



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

**Summer 2011 Newsletter**

**SIG/RME Executive Board**

**Co-Chairs**

Jinfa Cai  
University of Delaware  
2010-2012

Eric Knuth  
University of Wisconsin-Madison  
2011-2013

**Treasurer**

Tonya Gau Bartell  
University of Delaware  
2010 - 2012

**Communications**

Mary Q. Foote  
Queens Collge, CUNY  
2011-2013

**Electronics**

Dan Battey  
Rutgers, The State University of New Jersey  
2011-2013

**Awards**

Joanne Lobato  
San Diego State University  
2010 - 2012

**Events**

Ann Ryu Edwards  
University of Maryland  
2011-2013

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## SIG/RME 2011 Invited Address and Senior Scholar Award

Edward Silver of the University of Michigan was selected as the recipient of the third SIG/RME Senior Scholar Award in 2011. This award is presented in recognition of the research of a single scholar within the field whose programmatic work has been essential in mathematics education. Dr. Silver also gave the 2011 SIG/RME Invited Address at the Annual Meeting of AERA with the title "Reflections on the relationship of research and practice from the perspective of mathematics education as a profession."

### Call for Officer Nominations

Nominations are being sought for the SIG/RME Executive Board positions of Co-Chair, Treasurer and Awards Board Member for terms to run from April 2012 – April 2014. A nomination form is included at the end of this newsletter, or you may e-mail your nomination to Dan Battey at <dan.battey@gse.rutgers.edu> by **September 15, 2011**. Self-nominations are also encouraged. The by-laws require that we have two candidates for each office. The duties of officers are posted on the SIG/RME web site.

### Call for AERA Proposals

The 2012 AERA Annual Meeting will be held Friday, April 13 - Tuesday, April 17, 2012, in Vancouver, British Columbia, Canada. The theme is *Non Satis Scire: To Know is not Enough*.

**All proposals must be submitted electronically by July 22, 2011.** Please note the change in submission closing date.

It is important to note that the number of slots allocated to Special Interest Groups (SIGs) is now based on the proportion of the number of proposals submitted. The more proposals are submitted to our SIG, the more slots will be available for faculty and graduate students to present their work. Therefore, we strongly encourage you to submit proposals.

AERA's electronic Annual Meeting management system, *All Academic Convention*<sup>™</sup>, supports web-based electronic proposal submission, peer review, proposal evaluation, session creation, scheduling, and program generation for the AERA Annual Meeting. After you submit, you can check the result to ensure that it is as you intended. However, you may not be able to view your submission until 48 hours after you submit. **WE HIGHLY RECOMMEND THAT YOU SUBMIT YOUR PROPOSAL EARLY AND THAT YOU TAKE ADVANTAGE OF THE FEATURE THAT ENABLES YOU TO VIEW YOUR SUBMISSION.** Some who have previously submitted did not realize their submissions had not been appropriately received, and the co-chair has no way to recognize this situation.

The opening date for all proposals was June 1, 2011. Please visit the URL <http://www.aera.net/meetings/Default.aspx?id=386&id=5316> for details. (You can also download the proposal requirements from this URL.)

Proposals submitted by fax, mail, and e-mail will **NOT** be accepted.

- If you submit a proposal through SIG/RME, please indicate whether another SIG or Division could co-sponsor it.

- If you are a member of SIG/RME and are willing to serve as a reviewer for AERA proposals, please use AERA's website to sign up as a reviewer for the SIG.
- If you are willing to serve as a chair or discussant for AERA sessions sponsored by SIG RME, please use AERA's website to sign up as a Chair/Discussant for the SIG.

### Call for AERA Proposal Reviewers

SIG/RME needs volunteers to review AERA proposals submitted to the SIG. Please volunteer.

- If you are an AERA member, you can do this on-line at [www.aera.net](http://www.aera.net). You will need to login as a member and then go to the page for the 2012 meeting.
- If you are not an AERA member, please join AERA and SIG/RME so that you can become a reviewer, discussant or chair for AERA.

### Call for Proposals for NCTM Research Pre-Session in Philadelphia, PA April 22-25, 2012

<http://www.nctm.org/researchpresession.aspx>

The Research Pre-session 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 Pre-session 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 Pre-session 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 Pre-session affords beginning scholars opportunities to interact and network with veteran researchers in the field.

NCTM has adopted Linking Research and Practice as a priority for the Council. The Annual Meeting strengthens the links between research and practice in the Council's ongoing work.

At the time this newsletter is being sent, NCTM has not as yet posted the call for proposals for the 2012 Research Pre-session nor the final program schedule. Based on previous years, we anticipate that the **opening session** will be Monday, April 22<sup>nd</sup> at 7pm. There will be **concurrent sessions** from 8:30am to 6:00pm on Tuesday, April 2<sup>3rd</sup>, and from 8:30am to 4:45pm on Wednesday, April 24<sup>th</sup>.

We also anticipate that **Proposals** will be accepted starting in mid to late June 2011, and accepted until early August 2011. Further information about proposals and about the Research Pre-session will be available by the end of June at:

<http://www.nctm.org/researchpresession.aspx>.

## **We anticipate the following Session Types:**

### *Individual Papers*

(30-minute session, including 10 minutes for audience discussion)

Individual paper sessions offer the opportunity to present findings from a completed single study. The proposal should include a description of the conceptual or theoretical perspective, the research question(s) and design, data collection techniques and analyses, and a summary of findings.

### *Poster Session*

(1 hour and 15-minute session)

Poster sessions are designed to encourage the exchange of ideas. They combine the visual display of materials with the opportunity for informal discussion. The available space for posting is 4' x 6'. Poster sessions reporting on research in progress are particularly encouraged. Presenters need to be present with their posters at the time listed in the program.

### *Research Symposium*

(90-minute session, including 30 minutes for audience discussion)

Research symposiums can be presented in two different formats:

1. Several presentations focusing on the same issue from different perspectives or research orientations. Speakers should be chosen to reflect conflicting or complementary points of view. Each speaker should provide information on how their research "sub-communities" currently are thinking about or addressing the issue.
2. One substantive presentation on a major theme (an accompanying prepared paper would be appropriate) with two or three prepared critiques/responses. The primary presentation should report on a program of research or a particular view of a research issue, but not a single research study.

The presenters should exchange outlines of their papers in advance so that differences and similarities in the presentations can be stressed. A symposium is to be more than a collection of loosely related papers that deal with similar topics.

To increase audience participation and interactivity of the conference, for each proposal, the submission must include a set of five central questions that will be used to focus the audience participation portion of the session.

### *Work Session*

(90-minute session, including 30 minutes for audience discussion)

Work sessions are designed to allow for sustained interactions around one topic for both attendees and organizers. They may be on a topic gaining increased interest, to which significant resources are being committed, and for which sufficient conceptualization is lacking, or they may address a topic of more established interest.

To increase audience participation and interactivity, for each proposal, the submission must include a set of five central questions that will be used to focus the audience participation portion of the session.

**NOTE: Only electronic submissions will be accepted.**

### **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 2009 Membership Directory can also be accessed through the website. (The user ID is **math**, and the password is **SIGRME**.)

If you have any information you think should be posted on the SIG/RME website, please contact Dan Battey at <dan.battey@gse.rutgers.edu>.

### **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. (Download the form at [http://www.aera.net/uploadedFiles/Membership\\_Info/MembershipForm.pdf](http://www.aera.net/uploadedFiles/Membership_Info/MembershipForm.pdf).) 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.)

### **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 2013. 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 basic criteria. The nominee has

- designed and carried out programmatic research that has been grounded empirically and has contributed to the theoretical development of the field;
- developed the research capacity of the field, as attested to by the existence of a “school of thought” or intellectual heritage whose constructs and results are used regularly by others.

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 to the practice of mathematics education at large.

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

Nominations must include the following.

A letter of nomination e-mailed to the senior steering committee member 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 current copy of the nominee's CV (including 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.

The nomination packet must be received by **February 6, 2012**. **Electronic submissions to <lobato@math.sdsu.edu> are preferred**. Alternatively, you may submit the nomination packet to:

Joanne Lobato  
Center for Research in Mathematics and Science Education  
(CRMSE)  
San Diego State University  
6475 Alvarado Road, Suite 206  
San Diego, CA 92120

An awards committee composed of the past senior co-chair, a retired scholar in mathematics education, the previous award winner, and two active members of SIG/RME 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 2013.

More information on the award, criteria and nomination procedures can be found at the SIG/RME's website: <http://www.SIG/RME.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. Gabriel Stylianides.

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 Pre-session.

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 2006 for this year's nominations).

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

1. 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.)

2. A copy of the paper, including complete bibliographic information.
3. 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 committee consisting of the Steering Committee members and the Electronic Communications Secretary of the SIG/RME Executive Board. The decisions of that committee will be final. Please send nomination materials **no later than January 15, 2012** to Joanne Lobato. **Electronic submissions to <lobato@math.sdsu.edu> are preferred.** Alternatively, you may submit **two copies** of the above items to:

Joanne Lobato  
Center for Research in Mathematics and Science Education  
(CRMSE)  
San Diego State University  
6475 Alvarado Road, Suite 206  
San Diego, CA 92120

### Important Dates

#### 2011

- |                  |   |
|------------------|---|
| June 1           | AERA Online Proposal Submission System <b>will begin accepting</b> all proposals. Please check the AERA website at ( <a href="http://www.aera.net">http://www.aera.net</a> ).                       |
| Mid to late June | NCTM Online Proposal Submission System <b>will begin accepting</b> proposals for the 2012 NCTM Research Pre-Session. Go to <a href="http://www.nctm.org">www.nctm.org</a> and click on Conferences. |
| July 22          | <b>Closing date</b> for all AERA Divisions, Committees, and SIGS (11:59 PM Pacific Standard Time).<br><b>No late submissions will be accepted.</b>  |

- Early August      Deadline for NCTM Research Pre-Session proposals. Go to <http://www.nctm.org/researchpresession.aspx> for further information.
- September 15      Nominations for SIG/RME officers due to Dan Battey.
- October 20-23      Psychology of Mathematics Education – North America (PME-NA) Annual Meeting in Reno Nevada.

**2012**

- January 15      Nominations for SIG/RME Early Career Publication Award due to Joanne Lobato .
- February 6      Nominations for SIG/RME Senior Scholar Award for 2013 due to Joanne Lobato
- February 9-11      Association of Mathematics Teacher Educators (AMTE) Annual Meeting in Fort Worth, Texas ([http://www.amte.net/conf\\_index\\_2010.shtml](http://www.amte.net/conf_index_2010.shtml)).
- April 13-17      AERA in Vancouver, British Columbia, Canada (<http://www.aera.net>)
- April 22 - 24      NCTM Research Pre-Session in Philadelphia, PA.

**Minutes of the SIG/RME Business Meeting  
New Orleans, Louisiana**

**I. Reception and Mingling**

**II. President’s Report**

Arthur Powell welcomed the membership and encouraged everyone to review (not only sign up to review, but to actually review) for the SIG/RME in future meetings.

**A. Report on Sessions**

There were 142 proposals submitted to SIG/RME (two more than last year) and 77 were accepted for presentation. SIG/RME received an allocation of 10 sessions for papers or symposia, and 36 individual paper presentations in roundtable or poster format. At the meeting, we organized symposia, 5 related-paper sessions (90 minutes) with 4- 5 papers in each, and 6 roundtable sessions with the following themes: Mathematics Education and Equity, Culturally Relevant Mathematics Education, Comparative Studies, Teacher Knowledge, Curricular Effects on Mathematics Learning and Teaching, and Student Learning.

**B. New Board Members and Thanks to Outgoing Members**

The new Board members were introduced: Mary Q. Foote (Communications), Dan Battey (Electronics), Ann Ryu Edwards (Events), and Eric Knuth (Junior Co-Chair). The outgoing Board members, Despina Stylianou, Indigo Esmonde, Jeff Shih, and Arthur Powell were acknowledged and thanked.



### III. Treasurer's Report

Tonya Gau Bartell presented the Treasurer's report, which appears below:

#### SIG-RME Treasurer's Report March 1, 2010 – February 28, 2011

<b>BEGINNING BALANCE (3/1/10)</b>	<b>\$30,569.46</b>
<b>INCOME</b>	
SIG-RME membership dues (through 2/28/11)	\$7,232.50
<b>Total income</b>	<b>\$7,232.50</b>
<b>Subtotal</b>	<b>\$37,801.96</b>
<b>EXPENSES</b>	
<b>AERA Annual Meeting (2010)</b>	
SIG-RME reception at business meeting	\$3,358.32
SIG-RME Speaker Honorarium	\$500.00
<b>Awards</b>	
Plaques (Early Career Publication)	\$45.00
Early Career Publication Award 2010 Stipend	\$500.00
<b>NCTM Research Pre-Session (2009)</b>	
Keynote Speaker Honorarium	\$750.00
<b>Administrative Charges</b>	
AERA management fee	\$300.00
<b>Total expenses</b>	<b>\$5453.32</b>
<b>ENDING BALANCE (3/31/10)</b>	<b>\$32,348.64</b>

Membership total as of 3/31/11: 482 members

Past Membership Information

Membership Total 3/31/10: 535 members

Membership Total 3/31/09: 552 members

SIG/RME Membership total as of 3/31/11: under 500.

Note to recruit others to join the SIG. Need the number at 500 to become a division.

#### 4. Awards Report

Joanne Lobato reported that the early career publication award went to Gabriel Stylianides for his 2009 paper *Reasoning-and-Proving in Mathematics Textbooks*, which was published in *Mathematical Thinking and Learning*.

Joanne also shared that a 5-member task force would determine formal criteria for the Early Career Publication Award to be presented at next year's business meeting. She also informed the membership of a wording change in the Early Career award to clarify that each nominee for the award contributed the majority of the work for the nominated paper. This wording change will be shared in a future newsletter with a vote from the membership.

## 5. Senior Scholar Lecture

Jinfa Cai acknowledged Pat Campbell, Jim Middleton, Alan Schoenfeld, Arthur Powell, and Pat Wilson (chair) as the Senior Scholar selection committee and encouraged future nominations. Despina Stylianou introduced Ed Silver, winner of the Senior Scholar Award. Ed gave the Senior Scholar Lecture entitled: "Reflections on the relationship of research and practice from the perspective of mathematics education as a profession."

## 6. Additional Announcements for the Good of the Order

Jinfa again acknowledged the outgoing board members and strongly encouraged the membership to review and serve on panels for NSF. Send your CV to Jinfa or Pat Wilson. Jinfa also informed the membership that NSF is looking for program officers.

Andrew Izsak announced an upcoming interdisciplinary conference : Assessment in K-12 Conference that will take place Sept 25- Sept 27, 2011 in Atlanta, GA. Application due date was May 31, 2011.

## 7. Adjournment

Minutes recorded by Jeffrey Shih

### Call for Officer Nominations!!!

Please indicate your nominations for the following offices. Your nominees must be members of SIG/RME. Please note that officers may not serve consecutive terms. Current officers are listed on p. 1 of this newsletter. It is not necessary to secure an individual's permission before making a nomination as the Steering Committee members will confirm that nominees are willing to run for election.

Co-Chairperson: \_\_\_\_\_

Treasurer: \_\_\_\_\_

Awards Board Member: \_\_\_\_\_

Send your nominations to Dan Battey by e-mail by **September 15, 2011**.

<<dan.battey@gse.rutgers.edu>>

### Address Correction Requested!

If any of your contact information has changed since the last SIG/RME directory (e-mail address, phone number, etc.), please update your information online at <http://www.iera.net> If you log in as member of AERA and update your information, this simultaneously updates your information for SIG-RME.