



SIG/Research in Mathematics Education
American Educational Research Association
<http://www.sigrme.org>

Fall 2013 Newsletter

SIG/RME Executive Board

Co-Chairs

Maria Blanton
TERC
2012 – 2014

Paola Sztajn
North Carolina State University
2013 – 2015

Treasurer

Shuhua An
California State University, Long Beach
2012 - 2014

Communications

Erin Turner
University of Arizona
2013 - 2015

Electronics

Kristen Bieda
Michigan State University
2013 - 2015

Awards

Denise Spangler
University of Georgia
2012 - 2014

Events

Vanessa Pitts Bannister
University of South Florida
2013 - 2015

What's Inside

SIG/RME Election	p. 2
Officer Candidate Biographies	p. 2
NCTM Research Pre-Session Information	p. 5
AERA Information	p. 6
SIG/RME Website	p. 6
Call for Senior Scholar Award Nominations	p. 6
Call for Early Career Publication Nominations	p. 8
STaR Announcement	p. 9
Important Dates	p. 9
Membership Dues & Contact Information	p. 10

SIG/RME Election

The time for the SIG/RME officer elections is approaching. The biographies of the candidates appear below. SIG/RME members will receive instructions for the electronic voting procedure in an email from AERA. Information will also be posted on the SIG/RME website (www.sigrme.org).

Officer Candidate Biographies

Co-Chair Position Description

During the first year of service, the co-chair's responsibilities include: liaising with the NCTM Research Committee, reviewing proposals for the NCTM Research Pre-session, determining speakers for the NCTM Pre-session opening and closing addresses. During the second year of service, the co-chair's responsibilities include: general administration of the SIG/RME, planning the SIG/RME sessions for the AERA annual meeting, and liaising between the SIG and AERA. The co-chair will preside over all meetings of the executive board and at the SIG annual business meeting. For a full description of duties, see <http://www.sigrme.org/duties.htm>.

Candidates for Co-Chair

Janine Remillard

University of Pennsylvania

Dr. Janine T. Remillard is an associate professor of mathematics education at the University of Pennsylvania's Graduate School of Education. Her research interests include teachers' interactions with mathematics curriculum materials, mathematics teacher learning in urban classrooms, and locally relevant mathematics instruction. She is one of the primary faculty in Penn-GSE's urban teacher education program and is co-editor of the volume, *Mathematics Teachers at Work: Connecting Curriculum Materials and Classroom Instruction*. She is P.I. of two NSF-funded studies: *Improving Curriculum Use for Better Teaching and Learning About New Demands in Schools: Considering Algebra Policy Environments*. Remillard chairs the U.S. National Commission on Mathematics Instruction, a commission of the National Academy of Science. She has been a member of SIG/RME for over 20 years and served as a board member between 2005 and 2007.

Nathalie Sinclair

Simon Fraser University

Dr. Nathalie Sinclair is an Associate Professor at Simon Fraser University in the Faculty of Education, an Associate Member in the Department of Mathematics, and a Canada Research Chair in Tangible Mathematics Learning. Her research interests focus on the use of expressive technologies in mathematics learning, with a growing attention to the geometry curriculum in the primary school years, and on the role of aesthetics in mathematical thinking and learning. Dr. Sinclair has held numerous Canadian federally-funded research projects relating to the impact of dynamic geometry environments on mathematical thinking. Before moving to British Columbia, she worked at Michigan State University, where she also held an NSF grant. Recent books include the *Essential Understandings of Geometry* (Grades 6-8 as well as 9-12), published by the NCTM and *Mathematics and*

Beauty: Aesthetic approaches to teaching children, published by Teachers College Press. She has also co-authored the book *Mathematics and the body: Material entanglements in the classroom*, which will be published by Cambridge University Press. She is associate editor for *For the learning of mathematics* and co-editor for the *Canadian Journal for Science, Mathematics, and Technology Education*. She has published over forty peer-reviewed journal articles in various research and practitioner journals, including *For the learning of mathematics*, *Educational Studies in Mathematics*, *International Journal for Computers in Mathematics Learning*, *Research in Mathematics Education*, *Teaching Children Mathematics*, *ZDM*, *Mathematics Teaching and Learning*, *Journal of Mathematics Teacher Education* and the *International Journal of Educational Research*. She served as a member of the Editorial Panel of the Journal for Research in Mathematics Education (2008-2012).

Treasurer Board Member Position Description

The Treasurer shall be responsible for managing and reporting on the financial accounts of the SIG/RME and the safe keeping of all financial documents of the SIG/RME. The Treasurer also maintains and updates the membership list for the SIG. For a full description of duties, see <http://www.sigrme.org/duties.htm>.

Candidates for Treasurer

Meixia Ding Temple University

Dr. Meixia Ding is an Assistant Professor of Mathematics Education at Temple University. She earned her PhD in Mathematics education from Texas A & M University. Dr. Ding specialized in teaching elementary mathematics in China, and has taught elementary and middle school teachers in the United States. She has worked on various NSF funded research projects with experiences in managing large-scale project data. Ding's research interests include teacher knowledge and effective teaching, early algebra, curriculum study, and cross-cultural studies. In particular, she focuses on how the instructional environment (e.g., teacher knowledge, curriculum) can be better structured to develop students' sophisticated understanding of fundamental mathematical ideas (e.g., properties of operations, inverse relations), which may lay a foundation for students' future learning of more advanced topics such as algebra. Her work has been published in journals such as *Cognition and Instruction*, *The Elementary School Journal*, *Journal of Mathematical Behavior*, *Educational Studies in Mathematics*, *Journal of Educational Research*, and *Educational Psychology*.

Anita Wager University of Wisconsin-Madison

Dr. Anita Wager is an assistant professor of Mathematics Education at the University of Wisconsin-Madison. She received her PhD at the University of Wisconsin-Madison where she studied with Tom Carpenter. Her research focus is on broadening notions of teaching mathematics for understanding to incorporate the cultural and socio-political contexts in which children live and learn. She is particularly interested in teacher education that supports early childhood teachers as they draw on the rich mathematical resources from young children's homes and communities to develop equitable mathematics pedagogy. Dr. Wager is currently PI on an NSF-funded research project, *Professional Development for Culturally Relevant Teaching and Learning in Pre-K Mathematics*.

Dr. Wager recently co-edited a book (with D. Stinson), *Teaching Mathematics for Social Justice: Conversations with Educators*, published by NCTM. In addition she has published several book chapters and articles in such journals as *Journal of Mathematics Teacher Education*, *Journal of Teacher Education*, *Journal of Urban Mathematics Education*, and *Teaching Children Mathematics*. In collaboration with colleagues at several universities, she has organized a working group at PME-NA, now in its fifth year, to provide a space for conversations, collaboration, and scholarship for those interested in equity issues in mathematics education. She regularly reviews for journals in mathematics education, teacher education, and early childhood.

Awards Board Member Position Description

The Awards Board Member is responsible for managing the process for soliciting nominations for awards, selecting a committee for reviewing nominations, and serving on the committee to decide on award recipients. S/he is responsible for coordinating the purchase of plaques to present to award members. For a full description of duties, see <http://www.sigrme.org/duties.htm>.

Candidates for Awards Board Member

Laurie Cavey Boise State University

Dr. Laurie Cavey is an Associate Professor of Mathematics Education at Boise State University. Prior to her employment at Boise State, Dr. Cavey was an Associate Professor at James Madison University where she received an award for excellence in teaching and scholarship. While at James Madison, Dr. Cavey also served as the director of The Content Teaching Academy, a summer program for teachers looking to enhance their professional knowledge and skills. She makes it a priority to find ways to work directly with teachers to support student learning. Dr. Cavey is currently working with high school teachers in Idaho as they prepare to teach integrated courses aligned with the *Common Core State Standards for Mathematics*.

From a research perspective, Dr. Cavey is interested in how people think about mathematics and how those ideas are influenced by the mathematical practices of a classroom community. Much of this work has involved working with colleagues to understand how argumentative practices influence opportunities for student learning. Since joining the faculty at Boise State, Dr. Cavey has begun to investigate both student and mathematician ideas about the use of mathematical definitions. Her work has been published in research and practitioner journals including *Educational Studies in Mathematics*, *The Journal of Mathematical Behavior*, and *The Mathematics Teacher*. In the past Dr. Cavey has served on the editorial board for the newsletter of the *Association of Mathematics Teacher Educators* and as a board member of the *Virginia Council of Teachers of Mathematics*. She is currently a member of the mathematics steering committee with the *Idaho State Department of Education*.

Victoria Hand University of Colorado, Boulder

Dr. Victoria Hand is an assistant professor of Mathematics Education at the University of Colorado at Boulder. She has theorized and examined empirically *participation gaps*, or differences in opportunities to participate productively in classroom mathematical activity for

students from dominant versus non-dominant ethnic, racial, and linguistic backgrounds. Victoria's research agenda includes the study of: 1) opportunities to learn in (and out) of mathematics classrooms; 2) features of equitable mathematics classrooms; and 3) dispositions of equitable mathematics teachers. Her work has been published in top-tier research journals including *American Educational Research Journal*, *Educational Studies in Mathematics*, *Educational Researcher*, *Journal of the Learning Sciences*, and *Journal of Urban Mathematics Education*. She was recently awarded the Faculty Excellence in Research Award from CU-Boulder for her contribution to theories of mathematics learning that address issues of culture, power and learning. Victoria has served on several AERA committees including Research Related to Practice Awards (2009 – 2011), Division G Nominations Committee (2011), and Division C Mathematics Education Proposal Review Board (2008 – current).

NCTM 2014 Research Conference Information

The Research Conference is sponsored by the NCTM Research Committee and the Special Interest Group on Research in Mathematics Education of the American Educational Research Association. The NCTM Research Conference this academic year will be held on April 7-9, 2014, in New Orleans at the Ernest N. Morial Convention Center.

The NCTM Research Conference serves multiple purposes. First, it annually brings researchers together to examine and discuss current issues in mathematics education. Second, it is a chance for researchers to receive feedback on their work and to benefit from exposure to alternative points of view. Third, the Research Conference is an opportunity to capitalize on the collective wisdom available when researchers and practitioners come together to discuss mathematics education and research. Finally, the Research Conference affords beginning scholars opportunities to interact and network with veteran researchers in the field.

There were 460 proposals submitted for the Research Conference (150 more submissions than last year), including 199 for Brief Research Reports, 94 for Interactive Paper Sessions, 37 for Research Symposia, 53 for Discussion Sessions, and 77 for Poster Sessions. Of these 205 proposals were accepted, including 60 Brief Research Reports, 39 Interactive Paper Sessions, 36 Research Symposia (some were invited symposia), 25 Discussion Sessions, and 45 Poster Sessions (some sessions were reclassified by the program committee). The final program for the NCTM Research Conference will be available in February 2014 through NCTM's website at <http://nctm.org>.

Pre-registration for the Research Conference is also available electronically through NCTM's website at <http://www.nctm.org/researchconf/>. On-site registration will also be available. For more information on registration costs, please consult the NCTM website.

The **opening session** is Monday, April 7th at 7:00 p.m. Art Levine will be the speaker for the opening session. The **linking research and practice plenary session** will be on Wednesday, April 9th from 8:30-10:00am. Uri Treisman will be the speaker. There will be **concurrent sessions** from 8:30 a.m. to 6:00 p.m. on Tuesday, April 8th, and from 8:30 a.m. to 4:30 p.m. on Wednesday, April 9th.

Session types include research symposia, and interactive paper, discussion, and poster sessions. Wednesday sessions will be open to anyone registered for the 2014 National Council of Supervisors of Mathematics (NCSM) Conference, or the 2014 Annual Meeting and Exposition, consistent with NCTM's commitment to linking research and practice.

AERA 2014 Information

The 2014 AERA Annual Meeting will be held Thursday, April 3, through Monday, April 7th, 2014, in Philadelphia, Pennsylvania. The theme is *The Power of Education Research for Innovation in Practice and Policy*.

This year, we again received a high number of proposals. There were 124 proposals submitted to SIG/RME, 13 symposium proposals and 111 individual paper proposals. We are very grateful to all of the reviewers who helped review the proposals—we received over 381 reviews.

The SIG/RME received an allocation of 11 sessions for symposia or paper sessions, and 41 individual paper presentations that could be grouped into roundtable or poster format. Of the 13 symposium proposals submitted, 7 were accepted as symposia and 2 were accepted as roundtables. Of the 111 individual paper proposals, 25 were accepted as papers, and 28 were accepted as roundtable or poster presentations.

SIG/RME Website

Please check our website at <http://www.SIGRME.org> for information related to SIG/RME announcements, positions available, upcoming conferences, and much more. The Membership Directory can also be accessed through the website. (The user ID is **math**, and the password is **SIGRME**.) Please check your contact information in the current directory by checking the electronic directory on the SIG/RME website.

If you have any information you think should be posted on the SIG/RME website, please contact Kristen Bieda at <kbieda@msu.edu>. If any changes need to be made to your contact information, please notify Shuhua An at <shuhua.an@csulb.edu>.

Call for Senior Scholar Award Nominations

The Special Interest Group for Research in Mathematics Education (SIG/RME) of AERA invites nominations for the Senior Scholar Award, to be presented at AERA 2015. This award recognizes and celebrates the programmatic research of a senior scholar within the field of mathematics education. The SIG/RME will present the award to an individual who is *active in mathematics education research at the time the award is granted* and who is nominated by members of the community as an exemplar in regard to the following two criteria. The nominee has

- designed and carried out programmatic research that originates in mathematics education and helps understand crucial phenomena of mathematics teaching and learning, as represented in a corpus of writings and research projects that have

contributed to the theoretical development of the field as well as having been grounded empirically

- developed the research capacity of the field, as attested to by the existence of a “school of thought” or intellectual heritage associated to the scholar’s name, a heritage that includes other individuals whom the scholar has had a direct influence in encouraging and helping become productive in mathematics education research or an identifiable domain of mathematics education research within which the nominee’s constructs and results are used regularly by other researchers

One or more of the following criteria can strengthen the nomination. The nominee has also made

- major contributions to the broader field of educational research,
- a major impact on the practice of mathematics education at large.

Nominations must include the following:

A letter of nomination proposing the name of the nominee and describing the grounds on which the nominee meets the requirements for the award. Three criteria should be addressed in the letter:

1. A brief (no more than 250-word) description of the program of research carried out by the nominee;
2. A list of significant publications representing the contributions described, and;
3. A list of scholars who have been significantly affected by the work of the nominee.

The list of scholars may include, but need not be limited to, doctoral students who worked with the nominee. Include current contact information for the list of scholars.

Self-nominations will not be accepted. Scholars worldwide can be nominated for this award, and membership in AERA or SIG/RME is not required of the nominees.

The nomination packet must be received by **February 3, 2014**. **Electronic submissions to dspangle@uga.edu are preferred**. Alternatively, you may submit the nomination packet to:

Denise Spangler
Department of Mathematics and Science Education
University of Georgia
105 Aderhold Hall
Athens GA 30602-7124

An awards committee composed of the outgoing senior co-chair of the SIG/RME board, a retired senior scholar in mathematics education, the previous award winner, and two active members of SIG/RME who are senior scholars in mathematics education research, will decide on the award. The current senior co-chair is an ex-officio member of the Senior Scholar Selections Committee. The awardee will be expected to deliver the SIG/RME invited address at AERA 2015.

More information on the award, criteria and nomination procedures can be found at the SIG/RME’s website: <http://www.SIGRME.org>.

Call for Early Career Publication Award Nominations

In 2001, the Special Interest Group for Research in Mathematics Education established the "SIG/RME Early Career Publication Award". The first award was presented in 2002. The most recent award was presented to Dr. Kristen Bieda.

The purpose of the Early Career Publication Award is to recognize an outstanding mathematics education research publication by an individual within six years of receiving her/his doctoral degree. The award includes a stipend of \$500, announcement in the SIG/RME newsletter and on the SIG/RME website and recognition at the annual NCTM Research Conference.

Nomination Guidelines

- The publication being nominated for the SIG/RME Early Career Publication Award may be based on the dissertation work of the nominee or other recent research the nominee has conducted. The nominee should be either the single author or the first author (in the case of a jointly authored publication). Note that only a peer-reviewed research publication is eligible for nomination; the award will not be given for a dissertation. The nominee should have received her/his doctoral degree in mathematics education no more than 6 years prior to the nomination deadline (ie., no earlier than January 2008 for this year's nominations).

Nomination Packets

Nominations should include (and are restricted to) the following items:

- A letter nominating the author of an early career publication. Please include the name of the author, the date he/she received the doctoral degree, and the name of the institution that conferred the degree. The nominator should also include reasons that the paper should be considered as an example of an outstanding mathematics education research publication. If the publication is based on the author's dissertation, please include the name of the dissertation director and complete bibliographic information about the dissertation (including the dissertation abstract's number). (Self nominations will be accepted.)
- A copy of the paper, including complete bibliographic information.
- A copy of the Table of Contents of the journal or other peer-reviewed research publication in which the paper appeared.

Nominations will be considered by a sub-committee of the Executive board, consisting of the Awards, Events, and Electronic Board Members. The decisions of that committee will be final. Please send nomination materials **no later than January 15, 2014** to Denise Spangler. **Electronic submissions to <dspangle@uga.edu> are preferred.** Alternatively, you may submit **two copies** of the above items to:

Denise Spangler
105 Aderhold Hall
University of Georgia
Athens GA 30602-7124

STaR Program for Early Career Mathematics Educators

Service, Teaching and Research are the focal points of the STaR Program. It was initially funded by the National Science Foundation and consists of a summer institute, academic year networking via electronic means, and a regroup session in conjunction with the annual meeting of the Association of Mathematics Teacher Educators (AMTE).

The STaR Program is now operated under the supervision of the AMTE, and dependent on contributions from individuals, foundations, and professional organizations for its continued operation. To date, 148 early career mathematics educators working at 113 institutions of higher education (in 41 states) have completed the program. A list of previous STaR Fellows and some current activities are available at <http://starfellows.com>.

The 5th cohort of STaR Fellows will meet in a summer institute in Park City, Utah during the week of June 21-25, 2014. Eligibility is limited to new faculty with a doctorate in mathematics education in their first or second year of a tenure track appointment as a mathematics educator at a U.S. institution of higher education. The faculty appointment may be in a department of mathematics or a school/college/department of education.

The application is available at <http://matheddb.missouri.edu/star/>. Completed applications are due by December 1, 2013. If you have any questions, contact Robert Reys at reysr@missouri.edu

Important Dates

2014

January 15

Nominations for Early Career Publication Award Due (Denise Spangler, [<dspangle@uga.edu>](mailto:dspangle@uga.edu))

February 3

Nominations for Senior Scholar Award Due (Denise Spangler, [<dspangle@uga.edu>](mailto:dspangle@uga.edu))

February 6-8

Association of Mathematics Teacher Educators (AMTE) Annual Meeting in Irvine, CA (<http://www.amte.net>)

April 3-7

AERA Annual Meeting in Philadelphia, PA (<http://www.aera.net>)

April 7-9

NCTM Research Conference in New Orleans, LA (<http://www.nctm.org>)

April 9-12

NCTM Annual Meeting in New Orleans, LA (www.nctm.org)

MEMBERSHIP DUES & CONTACT INFORMATION

A few years ago, a change occurred in our membership policy as dictated by AERA. You may now renew your SIG/RME membership when you renew your AERA membership. This way, your SIG/RME dues are processed by AERA, and your membership dates are always the same.

AERA has changed its membership procedures. All SIG-RME members must also be active members of AERA. (In other words, it is no longer possible to be a member of SIG-RME and not a member of AERA.)

If your mailing address or other contact information is incorrect, please update your contact information through the AERA website.