



No Question Left Behind: Bringing Guided-Inquiry Curricula into Science and Mathematics Classrooms

Monday, June 22 – Tuesday, June 23, 2009
 Schoodic Education and Research Center

*3rd Biennial one-and-a-half-day conference for middle- and high-school
 science and mathematics teachers*

Hosted by the University of Maine Center for Science and Mathematics Education Research (Center) and the Jackson Laboratory, with support from the Howard Hughes Medical Institute, and the Bank of America Company, trustee of the Lloyd G. Balfour Foundation, and Maine EPSCoR at the University of Maine, which is funded by the National Science Foundation under Grant No. EPS-0554545

Sunday, June 21

Time	Event	Location
7:00-8:30 PM	Check-in for participants pre-registered for housing on Sunday night	Moore Auditorium

Monday, June 22

Time	Event	Location
7:30-8:15 AM	Registration and Continental Breakfast	Moore Auditorium
8:15-8:30 AM	Welcome: Dr, Susan McKay, <i>Director of The Center for Science and Mathematics Education Research and Professor of Physics</i> <i>Amie Gellen, Assistant Director, Center for Science and Mathematics Education Research</i>	Moore Auditorium
8:30-9:15 AM	<i>Are you really teaching if no one is learning? Research on how interactive-lecturing can be used to improve student learning</i> Edward Prather, Associate Research Scientist and Senior Lecturer, Director of the Center for Astronomy Education, University of Arizona	Moore Auditorium

9:15-10:00 AM	<i>How Learning Through Inquiry Changed Our Teaching Philosophy</i> Alice Putti, Chemistry Teacher, Jenison High School, Michigan Sarah Toman, Chemistry Teacher, Western Michigan Christian High School,	Moore Auditorium
10:00-10:15 AM	Coffee Break	
10:15-11:00 AM	<i>Project Lead The Way® Curricular Programs Promote STEM achievement</i> Carolyn Malstrom, Director of Curriculum for Biomedical Sciences Project Lead The Way	Moore Auditorium
11:00-11:45 AM	<i>Inquiry As Argument: Debating Our Way Into Science</i> Leslie Atkins, Assistant Professor Science Education & Physics California State University, Chico	Moore Auditorium
11:45 AM-12:30 PM	<i>Breaking the Mold: rethinking professional development in K-16 STEM education</i> Diane Ebert-May, Professor, Plant Biology, Michigan State University	Moore Auditorium
12:30-1:30 PM	Lunch	Schooner Dining Commons
1:30-3:30 PM	Workshops	See page 3
3:30-3:45 PM	Snack Break	Moore Auditorium
3:30-5:00 PM	free time	
4:30-5:00 PM	Poster Session set-up	Moore Auditorium
5:00-6:00 PM	Poster Session & Reception (appetizers)	Moore Auditorium
6:00-7:00 PM	Dinner	Schooner Dining Commons
7:00-7:30 PM	<i>An Astronomer Walks into a Buddhist Temple and Asks.....</i> Edward Prather, Associate Research Scientist and Senior Lecturer, Director of the Center for Astronomy Education, University of Arizona	Schooner Dining Commons

Tuesday, June 23

Time	Event	Location
7:30-8:30 AM	Breakfast Buffet	Schooner Dining Commons
8:30-10:30 AM	Workshops	See page 4
10:30-10:45 AM	Coffee Break	Moore Auditorium
10:45 AM-12:00PM	Open Space: How can we collaborate to implement the approaches to teaching and learning we have shared at the conference: in my classroom, in my school, in Maine?	Moore Auditorium
12:00-12:15 PM	Wrap-up, conference evaluation & lunch ticket	Moore Auditorium

12:15-1:15 PM	Lunch	Schooner Dining Commons
1:15-3:15 PM	Reconvene participants of 2008 Summer Academy courses	To-Be-Announced
2:30-2:45 PM	Snack Break	Moore Auditorium
3:15-3:30 PM	Driving questions for moving forward: feedback from 2008 Summer Academy meetings	Moore Auditorium

Time: 1:30-3:30 PM	Monday Afternoon Workshops	Location
	<p><i>Structuring Scientific Debates</i></p> <p>Leslie Atkins, Assistant Professor Science Education & Physics, California State University, Chico</p>	SEA Middle classroom
	<p><i>Wood Your Students Use Real Data?</i></p> <p>Patricia Bernhardt, Life Science Teacher, James F. Doughty Middle School, Bangor, Elizabeth Haynes, Mathematics Teacher, Troy Howard Middle School, Belfast, Maine Tracy Vassiliev, Applied Science and Accelerated Physical Science Teacher, Bangor</p>	Dorr classroom
	<p><i>Teaching for Understanding in Science: Active Learning and Assessment</i></p> <p>Diane Ebert-May, Professor, Plant Biology, Michigan State University</p>	SEA Chapel
	<p><i>Inspiring Girls in the STEM fields: From Research to Practice</i></p> <p>Mary Madden, Associate Research Professor, University of Maine</p>	Moore Auditorium & Break-out rooms TBA
	<p><i>How to Give Your Activities/Labs an Inquiry Make Over</i></p> <p>Alice Putti, Chemistry Teacher, Jenison High School, Jenison, Michigan Sarah Toman, Chemistry Teacher, Western Michigan Christian High School, Muskegon, Michigan</p>	Moore classroom 2

Time: 8:30-10:30 AM	Tuesday Morning Workshops	LOCATION
	<p><i>The Importance of Talk and Argument in the Science Classrooms</i></p> <p>Anita Bernhardt, Science & Technology Specialist, Maine Department of Education</p>	SEA Middle classroom
	<p><i>Project Lead The Way® Biomedical Sciences™ Program—Hands-on Investigative Science</i></p> <p>Carolyn Malstrom, Director of Curriculum for Biomedical Sciences, Project Lead The Way</p>	Dorr classroom
	<p><i>Guiding the discovery of $y = mx + b$, $y = ab^x$, and $y = x^2 + b$</i></p> <p>W. Tad Johnston, Mathematics Teacher, William S. Cohen School, Bangor, Maine</p>	SEA Chapel
	<p><i>Methods for Maximizing the Effectiveness of Interactive Lecturing</i></p> <p>Edward Prather, Associate Research Scientist and Senior Lecturer, Director of the Center for Astronomy Education University of Arizona</p>	Moore classroom 1
	<p><i>Mercury in Maine watersheds, biota, and people: The Acadia Learning Project</i></p> <p>Bill Zoellick, Program Development Director, Acadia Partners for Science and Learning, Yvonne Davis, Education Program Coordinator, Acadia Partners for Science and Learning & Sarah Nelson, Senator George J. Mitchell Center for Environmental and Watershed Research</p>	Moore classroom 2

Time: 1:15-3:15 PM <u>Facilitator</u>	Tuesday Afternoon 2008 Summer Academy meetings	LOCATION
Molly Schaffler Susan Klemmer	<u>SCIENCE</u>	Moore classroom 1
	Aquaculture Workshop: Domestication of Aquatic Organisms	
	Building Inquiry-based, Student-driven Research into Science and Mathematics Programs	
	IDEAS: Inquiry-based Dynamic Earth Applications of Supercomputing	
	Understanding Climate Change	
Amie Gellen	<u>MATHEMATICS</u>	Moore classroom 2
	Using Sliders in Mathematics Instruction	
	Mathematics with Technology	
	Web Based Resources to Assist in Calculus Instruction	
	Explorations in Classical Geometry	