Fifteenth Annual
Legacy of R.L. Moore Conference
June 14-16, 2012, Austin, Texas

Program Committee
Jacqueline Jensen–Vallin (Co-Chair)  Ron Taylor (Co-Chair)  Gavin LaRose
Stan Yoshinobu  Tom Ingram  David Clark
Mike Starbird  Carol Schumacher  Brian Katz

Academy of Inquiry-Based Learning

Journal of Inquiry-Based Learning in Mathematics
Thursday, June 14

Omni C–F

10:00–1pm  Registration Begins

1:00 –1:15  Welcome & Overview
MC: Carol Schumacher, Kenyon College

MC: E. Lee May, Salisbury University

1:15–1:45  Lee Mahavier–Peterman, Goose Creek Consolidated ISD
Moore Method for the Masses: Illustrations of Success with Public School 9th Graders

1:50–2:30  Patrick Bahls, University of North Carolina - Asheville
Asking the Right Questions: Authentic Inquiry in Research and Education

2:35–3:30  CUPM Panel - Moderators and Organizers: Carol Schumacher and Michael Starbird
Panelists: Martha Siegel, Towson University, Chair of CUPM
David Bressoud, Macalester College
Michael Pearson, MAA
Beth Borroughs, Montana State University

3:30–3:45  Break for Refreshments (The Oaks)

3:45–4:30  New Users Panel–Geometry - Moderator and Organizer: David Clark, SUNY New Paltz
Panelists: Judith Covington, Louisiana State University Shreveport
Todd Grundmeier, California Polytechnic Institute
Gary Richter, Southwestern University
Keith Voss, The Lawrenceville School

Breakout Sessions

<table>
<thead>
<tr>
<th>Time</th>
<th>Omni C–F (Misc.)</th>
<th>Conference Center (Calculus/Analysis)</th>
<th>Omni A&amp;B (Math Ed.)</th>
<th>Southpark A&amp;B (Misc.)</th>
</tr>
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| 4:45–5:00  | Violeta Vasilevska  
Active Learning Strategies | Brandy Comer, Chris Sams, and Kimberly Wesberry  
The Moore Method  
Apprenticeship Program at Lamar University | Kelly Bubp, Greg Foley, Michael Smith  
Connections between Mathematics Education Research and R. L. Moore’s Legacy | William Donnell  
Slip and Slide Method of Factoring Trinomials with Integer Coefficients over the Integers |
| 5:05–5:20  | Banning Lary  
Distance Learning: IBL thrives in the Online Pedagogical Environment (Cont.) | Brandy Comer  
The Moore Method  
Apprenticeship Program at Lamar University | Vilma Mesa and Tim Whittemore  
Concerns About Teaching Mathematics with IBL Methods | Elwood Parker  
“IBL...without a Mathematician in Sight” |
| 5:25–5:40  | Ryan Dunning  
Preliminary Evaluation of an IBL Introduction to Proof Course for Humanities Majors | Dana Ernst  
Effective and Efficient Grading for an IBL Course | Brian Katz  
Higher-Order Tasks in an IBL Course | John Mayer, William Bond, and David Cosper  
Euclidean Geometry Rediscovered |

5:40–6:00  Free Time

6:00–7:00  Reception – Cash Bar

7:00–9:00  Dinner and Banquet Speaker  (Omni C–F)
Jonathan Hodge, Grand Valley State University

*Inquiry, Authority, and Democracy*
### Continental Breakfast (The Oaks)

**MC:** Judith Covington, Louisiana State University Shreveport

8:30–9:00  Diana White, University of Colorado Denver  
*Math Teachers’ Circles: Inquiry-Based Learning for Practicing Teachers*

9:05–9:35  James Epperson, University of Texas - Arlington  
*The Role of Inquiry-Based Learning and Metacognition in Emerging Scholars Programs*

**9:35–10:05 Break (The Oaks)**

10:05–10:45  **Five Minute Talks, Session I**  
Including a discussion of available resources with:  
Stan Yoshinobu & Mark Stankus—AIBL & Visiting Speakers’ Bureau  
Ted Mahavier—JIBLM & Math Nerds

10:50–11:20  Karen Rhea, University of Michigan  
*IBL in Calculus*

11:25–11:55  Jill Guerra, University of Arkansas–Fort Smith  
Catherine Beneteau, University of South Florida Tampa  
*POGL - Not Your “Everyday” Group Work*

12:00–1:00  **Lunch (Omni C–F)**

**MC:** Angie Hodge, University of Northeast Omaha

1:00–1:45  Experienced User Panel: Dealing with Challenges of IBL - Moderator and Organizer: Stan Yoshinobu  
**Panelists:**  
David Clark, SUNY—New Paltz  
Brian Katz, Augustana College  
E. Lee May, Salisbury University  
Carol Schumacher, Kenyon College

1:55–3:00  **Five Minute Talks, Session II**

3:00–3:30  **Break (The Oaks)**

3:30–4:00  David Bressoud, Macalester College  
*Characteristics of Successful Programs in College Calculus: Preliminary Findings*

### Breakout Sessions

<table>
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</tr>
</thead>
</table>
| 4:10–4:25| Roundtable A | Brie Finegold  
*Teaching Undergraduate Topology with the Moore Method* | Rachel Schwell and Roger Vogeler  
*Modified Moore Method in Discrete Math* | Math Teachers’ Circle  
Demonstration:  
*Games and Symmetry* |
| 4:30–4:45| (cont.) | Scott Beaver  
*Reflections on a Self-Paced Complex Analysis Course* | Dylan Retsek  
*Chop Wood, Carry Water, Use Definitions* | (Cont.) |
| 4:50–5:05| Roundtable B | Krystyna Kuperberg  
*From Insight to Proof* | Susan Crook  
*How Important is the Final Answer? Using IBL in an Introductory Proofs Course* | (Cont.) |
| 5:10–5:25| (cont.) | Joyati Debnath  
*Measure Theory for Undergraduates via IBL Method* | Annie and John Selden  
*Mathematical and Non-Mathematical University Students’ Proving Difficulties* | (Cont.) |

### Free Evening
MC:  E. Lee May

7:30–8:30   Buffet Breakfast (The Oaks)

8:30–9:00   Sandra Laursen, University of Colorado Boulder  
            *Navigating the Straits: Critical Teaching Decisions in IBL Instruction*

9:00–10:00  Ron Douglas, Texas A&M University  
            IBL Centers Update

10:00–10:30 Break (The Oaks)

10:35–11:15 Five-Minute Talks, Session III

11:15–11:45 Panel: Using IBL in service courses  
            Organizer: Jacqueline Jensen–Vallin  
            Moderator: E. Lee May  
            Panelists: Michael Starbird, University of Texas at Austin  
                      Elwood Parker, Guilford College  
                      Christine von Reness, Westfield State University

11:45–12:00 Concluding Remarks  
            Stan Yoshinobu–Cal Poly San Luis Obispo

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