

2009 MISF STEM Teacher Seminar

***Transformative Learning:***

***Developing Citizens to Create, Innovate and Serve the World***

October 21, 2009

at the Science Museum of Minnesota

Sponsored By:



SCHOTT FOUNDATION

- 7:15 am Registration and Networking, Continental Breakfast Served**
- 8:00 am Welcome and Introductions**  
Jim Field, MISF President & Liesl Chatman, Director of Professional Development, SMM
- 8:15 am Keynote Address: *Transformative Learning***  
Dr. Alex Cirillo, Vice President of Community Affairs, 3M
- 8:45 am *Engaging Students' Minds & Hearts: Guided Inquiry & Service Learning***  
Dr. Jan Hansen, University of St. Thomas Dept. of Teacher Education
- 9:15 am Break / Peer Discussions / Time to Explore Exhibits**
- 9:45 am MISF STEM Mini-Grant Demonstration Projects**  
· *The Coming Plague: Is H1N1 Still Developing?* — Saint Bernard's High School  
· *Superior Hiking Trail Bridge Building Project* — Maranatha Christian Academy  
· *Water Quality Quest* — Holy Trinity Middle School, New Ulm  
& St. Mary's Elementary & High Schools, Sleepy Eye
- 11:00 am Facilitated Discussion of Mini-Grant Demonstration Projects**  
Facilitators — Dr. Jan Hansen & Dr. Alex Cirillo
- 11:20 am Announcement of Competitive Mini-Grant Program**  
Jim Field, MISF President
- 11:30 am Lunch, Peer Networking**
- 12:35 pm Concurrent Breakout Sessions (50 minutes each)**  
· *Engineering, the Environment & Service Learning* • *Technology Literacy Standards*  
· *Engineering Design for the Elementary Grades* • *Science House Orientation*
- 1:25 pm Break w/Refreshments Available / Peer Discussions / Time to Explore Exhibits**
- 2:00 pm Concurrent Breakout Sessions (50 minutes each)**  
· *Design Thinking* • *Community Resources for STEM Education*  
· *Service Learning Standards* • *Science House Orientation*
- 2:50 pm Wrap Up / Door Prize Drawing / Distribution of CEU Certificates**
- 3:00 pm Adjourn**

*Agenda current as of 9/21/09*

*Changes may be made as necessary based on availability of speakers and presenters.*