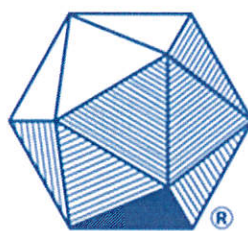


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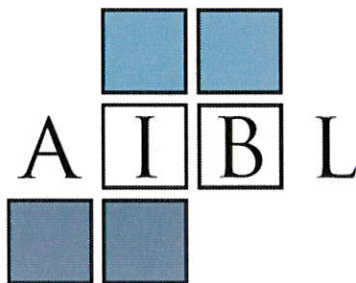
MAA

MATHEMATICAL ASSOCIATION OF AMERICA

*Sixteenth Annual  
Legacy of R.L. Moore Conference*  
June 13-15, 2013, Austin, Texas  
“We Are IBL”

**Program Committee**

Jacqueline Jensen-Vallin (Co-Chair)    Angie Hodge (Co-Chair)    Gavin LaRose  
Dana Ernst    Stan Yoshinobu    Tom Ingram  
Mike Starbird    Brian Katz



Academy of Inquiry-Based  
Learning

Journal of Inquiry-Based  
Learning in Mathematics

Thursday, June 13

## Salon C

- 10:00–1pm      **Registration Begins (Ballroom Prefunction)**
- 1:00 –1:15      Welcome & Overview (Salon C)  
MC:      Jacqueline Jensen-Vallin, Slippery Rock University  
         Angie Hodge, University of Nebraska Omaha
- 1:15–2:00      G. Edgar Parker, Visiting Professor, Guilford College and Professor Emeritus,  
         James Madison University  
*Some Reflections on Issues in Implementing Inquiry-Based Pedagogy in Mathematics*
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- 2:30–4:00      Parallel sessions about implementing IBL (coordinated by Dana Ernst)

## Breakout Sessions

Time	Implementing IBL (Salons A&B) Moderator: Judith Covington	Implementing IBL (Salon C) Moderator: Susan Crook	Implementing IBL (Salons D&E) Moderator: Tom Judson	Implementing IBL (Classroom 201) Moderator: Dana Ernst
2:30–2:45	TJ Hitchman  <i>Success through Failure: Assessment in a Moore Method Geometry Course</i>	Ruthmae Sears  <i>Increasing High School Students Opportunities to Engage in Proofs: Addressing Shortcoming of Textbooks</i>	Joseph Malkevitch  <i>A Sampler of Fairness and Equity Mathematical Modeling Situations</i>	Michael Butros  <i>An Inquiry Based Learning Approach to University Physics</i>
2:55–3:10	Javier Garza  <i>Implementing IBL in an Introductory Real Analysis Course</i>	David Cusick  <i>“I do and I understand” Confucius</i>	Ryan Gantner  <i>Playing Games with IBL</i>	
3:20–3:35	Melvyn Jeter  <i>Engaging, Assessing and Grading in My IBL Courses</i>	Robert Vallin  <i>Presentation Fridays in Advanced Calculus</i>	Jason Callahan  <i>Inquiry-Based Learning projects in an Applied Statistics Course</i>	

- 3:45–4:00      **Break for Refreshments (Ballroom Prefunction)**
- 4:00–5:00      Ron Douglas, Texas A&M University— (Salon C)  
*Future of the IBL Projects at EAF*
- 5:40–6:00      **Free Time**
- 6:00–7:00      **Reception – Cash Bar—(Ballroom Prefunction)**
- 7:00–9:00      **Dinner and Banquet Speaker (Salon C)**  
Coke Reed, Interactics Holdings, LLC  
*Mathematical Hero's  
The Journey of Independent Thinkers and the Computer as a Mathematical Object*  
  
(Introduction by John W. Neuberger)

7:30–9:00 Continental Breakfast (Ballroom Prefunction)

MC: Angie Hodge, University of Nebraska Omaha

9:00–10:30 Brian Katz, Augustana College (Salon C)  
*RoundTable Discussion*

10:30–11:00 Break (Ballroom Prefunction)

11:00–11:30 Five Minute Talks, Session I (Salon C)

11:45–1:00 Lunch and Speaker (Salon C) Introduction by Jacqueline Jensen-Vallin, Slippery Rock University

Panel Discussion: Designing a Mathematics Major for Pre-Service Teachers

Moderator: Martha Siegel (Chair of the CUPM)

Panelists: Angie Hodge, University of Nebraska Omaha  
Michael Pearson, Executive Director, MAA  
Diana White, University of Colorado Denver

1:00–1:30 Five Minute Talks, Session II (Salon C)

2:00–3:30 Parallel Sessions about Courses and Math Education Research

Time	Calculus (Salons A&B) Moderator: Judith Covington	Mathematics for Education Majors (Classroom 201) Moderator: Stan Yoshinobu	Advanced Courses (Salons D&E) Moderator: TJ Hitchman	Mathematics Education Research (Salon C) Moderator: Vilma Mesa
2:00–2:15	Janice Rech and Angie Hodge <i>Getting Everyone Involved in Calculus: IBL-Style</i>	Stan Yoshinobu <i>Using IBL in Courses for Future Elementary Teachers</i>	Anna Spice <i>Success and Failure in Intro-to-Proof</i>	Anne Cawley <i>Resource Use of Pre-service Elementary Teachers in an Inquiry-Based Learning Mathematics Content Course</i>
2:25–2:40	Larissa Schroeder <i>Flipping Calculus to Enhance Student Engagement</i>	Brian Katz <i>Teaching Mathematical Maturity through IBL Axiomatic Geometry</i>	Steven Schlicker <i>Abstract Algebra: An Inquiry-Based Approach</i>	Nina White <i>How Pre-service Teachers in an IBL Content Course Revise their Mathematical Communication</i>
2:50–3:05	Ed Parker <i>Finding a Proper Platform for Appropriate Rigor</i>	Ali Shaqlaih <i>Inquiry-Based Learning in Math for Elementary Teachers Course</i>	Andy Schultz <i>Cross-institutional refereeing in two IBL Number Theory Classes</i>	Kelly Bubp <i>An Evaluation of Selected Notes From the Journal of Inquiry-Based Learning in Mathematics</i>
3:15–3:30	John Neuberger <i>Calculus and IBL</i> <a href="#">See Notes (PDF)</a>	Michael Matthews <i>Engaging Teachers in a History of mathematics Class Using IBL</i>	Dana Ernst <i>Implementing IBL in an Introduction to Proof Course</i>	Sandra Laursen and Chuck Hayward <i>Building Momentum in a Movement</i>

3:30–4:00 Break (Ballroom Prefunction)

4:00–5:30 Parallel Sessions about Other Faces of IBL

Time	Math Teachers Circle (Salons A&B) Moderator: Tatiana Shubin and Diana White	Presentation Days and other MMM Techniques (Salons D&E) Moderator: William “Ted” Mahavier	Discovering Art of Mathematics (Salon C) Moderator: Julian Fleron and Philip Hotchkiss	Emerging Scholars Programs (Classroom 201) Moderator: Randy Cone
4:00–4:15	Panel Discussion <i>Math Teachers Circle</i>	Patrick Rault <i>Daily e-feedback on information e-homework</i>	Workshop: <i>Mathematical Inquiry in the Liberal Arts</i>	Emily Gili-Turner <i>Collaborative Revision and its Effects on Undergraduate Proof Skills</i>
4:25–4:40	Cont.	PJ Couch <i>A foray into College Algebra via IBL</i>	Cont.	Julie Sutton and James Epperson <i>A Comparison of How Emerging Scholars Program and Non-emerging Scholars Students Critique and Rate</i>
4:50–5:05	Henry Fowler and Tatiana Shubin <i>Navajo Nation Math Circles</i>	Elizabeth Thoren <i>WikiLogs: Students Reporting on Pre-Work</i>	Cont.	
5:15–5:30	Cont.	Amy Ksir <i>Inquiry-Based Calculus III at the U.S. Navy Academy</i>	Cont.	

## Saturday, June 15

MC: Jacqueline Jensen-Vallin, Slippery Rock University

7:30–9:00 Buffet Breakfast (Ballroom Prefunction)

9:00–10:30 Parallel Sessions

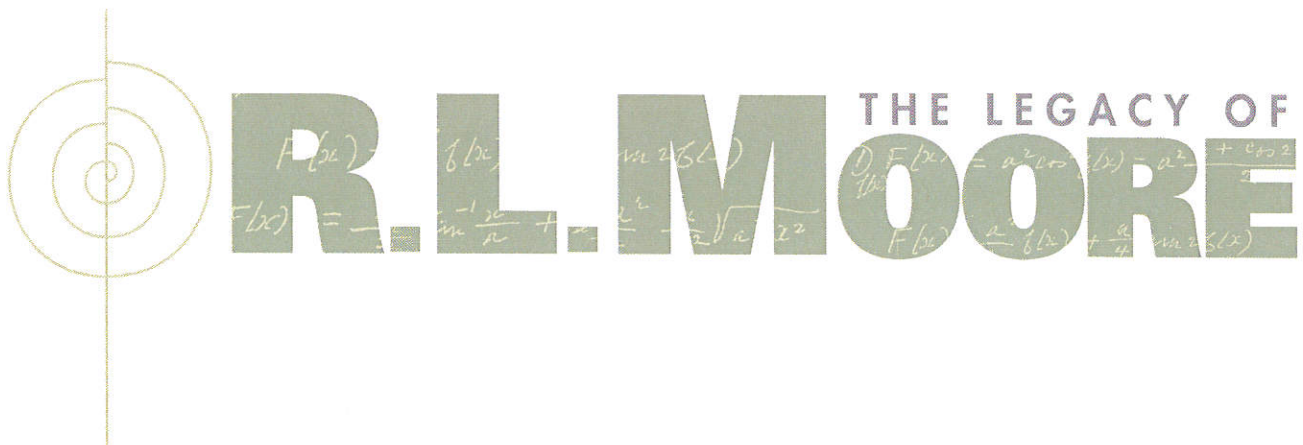
Time	Five Centers Report (Salons A&B) Moderator: Ron Douglas	General Contributed Papers (Salon C) Moderator: Brian Katz	General Contributed Papers (Salons D&E) Moderator: Tom Judson
9:00–9:15	Ron Douglas <i>Lessons from the IBL Centers Projects</i>	Cornelius Stallmann <i>A Tribute to William "Bill" Mabavier</i>	Suzanne Doree <i>Teaching Conjecturing</i>
9:20–9:35	Cont.	Bernd Rossa <i>A Tribute to William "Bill" Mabavier</i>	Tim Whittenmore <i>Teachers' Perspectives on Getting Students to Work Together</i>
9:40–9:55	Cont.	Thomas Judson <i>The Role of Inquiry-Based Learning in Developing Teacher-Leader</i>	Bin Lu <i>Directing Independent Study Classes Using IBL</i>
10:00–10:15	Cont.	Brandy Comer <i>Presentation Days in Calculus I and II, The First Time Around</i>	

10:15–10:30 Break (Ballroom Prefunction)

10:30–11:30 David Pengelley, New Mexico State University (Salon C)  
How to beat the lecture/textbook trap, and then throw them both away!

11:35–12:00 Five-Minute Talks, Session III

12:00–12:15 **Concluding Remarks and Thanks**  
Jacqueline Jensen-Vallin, Slippery Rock University  
Angie Hodge, University of Nebraska Omaha



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