RCML

Intersection Points Newsletter

The Newsletter of the Research Council on Mathematics Learning

**August – September 2022
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The Research Council on Mathematics Learning seeks to stimulate, generate, coordinate, and disseminate research efforts designed to understand and/or influence factors that affect mathematics learning.

In this month's update...

Visit the RCML website by clicking here.

Message from our President

Welcome Back to Fall: 50th Annual Meeting - Spring 2023!

Fellow members of the Research Council on Mathematics Learning, as fall terms draw close at our institutions I invite you to take moments of gratitude, excitement, and anticipation for our organization! Personally, in reflecting on what I understand to be some generalized history around the time of the founding of RCML, I am deeply grateful that this organization was founded. During a time of turmoil in our societal understandings of mathematics, mathematical structures, and what it means to educate ourselves as a society in such mathematical structures, RCML held its first annual meetings. Throughout the 1960s and early 1970s, quite novel approaches to the development of mathematical ideas in mathematics curriculum were attempted. Some of the more well-known mathematics curriculum of the 1960s, simply for illustration, were the University of Illinois Committee on School Mathematics (UICSM), the School Mathematics Study Group (SMSG), and the Nuffield Project (in the United Kingdom). Many of these projects culminated around, or soon after, the Research Council on Diagnostic and Prescriptive Mathematics (RCDPM) held its first Annual meeting in 1974. According to the History page of the RCML webpage (https://www.rcml-math.org/history), areas identified as important in the mid-1970s to this group of scholars were:

- Synthesize innovative approaches.
- Create insightful diagnostic instruments.
- Create diagnostic techniques.
- Develop new and interesting materials.
- Examine research reporting strategies.

Taken in the context of the revolutionary mathematical materials produced post-1957, and in my impression the intense social response to "New Math,"my perception is that RCDPM must have served a deeply important role in those scholars' lives at a time when "Back to Basics" was taking root. Looking at our history, it is clear to me that, purposefully or not, RCML has served as an organizing body for scholars who believe there is more to mathematics and mathematical learning than "the basics;" that we must seek to teach and learn more than the basics for our own good within democratic (i.e., self-governing) societies.

Looking at our publications and history invariably creates excitement for me. This is especially important for me as we approach another fall term. The excitement generated for me by the products that our membership contributes to the field will absolutely spill over into my classrooms this fall. My colleagues' work, research, perspectives, and curiosities will be shared with my students, and the discussions that follow will contribute meaningfully to the building of each of our schemata throughout the fall term. It is the excitement that I know I will get to experience other individual human beings' learning.

Finally, throughout this fall I will be anticipating our coming annual meeting in Las Vegas, NV from March 2-4, 2023! This meeting will be the 50th Annual Celebratory Meeting of RCML, an entirely deserved celebration. This organization was founded during a moment in our history that in my perspective was quite turbulent politically and socially (Nixon having resigned in 1974), as well as in ways a society defines learning mathematics. I have deep gratitude, but completely insufficient appreciation for what our founders and early members went through during the early years of RCDPM to secure this organization so that it would remain to celebrate a 50th Annual Meeting. I am deeply honored to be the President of this incredible organization with a breathtakingly rich history and deep commitment to seeking understanding of the mathematical and the learning of the mathematical. I very much look forward to seeing our membership at our celebration in March 2023!

Dr. Travis A. Olson, Ph.D.
President - Research Council of Mathematics Learning
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REFLECTING ON THE PAST,
REFRACTING INTO THE FUTURE

50TH ANNUAL CONFERENCE OF THE
RESEARCH COUNCIL ON MATHEMATICS
LEARNING (RCML)

Call for Proposals

RCML

WHEN/ MARCH 2-4, 2023
WHERE/ ALEXIS PARK RESORT
375E. HARMON AVE LAS VEGAS,
NV 89169

PROPOSALS DUE BY SUNDAY
SEPTEMBER 4, 2022

https://www.rcml-math.org/upcoming-conference-call-for-proposals

Call for Proposals - Click here!

The **50th Annual Conference** of the Research Council on Mathematics Learning (RCML) will be held in **Las Vegas, Nevada, March 2–4, 2023** at the Alexis Park All-Suite Resort. Refracting is defined as serving or tending to refract or turning from a direct course. Hence this year's conference theme is: Reflecting on the Past, Refracting into the Future. This year we hope to reflect on our past as we direct our path into the future, rather than maintaining the status quo. The purpose of the RCML conference is to share current research in mathematics education, and within this context we ask all potential presenters to submit scholarship that reflects on the past and provides directions for the future of mathematics learning. RCML prides itself on supporting faculty and advanced graduate students as they report on finished findings, share about works-in-progress, and engage in and be receptive to constructive comments on preliminary framings/findings.

We will be accepting proposals soon! Please be prepared to address how your proposed research addresses the organization's mission, as stated here:

The Research Council on Mathematics Learning seeks to stimulate, generate, coordinate, and disseminate research efforts designed to understand and/or influence factors that affect mathematics learning.

Speaker proposals must be submitted no later than Sunday, September 4, 2022.

2023 Conference Proceeding

The new Proceedings editorial team: Editor, Georgia Cobbs, Co-Editor, Dennis Kombe, and Graduate Assistant, Huntir Bass — invite you to submit a paper for review for the RCML 2023 Conference Proceedings. Submissions are due on October 31, 2022. The RCML Conference Proceedings are double-blind peer reviewed. Using the proceedings submission format requirements posted on the RCML website, submit your paper for review to rcmlproceedings@gmail.com with "2023 proceedings submission" in the subject line. Please review the requirements for submission here. We look forward to your submission! The timeline is:

We Welcome Huntir Bass, Graduate Assistant for RCML 2023 Conference Proceedings

RCML and the RCML Publications Committee welcomes Huntir Bass to our team! Huntir is our new graduate assistant for the 2023 Conference Proceedings. Huntir is starting her third year of her PhD in Mathematics at the University of Central Florida in Orlando, Florida. She will earn her MS in Mathematics at the end of this summer en route to her PhD. She is also a graduate teaching assistant/associate for the University.

Review Timeline:	
Decisions of acceptance of speaking proposals disseminated	10/01
Submission of proceedings paper due	10/31
Blinded papers to reviewers	11/16
Completion of Reviews	11/30
Papers with reviewer comments returned to authors	12/20
Paper with edits in the Revise and Resubmit category & needing additional reviews	12/28
Paper with edits due back to editor	01/15
All proceedings edited and in final form	02/20

Interested in helping out with the Proceedings? Consider becoming a reviewer! The editorial team is always in need of reviewers for the publication. Invitations will be forthcoming. Any questions, please email rcmlproceedings@gmail.com.

Mathematical modeling is Huntir's biggest research interest because it provides insight on a real-world scenario through the lens of mathematical representation. Her thesis topic was "Mathematical Model of Giraffe Population Dynamics" where she formulated various mathematical models describing the social structure of giraffes. There are some giraffe subspecies whose populations are declining, so this research could create a solution to this problem. Huntir has also conducted mathematical modeling research with a focus on epidemiology, specifically the Varicella Zoster Virus, which is responsible for both Chicken Pox and Shingles.

Over the last few years, Huntir has conducted mathematics education research with Dr. Ryan Fox, a professor at Belmont University. Under his leadership and guidance, Huntir learned (and continues to learn) the ways to become a better mathematics educator.

Please join us as we welcome Huntir to this new opportunity with the RCML Conference Proceedings team. This is a great opportunity for him to work behind the scenes to help produce our 50th Anniversary Conference Proceedings.

2023 RCML Memorial Scholarships for the
Celebratory 50th Annual Meeting in Las Vegas
Applications Due September 15, 2022

Recognizing the importance of supporting the professional development of both non-tenured faculty members and graduate students through scholarships, in March 2022, the Executive Committee of RCML in conjunction with an offer from Dr. William R. Speer, approved five (5) scholarships for our Celebratory 50th Annual Meeting in Las Vegas, Nevada! These scholarships will entail a doubling of our annual graduate student and non-tenured faculty member scholarships (2 of each). Additionally, a Golden Scholarship for the Celebratory 50th Annual Meeting in Las Vegas will include a full scholarship to attend and celebrate this important milestone of the Research Council on Mathematics Learning!

Through the four Memorial Scholarships, both non-tenured faculty members and graduate students will be able to engage in professional activities at the annual conference by applying the scholarship toward their conference expenses. Four scholarships will be awarded in the amount of $750 each. These awards are given in honor of the dedication, mentorship, and service of Bill and Marjorie Speer to the membership of RCML.

Through the Golden Scholarship for the Celebratory 50th Annual Meeting in Las Vegas, the recipient will be able to fully have their conference, lodging, and travel expenses covered by the Research Council on Mathematics Learning in conjunction with Dr. William R. Speer. The Executive Committee will first screen the entire applicant pool (graduate and non-tenure applicants) and determine a recipient for this unique scholarship. The applicant pools will then be passed along to the scholarship selection committee for consideration of the four Memorial Scholarships offered for this celebratory event.

To Qualify
Graduate Student
A potential awardee for this Graduate Student scholarship must:

- Be a current graduate student,
- Have been a member of RCML for at least one year,

- Be a non-tenured faculty member whose current appointment is a tenure-track position at a college or university,
- Be a current member of RCML (encompassing both 2022 and 2023 membership years),
- Have not been previously awarded an RCML Memorial Scholarship,
- Have attended at least one RCML conference prior to application submission. Preference will be given to a candidate who has presented at least one time,
- Submit a current curriculum vitae for review, and articulate one's research agenda as a summary of this curriculum vitae, and
- Must have a presentation session proposed for the Celebratory 50th Annual Meeting in Las Vegas, NV.

To Apply
Graduate Student
A candidate for this scholarship must be nominated by a current RCML member. To nominate a graduate student for this reward, a current member must send:

1. A letter of nomination that describes how the nominee deserves to receive this award and whether (and how) the nominator believes this graduate student will continue to engage in professional activities through participation with RCML.
2. One additional letter of support from a current RCML member.
3. Both letters should be attached to an email and sent to the chair of the selection committee, Sarah Pratt, to Sarah_Pratt@baylor.edu.

Non-Tenured Faculty Member
A candidate for this scholarship is to submit a Word document or PDF that includes the following:

1. Name, Current Employment Institution, Mailing Address, Email Address, Office Phone Number, Cell Phone Number, and Years Attended an RCML Conference (including whether he/she was a speaker).
2. Title of 2023 Proposed Conference Presentation and 50-word abstract of the session.
3. An essay that explains how the applicant's research relates to the Mission of RCML: This should be an approximate 300-word elaboration of how the candidate's current line of research contributes to the RCML mission statement: RCML seeks to stimulate, generate, coordinate, and disseminate research efforts designed to understand and/or influence factors that affect mathematics learning. The final paragraph is to affirm how the 2023 conference presentation will contribute to the candidate's research agenda.
4. A copy of the applicant's current vita.
5. A copy of #1-4 should be attached to an email and sent to the chair of the selection committee, Sarah Pratt, at

Sarah_Pratt@baylor.edu.

Award – Four Awardees will receive $750. One Awardee will receive full support for conference, lodging, and travel expenses.
Deadline – All applications must be submitted on or before September 15, 2022.
Information about these awards are also located at the RCML website (http://www.rcml-math.org/awards-and-scholarships).

James W. Heddens Distinguished Service Award

Description
The Research Council on Mathematics Learning recognizes notable and extensive service to the mathematics education community and the RCML organization with the James W. Heddens Distinguished Service Award. Potential awardees are those who have been a member of RCML for at least ten (10) years and who have shown substantial participation and leadership in RCML activities, such as serving as an officer, contributing innovative ideas, presenting papers and presentations at meetings, working on committees, organizing conferences, and reviewing for the journal. Nominations for this award must come from current members of RCML.

Required for Consideration
To nominate an individual for this reward, an RCML member must send:
A letter of nomination describing the nominee's contribution to RCML, along with supporting information as available.
Two (2) additional letters of support, including one (1) from an RCML President, past or present, and one (1) other RCML Board member, past or present.

Timing
The award will be announced each year through email, social media, and newsletter, beginning on August 15, with a submission deadline of October 15. Awardees will be notified no later than December 15 for recognition at that year's annual meeting.

Selection Process
All letters of nomination and letters of support are to be submitted directly to the current President of RCML. The RCML Board of Directors is responsible for determining whether an award is to be given for the year and, if so, for selecting the awardee. The criteria for selecting the awardee of the Heddens Distinguished Service Award includes:
- Strength of the nomination letter (and supporting materials, as applicable)
- Strength of letters of support
- Scope of service of the nominee
- Impact of service of the nominee, as determined by the Board of Directors, after having reviewed all letters and materials

Awardee
The awardee will receive recognition at the annual meeting, including presentation of a plaque and a gift card. This award may be given annually.

Upcoming Conferences and Meetings

2022
International Group for Mathematical Creativity and Giftedness (IGMCG) - September 25 – 28, Las Vegas, NV
National Council of Teachers of Mathematics Annual Meeting (NCTM) - September 28 – October 1, Los Angeles, CA
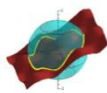School Science and Mathematics Association Annual Meeting (SSMA) - October 27 – October 29, Missoula, MT
Psychology of Mathematics Education (PME-NA) - November 17 – 20, Nashville, TN

2023
Association of Mathematics Teacher Educators (AMTE) - February 2 – 4, New Orleans, LA
Research Council of Mathematics Learning (RCML) - March 2 – 4, Las Vegas, NV
American Educational Research Association (AERA) - April 13 – 16, Chicago, IL

Intersection Points
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