



AGENDA

April 10 & 11, 2014 | [Inn at Brunswick Station](#)
4 Noble Street, Brunswick, Maine
Hosted by Apple AB & MICDL

Välkommen | Velkommen
Welcome to Maine!

International Digital Learning Community Teaching and Learning Mathematics with Technology

6:30 AM **Breakfast Buffet**
Inn at Brunswick Station, Robinson Room

7:15 AM **Welcome Colleagues from Denmark and Sweden to Maine**
[Roger Fuller, Ph.D.](#), Executive Director, MICDL

7:30 AM **The Maine Learning Technology Initiative**
[Jeff Mao](#), Learning and Technology Policy Director
Maine Department of Education



8:00 AM **Teaching & Learning Mathematics with Technology** - [Dr. Pamela Buffington, Ph.D.](#),
Education Development Corporation, Inc.

Dr. Buffington has led and been involved in numerous technology integration in mathematics research and professional development projects over the past three decades both nationally and within Maine. Dr. Buffington will provide an overview of what we know about the use of technology to support mathematics learning and teaching; and more broadly then lessons learned from specific

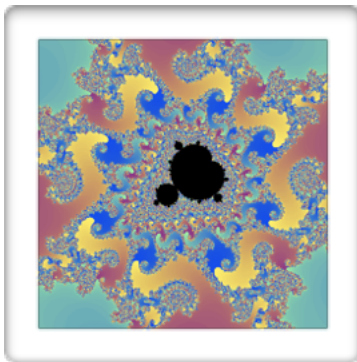
initiatives undertaken in one-to-one mathematics classrooms in Maine— including the Maine Impact Study of Technology in Mathematics, the Open Educational Resources (OER) Professional Development Project, the Supporting Struggling Students in Mathematics: Focus on GeoGebra in Algebra Project, Access to Algebra using Interactive Technologies, and Reducing Barriers by Addressing Misconceptions in Mathematics Projects. Additionally, Dr. Buffington will provide specific research-based approaches and examples of interactive mathematics tools being used in Maine.

9:00 AM **Group Questions & Goals: What do you know? What do you want to learn?**
Facilitators: [Lisa Hogan](#), Education Development Corporation, Inc.

[Jill Spencer](#) & [Chris Toy](#), Learning Capacity Unlimited

9:45 AM **Gather in Lobby** - Facilitators will lead caravan to Freeport

- 9:55 AM** **Depart for Freeport Middle School** - 19 Kendall Lane, Freeport
- 10:15 AM** **Arrive at [Freeport Middle School](#)**
- 10:30 AM** **Teaching and Learning Tour**
Meet Students, Teachers & Alex Briasco-Brinn's 8th Grade Class
 Ray Grogan, Principal & Laura Girr, Technology Teacher, Freeport Middle School
- 11:30 AM** **Box Lunch in the Library**
12:15 PM **Facilitated Discussion**
 Lisa Hogan & Pam Buffington, Education Development Corporation
 Library, Freeport Middle School



- 1:00 PM** **Teaching Polynomials: Technology & Philosophy**
 Alex Briasco-Brin and 8th grade students.

“Welcome to the world of math. I find math refreshing because it’s a purely intellectual endeavor, independent of race, gender, sexual orientation, age, nationality, economic status, religion and politics. I find working with math to be fulfilling because it satisfies both my logical side and my creative side. I enjoy the immense sense of satisfaction after being happily lost in long periods of intense concentration over a math problem. I also enjoy the ability to be able to think in solitude while enjoying nature or just relaxing. I’ve always been amazed by the patterns, beauty and power of math. I’ve also benefited from the feeling of freedom and independence which studying math gives me. I like contemplating the ideas of infinity and the fact that math is the only place where this makes sense. I enjoy the challenge of writing computer programs to explore or better understand math. I’m comforted by math because It’s the only place where absolute truth exists. Doing math has helped me develop a feeling of inner peace and a better appreciation of the world around me.” - Alex Briasco-Brin

- 2:00 PM** **Return to Inn at Brunswick Station**
- 3:00 PM** **Essentials of Leadership; Conditions for Innovation**
 Panel Discussion with [Yarmouth High School](#)
 Ted Hall, Principal; Alice Barr and Cathy Wolinsky, Technology Integrators
- 4:15 PM** **Break**
- 5:30 PM** **Social with International Learning Community**
 Robinson Room, The Inn at Brunswick Station
- 6:30 PM** **Dinner & Keynote by Martin Fernström**
 Received Sweden’s National Education Award in Math

8:30 PM Evening notes for Friday morning school visit

Friday, April 11th

6:00 AM Breakfast Buffet

6:45 AM Leave for Auburn Middle School - 38 Falcon Drive, Auburn
Meet in Lobby to caravan with groups

8:00 AM Welcome to [Auburn Middle School](#)
Dr. Mike Muir, [Advantage 2014](#)

8:05 AM Auburn Middle School - Class Room Visits

8:50 AM Drive to Washburn Elementary
35 Lake Auburn Ave Auburn

9:10 AM [Washburn Elementary](#) Classroom Visits

10:00 AM Panel Discussion with Auburn School Leadership

Peter Robinson, Technology Director; Holly Couturier, Principal;
Jim Hand, Principal; Carol Miller, Technology Coach & Dr. Mike Muir



11:15 AM Return to Inn at Brunswick Station

12:30 PM Lunch in the Robinson Room

1:30 PM Group Discussion & Planning
Facilitated by Lisa Hogan, Chris Toy & Jill Spencer

What did we learn? How will we translate this work to change teaching and learning of math in our communities? How will we share our work and continue discussion?

3:00 PM Final Research Discussion

4:00 PM Closing & Recommendations
Mikael de Sousa Mestre, Apple AB & Roger Fuller, MICDL

8:00 PM Dessert Social
Served in Robinson Room until 10:00 PM

Weekend Breakfast at the Inn's Tavern, then Explore & Enjoy Maine!

Things to Do, Places to Go



[Brunswick Downtown & Museums](#)
[Freeport! Outlet Shopping](#)

[Portland Downtown Shopping & Waterfront](#)
[Portland Museum of Art](#)
[Portland Headlight](#)

[Coastal Drives to: Farnsworth Art Museum & The Wyeth Center, Rockland & Boothbay Harbor](#)

Suggested Readings, Research & Articles

[Join us on Linked IN — MICDL Group](#)

National Council of Teachers of Mathematics - position statement on technology
[Technology in Teaching and Learning Mathematics](#)

Mathematics Teacher TPACK Standards and Development Model
<http://www.citejournal.org/vol9/iss1/mathematics/article1.cfm>

Open Education Resources in Math Final Report
http://maine.edc.org/file.php/1/oer/OERMATHPD_ME_TitleIID_2010-2011.pdf

Maine Impact Study of Technology in Mathematics
<http://www2.umaine.edu/mepri/sites/default/files/MISTM%20AERA%20March%202008.pdf>

Representational Technology For Learning Mathematics: An Investigation of Teaching Practices in Latino/a Classrooms
<http://www.sri.com/sites/default/files/publications/imports/VaheyEtAl%20ICLS2010SimCalcELL.pdf>

<http://www.sri.com/work/publications/representational-technology-learning-mathematics-investigation-teaching-practices->

Model-Centered Learning: Pathways to Mathematical Understanding Using GeoGebra 6 2011
<http://lib.freescienceengineering.org/view.php?id=835125>

Alex Briasco Brin's 8th Grade Math
<https://sites.google.com/a/rsu5.org/8th-grade-math/>

[Maine Learning Technology Initiative allows algebra teacher to develop curriculum without textbooks.](#) Maine DOE Newsroom, April 26, 2011.

[Dr. Mike Muir, Does Technology Improve Learning, No! - Blog and Leading with Technology - Mauri Dufour](#)