

48th Annual WMAO Conference*

November 13 & 14, 2019

Crowne Plaza North, Worthington/Columbus OH

*1.1 CEUs / 11 CPDs



Water Weirding

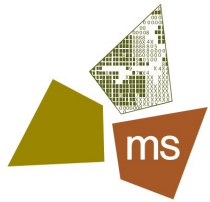
Hottest hots, driest dries, wettest wets, windiest wind[s] -David Orr, Oberlin College

A Special Thank You to Our Sponsors!



FONDRIEST
ENVIRONMENTAL

CONTECH
ENGINEERED SOLUTIONS



Stantec



Civil & Environmental Consultants, Inc.

EMH&T

Engineers, Surveyors, Planners, Scientists



Gannett Fleming

Michael Baker
INTERNATIONAL

DAVEY 
Resource Group

BSA ENVIRONMENTAL
SERVICES, INC.



applied biochemists
A Lonza Business

FISHBECK, THOMPSON, CARR & HUBER
engineers | scientists | architects | constructors

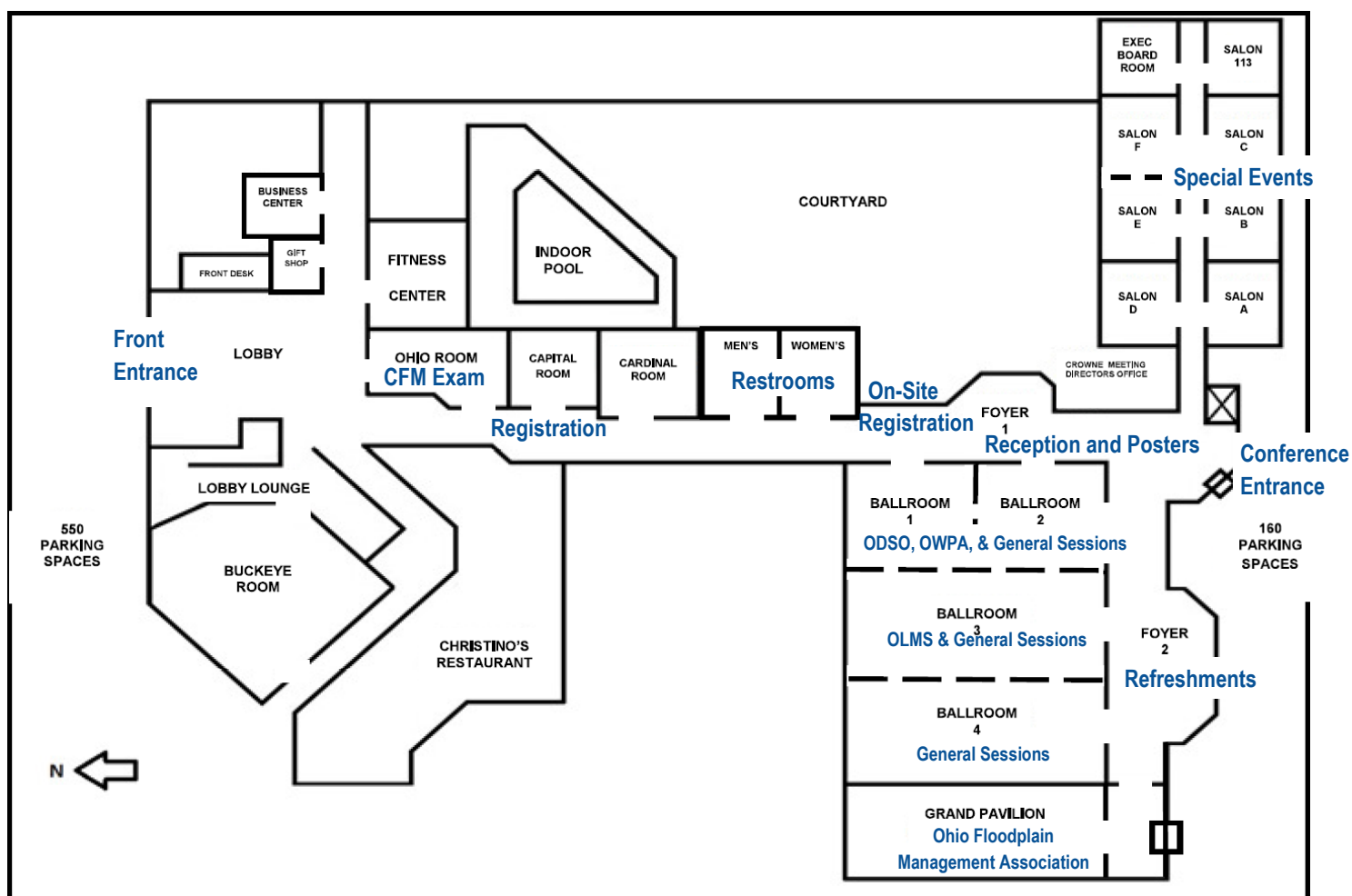


Water Weirding

Wednesday, November 13, 2019

| | | | | | |
|---------------|--|---|--|---|--|
| 8:00 - 8:30 | Registration and Coffee / Refreshments in Foyers 1 & 2 | | | | |
| 8:30 - 9:00 | Welcome and Introduction in Ballroom 3 & 4 | | | | |
| 9:00 - 10:00 | Keynote: Aaron Wilson , The Ohio State University Byrd Polar and Climate Research Center, <i>Water Weirding in a Time of Rapidly Changing Climate</i> | | | | |
| 10:00 - 10:15 | Break and Networking in Foyers 1 & 2 | | | | |
| | Ballroom 1 & 2 | Ballroom 3 | Ballroom 4 | Grand Pavilion | Salon B/C |
| 10:15 -11:45 | Mineral Resource Management | Ohio Lake Management Society | Ohio Department of Agriculture | Ohio Floodplain Management Association | Special Events |
| 10:15 -10:45 | Acid Mine Drainage Paint Pigment (Michelle Shively , Rural Action and True Pigments) | Weird Weather: Did the Unprecedented Precipitation of 2019 in the Maumee River Watershed Affect Riverine Planktonic Cyanobacterial Dynamics? (Doug Kane , Defiance College) | Innovating Voluntary Agricultural Conservation with State Incentives (Matt Lane , Ohio Dept. of Agriculture) | 10:15 - 10:45 National Flood Insurance Program, Floodplain Management, and Ohio Emergency Management Agency Updates (Alicia Silverio , Ohio Dept. of Natural Resources and Dan Clevidence , Ohio Emergency Management Agency) | |
| 10:45- 11:15 | Ohio AML Pilot Projects - Combining Reclamation with Economic Development (Mike Bowden , Ohio Dept. of Natural Resources) | Weather and Climate Impacts on Lake Erie and Coastal Systems (Jason Trapp , Ohio Dept. of Natural Resources) | Agricultural Pollution Abatement Program (Jason Tyrell , Ohio Dept. of Agriculture) | 10:45 - 11:45 Risk Rating 2.0: Progress to Date and Next Steps (Shilpa Mulik , Federal Emergency Management Agency HQ) | |
| 11:15 - 11:45 | Proven Pilot Partnerships: Ohio AML Program & Rural Action (Marissa Lautzenheiser , Rural Action) | Grass Carp Invasion Update (Nikki King , University of Toledo) | Overview of Permitting of Large Livestock Facilities in Ohio (Sam Mullins , Ohio Dept. of Agriculture) | | |
| 12:00 - 1:00 | Awards Luncheon in Grand Pavilion, Vendor Challenge Drawing 1 | | | | |
| 1:15 - 2:45 | Ohio Dam Safety Organization | Ohio Lake Management Society | Sustainable Farming | Ohio Floodplain Management Association | |
| 1:15 - 1:45 | New Dam Construction in Guernsey County, Ohio (Matt Marquis and AJ Smith , Hull & Associates, Inc.) | Modeling Approach to Analyze Salinity Intrusion in Mentor Marsh (Suresh Sharma , Youngstown State University) | Regenerative Farming (Eric Pawlowski , Ohio Ecological Food and Farm Association) | 1:15 - 2:00 Why (Almost) Every Ohio Community Should be in the CRS Program (John Devine , Federal Emergency Management Agency Region 5) | |
| 1:45 - 2:15 | Design and Construction of Cannon Drive Levee - Phase 1 (Michael Rowland , S&ME, Inc. and Miles Hebert , EMH&T) | Six Mile Aqueduct, A Restoration Project Steeped in Challenges and Rain (Matthew Gramza and Jacob Bench , Ohio Dept. of Natural Resources) | Regeneration from the Ground Up (Susan Jennings , Arthur Morgan Institute for Community Solutions) | | |
| 2:15 - 2:45 | Effects of Scour, Landslides and Debris Flows in Puerto Rico during Hurricane Maria (Daniel Pradel , The Ohio State University) | Species Distribution Models for a Native Imperiled Minnow and a Non-native Sport Fish in Ohio (Ken Oswald , Ohio Northern University) | An Agro-Ecological Farmer's Perspective on Sustainably Adapting to an Ever-Changing Climate (Jeff Dickinson , Stratford Ecological Center) | 2:00 - 2:45 Floodplain Frequently Asked Questions (Katherine Goepfner , Ohio Dept. of Natural Resources) | |
| 2:45 - 3:15 | Break and Networking in Foyers 1 & 2 | | | | |
| 3:15 - 4:45 | Ohio Dam Safety Organization | Ohio Lake Management Society | Nutrient Management | Ohio Floodplain Management Association | 3:15 - 4:45 Careers in Water Resources: Professional and Student Networking Event |
| 3:15- 3:45 | Buckeye Lake Dam Improvements (Doug Evans , Ohio Dept. of Natural Resources) | Best Management Practices Could Combat Nutrient Loadings to Lake Erie in a Changing Climate (Haley Kujawa , The Ohio State University) | H2Ohio and Ohio's DAP (Joy Mulinex , Ohio Lake Erie Commission) | 3:15 - 3:45 Reconnecting Streams with Their Floodplains in the Chagrin River Watershed (Kristin Hebebrand , Chagrin River Watershed Partners) | |
| 3:45 - 4:15 | Removing the Tait Station Low Dam from the Great Miami River (Kurt Rinehart , Miami Conservancy District) | Reservoir Management for Harmful Algal Blooms in Drinking water sources (Ruth Briland , Ohio Environmental Protection Agency) | Agricultural Soil Erosion and Water Quality Targets: Management Matters (Libby Dayton , The Ohio State University) | 3:45 - 4:15 USACE Flood Risk Reduction Opportunities (Laura Ortiz , U.S. Army Corp. of Engineers) | |
| 4:15 - 4:45 | High Hazard Dams - Emergency Action Plans and 2D Modeling (Charles Dewes , Christopher Burke Engineering) | Measuring Streamflow, Water Quality and Nutrient Sediment Loads in the Western Lake Erie Basin (Donna Runkle and Dennis Finnegan , U.S. Geological Survey) | Agricultural Phosphorus Run-off and Water Quality Targets: Nutrient Placement (Shane Whitacre , The Ohio State University) | 4:15 - 4:45 Using GIS and HAZUS to Identify Flood Risk Areas (Matt Leshner , Stantec, Inc.) | |

| | |
|-------------|--|
| 5:00 - 6:00 | Reception and Poster Session in Foyers 1 & 2 |
| 1 | <i>Long-term Effectiveness of Grass Filter Strips in Nutrient Reduction within Agricultural Headwaters</i> (Ashlee Balcerzak , The Ohio State University) |
| 2 | <i>The Effect of Aquatic Colorants Used to Control Aquatic Vegetation on the Health of Bluegill Sunfish</i> (Jeremy Evans , The Ohio State University) |
| 3 | <i>Effects of an Aeration System on the Water Quality of an Urban Pond</i> (Christopher Greising , Youngstown State University) |
| 4 | <i>Effects of Substrate and Morphology on Settlement of Diadema Antillarum</i> (Dermot Hutchinson , The Ohio State University) |
| 5 | <i>Quantification of Methane Emissions from Different Land-cover Patches in a Heterogeneous Wetland</i> (Yang Ju , The Ohio State University) |
| 6 | <i>Sorption of Phosphorus in Agricultural Drainage Water Using Water Treatment Residuals</i> (Tvisha Martin , University of Toledo) |
| 7 | <i>Unintended Consequences of Mitigating Agricultural Runoff</i> (Elizabeth Naugle , Ohio Northern University) |
| 8 | <i>Bioretention Basins as Providers of Avian Habitat: First Results from a Large-scale Installation</i> (David Wituszynski , The Ohio State University) |
| 6:00- ? | Attendee Networking and Pizza in Salon B/C |



Water Weirding

Thursday, November 14, 2019

| | | | | | |
|-------------|--|---|---|--|---|
| 7:45-8:30 | Registration and Coffee / Continental Breakfast in Foyers 1 & 2 | | | | |
| | Ballroom 1 & 2 | Ballroom 3 | Ballroom 4 | Grand Pavilion | Special Events |
| 8:30-10:00 | Recreation | Then & Now | Groundwater | Ohio Floodplain Management Association | 9:00-12:00 Ohio Room Certified Floodplain Managers Exam |
| 8:30-9:00 | Clean Marina and Boaters (Heather Sheets, Ohio Dept. of Natural Resources) | Cuyahoga: From Flame to Fame: The Story of an American River (Bill Zawiski, Ohio Environmental Protection Agency) | Statewide, Seamless Mapping of Groundwater Vulnerability using a Modified DRASTIC Model (Craig Nelson, Ohio Dept. of Natural Resources) | 8:30 - 9:00 OFMA General Session & Annual Meeting | |
| 9:00-9:30 | Water Recreation In Weird Times (Lisa Daris, Olentangy Paddle) | | Water Use in Ohio, the Nation, and Moving Towards a Water-use Real-time Network (Kimberly Shaffer, U.S. Geological Survey) | 9:00 - 9:30 Climate Change Resiliency of Stormwater Infrastructure in NE Ohio (Jay Mosley, Environmental Design Group) | |
| 9:30-10:00 | Staying Afloat with Trends in Outdoor Recreation (Adria Bergeron and Kara Musser, Muskingum Watershed Conservancy District) | Sustaining Scioto Short Term Implementation Plan (Rachael Beeman, Mid-Ohio Regional Planning Commission) | Ohio EPA's Underground Injection Control Program (Lindsay Taliaferro, Ohio Environmental Protection Agency) | 9:30 - 10:00 Floodplain Resiliency: The Coming Convergence of Disruption (Julie Lawson, Environmental Design Group) | |
| 10:00-10:15 | Break and Networking in Foyers 1 & 2 | | | | |
| 10:15-11:45 | Ohio Watershed Professional Association | Data and Coordination | Drinking Water | Ohio Floodplain Management Association | 10:15-12:00 Salon B/C Ohio Conservancy Districts Meeting |
| 10:15-10:45 | Enhancing the Utility of Macroinvertebrate Data Collected by Volunteers (Kurt Keljo, Franklin Soil and Water Conservancy District) | Development of Integrated Prioritization Systems to Support Water Quality Management Decision- Making (Edward Rankin, Midwest Biodiversity Institute) | Using Ultrasound to Control Cyanobacterial Blooms in Source Water Reservoirs (Zuzana Bohrerova, The Ohio State University) | 10:15 - 11:00 Why Knowing How Much It Rained Delivers Beneficial Results (Mark Frazier, National Weather Service Indiana, and Sarah Jamison and Link Crawford, National Weather Service Ohio) | |
| 10:45-11:15 | It Should Be Normal by Now - Using Systems Thinking to Protect Rivers (Sarah Hippensteel Hall and Mike Ekberg, Miami Conservancy District) | Allen Creek Berm Opening - An Alternative to Noah's Ark (Jeremy Hedden, Bergmann Associates and Nathan Zgnilec, OHM Advisors) | Impact of Filter Upset During Conventional Surface Water Treatment on UV Disinfection Efficacy (Judith Straathof, The Ohio State University) | 11:00 - 11:45 Using Current Technology to Determine Both Fluvial and Pluvial Risk (Mark Seidelmann, Stantec, Inc.) | |
| 11:15-11:45 | Challenges in Watershed Governance: A Cross-cultural Comparison of Ohio and the Dominican Republic (Joseph Bonnell) | Flood Warning Services in a Wetter World (Sarah Jamison, National Oceanic and Atmospheric Administration) | Peeling the Onion, the Layers of Asset Management (Susan Schell, Ohio Environmental Protection Agency) | | |
| 12:00-1:00 | Lunch in Grand Pavilion, WMAO Annual Meeting, Vendor Challenge Drawing 2 | | | | |
| 1:00-1:30 | WMAO Division Annual Meetings in Salon B/C | | | | |
| 1:30– 2:00 | Stormwater & Community Engagement | Education | Water Treatment | Ohio Floodplain Management Association | 1:30-3:00 Salon B/C Ohio Water Resources Coordinating Meeting |
| 1:30-2:00 | Assessment of Bioretention Performance for Hydrology and Hydrocarbons (Abigail Tamkin, Ohio State University) | Project WET Updates (Dennis Clement, Ohio Environmental Protection Agency) | Seawater Sewage Treatment with Sand Bioreactors (Kristen Conroy, The Ohio State University) | 1:00 - 3:00 Certified Floodplain Manager and Professional Engineering Ethics Training (Alicia Silverio, Ohio Dept. of Natural Resources and Chad Boyer, ms consultants, Inc.) | |
| 2:00-2:30 | Getting Rain Gardens Built Without Lifting a Shovel (Susan Bryan, Washtenaw County Water Resources) | Unique and Effective Ways to Educate for Improving Water Quality (Ryan Bourgart, Ohio Environmental Protection Agency) | Using Instream Bio-reactors to Improve Water Quality, Reduce Erosion and Change Stream Morphology (Kurt Keljo, Franklin Soil and Water Conservation District) | | |
| 2:30-3:00 | Educational Programs at Latham Park (Hala Zahreddine, Urban Park Development, LLC) | Ohio Watershed Leaders Conference – Seventeen Years and Still Evolving (Jerry Iles, The Ohio State University) | USEPA Strategic Plan-National Compliance Initiative (2018-2022) NPDES Significant Non Compliance (Bill Palmer, Ohio Environmental Protection Agency). | | |
| 3:15-4:15 | Ice Cream Social in Grand Pavilion, Door Prizes and Vendor Challenge Drawing 3 | | | | |