

# Mining and Water Resources

# Agenda

## Minnesota Ground Water Association Spring Conference 2010 May 6, 2010

8:00 – 8:05	Steve Robertson	MGWA President	Introduction
8:05 – 8:50	Dr. Jim Miller	University of MN - Duluth	The Geology and Genesis of the Duluth Complex and its Ore Deposits
8:50 – 9:30	Ernest Lehmann	Franconia Minerals Corp	Mining in Minnesota
9:30 – 10:00	<b>Break</b>		
10:00 – 10:30	Jennifer Engstrom	Minnesota DNR	Permitting and Regulatory Framework for Metallic Mining in Minnesota
10:30 – 11:15	Dr. Rick Wilkin	U.S. Environmental Protection Agency	Monitored Natural Attenuation of Inorganic Contaminants in Groundwater
11:15 – 11:45	Dr. Michael E. Berndt	Minnesota DNR	Source and Fate of Sulfate Released by Mining on Minnesota's Iron Range
11:45 – 12:15	Brian Sperrazza	Foth Environment and Infrastructure	Hydrogeologic Characterization of Fractured Bedrock at Potential Mine Sites
12:15 – 1:15	<b>Lunch</b>		
1:15 – 1:45	Mike Liljegren	Minnesota DNR	Borehole Mining of Manganese near Emily, MN
1:45 – 2:15	O'Niell Tedrow	Northeast Technical Services	Groundwater/Surface Water Interactions and Aquatic Toxicity Testing
2:15 – 3:00	Jim Aiken <sup>1</sup> , Evan Christianson <sup>2</sup> , Cale Anger <sup>3</sup>	Barr Engineering Co. <sup>1,2</sup> University of MN <sup>3</sup>	Groundwater Considerations for Gravel Mining at UMore Park: Background, Groundwater Modeling, and Monitoring
3:00 – 3:30	<b>Break</b>		
3:30 – 4:00	Heather Arends	Minnesota DNR	Statewide Trends Impacting Aggregate Resource Availability
4:00 – 4:30	Scott C. Alexander	University of MN - Twin Cities	Hydrogeology of the Soudan Mine, Minnesota: Applications to Terrestrial and Extra-Terrestrial Research
<b>Special Breakout Session</b>			
1:15 – 2:30	Bruce Olsen and Bob Tipping	MDH and MGS, respectively	Hydrostratigraphic Naming Conventions
<p>This concurrent session will discuss the need, means and process for establishing standards for defining and naming hydrostratigraphic units in Minnesota. One goal is to differentiate aquifers from geologic units for use in regional studies and shared datasets.</p>			

### Continuing Education

This conference is designed to meet the criteria for continuing education for professionals registered with the MN Board of AELSLAGID.

This conference is approved for 6 continuing education credits for Minnesota Well License Renewals by the MN Department of Health.