



## MMSA Symposium Agenda

May 25, 2018

University of Maine Augusta

Jewett Hall

- **8:00 - 8:30 Registration**
- **8:30 - 9:00 Welcome and Keynote**
  - Building Community and Your Network
- **9:00 - 9:45 Concurrent Lessons Learned Sessions** - led by educators, partners, and skill builders with MMSA Staff
  1. Giving Youth Voice and Choice **Perrin Chick, Bethany Poulin & Michelle Deblois Room 185**

Research shows that the more youth talk through STEM challenges, the more inclined they are to pursue STEM careers. How do we as educators foster this? Educators will see the skill in action, in a variety of educational settings. You will experience several engaging strategies and will leave with easy to adapt resources.
  2. Beyond “Hands on” Mathematics: Making shifts in secondary mathematics **Hannah Lakin, Renee Charette, Haley Colpitts (Telstar HS) & Susie Bright (Maine Academy of Natural Sciences) Room 190**

What does it take to move beyond “hands-on” math activities led by a teacher to a student-centered environment where students are doing mathematics in the field? From working on modeling wind power at the local wind farm to designing a school of the future, teachers from the Experiential Math Project will share some of their experiences facilitating math learning experiences beyond the walls of the classroom.
  3. The STEM Hub @ Roberts Farm: How MSAD 17 cultivates STEM learners Outside- of- School **Jennifer Atkinson, Jan Mokros & Pat Carson Room 189**

Pat Carson from Oxford Hills School District will present on how MMSA has helped transition the school district’s summer camp at Robert’s Farm into a summer of STEM learning.
  4. Skill Builder: Host Your Own Family Code Night! **Stefany Burrell Room 180**

Family Code Night is a community event that engages children and their parents as they do their first hour of coding together. In this workshop, we'll look at the original elementary programming and get a preview of the new middle school activities. You

will leave this session with the tools and support you need to host a Family Code Night in your own school, library, afterschool program, or community center.

- **10:00 - 10:45 Concurrent Lessons Learned Sessions** - led by educators, partners, and skill builders with MMSA Staff

1. *Being a "STEM Guide" in the Classroom:* Jennifer Atkinson, Jan Mokros & Alyson Saunders **Room 189**

Alyson Saunders from Dexter High School will present about how she applies her STEM Guides "brokering" skills to her work as a classroom teacher. She'll share what she's learned about supporting her students in noticing and pursuing STEM learning experiences outside-of-school.

2. *The Art of Asking Purposeful Questions* Perrin Chick, Sue Allen & Scott Byrd **Room 185**

When we reflect on the questions we ask youth, we often see that we are not intentional nor effective. Asking purposeful questions means first thinking about the purpose of a lesson, then planning out some of the questions we use to explore youth thinking. The ACRES project has been encouraging educators to record their teaching and reflect on their practice by focusing conversation on the art of asking purposeful questions.

3. *Today's Maine State Science Fair* Stefany Burrell, Sarah Southam (Telstar High School) & Rad Mayfield (Old Town High School) **Room 180**

Behind every great science fair project is a supportive teacher. Come meet some of our Teacher Fellows and hear how they've provided the opportunity for their high school students to present their own original scientific research and engineering design projects at the Maine State Science Fair.

4. *"Learning About" to "Figuring Out:" Leading the Shift to Three-Dimensional Teaching & Learning* Lynn Farrin, Lisa Marchi Holly Patenaude (Songo Locks Elementary School), Stacey Woidt (Casco Bay High School), Bethany Poulin (Dirigo Elementary School) & Diana Allen (Sanford Junior High) **Room 190**

Come learn about the shifts from "learning about" to "figuring out" as outlined in the Framework and NGSS. Hear how ME teacher leaders are applying their learning about the major shifts in their classrooms. Develop plans for how you might be able to lead the change initiative in your school!

- **11:00 - 12:00 Panel Discussion and Break Out Groups: Building Your Professional Networks** Anita Bernhardt, Margo Murphy & Tom Keller **Auditorium**

During this session we will hear personal stories from some of our field's most highly respected leaders about how they began building networks and how they influenced

their work throughout their careers. You will also have the opportunity to break out into small groups to discuss one of the following topics: 1) how do you enter and bring others into a network; 2) how do you keep a network fresh; and 3) how do you become a leader in a network.

- **12:00 - 1:00 Lunch**

- **1:00 - 1:45 Concurrent Sessions** - led by educators, partners, and skill builders with MMSA Staff

1. *The Computer Science Landscape in Maine* Tom Keller, Laura Johns (Ellsworth MS), Gretchen Nelson (Traip Academy), Allison Braley (Bucksport MS) & Mike Harvey (Falmouth Elementary School) **Room 180**

Join a panel of teachers who are implementing computer science instruction, some as long-time CS teachers, some new to the task. Hear their stories about successes and barriers to their efforts, and about support for CS in their schools and finding quality professional development that supports their work.

2. *WeatherBlur: Helping teachers excel in place-based learning* Lisa Marchi, Amy Hafford and Diane Gilmore (Searsport Elementary) Laura Venger (North Haven Community School), John Van Dis (Edna Drinkwater Elementary School) & Marci Train (Long Island School) **Room 190**

Join a panel of WeatherBlur teachers who have developed and run place-based citizen science learning in their local communities. See examples of how teachers have led students through SMART questioning, forming protocols and investigations, collected and analyzed data about important issues for their schools and towns.

3. *Skill Builder: Zoom* Perrin Chick **Room 185**

Skype can be tricky to use, Google Hangout has its hang-ups, and Zoom is certainly not your father's Adobe Connect. Come learn about this versatile tool that is changing the way people come together. Whether you want to connect kids to geologists or you want to connect to colleagues on snow days, here's why Zoom is our preferred platform.

- **2:00 - 2:30 Closing Group Activity** - Linking formal and informal education

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