

51st Annual Conference and MAKING A SPLASH: IMPACTING AND PROTECTING OUR WATER Tuesday, November 8, 2022				
7:30 - 8:30	WMAO Networking Breakfast (separate registration required)			
8:00 - 9:00	Registration & Coffee			
9:00 - 9:15	Welcome and Introduction			
9:15 - 10:0	Keynote Address: <i>The Clean Water Act: 50 Years of Improvements</i> (Bill Zawiski, Ohio EPA)			
	Concurrent 1	Concurrent 2	Concurrent 3	
10:15-11:45	Dam Safety (ODSO)	Groundwater	Lake Management	Special Events
10:15-10:45	<i>RAS Mapper Tools for Inundation Studies and Hazard Estimation</i> (Matt Marquis, Ohio DNR Division of Water Resources)	<i>Private Well Stagnation and Legionella</i> (Cindy Brookes, Great Lakes Community Action Partnership)	<i>Coldwater Chloride and Scioto Salt - More Examples of Salinization in Ohio Rivers?</i> (Doug Kane, Heidelberg University, and others)	None Scheduled
10:45-11:15	<i>Failures of Edenville and Sanford Dams on May 19, 2020 near Midland, Michigan</i> (Daniel Pradel, The Ohio State University)	<i>Chloride in Ohio's Ground Water</i> (Lindsay Taliaferro and others, Ohio Environmental Protection Agency, Division of Drinking and Gound Waters)	<i>HABs in Ohio: Trends and Recent Developments in Management and Control</i> (Brad Bartelme , EnviroScience, Inc., and Carter Bailey, Aqua Doc, Inc.)	
11:15-11:45	<i>Beyond the Embankment: Designing a Multi-Purpose, Enviro-Friendly, Flood-Control Facility</i> (Jonathan Scheibly and John Menninger, Stantec)	<i>Increasing Salinity of Groundwater in Southwest, Ohio</i> (Mike Ekberg, Miami Conservancy District and Richard Stuck, Greater Cincinnati Water Works)	<i>Learning by Doing - Lake and Watershed Assessment Training</i> (Julie Wolin, Cleveland State University)	
11:45-1:00	Awards Luncheon, Vendor Challenge Drawing 1			
	Concurrent 1	Concurrent 2	Concurrent 3	
1:15 - 2:45	Floodplain Management	Drinking Water	Innovation	Special Events
1:15 - 1:45	<i>Macroscale Urban Culvert Daylighting & Stream Restoration, Flooded with Challenges</i> (Matthew Gramza, Civil & Environmental Consultants, Inc.)	<i>Effect of Drinking Water Treatment Processes on the Integrity of Cyanobacteria Cells</i> (Dana Elliott and Allison MacKay, The Ohio State University)	<i>Planning Ahead: Strategies Utilities Can Leverage Today to Ensure Successful Advanced Metering in the Future</i> (Jacob Jaspersen, Utility Metering Solutions)	Ohio Lake Management Society Meeting
1:45 - 2:15	<i>The History and Future of Flooding and Flood Damage Reduction in the SFLR Watershed</i> (Kari Mackenbach, MS Consultants, and Miles Hebert, EMH&T)	<i>City of Columbus Watershed Monitoring</i> (Michele Gilkerson and others, Water Quality Assurance Laboratory, Columbus Division of Water)	<i>Lake Erie Volunteer Science Network: Standardizing Volunteer Monitoring</i> (Max Herzog, Cleveland Water Alliance)	None Scheduled
2:15 - 2:45	<i>To Be Determined</i>	<i>Field measurement of ultrasound and water quality parameters to assess its effectiveness as a source</i> (Mark Tischer, The Ohio State University, and others)	<i>Water Withdrawal Atlas of Ohio</i> (Lori Emler, Ohio Dept. of Natural Resources, Water Inventory & Planning)	
2:45 - 3:15	NETWORKING BREAK - Please visit our vendors and exhibitors.			

51st Annual Conference and MAKING A SPLASH: IMPACTING AND PROTECTING OUR WATER 11/8/2022 (Continued)				
3:15 - 4:45	Stormwater (OSWA)	Mineral Resources Management	Watershed Management (OWPA)	Special Events
3:15- 3:45	Developing a Level of Service Policy for Urban Stormwater System Improvements (Miles Hebert, EMH&T and Scott Sibley, City of Columbus)	Water and Oil & Gas Development and Production in Ohio (Tamara Richards, Ohio Dept of Natural Resources, Div. Oil & Gas Resources Mgmt.)	Stream Restoration and Protection now that Ephemeral Stream Protections are Gone: A Consultant's Perspective (Matt Petty, Civil & Environmental Consultants, Inc.)	Careers in Water Resource: Professional and Student Networking Event
	3:45 - 4:15	Designing Manufactured Treatment Devices (MTDs) with Maintenance in Mind (Dana Hinaman, Contech Engineered Solutions, LLC)	Identifying Rare Earth Element Distribution in Reclaimed Appalachian Mine Lands (Brianna O'Neil-Hankle and others, The Ohio State University)	
4:15 - 4:45	Don't Judge a Basin By It's Cover (Bekah Strait and Bob Cenni, Davey Resource Group, Inc.)	Restoration, Recovery, and Restoration in the Raccoon Creek Watershed (Amy Mackey, Ohio University, Voinovich School)	Effects of Hydrologic Pulsing and Vegetation on Macroinvertebrates in Wetlands (Kurt Keljo, Ohio Watershed Professionals Association)	
5:00 - 6:00	Reception & Poster Session			
	POSTERS			
	Road Salt Runoff and its Effect on our Freshwater Lakes (Erica Mobley, Ohio Northern University)			
	Testing Wolman's sediment yield model: A 220-year record from Wyoga Lake, Summit County, OH (Matthew Rechenberg, University of Akron)			
	Organic matter processing in forested stream channels versus open canopy restored wetland complexes (Kelly Love, Ohio University)			
	Examining a therapeutic nature and underwater photography program for vulnerable adolescents (Lily Mank, The Ohio State University)			
	Sonochemical degradation of PFAS in ion-exchange and membrane filtration waste concentrates (Haleigh Fernandez, The Ohio State University, and others)			
	Effect of increased light availability on algae content of biofilms, growth rate of chironomid detri... (Mohsin Khan and Kelly Johnson, Ohio University)			
	What is a Total Maximum Daily Load and Why is it Important? (Emily Keil-Loudner, Ohio Environmental Protection Agency)			
	Recalcitrant Microcystin in Lake Erie Foreshore Sands (Garrett Moots and others, University of Toledo)			
	Evaluating hydrogen peroxide (H ₂ O ₂) induced suppression of Microcystis aeruginosa (M. aeruginosa) (Elyse Bonner, The Ohio State University, and others)			
	Investigating groundwater/surface-water interaction using stable isotopes of water (δ18O and δ2H) (Idah Ngoma and others, Miami University)			
	Characterizing Ozone Nanobubble Technology (NBOT) for Treatment of Harmful Algal Blooms (HABs) (Haley Kuhn and others, The Ohio State)			
6:00- ?	Attendee Networking Event			

51st Annual Conference and MAKING A SPLASH: IMPACTING AND PROTECTING OUR WATER Wednesday, November 9, 2022				
8:00 -8:30	Registration & Coffee			
	Concurrent 1	Concurrent 2	Concurrent 3	
8:30-10:00	Ecology and Habitats	State Watershed Programs Updates	Education and Outreach 1	Special Events
8:30 - 9:00	Restoration and Landscape Constraints (Bradley Petru, Civil & Environmental Consultants, Inc.)	Ohio Regional Watershed Program Update (Greg Nageotte, Ohio Department of Agriculture)	Connecting Outdoor Recreation to Water Conservation (Kara Musser and others, Muskingum Watershed Conservancy District)	None Scheduled
9-:00 9:30	Phosphorus sorption in benthic sediments: The role of P speciation (Christopher Spiese, Ohio Northern University, and others)	Ohio Regional Watershed Program Update (Cont.) (Peter McDonough, Ohio Department of Agriculture)	Integrating Project WET, Wetlands, and H2Ohio into 7th Grade Curriculum Using a Multidisciplinary Learning Module (Laura Manns, Ohio Wetland Assoc. and Linda Pettit, Franklin SWCD)	
9:30-10:00	Biological and Water Quality Assessment the Middle Scioto River, Lower Olentangy River, and Selected Olentangy Tributaries 2020: Including a 50 Year Retrospective Analysis of Available Biological and Water Quality Data. Franklin and Pickaway Counties, Ohio (Chris O. Yoder, Research Director, Midwest Biodiversity Institute)	Nonpoint Source Implementation Strategy Tools and Updates (Rick Wilson, Ohio Environmental Protection Agency)	Global Water Dances Columbus - Information Session (Loren Bucek, Global Water Dances Columbus)	
10:00 - 10:15	NETWORKING BREAK - Please visit our vendors and exhibitors.			
10:15 - 11:45	Streams 1	Watershed Planning	Education and Outreach 2	Conservancy Districts Meeting
10:15 - 10:45	USGS 3D Hydrography Program: A New Model for the Nation’s Hydrography (Cynthia Rachol, U.S. Geological Survey National Geospatial Program)	Outreach and Project Development in the 9-Element Watershed Planning Process (Deana Bobak,Civil & Environmental Consultants, Inc.)	Boardman Conservation Corps: Connecting Communities to Climate Resilience (Jenna Johnson, Environmental Collaborative of Ohio)	
10:45- 11:15	New USGS River gages since 2020 (Thomas Harris, U.S. Geological Survey)	Developing Scenario Analysis For Nutrient Reduction in Atwood and Tappan Lake Watershed Using SWAT Methodology (Suresh Sharma, Youngstown State University)	All Butts Lead to the Creek [Please dispose of them properly.] (Erica Matheny and Harry Stark, Tinker's Creek Watershed Partners)	
11:15-11:45	Pangean Restoration Approach to Ecosystem Restoration (Joshua White, Water & Land Solutions)	The Conservation Practice Menu: An Ohio ACPF Collaboration Update (Katie Phillips, The Ohio State University, and others)	Addressing Marine Debris at Ohio Marinas (Sarah Orlando, Ohio Sea Grant)	
11:45- 12:00	NETWORKING BREAK - Please visit our vendors and exhibitors.			

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11/9/2022 (Continued)				
12:00-1:00	Lunch, WMAO Annual Meeting, Drawing 2 for Vendor Challenge			
1:00- 1:30	Division Annual Meetings OR Please visit our vendors and exhibitors.			
1:30 - 3:00	Streams 2	H2Ohio Interagency Update	Wastewater	Special Events
1:30 -2:00	Log Jams and Branching Channels Increase Hyporheic Exchange (Karl Wilhelmsen, Eagon and Associates, Inc., and others)	Ohio Department of Agriculture H2Ohio Program Update (Clark Hutson, Ohio Dept. of Agriculture)	PFAS Considerations for Wastewater Professionals (Kevin Custer and Paul Jackson, Pace Analytical Services)	Ohio Water Resources Coordinating Committee Meeting
2:00-2:30	Recovery of Stream Fishes: Thank you, Clean Water Act (John Navarro, Ohio Dept. of Natural Resources, Div. of Wildlife)	Ohio Department of Natural Resources H2Ohio Program Update (Eric Saas, Ohio Dept. of Natural Resources)	Create and Fund a Storm Sewer Utility (Sherry Loos and Ben Howard, Great Lakes RCAP)	
2:30-3:00	Stream Stabilization: Design Challenges and Lesson Learns (Dustin Doherty, Civil & Environmental Consultants, Inc.)	Ohio Environmental Protection Agency H2Ohio Program Update (Jerry Rouch, Ohio Environmental Protetion Agency)	Successful Treatment of Turkey Processing Wastewater in a Low-cost Sand Bioreactor System (Karen Mancl, Food, Agricultural and Biological Engineering, The Ohio State University, and Ryan Kopp, Whitewater Processing)	
3:00- 3:15	NETWORKING BREAK			
3:15 - 4:45	Ice Cream Social, "And water for all" documentary, Drawing 3 for Vendor Challenge			