

Schedule – Friday, May 12, 2017
Sand Mine Life Cycle Seminar – Eau Claire, WI

7:30 am – 8:30 am	Registration and Continental Breakfast
8:25 am – 8:30 am	Welcome
8:30 am – 8:55 am	Strategic Analysis for Sand Mines Roberta Walls – Industrial Sand Sector Specialist, WI Department of Natural Resources, Madison, WI
8:55 am – 9:20 am	Silica Sand Mining in Iowa Robert Libra – State Geologist of Iowa, IA Department of Natural Resources, Des Moines, IA
9:20 am – 9:45 am	Overview of Silica Sand in Minnesota Heather Arends – MN Department of Natural Resources, St. Paul, MN
9:45 am – 10:10 am	Local Regulations (Zoning) and Nonmetallic Mining Anna Haines, PhD – University of WI, Director, Center for Land Use Education, Stevens Point, WI
10:10 am – 10:25 am	Networking Break and Visit Posters
10:25 am – 10:50 am	Moratoriums on Frac Sand Mines Brian Nodolf – Nodolf Flory LLP, Eau Claire, WI Tanya Bruder – Nodolf Flory LLP, Eau Claire, WI
10:50 am – 11:15 am	Overview of the Newly Revised WPDES Program Matt Schowengerdt, PE – Foth Infrastructure & Environment, De Pere, WI Mark Krumenacher, PG – Senior Principal GZA, Waukesha, WI
11:15 am – 11:40 am	Groundwater Quality Issues in West-Central Wisconsin: Implications for Sand Mining Jay Zambito, PhD – Wisconsin Geological and Natural History Survey, Madison, WI
11:40 am – 12:05 pm	Establishing an Environmental Baseline for Surface Water and Groundwater Trace Metal Chemistry in Western Wisconsin Brian Mahoney, PhD – University of WI-Eau Claire, Eau Claire, WI
12:05 pm – 12:30 pm	Mt. Simon High Capacity Aquifer System – Western Wisconsin Darrell Reed, PG, CPG – Senior Scientist II, SEH, Chippewa Falls, WI
12:35 pm – 1:35 pm	Lunch
1:35 pm – 2:00 pm	High Cap Wells & Abandoning Drill Hole Procedures in Wisconsin Ian Anderson – WI Department of Natural Resources, High Cap Drinking Water Program, Madison, WI
2:00 pm – 2:25 pm	Northern White Sand versus Texas Brown Sand—Why Wisconsin Sand Is Still Important Kent Syverson, PhD – Geology Department Chair, University of WI-Eau Claire, Eau Claire, WI
2:25 pm – 2:50 pm	The Importance of Geotechnical Engineering Design of Earthen Retention Systems such as Ponds and Dams John Siwula, PE – Associate Principal, GZA, Waukesha, WI
2:50 pm – 3:15 pm	Mining Operations, Public Roadways and Overview of Methods Used to Minimize Potential Impacts Mark Krumenacher, PG, CPG – Senior Principal, GZA, Waukesha, WI

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3:15 pm – 3:30 pm	Networking Break and Visit Posters
3:30 pm – 3:55 pm	Capturing Quarry Images by Drone to Generate Large 3D Maps Jim Small, PG – Corporate Geologist, County Materials Corporation, Marathon, WI
3:55 pm – 4:20 pm	Chippewa County and Superior Silica Sands Reclamation Strategies: Fostering Soil Health Holly Dolliver – University of WI-River Falls, River Falls, WI
4:20 pm – 4:45 pm	Mine Reclamation – Case Study Marty Lehman – Badger Mining Corporation, Berlin, WI
4:45 pm – 5:00 pm	Concluding Remarks

Poster Presenters	
Managing Chippewa County’s Groundwater–Today and Tomorrow: Evaluating the Impacts of Industrial Sand Mines and Irrigated Agriculture on the County’s Water Resources Mike Parsen and Madeline Gotkowitz	
Origin and Extent of Sulfide Mineralization in the Wonewoc Sandstone Lisa Haas, Jay Zambito, and Esther Stewart	
Baseline Sandstone Aquifer Geochemistry for Municipalities near Industrial Sand Mines, Trempealeau County Jay Zambito, Lisa Haas, Erin Niemisto, Ethan Heyrman, and Mike Parsen	
Geochemical and Mineralogical Characterization of Trace Metal-Bearing Sandstones near Blair, Wisconsin Erin Niemisto, Jay Zambito, and Lisa Haas	
Potential for Komatiite-Hosted Nickel-Copper Mineralization in the Eastern Part of the Shebandowan Greenstone Belt, Ontario, Canada Samual Helmuth, Maile Olson, and Regan Jacobson – University of WI-Eau Claire	
Comparison of Ore Petrography and Composition of the Flambeau and Eisenbrey Massive Sulfide Deposits, Rusk County, WI Will Howard and Kaelyn Blotz – University of WI-Eau Claire	
Comparison of Hydrothermal Alteration Zones Associated with the Flambeau and Eisenbrey Massive Sulfide Deposits, Rusk County, WI Chase Friedemann and Eli Fredrickson – University of WI-Eau Claire	
Lateral Stratigraphic Variations in the Volcanic Lithofacies of the Eisenbrey Zn-Cu-Pb VMS Deposit, Rusk County WI Nathaniel Jackson – University of WI-Eau Claire	
Compilation of Historic Mineral Exploration Data Pertaining to the “Lost” Crandon Cu-Zn Deposit, Forest County, WI: Rediscovering Wisconsin’s Largest and Most Controversial Massive Sulfide Deposit Lucy Horst – University of WI-Eau Claire	

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Diagenetic History of Cambrian Sandstone Units in Western Wisconsin

Rachel Fliflet, Justin M. Poirier, J. Brian Mahoney, and Kent M. Syverson – University of WI-Eau Claire

Surface Water and Groundwater Chemistry of Western Wisconsin: Establishing an Environmental Baseline

Samantha R. Bartnik, Adam C. Wiest, Laurel J. Mc Ellistrom, J. Brian Mahoney, Stephen M. Sellwood, and Carly A. Mueller – University of WI-Eau Claire

Mobility of Trace Metals in Western Wisconsin Sediments Determined by Microwave Assisted Sequential Extraction Procedure

Carly A. Mueller, Melissa A. Hackenmueller, Adam C. Wiest, Laurel J. Mc Ellistrom, J. Brian Mahoney – University of WI-Eau Claire