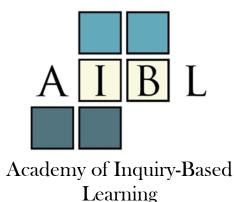
Educational Advancement Foundation



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) Hanna Bennett Nathaniel Dean Dana Ernst Kyeong Hah Tom Ingram Brian Katz Vilma Mesa Carol Schumacher Ron Taylor Stan Yoshinobu



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

2:30–3:35 Parallel Sessions: Implementing IBL

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

3:45-4:15	Break for Refreshments	(Ballroom	Prefunction ?)

4:15–5:15 The Future of the IBL Projects at EAF (Salon C)

Panel Discussion and Q&A:

Ron Douglas, Texas A&M

Tina Straley, MAA and Kennesaw State University, Retired

IBL Strategic Planning Committee Members

5:30–6:30 **Cocktail Hour and Reception – Cash Bar** (Ballroom Prefunction)

6:30–8:00 **Dinner and Banquet Speaker** (Salon C)

Coke Reed, Data Vortex Technologies, introduced by John W. Neuberger

Mathematical Heroes: The Journey of Independent Thinkers and the Computer as a Mathematical Object

Friday, June 14

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 Discussions. See Abstracts for Topics

10:30–11:00 **Break for Refreshments** (Ballroom Prefunction)

11:00–11:30 **Five Minute Talks, Session I** (Salon C) Introductions by Judith Covington, LSU-Shreveport

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 Committee on the Undergraduate Program in Mathematics)

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) Introductions by Dana Ernst, Northern Arizona University

2:00–3:30 Parallel Sessions: 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 Getting Everyone Involved in Calculus: IBL-Style	Stan Yoshinobu Using IBL in Courses for Future Elementary Teachers	Anna Spice Success and Failure in Intro-to- Proof	Anne Cawley Resource Use of Pre-service Elemen- tary Teachers in an IBL Mathematics Content Course
2:25–2:40	Larissa Schroeder Flipping Calculus to En- hance Student Engagement	Brian Katz Teaching Mathematical Maturity through IBL Axiomatic Geometry	Steven Schlicker Abstract Algebra: An Inquiry- Based Approach	Nina White How Pre-service Teachers in an IBL Content Course Revise their Mathematical Communication
2:50-3:05	Ed Parker Finding a Proper Platform for Appropriate Rigor	Ali Shaqlaih IBL in Math for Elementary Teachers Course	Andy Schultz Cross-Institutional Refereeing in Two IBL Number Theory Classes	Kelly Bubp An Evaluation of Selected Notes From the Journal of Inquiry-Based Learning in Mathematics
3:15–3:30	John Neuberger Calculus and IBL	Michael Matthews Engaging Teachers in a History of Mathematics Class Using IBL	Dana Ernst Implementing IBL in an Introduc- tion to Proof Course	Sandra Laursen and Chuck Hayward Building Momentum in a Movement

3:30–4:00 **Break for Refreshments** (Ballroom Prefunction)

4:00-5:30 Parallel Sessions: 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 the 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 Math Teachers Circle	Patrick Rault Daily E-feedback on Informal E-homework	Workshop: Mathematical Inquiry in the Liheral Arts	Emily Cili-Turner Collaborative Revision and its Effects on Undergraduate Proof Skills
4:25–4:40	Continued	PJ Couch A Foray into College Algebra via IBL	Continued	Julie Sutton and James Epperson A Comparison of How Emerging Scholars Program and Non-emerging Scholars Students Critique and Rate
4:50-5:05	Henry Fowler and Tatiana Shubin Navajo Nation Math Circles	Elizabeth Thoren WikiLogs: Students Reporting on Pre-Work	Continued	
5:15–5:30	Continued	Amy Ksir Inquiry-Based Calculus III at the U.S. Navy Academy	Continued	

Saturday, June 15

MC: Jacqueline Jensen-Vallin, Slippery Rock University

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

9:00–10:15 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 Lessons from the IBL Centers Projects	Cornelius Stallmann A Tribute to William "Bill" Mahavier	Suzanne Doree Teaching Conjecturing
9:20–9:35	Cont.	Bernd Rossa A Tribute to William "Bill" Mahavier	Tim Whittemore Teachers' Perspectives on Getting Students to Work Together
9:40–9:55	Cont.	Thomas Judson The Role of Inquiry-Based Learn- ing in Developing Teacher-Leader	Bin Lu Directing Independent Study Classes Using IBL
10:00–10:15	Cont.	Brandy Comer Presentation Days in Calculus I and II, The First Time Around	David J. Hunter Presentations and Portfolios in Introductory Statistics

10:15–10:45 **Break** (Ballroom Prefunction)

10:45–11:45 David Pengelley, New Mexico State University (Salon C)

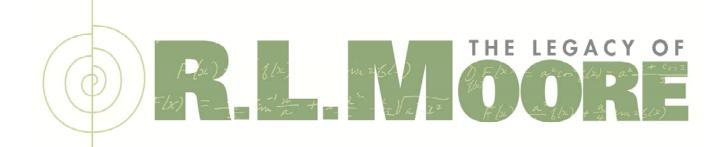
How to Beat the Lecture/Textbook Trap, and Then Throw Them Both Away!

Melding Inquiry-Based Alternatives for Both

11:45–12:15 Five-Minute Talks, Session III

12:15–12:30 Concluding Remarks and Thanks

Jacqueline Jensen-Vallin, Slippery Rock University



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