Poking the Bear: How does pumping impact water quality?

Minnesota Ground Water Association Fall Conference, November 17, 2026

American Swedish Institute – 2600 Park Ave, Minneapolis, MN

	Start	End	Affiliation	Speaker	Title
AM	7:00	8:00		**Doors Open – Coffee & Light Breakfast**	
	8:00	**8:10**	MGWA	Jared Trost, Elizabeth Kluesner	Welcome, logistics
	8:10	**8:40**	WI DNR	Madeline Gotkowitz (Keynote)	Multiple Conceptual Models: Pumping and Other Factors Affecting Fate and Transport of Radium in Groundwater Systems
	8:40	**9:05**	ISG	Collin Smith	Enhancing Floodplain Aquifer Recharge Through Engineered Wetland Systems in Drought and Flood Prone Rural Iowa
	9:05	**9:30**	Traut	Daryl Karasch	Collecting Groundwater Samples During Sonic Drilling Process (short talk followed by Q&A with the driller)
	9:30	**9:55**	USGS	Andrew Leaf	A Stochastic Assessment of the Twin Cities Army Ammunition Plant Plumes Using MODFLOW 6 and the PEST++ Iterative Ensemble Smoother
	9:55	**10:10**	Various	Various	Lightning Talk Series (listed on back)
	10:10	**10:40**		**Break and Poster Session (Poster presenters listed on back)**	
	10:40	**11:05**	UMN	Xiang Li	Groundwater Nitrate Source Apportionment in the Pineland Sand Region Using Bayesian Modeling
	11:05	**11:30**	UMN	John L. Nieber	Demonstrating the Nitrate Tradeoff Exploration Tool
	11:30	**11:55**	Various	Carly Griffith, Janelle Kuznia, B.J. Bonin	Rethinking Well Interference: Water Quality and Policy Reform in Minnesota
	11:55	**12:00**	MGWA		Lunch Logistics
	12:00	**1:10**		**Lunch**	
PM	**1:10**	**1:30**	MGWA/ MGWAF		MGWA Board and Foundation Updates
	1:30	**2:15**	Various	Andrew Leaf, Madeline Gotkowitz, Caroline Griffith, John Nieber	Panel Discussion
	2:15	**2:40**	UMN	Michael E. Berndt	Iron and Sulfate Reactions in Glacial Tills Near Minntac's Tailings Basin, NE Minnesota
	2:40	**3:05**	Macalester	Cate Stacy, Bob Karls	Drinking Water Quality and Hydrogeological Analysis Near Site of Proposed Manganese Mine in Emily, Minnesota
	3:05	**3:10**	MGWA		Spring Conference Topics Announcement
	3:10	**3:50**		**Break and Poster Session (Poster presenters listed on back**	
	3:50	**4:15**	UMN	Phillipe Lima	Combining Hydraulic Tomography and Continuous Time Random Walk for Characterizing Anomalous Solute Transport in Fractured Aquifers
	4:15	**4:40**	Retired MDH	Justin Blum	Steady-State Modeling of a Conservative Environmental Tracer Through an Aquitard: Illuminating the Relative Importance of Ambient Groundwater Recharge Vs. Pumping Induced Recharge in Layered Systems
	4:40	**4:45**	MGWA	Jared Trost	Closing Remarks
	5:00	**7:00**		**Everyone**	**Happy Hour at Turnblad Mansion**

Continuing Education

This conference is designed to meet the criteria for continuing education for professionals registered with the MN Board of AELSLAGID and for well contractors as specified by the MN Department of Health.

Poster Presentations

Affiliation	Speaker	Title
Macalester	Cate Stacy	Drinking Water Quality and Hydrogeological Analysis Near Site of Proposed Manganese Mine in Emily, Minnesota
Purdue University	Jacob Hosen	An Affordable, Open-source 3D Groundwater Flow Sensor for Environmental Applications
MGWWG	William Olsen	Removing Arsenic with Zero Valent Iron (ZVI) in Clay Pot Filters
UMN	Anita Hall, Cooper Swenson, and Ronin LaVallee	Using Stable Isotopes to Determine the Contribution of Source Water to Suburban Lakes
MN DNR	Casey Wouters	Provide Your Input on a Minnesota DNR Project Examining the Link Between High-capacity Groundwater Pumping and Water Quality

Lightning Talks

Affiliation	Speaker	Title
Macalester	Cate Stacy	Drinking Water Quality and Hydrogeological Analysis Near Site of Proposed Manganese Mine in Emily, Minnesota
RRIV	Zaven Arra	Community-based Groundwater Flow Sensing using Open-Source Technologies
MN DNR	Casey Wouters	Provide Your Input on a Minnesota DNR Project Examining the Link Between High-capacity Groundwater Pumping and Water Quality

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