

Summary of Special Interest Groups

Tuesday, January 24, 2012

8 a.m. - 9 a.m.

Breakout Room 2: *STEM Education at the U.S. Department of Education*

U.S. Department of Education staff will discuss federal administration efforts through the Department of Education to stimulate and support K-12 STEM education.

Facilitator: Pat O’Connell Johnson, Team Leader, Mathematics and Science Partnership, United States Department of Education

Breakout Room 3: *Evaluation*

Evaluating MSP projects is challenging and important work that requires a wide range of resources and knowledge. This SIG offers an opportunity for MSP project evaluators to share how we approach the work, including our goals as evaluators, strategies, resources, and common challenges, and perhaps to develop a network of evaluators within the MSP community who continue to share ideas after the LNC.

Facilitator: Joan Karp, Senior Research Associate, Program Evaluation Research Group, Lesley University

Congressional A: *Common Core State Standards in Mathematics - Secondary*

This group will discuss the Common Core State Standards in Mathematics, focusing on the high school level and how to support the enactment of the standards for mathematical practice.

Facilitator: Bill Schmidt, University Distinguished Professor of Mathematics, Michigan State University

Congressional B: *Common Core State Standards in Mathematics - Elementary*

This group will discuss the Common Core State Standards in Mathematics, focusing on K-8 and how to support the enactment of the standards for mathematical practice.

Facilitators: Linda Foreman, President and Executive Director, Teachers Development Group
Amy Cohen, Professor of Mathematics, Rutgers University

Grand Ballroom: *Framework for K-12 Science Education and Next Generation Science Standards*

This SIG will include a brief review of the new Framework and the progress of the Next Generation Science Standards. The session will then focus on discussion, questions and answers related to these documents. The session will be led by the Director of the Board on Science Education at the National Research Council.

Facilitator: Martin Storksdieck, Director, Board on Science Education, National Academy of Sciences / National Research Council

Breakout Room 4: *Learning Progressions - Science*

Learning progressions in science form part of the foundation for the new Framework for K-12 Science Education and are an emerging area of research interest. This SIG will engage participants in discussion of what learning progressions in science are and how this area of research may be relevant to MSP projects.

Facilitator: Scott McDonald, Associate Professor, Science Education, Pennsylvania State University

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Breakout Room 5: *Learning Progressions - Mathematics*

Learning trajectories in mathematics are a similar, or perhaps the same, idea as learning progressions in science. Last year's MSP Learning Network Conference keynote speaker, Jere Confrey, shared with the MSP community work she has been conducting on a learning progression for K-8 rational number reasoning. This SIG offers an opportunity to continue discussing what learning progressions in mathematics are and how this area of research in mathematics education may be relevant to MSP projects.

Facilitator: Susan Graupner, Mathematics Coordinator, Lincoln Public Schools

Breakout Room 9: *Nuts and Bolts of Project Management*

Managing MSP projects well is critically important and complex work. This SIG offers an opportunity for project directors and other project administrators to share wisdom, strategies, challenges, and opportunities in the work of managing MSP projects.

Facilitator: Julie Tilton, Project Director, West Texas Middle School Math Partnership

Breakout Room 10: *Ocean and Environmental Sciences*

Ocean and environmental sciences offer interdisciplinary and engaging science education opportunities. This SIG aims to bridge ocean and environmental efforts within the MSP Learning Network. The goal is to learn from each other, share best practices, knowledge, and networks, and further ocean and environmental science literacy nationally as well as locally. Please come to this SIG with handouts and other informational materials for distribution, and be prepared to discuss your interests informally for 2-3 minutes, as a prelude to sharing ideas, knowledge, and resources to increase connections between existing social and professional networks. This exchange is sponsored by COSEE Ocean Education Communities And social Networks (COSEE OCEAN), and as such serves as a connection to the national Network of 13 COSEE Centers.

Facilitator: Robert Chen, Professor, Earth, Environmental and Ocean Science Department, University of Massachusetts Boston

Breakout Room 11: *Engineering Education*

Collectively, recent MSPs awarded in the area of engineering education cover nearly the entire K-16 educational continuum and are involved in working with pre-service and inservice teachers to create and deliver innovative and exciting curricula that will allow their students to discover what engineering is, what engineers do, and the role that engineering plays in shaping their world. This SIG session will include brief overviews of each engineering-focused MSP, a summary of results to date, accomplishments and challenges, and a structured discussion on how to best move forward, both individually and collectively, in leveraging each others' experiences and expertise as well as how to effectively include stakeholders across the nation interested in engineering education.

Facilitator: Brenda Capobianco, Associate Professor, Engineering Education, Purdue University