:35 AM - 10:00 AM
Location: Hancock Parlor
Speakers: Christie Martin, Kristin Harbour, George Roy

**Science PD and Problem-Based Learning: Effects on Student Efficacy, Interest, and Motivation**

9:35 AM - 10:00 AM
Location: Grant Park Parlor
Speakers: Martha Day, Michael Starling

**Beyond Computational Thinking: Preservice Teachers' Perceptions of Bio-Inspired Robots for K-6 STEM**

9:35 AM - 10:00 AM
Location: Millenium Parlor
Speaker: Deeksha Seth

**10:10 AM - 10:35 AM** **Morning Breakout Sessions**

### A Structural Equation Modelling of STAAR Science Performance for Equitable Learning Outcomes
10:10 AM - 10:35 AM
Location: Grant Park Parlor

### Learning Science in Action: Using Examples and Non-Examples to Deepen Math and Science Understanding
10:10 AM - 10:35 AM
Location: Millenium Parlor
Speakers: Andrea Foster, Kristi Martin

### InCREDible Decisions: Investigating a Teacher's Changes to Their Lesson Plan in Enactment
10:10 AM - 10:35 AM
Location: Hancock Parlor
Speakers: Alisa Chung, Rebekah Hammack

### Investigating Factors Impacting Preservice Elementary Teachers iSTEM Identity Development
10:10 AM - 10:35 AM
Location: Spire Parlor
Speakers: Azadeh Hassani, Fatemeh Ashrafabadi, Deepika Menon, Amanda Henson

### Rehumanizing Mathematics Classrooms: Empowering Problem Solvers through Affective Pedagogies
10:10 AM - 10:35 AM
Location: Wrigley Parlor
Speaker: Asenath Odondi

### Problem Posing as Instruction for Creativity: Thinking Classrooms vs. Structured Taxonomies
10:10 AM - 10:35 AM
Location: Medinah Parlor
Speaker: Mehmet Akif Colak

**10:45 AM - 11:10 AM** **Morning Breakout Sessions**

### The Landscape of Environmental Education Providers in the Southeastern USA
10:45 AM - 11:10 AM
Location: Hancock Parlor
Speaker: William Thornburgh

### Elementary Students' Progression of Written Mathematical Arguments
10:45 AM - 11:10 AM
Location: Spire Parlor
Speakers: Madelyn Colonnese, Christie Martin

### From Sensors to Speed: Two Motion-Based Activities for Proportional Reasoning
10:45 AM - 11:10 AM
Location: Wrigley Parlor

### Weaving Ethnomodeling into Mathematics Teacher Education
10:45 AM - 11:10 AM
Location: Millenium Parlor
Speaker: S Soni

### Success and Challenges of developing STEM Teachers in High-Needs School Districts
10:45 AM - 11:10 AM
Location: Water Tower Parlor

### Taking Stock of Opportunities to Learn Time in Elementary Math and Science
10:45 AM - 11:10 AM
Location: Grant Park Parlor
Speakers: Darrell Earnest, Amy Smith