



89th Annual Conference

Boyne Mountain Resort | Boyne Falls, Michigan

June 22-25, 2014



MICHIGAN'S
Water Quality Event



Conference Coordination

Todd Wibright and Karlyn Wickham
Conference Coordination

Tim Sikma
Technical Program

Mark Prein and Jennifer Zelski
Awards

Joe Moore
Golf

Todd Wibright
Exhibits

Brian Hannon
Time and Place

2014-2015 Board Nominations

Tim Sikma
President

Brian Hannon
President-Elect

Brian Ross
Vice President

George Davis
Secretary

Sherrie Elliot
Association Director

Todd Wibright
Federation Delegate

President's Welcome	3
General Information	4
Welcome Reception & Water For People Events ..	5
Conference-at-a-Glance	6
Speakers	7
Technical Program	8
Conference Registration	10
Hotel Registration.....	11
Golf Registration	12
Conference Sponsor Form	13
Exhibitor Contract Form.....	14
Directions to Boyne Mountain	16

Annual Business Meeting

Business Meeting / Election of Officers is on Monday, June 23th at 11:30am in the Matterhorn C Room (Civic Center). Everyone is welcome to attend.





MWEA 89th Annual Conference

Chris Kosmowski, President – MWEA

Welcome to the 89th Annual Conference of the Michigan Water Environment Association (MWEA). Our Association is pleased to have you attend. We have worked diligently on the planning of the conference and we hope you take advantage of the many technical, networking, and socializing opportunities.

The conference will begin on Sunday, June 22 and conclude on Wednesday, June 25. We have again chosen Boyne Mountain Resort in Boyne Falls, Michigan as the location. The resort has become the frequent site for our event because the facilities can accommodate a group of our size, it has many family-oriented activities, and it is located in a beautiful area in our great State of Michigan. The resort offers zip-lining, an award winning spa, an indoor waterpark, Avalanche Bay, and their spectacular golf courses.

The MWEA strives to offer diverse, cutting-edge topics in the technical program from all facets of the water environment field at the Annual Conference. As a matter of fact, we label it simply as "Michigan's Water Quality Event." The conference helps the MWEA fulfill elements of our Strategic Plan by including topics that embrace innovation in the water sector, enrich the expertise of Michigan water professionals, and increase the awareness of the value of water. This year's technical program again lives up to its billing as Michigan's Water Quality Event with those critical objectives in mind.

To begin the conference, our opening session has an impressive lineup of outstanding featured speakers. Paul Bowen from the Water Environment Federation (WEF) will give us an update on the happenings at WEF. Tim Williams, also from WEF, will give us pointers on contacting our legislators in a very hands-on and entertaining presentation. Both Paul and Tim will be joined by Ned Breslin, Executive Director for the international organization Water For People (WFP), who will speak about the valuable work they conduct with the slogan "Everyone should have improved water Forever". Finally, our Keynote Speaker is John Austin who directs the Michigan Economic Center at Prima Civitas Foundation. He will speak about the "Blue Economy" to describe the way our water and water innovation contribute to economic growth. This thought provoking opening session will then be followed by an outstanding technical program beginning Monday afternoon.

The MWEA strives to offer diverse, cutting-edge topics in the technical program from all facets of the water environment field at the Annual Conference.

As usual, the technical program is complemented by the many social and networking opportunities that attendees have come to expect. These include the ever popular Vendor Reception and Exhibits Night, Golf Scholarship Fundraiser, WFP Canoe Trip Fundraiser, WFP Bike Ride Fundraiser, Wine Tasting, Jewelry, and the New Professionals Committee Bonfire after Exhibits on Monday night. Award presentations commemorating the achievements of the dedicated professionals in our association will be held at two distinct celebrations on Tuesday.

The following pages will give you complete information about the technical program and other happenings at the conference. As MWEA members, I believe we have a relationship with our Michigan water. I believe it motivates us on the job and I believe the MWEA, and this conference, helps us to go further than we would alone. Whether you stay for a day or for the entire conference, I am confident your time at Michigan's Water Quality Event at Boyne Mountain Resort will be informative and educational while coupled with fun as we continue to endeavor to preserve and protect our water. After all, Water's Worth It.

On behalf of the MWEA Board of Directors, we thank you for your support and we look forward to seeing you in June!

Chris Kosmowski

Registration - shuttle bus available

All conference participants including: attendees, spouse/guests, speakers, exhibitors, and award recipients are required to register for the conference. Registration will be on Sunday from 4:00 pm - 7:00 pm at the Reception Tent at Deer Lake and also on Monday and Tuesday from 7:30am - 3:00pm in the Civic Center, West Lobby. The conference registration form is available on page 10 of this program.

Conference Fees

Full conference registration includes admission to all technical sessions, vendor exhibits, annual business meeting, all entertainment activities, awards ceremonies and all other association activities sponsored during the Conference. Conference registration **DOES NOT** include your meal tickets. See MEALS for further information.

Meals

If you are staying at Boyne Mountain, your meal tickets are included as part of your room fee. If you are not staying at Boyne Mountain, you may purchase meal tickets separately at the Mountain Grand Lodge front desk. Please get your meal tickets as soon as you arrive.

Discounted Registration Fees

You can save on your registration fee two ways. If you are an MWEA member, register at the member rate by May 15, 2014. Membership is by individual. If you are not a member, join MWEA to receive the member rates.

Name Badges

Name badges must be worn at all times and are required for entrance to ALL conference sessions, meals and activities.

Golf

To participate in the Sunday golf outing you must be pre-registered. See information and registration on page 12 of this program.

Payment

Checks, MasterCard, Visa, Discover and American Express will be accepted for registration. Cash payments and onsite registration are available but discouraged.

Conference Attire

The suggested conference attire is 'business casual.' The exception to this is Tuesday night's Leadership Celebration where it is business formal. Comfortable shoes are strongly recommended.

Hotel Accommodations

To receive the special rate, hotel reservations must be made **directly with Boyne Mountain** by May 22, 2014. After that date, reservations will be honored only on a space-available basis at current room rates. Requests after room block is filled will be placed in the next available accommodation type with the rate changing accordingly. Hotel accommodations can be made by returning the form found on page 11 of this program directly to Boyne Mountain Resort. **Please do not send the hotel registration form to MWEA.** Babysitting service is available by contacting Boyne Mountain.

Check in/Check out

Check in time at Boyne Mountain Resort is 5:00 p.m. Check out time is 11:00 a.m.

Refunds/Cancellations

MWEA will refund your registration fee less a \$50 processing fee per person for cancellations received in writing by June 1, 2014. No refunds will be granted after that date. Substitutions may be made at any time (the difference between a member and non-member price will be charged if a non-member replaces a member).

Boyne Mountain Resort reservations are subject to a 7-day cancellation policy. Reservation deposits will be refunded if cancelled 7 days prior to arrival date. Reservations cancelled less than that will forfeit the room deposit. See hotel reservation form for more information.

Questions

If you have questions please contact the MWEA Office at 517-641-7377.

Family Fun

Avalanche Bay Indoor Water Park:

Voted Michigan's #1 Waterpark by readers of the Detroit Free Press! Visit www.avalanchebay.com for more info.

Solace Spa & Salon:

Solace Spa offers a variety of treatments including facial and body treatments, massages and wraps, as well as a full menu of beauty treatments ranging from pedicures, manicures and our brand new full-service hair salon!

Zipline Adventure:

Enjoy the thrill of racing your friends and family on the side by side lines of the Twin Zip or choose the relaxed pace of the Zipline Adventure Tour. These guided tours begin at the top of the mountain and allow you to soar on a series of lines, over slopes and through trees, as you descend back to the base area. Both are all thrills, no skills activities for all ages.

The Monument Golf Course:

A scenic mile-long golf cart ride takes you to the summit of this 7,086-yard jewel at Boyne Mountain. Four sets of tees drop in giant steps to the pond protected first hole that Sam Snead called one of the most intimidating anywhere. The Monument was a Golf-Digest's runner-up for Best New Resort Course of 1987. Snead, Kathy Whitworth, Gene Sarazen, Byron Nelson and other legends have played the course, admired it and picked holes to be named for them. The Monument is the location of the Annual Conference Golf Outing on Sunday afternoon. See Golf Registration Form (page 12) for more details.

Deer Lake For Swimming and Fun:

Head to the sandy beach and refreshing waters of Deer Lake (located on the west side of the resort property) for summer fun and a cool dip. All resort lodging guests are welcome at Deer Lake Beach where you'll discover activities such as bocce ball and a putting course and enjoy views from the lake and warm breeze from a kayak, row boat and the latest addition....SUPs (Stand Up Paddleboards). Use of the beach area, SUPs, kayaks, paddle boats and rowboats is complimentary for Boyne Mountain lodging guests. Sailboats are available for rental.

Sunday, June 22 – Welcome Reception

Place: Deer Lake

Time: 5:30 Reception, 7:00pm Dinner

Shuttle Bus Available

The location of the Welcome Reception will once again be held on the shores of beautiful Deer Lake. Deer Lake is located across from the Monument Golf Course. Bring your entire family and enjoy a great meal and relaxing with friends while enjoying outdoor activities such as shuffleboard and a putting green or simply watching the sunset along the water's edge. It is a great way to start a great week with friends and colleagues!



Water For People Events



Sunday, June 22

WFP Canoe Trip

Sunday, June 22 at 11:45AM

Meet at Boyne Mountain Grand Lodge

Trip includes: canoe rental from Jordan Valley Outfitters, 3 hour trip down the Jordan River and all you can eat fresh gourmet cookies. Plan to return to Boyne Mountain by 5:30 PM.

What to bring: water, a hat, insect repellent snacks and sunscreen.

Cost: \$72.00 for a team of two paddlers (\$42.00 for canoe rental and \$30.00 for WFP). If you prefer to rent a solo kayak, the cost is \$46.00 per person. You can also bring your own canoe and just donate \$15.00 per person to WFP. All costs can be paid onsite.

Pre-registration by May 23: email Gary De Kock at gdekock@gmail.com to register or for additional trip details.

Weather conditions: if weather conditions interfere with our trip, refunds may not be available.

Monday, June 23

WFP Bike Ride

Monday, June 23 at 3:30

(or immediately following the last technical session)

Meet outside Boyne Country Sports

(Boyne Mountain's onsite bicycle rental location)

Trip includes: a ride with your bicycle up the chairlift, a backroads ride to Boyne City to visit a classic ice cream parlor, trip back through scenic, "rolling" Charlevoix County, distance is approximately 20 miles. Plan to return to Boyne Mountain by 6:30 PM.

What to bring: your own bicycle and helmet, water and sunscreen. You can rent a bicycle and helmet at Boyne Mountain at your own cost.

Cost: \$15 donation to WFP. All costs can be paid onsite. Bike Rentals cost around \$40 per bike.

Pre-registration by June 13: email Gary De Kock at gdekock@gmail.com to register or for additional details.

Weather conditions: hope for the best, but weather conditions may cancel the ride.



Sunday, June 22

11:00am	Golf Outing Monument Golf Course
11:45am - 5:30pm	Canoe Trip Meet in Hotel Lobby
4:00pm - 7:00pm	Conference Registration Conference Registration at Deer Lake
5:00pm - 6:00pm	5-S Meeting Beach House Restaurant, next to Deer Lake Shuttle Bus Available
5:30pm - 7:00pm	Reception Deer Lake Lawn/Tent (across from Monument Golf Course). Rain location is the Civic Center. Shuttle Bus available
7:00pm - 8:30pm	Dinner Deer Lake Lawn/Tent. Rain location is the Civic Center
8:30pm	Entertainment Social Time with friends and colleagues, Outdoor Games. Deer Lake Lawn/Tent. Rain location is the Civic Center

Monday, June 23

6:30am - 8:30am	Breakfast Buffet Vienna A, Grand Mountain Lodge
7:00am	5K Walk / Run Meet in Hotel Lobby
7:00am	DEQ Breakfast Meeting Vienna B, Grand Mountain Lodge
7:30am - 3:00pm	Conference Registration Civic Center-West Lobby
8:30am - 11:30am	Opening Session Matterhorn C/D, Civic Center
9:00am - 10:00am	Yoga with Kari Stuart Graz Room, Grand Mountain Lodge
9:00am - 4:00pm	Exhibitor Setup #1 Civic Center
11:30am - 12:00pm	Business Meeting and Election of Officers Matterhorn C, Civic Center
12:00pm - 1:00pm	Lunch Buffet Vienna, Grand Mountain Lodge
1:15pm - 3:15pm	Session #1 Arlberg 1 & 3, lower level Civic Center
1:15pm - 3:15pm	Session #2 Arlberg 2 & 4, lower level Civic Center
2:00pm - 4:00pm	Exhibitor Setup #2 Civic Center
3:15pm - 5:00pm	Wine and Beer Tasting Vienna Room, Grand Mountain Lodge
3:30pm - 5:45pm	Bike Ride Meet in Hotel Lobby
5:00pm - 9:00pm	Exhibits Open Civic Center
6:00pm - 8:00pm	Dinner Civic Center
9:00pm	Bonfire Hosted by the New Professionals Committee – Firepit, Lawn outside of Civic Center

Tuesday, June 24

6:30am - 8:30am	Breakfast Buffet Vienna A, Grand Mountain Lodge
7am - 8am	Committee Chair Breakfast Vienna B, Grand Mountain Lodge
7:30am - 3pm	Conference Registration Civic Center-West Lobby
8:30am - 11:45am	Session #3 Arlberg 1 & 3, lower level Civic Center
8:30am - 11:45 am	Session #4 Arlberg 2 & 4, lower level Civic Center
9:00am - 11:00am	Jewelry Making with Margaret Ross Jewelry Designs Graz Room, Grand Mountain Lodge
12pm - 1:15pm	Awards Luncheon Matterhorn, Civic Center
1:00pm - 3:00pm	Jewelry Making with Margaret Ross Jewelry Designs Graz Room, Grand Mountain Lodge
1:30pm - 4:15pm	Session #5 Arlberg 1 & 3, lower level Civic Center
1:30pm - 4:15pm	Session #6 Arlberg 2 & 4, lower level Civic Center
5:30pm - 6pm	5S Induction Matterhorn, Civic Center
6pm - 7:00pm	Reception Matterhorn, Civic Center
7pm - 10pm	Leadership Celebration Dinner Matterhorn, Civic Center

Wednesday, June 25

6:30am - 8:30am	Breakfast Buffet Vienna A, Grand Mountain Lodge
8:30am - 11:45am	Plenary Session Matterhorn A & C, Civic Center
12:00pm	Lunch at the restaurant of your choice (except Piersons) or pre-ordered TO GO Box Lunches
12:00pm - 2:00pm	Board Meeting Vienna B, Grand Mountain Lodge

Exhibits Night Theme

Michigan Outdoors

Monday, June 23, 2013
5:00 pm to 9:00 pm

Are you an avid hunter or fisherman or simply enjoy hiking in the woods and camping in Michigan's finest campgrounds? Be proud of the state you live in by dressing up in your favorite Michigan Outdoors theme.





Special Guest Speaker

John Austin directs the Michigan Economic Center at Prima Civitas Foundation, www.MiEconomic-Center.org a center for ideas and network-building to advance Michigan's economic transformation. Austin was elected in 2000, and re-elected in 2008, by the

people of Michigan to the State Board of Education, and unanimously elected President by his peers. He also serves as a Nonresident Senior Fellow with the Brookings Institution.

With the Michigan Economic Center, Austin is spearheading the 'Michigan Dream Restored' initiative to develop citizen-informed strategies for better supporting Michigan's foundational assets – the 'public goods' that drive Michigan's economy: strong education and higher education institutions, improved transportation and communications infrastructure, vital and attractive cities and communities; protection of our lakes, waters and outdoor recreation assets. He also coined the term 'Blue Economy' to describe the way our waters, and water innovation contribute to economic growth, and is leading a 'Growing Michigan's Blue Economy' Initiative, to support stakeholders and the State in building on our natural water, and water research, education and innovation assets for economic development and new business and job growth.

In 2006 Austin created and directed the Great Lakes Economic Initiative for the Brookings Institution where he authored key Brookings reports that directly shaped the region's economic development agenda: 'The Vital Center: A Federal-State Compact to Renew the Great Lakes Region,' 'The Vital Connection: Reclaiming Great Lakes Economic Leadership in the Bi-National Great Lakes Region,' and 'Healthy Waters, Strong Economy' which led to federal support for Great Lakes clean-up and restoration, and regional understanding and actions to build on our Great Lakes and water resources as an economic asset.



Invited Speaker

Matt Doss, Policy Director, Great Lake Commission. Mr. Doss is policy director for the Great Lakes Commission, where he has worked since 1994. He coordinates the Commission's advocacy program with Congress

and the federal government and works on a number of projects, including support for the Great Lakes Restoration Initiative, cleanup on degraded Areas of Concern, and developing options to separate the Great Lakes and Mississippi River basins in the Chicago area to prevent the transfer of Asian carp and other invasive species. Prior to joining the Commission Doss worked for a Member of Congress in Washington and for an environmental planning consulting firm in San Francisco. He is Michigan native, growing up in Ann Arbor and receiving a BA from Kalamazoo College.



Invited Speaker

Tim Williams serves as Senior Director for Government Affairs at the Water Environment Federation in Alexandria, Va. Tim joined the Federation in 1984 after working for the United States Senate and the Maryland General Assembly. He received a BS in Government

and Politics from the University of Maryland and has over 30 years experience in environmental policy and water quality issues. Tim's role at WEF includes working with WEF members and Member Associations to get them directly involved in legislative and regulatory issues at the Federal and state level.



Special Guest Speaker

Paul Bowen is the 2013-2014 Vice President of the Water Environment Federation (WEF), an international organization of water quality professionals headquartered in Alexandria, Virginia.

Paul is currently the Director, Sustainable Operations for The Coca-Cola Company. In this role he leads the environmental sustainability program across the Quality and Technical organizations of The Coca-Cola Company. He is responsible for delivering on Company commitments in the water and energy/ climate spaces, and for embedding environmental sustainability across all Coca-Cola System operations. He serves as a technical expert for developing water reuse with corporate quality standards and as a SME on water and wastewater treatment issues,

A WEF member since 1977, Paul has held multiple leadership and committee roles within WEF. He currently serves as the Vice-Chair of the Committee Leadership Council. He has served on the Program Committee as both chair and vice chair as well as served as a member and chair of the Residuals & Biosolids Technical Symposium, Industrial Wastes Technical Symposium and the Research Symposia. Paul was also chair of the Committee Leadership Council's Delivery Focus Group and a member of the Public Affairs & Communications and Industrial Wastes Committees. In addition, he has served as a literature review author for the Residuals & Biosolids and Industrial Wastes Committees.



Invited Speaker

Jim Nash, Water Resources Commissioner. Oakland County Water Resources Commissioner Jim Nash began working for the citizens of Oakland County in 2005 when he served on the Oakland

County Board of Commissioners. He started by focusing his energies on environmental sustainability, green building, and veteran services. These issues continue to be at the forefront of his decision making.

Commissioner Nash is a strong advocate for the sustainability's Triple Bottom Line: economic development, environmental stewardship, and social equity. In his words, "we must protect our environment and our precious natural resources while we work for long-term economic success while ensuring that all our citizens have access to the resources they need to succeed in our region."

In addition, Commissioner Nash has been deeply involved in regional collaboration efforts directly related to sustainable development and resource conservation among the diverse interests of Southeast Michigan. He organized and hosted seven Annual Green Building Workshops in the Commissioners' Auditorium. He also helped plan the first two Oakland County Green Building Summits.



Invited Speaker

Ned Breslin found himself working on a water project in northern Kenya in 1987 and never looked back. Twenty years later he moved back to the US to join Water For People as its Director of International Programs, eventually becoming CEO in 2009. He is a recipient of the 2011 Skoll Award for Social Entrepreneurship.

All half-hour course segments within each session are worth .05 CECs, other than the Opening and Plenary Sessions which are given credits based on attendance at the entire session.

Monday, June 23

Opening Session

- 8:30 **President's Welcome**
Christine Kosmowski, MWEA President
- 8:35 **WEF Address** Paul Bowen, Special Guest Speaker
- 9:00 **Tips and Training for Effective Interaction with Legislators and their Staff**
Tim Williams (WEF), Special Guest Speaker
- 9:45 **BREAK**
- 10:00 **Building Momentum for Global WASH Change**
Ned Breslin, Water for People, Special Guest Speaker
- 10:45 **Michigan's Blue Economy** John Austin, Keynote Speaker
- 11:30 **Annual Business Meeting and Election of Officers**

Session 1 - Collections

- 1:00 **Anatomy of Microbially Induced Corrosion**
Harry Price, P.E., Senior Principal Engineer, NTH Consultants, Ltd.
- 1:30 **The New Wastewater: Collection System Challenges Caused by Today's Modern Trash** Robert Domkowski, Engineering Consultant, Xylem, Inc. - Flygt
- 2:00 **Case History - City of Grand Rapids, Footing Drain Disconnection Program** Kathie Kuzawa, Wastewater/Stormwater Maintenance Supervisor, City of Grand Rapids
- 2:30 **Results from Ann Arbor Sanitary Sewer Wet Weather Evaluation Project** Robert Czachorski, Senior Associate, OHM Advisors

Session 2 - Stormwater

- 1:00 **GFIA Stormwater / Deicing Runoff Management Program** John Stroo, Senior Project Manager, Prein&Newhof
- 1:30 **Urban Watershed Monitoring – One Decade after Management Plan Implementation** Brian Boyer, Env. Eng. Manager, Kieser & Associates, LLC
- 2:00 **Maturing Green Infrastructure Programs** Carol Hufnagel, P.E., Vice President, Tetra Tech
- 2:30 **The Brent Run Landfill Story: Documentation, Design and Funding** Stu Kogge, PWS, Sr. Wetland/Aquatic Biologist, Cardno JFNew

Tuesday, June 24

Session 3 - Energy Management

- 8:30 **Innovative Energy Savings at the City of Grand Rapids Wastewater Treatment Plant** Michael Lunn, Environmental Services Manager, City of Grand Rapids, MI
- 9:00 **Optimizing Digester Gas Usage at the Benton Harbor-St. Joseph, Michigan Joint Wastewater Treatment Plant** Robert Kulchawik, Senior Associate, AECOM
- 9:30 **What Can Solids Do For You? – Shifting Towards Solids as an Energy Source** Eric Auerbach, Engineer, ARCADIS
- 10:00 **BREAK**
- 10:15 **Change Order Reduction Through 3D Modeling and BIM** Brian Hannon, P.E., Project Engineer Moore & Bruggink
- 10:45 **How to Maximize the Value of Polymers in Wastewater Treatment Processes** Yong Kim, Technical Director, Wallace & Tiernan ChemFeed, Inc.
- 11:15 **Reorganizing for Success First Steps at DWSD** Wendy Barrott, General Manager, Detroit Water and Sewage
- 11:45 **Awards Luncheon (starts at noon)**
Matterhorn, Civic Center

Session 4 - Asset and Utilities Management

- 8:30 **Quality Assurance for Closed Circuit Television Inspection** Harry Price, P.E., Senior Principal Engineer NTH Consultants, Ltd.
- 9:00 **Stormwater Asset Management in Grand Rapids, MI** Dan Christian, Senior Project Manager, Tetra Tech
- 9:30 **Innovative Methods to Assess Sewer Pipe Risk and Improve Replacement Planning Decisions** Celine Hyer, Manager, ARCADIS
- 10:00 **BREAK**
- 10:15 **Rehabilitation of Large Diameter Steel Force Mains with a Structural Epoxy Lining System** Mike Hershelman, Engineer, ARCADIS
- 10:45 **Asset Management Development and "Gap" Analysis** Katie Erickson, Lab Technician II, City of Wyoming
- 11:15 **How in the World Do We Get it Done: Managing the Human Physical Assets** Gary Vaughan, Consultant, Greeley and Hansen
- 11:45 **Awards Luncheon (starts at noon)**
Matterhorn, Civic Center

Tuesday, June 24 continued

Session 5 - Stormwater / Watershed

- 1:30 **Restoring Fish Passage in the Red Run Headwaters**
James Burton, Associate, Hubbell, Roth & Clark, Inc.
- 2:00 **Dead River Flood & Stream Recovery: Ten Years and Ten Million Later** Mitch Koetje, Environmental Quality Analyst, Michigan Department of Environmental Quality
- 2:30 **Envision – The New Sustainability Rating System**
Nicole Spieles, Office Director, Greeley and Hansen
- 3:00 **BREAK**
- 3:15 **Stormwater Improvements using Green Infrastructure for Bacteria Reduction in Suttons Bay, Michigan**
Troy Naperala, Water Resource Engineer, URS
- 3:45 **Creating a New Toolbox for Site Design under Emerging State/Federal Rules** Greg Kacvinsky, P.E., Project Manager, OHM Advisors

Session 6 - Process

- 1:30 **Oxygen Transfer – RBCs**
Steven E. Wi, Principal, Williams & Works
- 2:00 **Clare, Michigan WWTP - A Case Study on Low Maintenance and Low Cost Cold Weather Nitrification** John Holland Jr., Water Circuit Rider, Michigan Rural Water Association
- 2:30 **Low Energy Non Shear Waste Activated Sludge Thickening Alternatives and Design for Grand Rapids WWTP** Brent Bode, Project Engineer, Tetra Tech
- 3:00 **BREAK**
- 3:15 **Get it While It's Hot – Sewage Heat Recovery Technology Assessment**
Michael Harvey, Regional Manager, ARCADIS
- 3:45 **When Everyone Is Involved, Everyone Wins**
Dan Schetcher, Detroit Water and Sewerage Department

Wednesday, June 25

Plenary Session

- 8:30 **President's Welcome** Tim Sikma
- 8:45 **News from the Field** Steve Aiken
- 9:00 **Dan Wolz Winner – Water Education at Okemos High School and Beyond** David Chapman
- 9:30 **Jim Nash – Protecting our Water**
Jim Nash, Oakland County
- 10:00 **BREAK**
- 10:15 **Preventing the Movement of Quatic Invasive Species through the Chicago Area Waterway System: Technical and Political Challenges**
Matt Doss, Policy Director, Great Lakes Commission
- 11:00 **Waging a Campaign Against Non-Dispersibles: What the Public Doesn't Know Can Hurt Us**
Sandra Buchner, City of Grand Rapids and Jerry Harte, MWEA
- 12:00 **LUNCH** at the restaurant of your choice or pre-ordered TO GO Box Lunch (lunch tickets are not honored at Pierson's)

CONFERENCE SPONSORS

(as of program print date)

Lake Superior Sponsors

Duperon
HESCO

Lake Michigan Sponsors

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United Water
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Lake Erie Sponsors

Arcadis
Pumps Plus Inc.

Lake Ontario Sponsor

Fishbeck, Thompson, Carr & Huber, Inc.





michigan's water quality people

Registration Information

You can register and pay online at www.mi-wea.org or return completed form along with payment to:

MWEA
PO Box 397
Bath, MI 48808
Phone 517-641-7377
Fax 517-641-7388
mwea@mi-wea.org

- When completing form, please print or type.
- Each attendee must be registered. Member attendees should include guest information on this form.
- Return this entire form, along with payment for registration fees to MWEA.
- Make checks payable to MWEA.
- Name badges are required for ALL functions-no exceptions.
- Registration form and payment must be postmarked by May 16, 2014 to qualify for early registration rate.

Meals are included with your Boyne room registration.

Meals are not included as part of your conference registration fee.

If you are not staying at Boyne Mountain, meal tickets can be purchased at the hotel lobby when you arrive.

June 22-25, 2014, Boyne Mountain Resort, Boyne Falls, MI

Name _____

Company/Employer _____

Address _____

City _____ State _____ Zip _____

Phone _____ WEF/MWEA Membership No. _____

Email _____

Special Requirements _____

Please Print your name, as you would like it to appear on the name badge:

Yourself _____ Spouse/Guest _____

Children's names and ages _____

Participating as: Check all that apply

- | | | | |
|--|--|------------------------------------|---|
| <input type="checkbox"/> Award Winner | <input type="checkbox"/> Life Member | <input type="checkbox"/> Exhibitor | <input type="checkbox"/> Speaker |
| <input type="checkbox"/> Moderator | <input type="checkbox"/> Committee Chair | <input type="checkbox"/> Retiree | <input type="checkbox"/> Sponsor |
| <input type="checkbox"/> Local Section Chair | <input type="checkbox"/> Past President | <input type="checkbox"/> Student | <input type="checkbox"/> Board of Directors |
| <input type="checkbox"/> Executive Committee | <input type="checkbox"/> Attendee | | |
- Check here if you are a new member since May 1, 2013
 Check here if this is your first conference.

Registration Fees: Please check the appropriate rate(s).

FULL CONFERENCE				
Member	Non-Member*	Student/ Retiree	One-Day Only	Speaker**
Early registration (Payment postmarked on or before 5/16/14)				
<input type="checkbox"/> \$285	<input type="checkbox"/> \$360	<input type="checkbox"/> \$50	<input type="checkbox"/> \$175	See Below
Late Registration (Payment postmarked after 5/16/14)				
<input type="checkbox"/> \$340	<input type="checkbox"/> \$415	<input type="checkbox"/> \$50	<input type="checkbox"/> \$205	See Below

Method of Payment: Please check the appropriate box (es).

Total Amount Due \$ _____

- Check Enclosed (make payable to MWEA)
- Charge to my: VISA MasterCard Discover American Express

Account # _____ Expiration Date _____

Name as it appears on Card _____

Billing Address of the Card _____

Signature _____

***If you would like to save on your registration fee, you can join MWEA and receive the member rate. Call 517-641-7377 for details.**

SPEAKER RATES:

- Speakers receive a discount on attending the conference. See below for rates:
- Speaking Day Only (free) Additional Day (\$100) Full Conference (\$210)



Group Name: Michigan Water Environment Association
 Dates: June 21-25, 2014

Reservations must be made utilizing this form and be received by **May 22, 2014**. Reservation requests received after this date will be taken on a space available basis at current room rates.

Check in and check out takes place at the Mountain Grand Lodge Front Desk for all room types.

Accommodations: Please indicate your 1st and 2nd lodging preference below. If room type requested is not available, the next available room type and rate will be confirmed. **We cannot guarantee specific rooms/units. All rooms are non smoking.**

Accommodations			
Room Type	Single	Double	Indicate 1st & 2nd Choice
Clock Tower Deluxe	\$202.98	\$146.14	
Boynehoff Suites	\$232.59	\$160.94	
Mountain Grand Lodge - Parlor	\$271.67	\$160.48	
Mountain Grand Lodge - Queen	\$271.67	\$160.48	
Mountain Grand Lodge - King	\$271.67	\$160.48	
Mountain Grand Lodge - One Bedroom	\$371.14	\$230.22	

Rates are based on the Full American Plan per person, per day, which includes lodging and three meals. The package begins with dinner on the day of arrival and ends with lunch on the day of departure. Rates also include taxes, resort fees and meal gratuities.

Boyne Mountain Resort has a two-night minimum on weekends (Friday and Saturday night).

Please print:

Arrival Day/Date _____ Departure Day/Date _____

Share with _____

Number of Adults in Party: _____ Number of Children in Party: _____

Ages of Children 18 & under _____

Name _____

Company _____

Address _____

City/State/Zip _____

Phone / Business: _____ Phone / Home _____

*E-mail Address: _____

**Room confirmations will be e-mailed within 48 hours of receipt of reservation.*

Boyne Rewards #: _____

**Special Requests* _____

***Boyne does its best to accommodate requests, but cannot guarantee them.*

PAYMENT METHOD:

Check Enclosed \$ _____

VISA MasterCard Discover American Express Diners Club

Credit Card # _____ Expiration Date _____

Signature _____



Reservations can be made by calling, on-line, mail or fax:

Boyne USA, Inc.
 Central Reservations Department
 P.O. Box 19, Boyne Falls, MI 49713
 Phone: 1-800-462-6963
 Fax: (231) 549-6844
 Online: www.boyne.com
 Booking Code: 10003X

Deposits: A deposit equal to the first night's lodging is required with each reservation. Please make check or money order payable to Boyne USA Resorts or include a credit card number. The card will be charged upon receipt of form. Do not send cash.

Cancellation Policy: Cancellation and changes affecting arrival/ departure dates must be made 7 days prior to arrival date in order to receive refund of deposit, less a \$10.00 administrative fee.

Tax exempt individuals: Please present the state tax exempt form 3372 at check in.

NOTE: Personal funds are not exempt from state tax or local assessments.

Boyne Mountain Room Descriptions

Clock Tower Lodge – One King or Queen/ Queen rooms. The Clock Tower Lodge observes a 5:00pm check-in and 1:00pm check-out.

Boynehoff Suites – One Queen, sofa sleeper with wetbar and refrigerator. The Clock Tower Lodge observes a 5:00pm check-in and 1:00pm check-out.

Parlor – One queen bed, one sofa bed, bathroom with tub, wet bar (microwave/mini fridge) and electric fireplace. The Mountain Grand Lodge observes a 5:00pm check-in and 11:00am check-out.

Queen – Two queens, bathroom (shower only) and wet bar (mini fridge). The Mountain Grand Lodge observes a 5:00pm check-in and 11:00am check-out.

King – One king bed, bathroom (shower), in room whirlpool tub, wet bar (mini fridge), and electric fireplace. The Mountain Grand Lodge observes a 5:00pm check-in and 11:00am check-out.

One Bedroom Suite – One bedroom suite with one king or two queen in bedroom upstairs with bathroom (shower) and in room whirlpool tub, one sofa bed in living room, bathroom (with tub), wet bar (mini fridge), electric fireplace and balcony. The Mountain Grand Lodge observes a 5:00pm check-in and 11:00am check-out.



Golf Hole Sponsor Deadline is **June 6, 2014**

Golf Registration Deadline is **June 1, 2014**

The Monument at Boyne Mountain

One Boyne Mountain Road
Boyne Falls, MI 49713
1-800-GO-BOYNE

Sunday, June 22, 2014 Golf Scramble, \$100 per person

Sunday Golf Outing

This year's MWEA Annual Golf Outing will take place on Sunday, June 22, with a shotgun start at 11:00 am on The Monument Course at Boyne Mountain. As always, the event will be a scramble format with prizes awarded to the winning teams. In addition, there will be special prizes for the longest drive and closest to the pin. Pre-payment is required. The cost for this event is \$100 per person which includes a golf cart. If you have already checked in at the hotel and received your meal tickets, you may use one of the tickets to pay for lunch at the golf course. Check in at the pro shop no later than 10:00 am. Registration is on a first-come, first-serve basis. Space is limited, so register early.

Fireman's Rope

We will once again be offering each foursome the opportunity to purchase a 'fireman's rope' for \$20. These must be purchased the day of the event, prior to the start. Proceeds from the rope sale are contributed to MWEA scholarships.

Be sure to get your name and payment in early to be part of the fun!

You can either register online at www.mi-wea.org or fill out the form below and fax or mail it in.



MWEA Annual Conference Golf Event

Sunday Golf Scramble Registration

Please register the following person(s) for the 'Sunday Golf' event. **\$100 per person is due at the time of registration.**

1. _____
2. _____
3. _____
4. _____

If you would like to sponsor a hole, please check this box (\$100/hole)

I understand the event is a scramble format beginning at 11:00 am and we are required to check in by 10:00 am.

Name: _____

Address: _____

Phone: _____

**Note: Individual golfers and partial groups will be paired to complete 'foursomes' as available.*

Mail completed forms to: MWEA • P.O. Box 397 • Bath, MI 48808
517-641-7377 • Fax: 517-641-7388 • E-mail: mwea@mi-wea.org

Register ONLINE at www.mi-wea.org or fill out the information below and fax to 517-641-7388.

Make the most of your company's investment by participating as a Conference Sponsor. Conference Sponsors provide an invaluable service to the MWEA by supporting the learning and networking opportunities of the association. MWEA recognizes its sponsors in various ways depending on the level of support.

Register ONLINE at www.mi-wea.org or fill out the information below and fax to 517-641-7388. This represents a contract between the Michigan Water Environment Association and the following company:

MWEA ANNUAL CONFERENCE SPONSORSHIP OPPORTUNITIES	Ontario \$400	Erie \$600	Huron \$800	Michigan \$1,000	Superior \$1,500	Great Lakes \$2,000
Name/Logo displayed on a Sign Board at Conference	✓	✓	✓	✓	✓	✓
Number of slides on Power Point Loop played during Conference	1	2	3	3	4	4
Name/Logo printed in the Daily Program Guide		✓	✓	✓	✓	✓
Name/Logo in MWEA Matters Magazine Conference Recap Edition		✓	✓	✓	✓	✓
Name/Logo on the MWEA Website Conference Page			✓	✓	✓	✓
1 Full Conference Registration				✓	✓	✓
1 Awards Banquet Ticket				✓	✓	✓
Name/Logo on the Conference Bag					✓	✓
Sign at Coffee/Afternoon Break Table					✓	✓
Signs at Awards Luncheon/Banquet						✓
Name/Logo printed on Drink Tickets						✓
Name/Logo on Awards Program						✓

Please Note:

There is only 1 opportunity for the Great Lakes Sponsor. Size of Name/Logo increases with the level of sponsorship.

Sponsorship Level:

- Ontario Erie Huron
 Michigan Superior Great Lakes

Company: _____

Contact Name: _____

Address: _____

Phone Number: _____ Fax: _____

E-Mail: _____

- Check (enclosed) Visa MasterCard American Express

Credit Card Number: _____ Expiration Date: _____

Name as it appears on the credit card: _____

Billing Address: _____

Signature: _____

Mail Sponsor Contract along with payment, an electronic version of your logo or your PowerPoint slide(s) to: MWEA PO Box 397 Bath, MI 48808 – (fax) 517 641-7388 – (e-mail) mwea@mi-wea.org. You can also register online at www.mi-wea.org.



You can register and pay online at www.mi-wea.org or mail Sponsor Form along with payment to:

MWEA
 PO Box 397, Bath, MI 48808
 Phone 517-641-7377
 Fax 517-641-7388
mwea@mi-wea.org

**Exhibits Night Theme
 Michigan Outdoors**

Monday, June 23, 2014
 5:00 pm to 9:00 pm



Are you an avid hunter or fisherman or simply enjoy hiking in the woods and camping in Michigan's finest campgrounds? Be proud of the state you live in by dressing up and decorating your booth in your favorite Michigan Outdoors theme. Best booth wins \$100 towards next year's exhibit cost.

Conference Sponsor Contract Form



Maximize your marketing opportunities by being a Conference Sponsor and an Exhibitor!!
 More details can be found at www.mi-wea.org

Your contract and payment must be postmarked by the cutoff dates to qualify for the lowest rates.

Reception/Exhibits Monday, June 23 5pm - 9pm

If representatives from your firm wish to participate in golf events or the conference technical sessions, they must complete the separate Conference Registration Forms found in this program and pay the appropriate fees.

If you need additional equipment or services, you can download order forms using the following procedures:

Go to the following website:
www.artcraftdisplay.com
 Click on: "Get Exhibitor Kit"
 Enter Event Code: 210612

Advance order deadline is Friday, June 13, 2014, 5:00 p.m.

Meals are NOT INCLUDED in the exhibit fee.

Register ONLINE at www.mi-wea.org or fill out the information below and fax to 517-641-7388.

Company: _____
 Contact Name: _____ Title: _____
 Mailing Address: _____
 City, State, Zip: _____
 Phone Number: _____ Fax: _____
 E-Mail: _____
 Brief description of product or service: _____

Maximize your marketing opportunities by being a Conference Sponsor and Exhibitor!!
 More details can be found at www.mi-wea.org

The Exhibit Fee includes standard booth equipment (see below). It **DOES NOT include the meal on exhibit night**. If you are staying overnight at Boyne Mountain, you will receive meal tickets when you check-in. If you are not staying at Boyne Mountain, you can purchase exhibit night meal ticket(s) at the hotel registration desk when you arrive. **There is an area for outdoor exhibits. If you are interested in doing an outdoor exhibit, call MWEA for pricing.**

EXHIBIT REGISTRATION

Cost to Exhibit in Main area within Civic Center (see map at www.mi-wea.org)
 \$570 x _____ (# of booths) paid in full through May 17, 2014
 \$670 x _____ (# of booths) paid in full AFTER May 17, 2014
 Cost to Exhibit in the West Reception area within Civic Center – only 6 available (see map at www.mi-wea.org)
 \$470 x _____ (# of booths) paid in full through May 17, 2014
 \$570 x _____ (# of booths) paid in full AFTER May 17, 2014

OUTDOOR EXHIBIT REGISTRATION

Exhibits/equipment will be placed outside the Entrance of the Civic Center from Sunday - Wednesday
 \$1200 x _____ Price includes Outside Exhibit of equipment from Sunday, June 22 through Wednesday, June 25 and your name or company logo on the Sponsor Bag that is given to all attendees.

EXHIBIT REGISTRATION

Number of Additional Exhibitors at your booth _____ @ \$30 each (list their names below)
 Electric in booth (circle): YES NO - **Add \$10 for 110-volt and \$20 for 220-volt**

Total Due For Exhibit Booth(S) \$ _____
Total Due For Extra Exhibitors \$ _____
Total Due For Electric \$ _____
Grand Total Due For Booth(S) And Extra Exhibitors \$ _____

EXHIBITOR NAMES

The Exhibit Fee includes registration for one individual for Monday Night Exhibits. It does not include General Conference, lodging, meals, or other activities. The charge for additional exhibitors at your booth is \$30 each. Fill in the names of your representatives as they should appear on their **name badge**:

Name: _____ (free) Name: _____ (\$30)
Print Print

Name: _____ (\$30) Name: _____ (\$30)
Print Print

EXHIBIT NIGHT MEALS

The Exhibit Fee includes standard booth equipment (see below). **It DOES NOT include the meal on exhibit night.** If you are staying overnight at Boyne Mountain, you will receive meal tickets when you check in. If you are not staying at Boyne Mountain, you can purchase exhibit night meal ticket(s) at the hotel registration desk when you arrive.

Booth space will not be reserved until the exhibit fee is paid in full. Booth assignments will be determined in May and vendors will be notified of their booth assignment by email at that time.

Hotel Reservations are handled by Boyne Mountain. **Hotel Reservation Form should be faxed directly to Boyne Mountain for processing. Hotel Reservation is available on the MWEA Website (www.mi-wea.org).**

To participate in golf events or Full Conference Registration, a separate Golf /or Conference Registration Form must be filled out (appropriate fees apply). Conference and Golf Registration can be done online at www.mi-wea.org or by filling out the appropriate forms.

AGREEMENT

I hereby contract to participate in the 2014 MWEA Annual Conference Exhibit Night and agree to pay the appropriate Exhibit fee, as explained above. I agree to all of the terms of the "Liability and Responsibility Clause" which is a part of this contract. I realize that meals ARE NOT included in the exhibit fee.

Authorized by: _____ Company: _____
Print Print

Signature: _____ Date: _____

METHOD OF PAYMENT

Check (payable to MWEA) Amount: \$ _____ Check #: _____

Charge my: Visa MasterCard American Express Amount: \$ _____

Credit Card Number: _____

Expiration Date: _____

Credit Card Billing Address: _____

Daytime Phone: _____

Signature: _____

STANDARD BOOTH EQUIPMENT

- 8' x 10' Exhibit Booth space
- Exhibit booth draping with 8' high backs and 3' high sides
- One covered and skirted 2' x 6' display table
- Two chairs and One waste basket
- ** Electrical Outlet – only if you selected YES and paid the additional fee

For details on modifications to the Standard Booth Equipment, go to the conference page on the MWEA Website.

SETUP TIMES & EXHIBIT HOURS

Setup Times: Monday, June 23 from 9am – 4pm <or> Monday, June 23 from 2pm – 4pm.

You will be notified of your setup time.

Exhibit Time: Monday, June 23 from 5pm – 9pm



You can register and pay online at www.mi-wea.org or send your contract and payment to:

**MWEA
PO Box 397
Bath, MI 48808**

For more information:
Phone 517-641-7377
Fax 517-641-7388
mwea@mi-wea.org

**Meals are NOT INCLUDED
in the exhibit fee.**

Exhibits Night Theme Michigan Outdoors

Monday, June 23, 2014
5:00 pm to 9:00 pm



Are you an avid hunter or fisherman or simply enjoy hiking in the woods and camping in Michigan's finest campgrounds? Be proud of the state you live in by dressing up and decorating your booth in your favorite Michigan Outdoors theme. Best booth wins \$100 towards next year's exhibit cost.



From DETROIT, MI

Take I-75 North (230 miles)
 At Gaylord turn off onto 32 West (12 miles)
 Turn right onto 131 North
 Travel North 7 miles turn left onto Boyne Mountain Rd.
 End at One Boyne Mountain Road

From GRAND RAPIDS, MI

Take US131 North (170 miles)
 Turn left onto Boyne Mountain Road
 End of One Boyne Mountain Road

From LANSING, MI

Take US127 North (140 miles)
 Merge onto I-75 North (32 miles)
 At Gaylord turn off onto 32 West (12 miles)
 Turn right onto 131 North
 Travel North 7 miles turn left onto Boyne Mountain Rd.
 End at One Boyne Mountain Road

From TRAVERSE CITY, MI

Travel West on M-72 (17.1 mi)
 Turn LEFT (North) on US-131 (34.6 mi)
 Turn Left on Boyne Mountain Rd. (7 miles North of M-32)
 End at One Boyne Mountain Road



Boyne USA, Inc.
 P.O. Box 19, Boyne Falls, MI 49713
 Fax: (231) 549-6844
 Phone: 1-800-GO-BOYNE



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 PO Box 397, Bath, MI 48808
 Phone: 517-641-7377
 Fax: 517-641-7388
 E-mail: mwea@mi-wea.org

