

## 2024 North Dakota Water Quality Monitoring Conference Agenda

Monday, March 11 to Wednesday March 13, 2024

BSC National Center of Excellence, Schafer Street, Bismarck, ND

Session Theme	Session	Time	Name	Organization	Presentation Title
<b>Monday, March 11</b>					
Welcome and Introductions		1:00-1:20	Karl Rockeman, NDDEQ		
Opening Plenary		1:20-2:00			TBA
Working Across Cultures	1	2:00-2:20	Robert (Bob) Lundgren		Three Affiliated Tribes WQ Monitoring
		2:20-2:40			TBA
		2:40-3:00			TBA
Break		3:00-3:30	Sponsor -		
Contaminants of Emerging Concern	2	3:30-3:50	Stacey Herried	NDDEQ	PFAS-Drinking water
		3:50-4:10	Shannon Suggs	NDDEQ	PFAS in the Environment
		4:10-4:40	Lane Dahl, Pete Wax	NDDEQ	Fish Tissue Monitoring
<b>Tuesday, March 12</b>					
Morning Plenary		8:00-8:40	Spencer Wheeling	USGS	Water-quality characteristics of the Red River and tributaries in the Fargo-Moorhead area related to the Flood Management Project
Hydrology and WQ	3	8:40-9:00	Hesham Mahmoud	UND	Groundwater recharge to Cold Region Shallow Unconfined aquifer using process-based models
		9:00-9:20	Jim Collins	Clearwater Communications	Spiritwood hypolimnetic draw down system
		9:20-9:40			TBA
		9:40-10:00			TBA
Break		10:00-10:30			
Communication & Education	4	10:30-10:50	Madison Eklund		Citizen Science
		10:50-11:10	Riverwatch	Riverwatch	Riverwatch-Montpelier, student presentations and overview
		11:10-11:20	Josh Anderson, Walsh Co. Three Rivers SCD	Walsh County	The making of Common Ground: A Prairie Podcast. Stories and interviews with the folks leading hands-on conservation efforts throughout North Dakota and the broader Great Plains.
		11:20-12:00	Exhibitors and Posters		
Luncheon and Keynote		12:00-1:30	Sheril Kirshenbaum		
Long term Monitoring and Trends	5	1:30-2:00	TBA	NDDEQ	Ambient Surface Water
		2:00-2:20	Casey Gleich, Ryan Kritzerberger	NDDEQ	NDDEQ Groundwater Ambient Programs
		2:20-2:40	Rochelle	USGS	SRB WQ Trends
		2:40-3:00			TBA
Break		3:00-3:30			
Data innovations	6	3:30-3:50	Devarshi Patel	UND	Using Predictive Models for Harmful Algal Blooms: Integrating Cyanobacteria Data with Meteorological and Water Quality Indicators in Devil's Lake, North Dakota
		3:50-4:10	Tanner Woutat	NDDEQ	Using A.I. to help with GIS Data Query
		4:10-4:30	Arvin Samadi-Koucheksaraee	NDSU	Development and Comparative Evaluation of data learning Models for Predicting Rainfall-Runoff using Boruta-Extreme Gradient Boosting
		4:30-4:50			TBA
<b>Wednesday, March 13</b>					
Morning Plenary		8:00-8:40	Scott Korom	UND	Total Phosphorus Target Load for the Red River at Emerson: Where's the Historical Perspective?
HABS	7	8:40-9:00	Joel Galloway	USGS	HABS assessment of Bowman-Haley Reservoir
		9:00-9:20	TBA	NDDEQ	Habs Monitoring past present and future
		9:20-9:40	Devarshi Patel	UND	Detection of Chlorophyll Regions to Track Harmful Algal Blooms (HABS) in Devils Lake, ND.
		9:40-10:00			TBA
Break		10:00-10:30			
Wetlands	8	10:30-10:50	Tiansong Qi, Mosammat Khanaum,	NDSU	Evaluation of the Impacts of Wetlands on Hydrologic Processes and Nutrient Loading Based on Wetland Delineation and Restoration
		10:50-11:10	Kyle Boutin	NDSU	Determining the area of constructed wetlands needed to significantly improve water quality in impaired Red River Valley watersheds
		11:10-11:30	Julia Hampton	UND	Detetecting Regime Shifts: Uncovering unique relationships between wetland surface area and Community Dynamics
		11:30-11:50	Kyle Kuechle	Ducks Unlimited	Waterfowl production and habitat quality of Ducks Unlimited's working lands programs
Conference Ends					