

The Ohio Water Table

A Publication of the Water Management Association of Ohio

No. 143 / Quarterly



Research Highlights from State of Ohio Water Resources Center

The Ohio Water Resources Center is a federally authorized center situated at The Ohio State University. We fund State relevant water related research and efforts. Below highlights a collaborative effort between Dr. Zuzana Bohrerova, the Associate Director of the Ohio WRC, and local partners. If you are interested learning more about our other outreach efforts, please check out the Ohio Water Resources Center webpage at wrc.osu.edu.

In an information transfer project funded by the Ohio Environmental Protection Agency's Environmental Education Fund, the Ohio Water Resources Center collaborated with Friends of the Lower Olentangy River Watershed and the Ohio Chapter of the Sierra Club to implement a project titled **"Adopt Your Waterway,"** which aims to increase awareness and participation of individuals in water quality related issues. Educating citizens about how changes in a watershed impact water quality, collecting water quality data for rarely sampled tributaries, and training "champions" of the tributaries will help the residents to make science- based decisions about development of their local communities.

One of the program goals is to ensure long-term viability of citizen science involvement and a bottom-up approach for citizens to inform their neighbors about the stream quality. Therefore, we created a system where "trainers" (water quality specialists) educate interested citizen scientists in water quality monitoring of local streams with the goal of eventually becoming trainers themselves, while learning more about their environment and talking to their neighbors and friends about



Figure 1: Classroom Water Sentinel training.

water quality issues. Over 70 citizen volunteers were trained to monitor small Olentangy River tributaries using the Water Sentinel chemistry method of the Ohio Chapter Sierra Club and the macroinvertebrate evaluation method based on the Ohio EPA's Headwater Habitat stream quality monitoring program (Figures 1 and 2).

Inside this issue:

<i>President's Column</i>	2
<i>Ohio Applicator Forecast Helps Avoid Runoff Risk</i>	2
<i>Research Highlights from State of Ohio Water Resources Center - Continued</i>	3
<i>Ohio Floodplain Management Association</i>	4
<i>2017 WMAO Scholarship</i>	6
<i>WMAO Annual Conference Agenda and Registration Information</i>	8
<i>WMAO Board of Directors</i>	12

Continued on Page 3

President's Column

Alex Covert, WMAO 2016-2017 President



My oldest daughter is about to embark on a journey that will last the rest of her life (or until driverless cars become mainstream). I'm talking about the coming-of-age event known as driving. She's driven the occasional riding mower and has even took her grandparents golf cart out for a spin on the dusty roads of a campground near you. None of those compare, however, to the exhilaration that a teenager feels after getting her temporary drivers permit. She knows the rules of the road... in theory, but she doesn't have any actual experience and has no idea of all of the obstacles that will wonder, run, or roll into her path.

Likewise, when I became WMAO President in 2015, I didn't know how to proceed – not really. I had some idea of where I wanted to end up but I wasn't fully confident that I knew the “speed limit,” if I could make a “U-turn”, or when the next “rest area” was approaching. Instead, I climbed into the driver's seat and put it in drive. Together, the Board members and I steered WMAO towards distant destinations

and around a few obstacles. Sans the analogy, we've increased our focus on student participation in WMAO, improved relationships between WMAO and our divisions, and developed a new set of strategic goals with ways to achieve them. We've continued to grow –increasing our membership numbers, the breadth of water-related fields included in WMAO, and our financial stability.

I would like to think that I did more than put WMAO in cruise control and instead, that I helped maneuver this ever-moving organization from point A to point B. You see... that's the thing about learning a skill –the experience, itself, is the true teacher. I would like to thank the WMAO Board and membership for this wonderful opportunity. Come November 2nd, you'll be in good hands when I turn the wheel over to our next WMAO President, Craig Smith, Environmental Specialist, Ohio EPA, Division of Drinking and Ground Waters.

S. Alex. Covert

Ohio Applicator Forecast Helps Avoid Runoff Risk

By **Emily Heppner**, Environmental Education Coordinator, Ohio Department of Agriculture

The Ohio Department of Agriculture (ODA) launched a new Web map this summer, the [Ohio Applicator Forecast](#). The online map is designed to help nutrient applicators identify times when the weather-risk for applying is low. “ODA firmly believes science and technology must be at the forefront of all water quality issues and these new and innovative tools are impactful steps.” said ODA Director David T. Daniels. “The agricultural community continues to take the necessary steps to maintain agricultural productivity, while protecting our natural resources and reducing nutrient runoff to improve water quality in Lake Erie and surrounding waterways.”

The risk forecast is created by the National Weather Service and takes snow accumulation and melt, soil moisture content, and forecast precipitation and temperatures into account. The chances of surface runoff in the next 24 hours are displayed on the overview map of the state. If you zoom to street level, seven days of weather conditions and runoff chances are predicted. Risk is grouped into 3 categories: Low, Medium, and High. When the risk is Medium, it is recommended that the applicator evaluate the situation to determine if there are other locations or later dates when the application could take place.

“The National Weather Service is excited to work with Ohio in their efforts to help farmers reduce nutrient runoff across the Midwest,” said Brian Astifan, the Development and Operations Hydrologist with the National Weather Service Ohio River Forecast Center in Wilmington, Ohio. “We believe Ohio's partnership with several federal agencies and educational institutions to develop this decision-support tool will benefit farmers and ultimately work towards improving Ohio's water quality.” Visit ODA on the Web for more information about the Ohio Applicator Forecast: <http://www.agri.ohio.gov/divs/plant/OhioApplicatorForecast/oaf.aspx>



Figure 2: Hands-on outdoor macroinvertebrate training.



Civil & Environmental Consultants, Inc.

WATER RESOURCES EXPERTISE

Our team of engineers, scientists, and professionals offers integrated expertise to tackle diverse challenges in communities across Ohio.

- ▶ Ecosystem Restoration Services
- ▶ Geotechnical Engineering
- ▶ Dam Safety Engineering
- ▶ Construction Materials Testing
- ▶ Environmental Services
- ▶ Topographic Surveys
- ▶ FAA-Approved Small Unmanned Aerial Systems (sUAS) Services
- ▶ 3D Light Detection And Ranging (LiDAR) Scanning & 3D Modeling

Contact:
 Matt Gramza, P.E., CFM
mgramza@cecinc.com
 800-759-5614

Ohio Offices:
 Cincinnati, Columbus, Toledo

www.cecinc.com
locations nationwide

Currently, eleven Olentangy River tributaries are monitored by thirty-eight active volunteers, with two sites per tributary. Last year, most of the sites had a fair to poor macroinvertebrate index throughout the year and poor water chemistry, with average conductivity values higher than 600 uS (many had values higher than 1000 uS), seasonally high phosphates, nitrates, and other poor water quality indicators. Many volunteers continue to be involved in the program. Some of them are monitoring their location for a third consecutive year. Citizen scientists indicated in a survey that they do talk to their neighbors about their monitoring work. FLOW, Sierra Club and the Ohio Water Resources Center are committed to continuing this program and partnership, and we are looking for better ways to communicate the results to educate citizens about their streams and assure long-term sustainability of this program.

“Citizen scientists indicated in a survey that they do talk to their neighbors about their monitoring work.”

Project Collaborators: Ohio Water Resources Center is the federally-authorized and state-designated Water Resources Research Institute for the State of Ohio. We promote innovative, water-related research in the State of Ohio through research grant competitions, coordination of interdisciplinary research proposals, and educational outreach activities. FLOW (Friends of the Lower Olentangy Watershed) is a non-profit organization whose mission is to keep the Olentangy River and its tributaries clean and safe for all to enjoy, through public education, volunteer activities, and coordination with local decision-makers. The Sierra’s Club Ohio Water Sentinel Program seeks to educate, engage, and empower volunteers to restore, improve, and protect Ohio’s waterways.

Ohio Floodplain Management Association



Division Updates

By **Stephen Moore**, OFMA President

Save the Date –

2019 ASFPM Annual Conference- Cleveland, Ohio, May 19-24.

Membership - Please remember when filling out your 2018 WMAO membership application to check OFMA as your primary Division Affiliation. By designating OFMA, it will help us provide better service, information and training to those who are interested in floodplain issues across the State of Ohio.

Upcoming CFM Exam Opportunities! - The Ohio Floodplain Management Association offers CFM examination testing periodically across Ohio. **2017 CFM Exams include:**

November 8, 2017, 1:00 pm - 4:00 pm, Proctor: Todd Richard

318 Dorney Plaza, 3rd Floor Conference Room, Findlay, OH 45840.

To register for the CFM Exam, please contact the Association of State Floodplain Managers at: 608-828-3000 or cfm@floods.org Exam information and study guide may be referenced at: www.floods.org.

For current updates on NFIP Reform/Reauthorization, 2018 Federal Budget and the New FEMA Director please go to www.floods.org.

Manufactured Homes Commission

House Bill 49, the Ohio Operating Budget, included a provision to consolidate several boards and commissions. Included in the bill was the transition of the Manufactured Homes Commission to the Ohio Department of Commerce, effective January 21, 2018.

At this time who will be responsible for the floodplain regulation responsibilities for manufactured homes is still being discussed. The Department of Commerce is working with all stakeholders to ensure a smooth transition. OFMA will stay involved and keep you up to date on this issue. We will place any updates on our website at www.ofma.org and you can also obtain updates at the Department of Commerce website at www.com.ohio.gov.

ENVIRONMENTAL, ENGINEERING AND
FUNDING SOLUTIONS SINCE 1980



we know the way

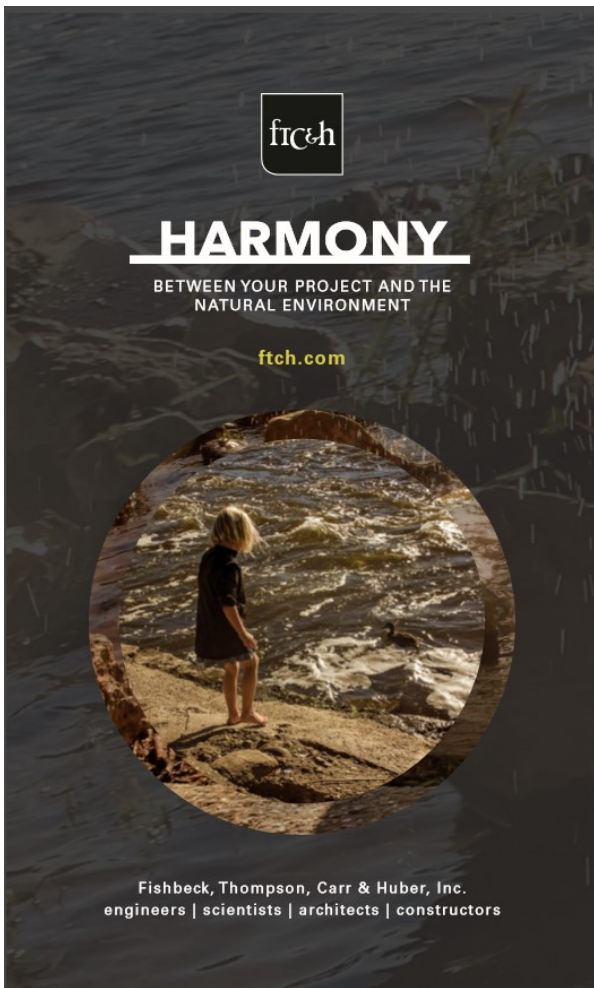
www.hullinc.com

OFMA Annual Conference

The Annual OFMA Conference was held on August 24 & 25, 2017 at the Doubletree Hotel in Columbus.

Scholarships to attend the conference were presented to: Jim Fox, Butler Co.; Cathy Berg, Ashland SWCD; Max Callahan, West Carrollton City Engineer; Aaron Moeller, Mercer Co. Engineer's Office; Dave Kulcsar, City of Brooklyn; James Brinegar, City of Centerville City Engineer; Mike Spry, City of Cincinnati; Jay Fisher, Licking County; and Ben Carpenter, Perry Co.

OFMA recognized Jill Lengler, Tuscarawas County Planning Director for the Innovation in Floodplain Management Award. She provided leadership and built collaborative partnerships to implement a hazard mitigation project that acquired flood damaged properties, and developed risk-reduced recreation opportunities. Mike Mihalisin, Member-at-Large was presented the OFMA Distinguished Member Service Award. He was recognized by his peers and fellow Board members for his years of service and strong leadership in activities helping to achieve OFMA's mission.



Alicia Silverio giving a presentation to attendees.



Mike Mihalisin accepts an award presented to him by **Stephen Moore**, OFMA President.



Cindy Crecelius, OFMA Secretary.



Tim Beck, our IT guru.



Jill Lengler, award recipient.

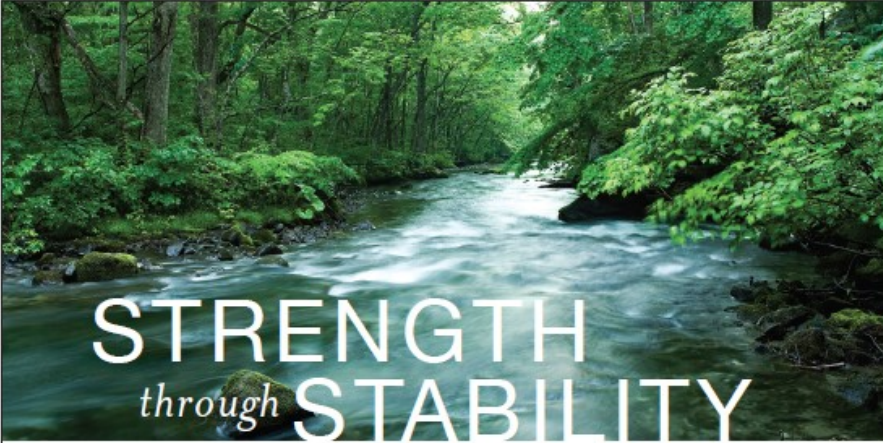


Austin Prokup was the recipient of the 2017 WMAO Scholarship of \$1,000. He is a Senior at Ohio State University, completing a degree in Civil Engineering.

Dear Water Management Association of Ohio,

Thank you for your generosity regarding a scholarship I recently received through the Columbus Foundation. As a fifth year Environmental Engineering student at Ohio State, the final year is a mix of emotions and the beginning of many new experiences. This scholarship helps a great deal in allowing me to focus on this transition to the professional world as a young engineer and finish my college career strong. It allows me to more deeply and fully devote myself to my studies, extracurriculars, and the freedom from worry as to how I will pay for my final year of schooling. I look forward to a career of creating and preserving one of our most precious and valuable resources: clean water.

Many Thanks,
Austin Prokup




STRENGTH
through **STABILITY**

YOU DESERVE MORE

Davey Resource Group is rooted in decades of experience. Our highly qualified team of biologists, restoration ecologists, environmental planners and regulatory specialists are trained to respond to your needs by providing resourceful services and innovative solutions.

John Kusnier / *Project Developer*
800.828.8312 x8059 (office)
419.787.4153 (mobile)
John.Kusnier@davey.com

DAVEY 
RESOURCE GROUP
A Division of The Davey Tree Expert Company



BSA ENVIRONMENTAL SERVICES, INC.

Over 20 years of Superior Aquatic Microbiology Services!

- Phytoplankton Identification
- Biovolume & Biomass
- Chlorophyll Analyses
- Algal Systematics
- Cyanotoxin Analyses
ELISA & HPLC
- Epifluorescence Microscopy
- Microphotography
- Taste & Odor Algae
- Vouchers (Slides/Digital)
- Express Service Available



Contact us today for additional information or a quotation!

216-765-0582 • 23400 Mercantile Rd. #8, Beachwood, OH 44122 • www.bsaenv.com

46th Annual WMAO Conference
Partnerships at the Confluence of Challenge and Opportunity
November 1 - 2, 2017
Crowne Plaza North, Worthington/Columbus, Ohio

Water resource management requires strong partnerships that can garner public support, secure financial resources, and produce action towards water protection. This can only happen at the confluence of people, communities, and innovative ideas. The 46th Annual Water Management Association of Ohio Annual Conference will explore the partnerships that connect our challenges with opportunities to result in high water quality in Ohio for today and future generations.

Register online at: www.wmao.org CEU credit and qualification for Engineering and Surveying CPD offered.

Please consider becoming an exhibitor or conference sponsor! Visit <http://wmao.org/sponsors/> to register online as an exhibitor or sponsor.

Partnerships at the Confluence of Challenge and Opportunity

Wednesday, November 1, 2017

8:00 - 8:30	Registration, Coffee, and Continental Breakfast - Foyers 1 and 2			
8:30 - 10:00	Welcome and Introduction: Kim Shaffer, Conference Chair and Alex Covert, WMAO President			
	Keynote Address: Partnering for Wetland Conservation Josh Knights, The Nature Conservancy			
10:00 - 10:15	Break - Foyers 1 and 2			
	Concurrent 1 - Ballroom 1 & 2	Concurrent 2 - Ballroom 3	Concurrent 3 - Ballroom 4	Salon B/C
	Ground Water	Ohio Lake Management Society - OLMS	Ohio Dam Safety Organization - ODSO	
10:15 - 10:45	Evaluating Risks in a Source Water Protection Area - Part II: Refining the Priority Setting Approach and Incorporating Risk Mapping Aaron Colson, City of Dayton Department of Water	Opportunities for Improved Nutrient Management in Watershed Planning Jordan Rofkar, Hull & Associates, Inc.	Dam Breach Modeling - 2D or not 2D Matthew Gramza, Civil & Environmental Consultants, Inc	Lake Erie Area Research Network (LEARN) Meeting
10:45 - 11:15	Private Well Education Expanded Through Partnerships Cindy Brookes, WSOS CAC, Inc/Great Lakes RCAP	Ecoregional Characteristics Affecting the Probability of Dominance of Planktothrix spp. in the Phytoplankton of Ohio Lakes and Reservoirs John Beaver, BSA Environmental Services, Inc.	Bolivar Dam Major Rehabilitation Project Jeff Maynard, U.S. Army Corps of Engineers	
11:15 - 11:45	Investigating long-term biogeochemical dynamics in three, geochemically-stable Ohio aquifers Robert Danczak, The Ohio State University	Identifying Land Management Strategies for Phosphorus Reduction through Modeling of Historical Water Quality Trends Anna Apostel, The Ohio State University	Dam Safety Emergency Action Plans (EAP) & Inundation Mapping Melissa Menerey, Ohio Department of Natural Resources	
12:00 - 1:00	Awards Luncheon, Vendor Challenge Drawing 1 - Ballrooms 3 and 4			
	Environmental Policy	Ohio Lake Management Society - OLMS	Climate Change	
1:15 - 1:45	Proposed Changes to the Construction General Permits for Ohio Justin Reinhart, PE, Ohio EPA	Informing Drinking Water Intake and Treatment Managers by Observing Diel Vertical Distribution and Migration of HABs Eva Kramer, University of Toledo Lake Erie Center	Measuring Methane Production and Emissions in a Peat Bog in Ohio with Fluctuating Water Level: Comparison of Disturbed vs. Undisturbed Areas. Rey Camilo, The Ohio State University	LEARN Meeting
1:45 - 2:15	Ecological Sanitation: Charting a Policy Pathway Forward - A Review of Land Application of Septage in Ohio Ben Howard, John Glenn College of Public Affairs	Harmful Algal Bloom Monitoring of Inland Lakes Using Satellite Imagery Ruth Briland, Ohio EPA	Ice Jam Flooding in Changing Climate Suresh Sharma, Youngstown State University	
2:15 - 2:45	Important Changes to The TMDL Process - A Platform for Partnership Melinda Harris, Ohio EPA	OH BUOY! (Fluoro)probing CHABS in Western Lake Erie and the Maumee River Using in-situ and In-vivo Technology Douglas Kane, Defiance College	Climate Change Impact of Future Streamflows of Great Miami River Suresh Sharma, Youngstown State University	
2:45 - 3:15	Break - Foyers 1 and 2			
	Mineral Resource Management	Ohio Lake Management Society - OLMS	Lake Erie Area Research Network	
3:15 - 3:45	20 Years of Partnerships & Results: the Huff Run Recovery Part A Marissa Lautzenheiser, Rural Action	The Study of Tappan Lake's Water Quality Monitoring Influence in its Community, Through the Collaboration of the Government, the Academia and the Private Sector Fernanda Craig, Muskingum Watershed Conservancy District	Benefits and Opportunities of LEARN: The Lake Erie Area Research Network Emily Burbacher, Ohio Sea Grant	Careers in Water Resources: Professional and Student Networking Event
3:45 - 4:15	20 Years of Partnerships & Results: the Huff Run Recovery Part B Marissa Lautzenheiser, Rural Action	Using Smart Monitoring to Meet the Challenges of Wastewater Operators Sivan Cohen, Ayyeka	Single use plastics in the NEO area Jill Bartolotta, Ohio Sea Grant College Program	
4:15 - 4:45	Appalachian Ohio Clean Watershed Initiative (AO CWI) ArcGIS Online Watershed Planning Tool: Using Data to Foster Partnerships to Improve Water Quality across Ohio's Coal Bearing Region Jen Bowman, Ohio University's Voinovich School	Alternatives to Open-Lake Disposal of Dredged Sediment David Emerman, Ohio Lake Erie Commission	Lake Erie Algae, Nutrient Loading, and Current Research Efforts Chris Winslow, Ohio Sea Grant	
5:00 - 6:00	Reception & Poster Session - Foyer 1 and 2			

Partnerships at the Confluence of Challenge and Opportunity

Thursday, November 2, 2017

8:00 - 8:30	Registration, Coffee, and Breakfast - Foyers 1 and 2			
	Concurrent 1 - Ballroom 1 & 2	Concurrent 2 - Ballroom 3	Concurrent 3 - Ballroom 4	Salon B/C
	Partnership Building	Stormwater	Ohio Watershed Professionals Association - OWPA	
8:30 - 9:00	The Challenge of HABs in a Drinking Water Source Create Opportunity for Multi-Agency Cooperation <i>Edward Pfau, Hull & Associates, Inc and John Watkins,</i>	The "Gray Area" of Green – Where Design Meets Public Policy <i>Kari Mackenbach, ms consultants, inc</i>	Coupling Ecosystem Restoration to Water Quality Improvements in the Wolf Creek Watershed <i>Ryan Jackwood, The University of Toledo</i>	
9:00 - 9:30	Examples of Source Water Protection Efforts in Southeastern Ohio <i>Steven Salnes, Ohio EPA</i>	Evaluation of Long Term Performance of Retrofit Rain Gardens: Hydrology and Hydrocarbons <i>Abigail Tamkin, The Ohio State University</i>	What We Know About Engaging Farmers in Watershed-scale Water Quality Initiatives <i>Joe Bonnell, The Ohio State University</i>	
9:30 - 10:00	Community Backyards Program <i>Jennifer Fish, Franklin Soil and Water Conservation District</i>	Are You Sinking or Swimming - Partners are a Lifesaver <i>John Kushner, Davey Resource Group</i>	Ohio EPA Partnering for NPS Implementation Strategies <i>Rick Wilson, Ohio EPA</i>	
10:00 - 10:15	Break - Foyers 1 and 2*			
	Education	Drinking Water	Stream Restoration	Conservancy Districts Meeting
10:15 - 10:45	Out of the Classroom and into the Field: Developing a Groundwater Study for a Reclaimed Strip Mine through a Partnership between Academia and the Business Community <i>Elizabeth Kline, Zane State College</i>	Visualizing the effects of changes in reservoir gate operation <i>Branden Von Ins, USGS</i>	Designs that Drive the Success of Stream Mitigation Banks <i>Joshua White, Civil and Environmental Consultants, Inc. (CEC)</i>	
10:45 - 11:15	Time Savings with ESRI Collector for Stormwater Management <i>Chad Boyer, MS Consultants, Inc.</i>	Advanced Technologies Help Predict Life of Reservoirs <i>Chris Weaver, City of Columbus - Division of Water</i>	Depaving Paradise: Community-based Partnerships to Improve Water Resources <i>Jane Goodman, Cuyahoga River Restoration</i>	
11:15 - 11:45	Kinetics of a UV LED H2O2 AOP Reactor and Potential for Application in a Net Zero Water Program <i>John Stubbs, Air Force Institute of Technology</i>	Improving Drinking Water Quality Using Granular Activated Carbon at the Westerville Water Plant <i>Richard Lorenz, City of Westerville</i>	Partnering to Protect Ohio's Giant Salamander, the Eastern Hellbender <i>Gregory Lipps, The Ohio State University</i>	
12:00 - 1:00	Lunch, WMAO Annual Meeting, Drawing 2 for Vendor Challenge - Ballroom 3 and 4*			
1:00 - 1:30	WMAO Division Annual Meetings or Water History Challenge			
	Fisheries and Fish Ecology	Waste Water	Nutrient Management	Ohio Water Resources Committee Coordinating Meeting
1:30 - 2:00	Growth Potential and Mortality of Largemouth Bass in Lake Erie's Western Basin <i>Alex Benecke, Ohio Division of Wildlife</i>	Environmental Dashboard: Using Real-time Public Display of Resource Use to Foster Connections & Empower Stewardship <i>Ben Hobbs, Oberlin College</i>	Contribution of Soil Erosion to Ohio Agricultural Surface Runoff Phosphorus <i>Shane Whitacre, The Ohio State University</i>	
2:00 - 2:30	Understanding the Effects of Altered Visual Environments in Lake Erie Fishes. <i>Chebe Nieman, The Ohio State University</i>	Microbial Ecology of Sand Bioreactors for Aerobic Treatment of High Salt Content Wastewater <i>Kristen Conroy, The Ohio State University</i>	Revised Ohio Phosphorus Risk Index <i>Elizabeth Dayton, The Ohio State University</i>	
2:30 - 3:00	Big Darby Creek Water Quality Survey – A Story of Successful Action <i>Andrew Phillips, Ohio EPA</i>	Innovative Planning and Design at the Miamisburg WRF for Compliance and Wet Weather Improvements <i>Steven Reese, Hazen and Sawyer</i>	Nutrient Mass Balance for Selected Ohio Watersheds <i>Dale White and Josh Griffin, Ohio EPA</i>	
3:00 - 3:15	Break - Foyers 1 and 2*			
3:15 - 4:45	Ice Cream Social, Water-related mobile apps, Drawing 3 for Vendor Challenge - Grand Pavilion			

*Visit the Ohio Emergency Management Agency Tornado Safety Room, South Parking Lot, from 9:45 to 10:30, 11:40 to 1:40, or 2:50 to 3:25.



**REGISTER
TODAY!**



Please register online*:

www.wmao.org (use drop down menu for member, emeritus, and student rates)

*MasterCard, Visa, Discover, AMEX, eCheck, or by purchase order or invoice.

OR

Scan and forward form to: admin@wmao.org

Mail in registration form:
WMAO - Conference
8584 E. Washington St. #206
Chagrin Falls, OH 44023



Questions?

Contact:
Dana Oleskiewicz
330-466-5631
admin@wmao.org

1. REGISTRATION FEE (includes meals) - Please check the appropriate fee category below.

Walk-in registration: Add \$25 to fee when registering on day of event.

	<u>Full Registration (Wed-Thur)</u>	<u>One Day (select Wed or Thu)</u>
WMAO Member	<input type="checkbox"/> \$240	<input type="checkbox"/> \$140 <input type="checkbox"/> Wednesday
Nonmember**	<input type="checkbox"/> \$280	<input type="checkbox"/> \$155 <input type="checkbox"/> Thursday
Student	<input type="checkbox"/> \$50	<input type="checkbox"/> \$35
Emeritus (member)***	<input type="checkbox"/> \$115	<input type="checkbox"/> \$85

☐ **Check here if you will only be presenting and will not attend other conference activities including meals (no registration fee).**

** ☐ Check here if you would like \$40 of this registration fee applied towards a 2018 WMAO membership (one time offer per new member).

*** Must be retired from water profession and 65 years of age with 5 years of membership in WMAO (subject to verification).

2. REGISTRANT INFORMATION (submit a form for each attendee)

Name _____ Job Title _____

Company / Affiliation _____

Address _____

City _____ State _____ Zip _____

Phone _____ Email _____

Will you be attending the reception with hors d'oeuvres on Wednesday? ☐ yes ☐ no

Please indicate any special dietary requirements _____

For additional meal tickets for guests, contact Dana Oleskiewicz at 330-466-5631.

3. METHOD OF PAYMENT - please check appropriate box below

☐ My registration fee is enclosed (check # _____)

☐ Purchase order # _____ ☐ Please invoice me

☐ Please charge my credit card:

Name on card _____

Card number _____

Expiration Date _____ Security Code _____

Email for receipt _____

Signature _____

TOTAL AMOUNT ENCLOSED (from above) \$ _____

Crowne Plaza North, Worthington/Columbus
Conference Room Rate: \$112/night (until Oct 10)
6500 Doubletree Ave, Columbus, OH
Call: 614-885-1885

To obtain a full refund of registration fees paid, cancellations must be confirmed with WMAO in writing by 4:00 p.m. on Friday, October 27, 2017.



AQUA DOC®

LAKE & POND MANAGEMENT

The perfect Rx
for problem ponds!

BEFORE MANAGEMENT

AFTER MANAGEMENT

BEFORE MANAGEMENT

AFTER MANAGEMENT

Cleveland

10779 Mayfield Road
Chardon, Ohio 44024

440.286.POND (7663)

Columbus

3455 Centerpointe Dr.
Grove City, Ohio 43123

614.506.4166

Cincinnati

3826 Round Bottom Road
Cincinnati OH 45244

513.315.6799

Atlanta

8302 Ball Ground Highway
Ball Ground, GA 30107

770.833.9230

800.689.LAKE aquadocinc.com

WATER MANAGEMENT ASSOCIATION OF OHIO

8584 E. Washington St. #206
Chagrin Falls, OH 44023

330-466-5631, admin@wmao.org
Dana Oleskiewicz, Administrative Director

www.wmao.org

The Water Management Association of Ohio (WMAO) is the one organization dedicated to all of Ohio's water resources.

VISION: The Water Management Association of Ohio will be the most effective and respected independent water resources organization in Ohio.

MISSION: The Water Management Association of Ohio promotes the comprehensive understanding, conservation and multifaceted use of Ohio's water resources.

Permission to reprint with credit to WMAO.



2017 WMAO Board of Directors

Alex Covert	sacovert@usgs.gov
Joe Bonnell	bonnell.8@osu.edu
Boris Slogar	bslogar@mwcd.org
Gregory Nageotte	greg.nageotte@agri.ohio.gov
Stuart Ravary	stuart.ravary@aecom.com
Mike Rowland	mrowland@smeinc.com
Stephen Moore	smoore@groveport.org
Darren Bade	dbade@kent.edu
Harry Stark	hstark@ohioswa.com
Stephanie Singer	ssinger@defiance-county.com
Larry Antosch	lantosch@ofbf.org
Eugene C. Braig IV	braig.1@osu.edu
Craig Smith	craig.smith@epa.ohio.gov
Scot Hindall	scot.hindall@dnr.state.oh.us
John Hoopingarner	jhoopingarner@mwcd.org
John Lenhart	lenhart.49@osu.edu
Jim Shoemaker	james.shoemaker@daytonohio.gov
Kari Mackenbach	kmackenbach@msconsultants.com
John Herchl	john.herchl@ads-pipe.com
Tom Allen	ptallen111@insight.rr.com
Dale White	dale.white@epa.ohio.gov
Christian Bower	bower.197@buckeyemail.osu.edu

President
Vice President
Past President
Treasurer
Secretary
Division Director—Dam Safety (ODSO)
Division Director—Floodplain Management (OFMA)
Division Director—Lake Management (OLMS)
Division Director—Stormwater Management (OWSA)
Division Director—Watershed Management (OWPA)
Director—Agriculture
Director—Education
Director—Groundwater
Director—Mineral Resources Management
Director—Navigation & Recreation
Director—Research & Data Management
Director—Water & Wastewater
Director-at-Large
Director-at-Large
Director-at-Large
Director-at-Large
Affiliated Student Organization

