



## RCML 53<sup>rd</sup> Annual Conference

Alexis Park All-Suite Resort  
Las Vegas, NV

### CONFERENCE EVENTS AT A GLANCE MARCH 5-7, 2026

*All times are listed in Pacific Standard Time (PST)*

#### **Thursday, March 5, 2026**

- 11:00 AM–2:00 PM Pre-Conference: RCML Board of Directors Meeting
- 2:00–3:00 PM Pre-Conference: RCML Publications Committee Meeting
- 3:00–6:00 PM Registration Table  
*Zeus Foyer*
- 3:30–5:00 PM Poster Session and Reception (with heavy hors d'oeuvres)  
*Zeus Ballroom*
- 5:15–6:30 PM **FOUNDERS LECTURE**  
*Zeus Ballroom*

#### **Friday, March 6, 2026**

- 8:00 AM–5:00 PM Registration Table  
*Apollo Foyer*
- 8:00–8:50 AM Continental Breakfast  
*Apollo Corridor*
- 9:00–10:50 AM Breakout Sessions 1–3  
*Apollo 1–8*
- 11:00 AM–12:50 PM Lunch and RCML Business Meeting  
*Apollo 1–8*
- 1:00–3:30 PM Breakout Sessions 4–6  
*Apollo 1–8*
- 3:30–4:00 PM Networking Break  
*Zeus Ballroom*
- 4:00–5:00 PM **WILSON MEMORIAL LECTURE**  
*Zeus Ballroom*

#### **Saturday, March 7, 2026**

- 7:00–11:00 AM Registration table  
*Apollo Foyer*
- 7:00–7:50 AM Continental Breakfast  
*Apollo Corridor*
- 8:00–10:50 AM Breakout Sessions 8–10  
*Apollo 1–8*
- 11:00 AM–12:00 PM Lunch & Closing  
*Apollo Corridor*

---

# Event Agenda

2026 53rd Annual Conference of the Research Council on Mathematics Learning (RCML)

---

## Thursday, March 05, 2026

11:00 AM - 2:00 PM

### RCML Board Meeting

Location: Executive Board Room

2:00 PM - 3:00 PM

### RCML Publications Committee Meeting

Location: Parthenon 5

3:00 PM - 6:30 PM

### Registration

3:30 PM - 5:00 PM

### Poster Session and Welcome Reception

Location: Zeus Ballroom

#### **Mixin' It Up: The Effects of Interdisciplinary Project Assessments on Students' Dispositions for Learning Mathematics**

3:30 PM - 5:00 PM

Speakers: DeNae Bumpus, DeNae Bumpus

#### **Advancing STEM Student Success - Strategies for Equitable Placement, Support and Completion**

3:30 PM - 5:00 PM

Speakers: Robert Chen, Bala Sethu Raja

#### **The Use of Assistive Technology in Inquiry-Based Learning to Increase Engagement of Students with Disabilities**

3:30 PM - 5:00 PM

Speakers: Erin Musil, Gabriel Matney

#### **Beyond the Clicks: Linking Teacher Engagement Dimensions to Learning Outcomes in an Online Math PL Platform**

3:30 PM - 5:00 PM

Speakers: John Ojeogwu, Erin Smith

#### **Examining how RCML session topics have evolved over the years**

3:30 PM - 5:00 PM

Speaker: Penelope Shih

#### **How PSTs are Transformed After Learning Through an Inquiry-Based Curriculum.**

3:30 PM - 5:00 PM

Speakers: Ashley Wallster, Gabriel Matney

#### **Reflective Practice with GoReact: Strengthening Teaching through High-Leverage Practices**

3:30 PM - 5:00 PM

Speakers: Kellee Watkins, Eriell Ford, Cora Cohen-Barnes, Sarah Felder, Sydney Shepherd, Danielle Cook, Tyrette Carter

#### **Culturally Responsive Teaching: Perspectives of International Mathematics Graduate Teaching Assistants**

3:30 PM - 5:00 PM

Speaker: Bernard Yeboah

5:15 PM - 6:30 PM

### Founders Lecture - RCML Yesterday, Today, and Tomorrow: A Fireside Conversation with Founders and Past Presidents

Location: Zeus Ballroom

Speakers: Virginia Usnick, Jon Engelhardt, William Speer, Travis Olson, Kay Wohlhuter

---

## Friday, March 06, 2026

8:00 AM - 9:00 AM

### Continental Breakfast

Location: Apollo Corridor

8:00 AM - 5:00 PM

### Registration

Location: Apollo Foyer

- 9:00 AM - 9:50 AM**      **Reigniting Joy, Agency, and Belonging: How Math Teachers' Circle Summer Immersion Empower Educators**  
Location: Apollo 1  
Speaker: Rashmi Singh ; Co-speaker: Sloan Despeaux
- 9:00 AM - 9:50 AM**      **The Uneven Influence of Math Apps: Findings from an Exploratory Multiple-Case Study**  
Location: Apollo 2  
Speaker: Micah Swartz
- 9:00 AM - 9:50 AM**      **A curriculum theory consideration of AI's impact on the future of mathematics education**  
Location: Apollo 3  
Speaker: Nickolaus Ortiz
- 9:00 AM - 9:50 AM**      **History of Mathematics in the Classroom: A Focus on Cultures**  
Location: Apollo 4  
Speaker: Brian Evans
- 9:00 AM - 9:50 AM**      **College Students' Perceptions of Assisted Oral Exam Formats**  
Location: Apollo 5  
Speakers: Ryan Fox, Maria Neophytou-Foster
- 9:00 AM - 9:25 AM**      **The Juxtaposition Regarding Levels of Mathematics Anxiety Before/After Teaching Experience**  
Location: Apollo 7  
Speaker: Gina Gresham
- 9:30 AM - 9:55 AM**      **WINEM: Designing an Intervention for Writing Elementary Mathematical Explanations**  
Location: Apollo 7  
Speaker: Erin Smith ; Co-speaker: Alyssa Kantzabedian, John Ojeogwu
- 10:00 AM - 10:50 AM**      **Fostering Mathematical Creativity in Pre-Service Teachers Through Problem-Posing and Divergent Thinking**  
Location: Apollo 1  
Speaker: James Fetterly
- 10:00 AM - 10:50 AM**      **Large Language Models (LLMs) as Epistemic Collaborators in Mathematics Education**  
Location: Apollo 2  
Speaker: Kwaku Adu ; Co-speaker: Tony Thompson
- 10:00 AM - 10:50 AM**      **AI Responses to Mathematics Problems and Educator Responses to AI Availability**  
Location: Apollo 3  
Speaker: Bill McGalliard
- 10:00 AM - 10:50 AM**      **Secondary Students' Strategies for Finding the Distance Between Two Points**  
Location: Apollo 4  
Speaker: Angela Just ; Co-speaker: Karen Zwanch
- 10:00 AM - 10:25 AM**      **Preservice Teacher's Perceived Confidence in a Mathematics Lesson Study Lab**  
Location: Apollo 5  
Speaker: Oliver Soper ; Co-speaker: Gabriel Matney
- 10:00 AM - 10:25 AM**      **Using Digital Mathematics Curricula Website to Impact Preservice Elementary Teacher Instruction**  
Location: Apollo 7  
Speaker: Ann Wheeler ; Co-speaker: Steve Rhine, Shannon Driskell, Rachel Harrington
- 10:30 AM - 10:55 AM**      **Number Talks as Spaces of Becoming for Preservice Teachers**  
Location: Apollo 5  
Speaker: Hilary Tanck
- 10:30 AM - 10:55 AM**      **Mathematics Self-Efficacy and Math Achievement of African American Males in Eighth Grade Algebra I**  
Location: Apollo 7  
Speaker: Sue Brown
- 11:00 AM - 12:50 PM**      **Lunch and Business Meeting**  
Location: Zeus Ballroom

- 1:00 PM - 1:25 PM**      **Understanding Proof: Views from Pre-Service Secondary Mathematics Teachers and Instructors**  
Location: Apollo 1  
Speaker: Winnie Ko
- 1:00 PM - 1:25 PM**      **Designing for AI-driven self-directed learning in math: A mixed methods study of pre-service teachers' emerging competence**  
Location: Apollo 3  
Speaker: Xiongyi Liu
- 1:00 PM - 1:25 PM**      **Teacher Knowledge and Implementation of Mathematics Teaching Practices**  
Location: Apollo 4  
Speaker: Aaron Trocki
- 1:00 PM - 1:25 PM**      **Teachers' curricular reasoning: What aspects do undergraduate math and math education students value in their learning?**  
Location: Apollo 5  
Speaker: John Hathaway ; Co-speaker: Rebekah Partington, Dawn Teuscher
- 1:00 PM - 1:25 PM**      **Student Perceptions of Math Teaching and Treatment Across Academic Pathways**  
Location: Apollo 7  
Speaker: Kristian Edosomwan
- 1:30 PM - 2:20 PM**      **Examining Changes in College Student Mathematical Beliefs in an Outcome-Based Grading System**  
Location: Apollo 1  
Speaker: Travis Mukina
- 1:30 PM - 2:20 PM**      **AI-Mediated Math Personification: Teachers' Identities Reimagined**  
Location: Apollo 2  
Speaker: Tracey Howell ; Co-speaker: Rashmi Signh
- 1:30 PM - 2:20 PM**      **Scrutinous Sabbatical**  
Location: Apollo 3  
Speaker: Rachel Bower
- 1:30 PM - 2:20 PM**      **Mathematics and Reading Content Pedagogy: A Practice-Based Teacher Education Approach**  
Location: Apollo 4  
Speaker: Tyrette Carter ; Co-speaker: Kellee Watkins, Ashley Tyler, Khaleah Smith, Danielle Cook, Cora Cohen-Barnes, Eriell Ford
- 1:30 PM - 2:20 PM**      **Psychological Safety in Mathematics Classrooms: A Scoping Review**  
Location: Apollo 7  
Speaker: Megan Che
- 1:30 PM - 1:55 PM**      **From Errors to Reasoning: Error Analysis in Algebra 1 Curriculum and "Mathematical Debugging"**  
Location: Apollo 5  
Speaker: Hayoon Park
- 2:00 PM - 2:25 PM**      **"Examining Power and Privilege in HBCU Preservice Teachers' Math Journeys: A Self Reflection"**  
Location: Apollo 5  
Speaker: Tina Mitchell
- 2:30 PM - 3:20 PM**      **Working collaboratively across School Personnel, Researchers, and Evaluators**  
Location: Apollo 1  
Speaker: Jonathan Bostic ; Co-speaker: Gabriel Matney
- 2:30 PM - 3:20 PM**      **Preservice Teachers' Reasoning About Area With Non-Standard Units in Technology Context**  
Location: Apollo 3  
Speakers: Dittika Gupta, Colleen Eddy
- 2:30 PM - 3:20 PM**      **Supporting Productive Struggles with Dynamic Tools for Equitable Statistics Learning**  
Location: Apollo 4  
Speaker: Yaomingxin Lu

- 2:30 PM - 3:20 PM**      **Andragogy in Practice in Mathematics Teacher Professional Development**  
Location: Apollo 7  
Speaker: Sarah Pratt
- 2:30 PM - 2:55 PM**      **Exploring the relationships between various factors and the number of teaching moves PSTs intend to make**  
Location: Apollo 5  
Speaker: Sam Rhodes
- 3:00 PM - 3:25 PM**      **AI in Mathematics Instruction: Beneficial or Hindrance?**  
Location: Apollo 2  
Speaker: Veena Paliwal ; Co-speaker: Sonal Patel
- 3:00 PM - 3:25 PM**      **Mathematics Education for the Mid-21st Century: A New Vision**  
Location: Apollo 5  
Speaker: Brian Evans
- 3:30 PM - 4:00 PM**      **Networking Break**  
Location: Zeus Ballroom
- 4:00 PM - 5:00 PM**      **Wilson Memorial Lecture - Earth, Air, Water, Fire, and Numbers: A Math Major's Journey to Becoming a Hydrologist**  
Location: Zeus Ballroom  
Speaker: Gabrielle Boisrame

## Saturday, March 07, 2026

- 7:00 AM - 8:00 AM**      **Continental Breakfast**  
Location: Apollo Corridor
- 8:00 AM - 11:00 AM**      **Registration**  
Location: Apollo Foyer
- 8:00 AM - 8:50 AM**      **Efficacy of Strategies and Algorithms for Multidigit Multiplication**  
Location: Apollo 1  
Speaker: Karl Kosko ; Co-speaker: Temitope Egbideyi, Sanampreet Gill
- 8:00 AM - 8:50 AM**      **Thinging in the mathematics classroom: Exploring a materialist-engagement approach**  
Location: Apollo 2  
Speaker: Carlos Nicolas Gómez Marchant
- 8:00 AM - 8:50 AM**      **Developing Graduate Instructors' Computational Thinking in Undergraduate Mathematics**  
Location: Apollo 4  
Co-speaker: Rashmi Signh, Tracey Howell
- 8:00 AM - 8:50 AM**      **Effect of Distance Learning During Covid on Underserved High School Students**  
Location: Apollo 5  
Speaker: Carryn Warren
- 8:00 AM - 8:25 AM**      **Teaching with AI: Supporting Student Thinking and Rethinking Assessment**  
Location: Apollo 3  
Speaker: Jose Espinosa
- 8:00 AM - 8:25 AM**      **Understanding vs. Teaching: How Secondary Mathematics Teachers Choose Proofs**  
Location: Apollo 7  
Speaker: Winnie Ko ; Co-speaker: Oscar Chavez, David Barker
- 8:30 AM - 8:55 AM**      **Secondary Mathematics Preservice Teachers' Understanding of Curricular Reasoning and Connections to Their Coursework**  
Location: Apollo 3  
Speaker: Rebekah Partington ; Co-speaker: John Hathaway, Dawn Teuscher

- 8:30 AM - 8:55 AM**      **To change how you teach is not enough: The need for innovative grading strategies in concert with innovative instructional strategies**  
Location: Apollo 7  
Speaker: Melinda Lanius
- 9:00 AM - 9:50 AM**      **Middle Grades Teacher's Integration of a Desmos Activity Examined Through Curricular Reasoning and the Instructional Pyramid**  
Location: Apollo 1  
Speaker: Travis Olson ; Co-speaker: Dawn Teuscher
- 9:00 AM - 9:50 AM**      **Impact of Image Use in Mathematical Problem Solving**  
Location: Apollo 4  
Speaker: Gabriel Matney ; Co-speaker: Alex Bajwa, Jonathan Bostic
- 9:00 AM - 9:25 AM**      **Using Case Studies to Support Preservice Teachers in Eliciting and Extending Student Mathematical Thinking**  
Location: Apollo 2  
Speaker: Jessie Store
- 9:00 AM - 9:25 AM**      **A Study of Secondary Students' Perception of a Summer STEM Camp**  
Location: Apollo 3  
Speaker: Colleen Eddy
- 9:00 AM - 9:25 AM**      **Utilizing Student Perspectives to Inform Spatial Reasoning Assessment Measurements**  
Location: Apollo 5  
Speaker: Kathleen Roberts
- 9:00 AM - 9:25 AM**      **Recognizing the Potential and Examples of a Black-Language Informed Mathematics Discourse**  
Location: Apollo 7  
Speaker: Nickolaus Ortiz
- 9:30 AM - 9:55 AM**      **Designing Integrated STEM Professional Development: Enhancing Teacher Knowledge in Mathematics through Nanotechnology Contexts**  
Location: Apollo 2  
Speaker: Teruni Lamberg
- 9:30 AM - 9:55 AM**      **The Impossible Dream: Revolutionizing Math Education Through Virtual Reality**  
Location: Apollo 3  
Speaker: Shenelle Abraham-Ndiaye
- 9:30 AM - 9:55 AM**      **Mapping Mathematical Literacy Research: Computational Analysis of Two Decades**  
Location: Apollo 5  
Speaker: Seoyeon Park
- 9:30 AM - 9:55 AM**      **The Development of Metacognitive Training Agents to Support Problem Solving**  
Location: Apollo 7  
Speaker: Sam Rhodes
- 10:00 AM - 10:50 AM**      **Investigating the Effects of Problem-Posing and Divergent-Thinking on Mathematical Creativity**  
Location: Apollo 1  
Speaker: James Fetterly
- 10:00 AM - 10:50 AM**      **Influence of a Summer STEM Program on Two-Year Participants**  
Location: Apollo 2  
Speaker: Lynda Wiest ; Co-speaker: Heather Crawford, Allison Crawford
- 10:00 AM - 10:50 AM**      **Strategies that Help Students Achieve Equitable Outcomes in Statistics**  
Location: Apollo 3  
Speaker: Bala Raja ; Co-speaker: Tracy Nguyen, Alfie Swan, Toros Berberyan
- 10:00 AM - 10:50 AM**      **Transforming Calculus Education to Enhance Self-Efficacy for Diverse Learners**  
Location: Apollo 5  
Speaker: Yaomingxin Lu

**10:00 AM - 10:25 AM**

**Modified Reading Comprehension Strategies and Mathematics Word Problem Solving**

Location: Apollo 7

Speaker: Jean Mistele

**10:30 AM - 10:55 AM**

**Examining mathematical autobiographies and visual solution strategies in online mathematics for elementary teacher coursework**

Location: Apollo 7

Speaker: Sinead Pelleschi ; Co-speaker: Carryn Warren, Travis Olson

**11:00 AM - 12:00 PM**

**Lunch and Closing Session**

Location: Apollo Corridor