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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.

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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
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 repellant 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

- **8:00am - 11:45am**  
  **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 - 6:00pm**  
  **Dinner**  
  Civic Center

- **8:30pm**  
  **Michigan Outdoors**  
  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

- **7:00am**  
  **Committee Chair Breakfast**  
  Vienna B, Grand Mountain Lodge

- **7:30am - 3:00pm**  
  **Conference Registration**  
  Civic Center-West Lobby

- **8:00am - 11:45am**  
  **Session #3**  
  Arlberg 1 & 3, lower level Civic Center

- **8:00am - 11:45am**  
  **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

- **12:00pm - 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

- **5:00pm - 6:00pm**  
  **5S Induction**  
  Matterhorn, Civic Center

- **5:30pm - 7:00pm**  
  **Reception**  
  Matterhorn, Civic Center

- **7:00pm - 10:00pm**  
  **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**  
  **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.
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.

Invited 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

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:30</td>
<td><strong>President’s Welcome</strong></td>
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<tr>
<td></td>
<td>Christine Kosmowski, MWEA President</td>
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<tr>
<td>8:35</td>
<td><strong>WEF Address</strong></td>
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<td></td>
<td>Paul Bowen, Special Guest Speaker</td>
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<tr>
<td>9:00</td>
<td><strong>Tips and Training for Effective Interaction with Legislators and their Staff</strong></td>
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<td>Tim Williams (WEF), Special Guest Speaker</td>
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<tr>
<td>9:45</td>
<td><strong>BREAK</strong></td>
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<tr>
<td>10:00</td>
<td><strong>Building Momentum for Global WASH Change</strong></td>
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<td></td>
<td>Ned Breslin, Water for People, Special Guest Speaker</td>
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<tr>
<td>10:45</td>
<td><strong>Michigan’s Blue Economy</strong></td>
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<td>John Austin, Keynote Speaker</td>
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<tr>
<td>11:30</td>
<td><strong>Annual Business Meeting and Election of Officers</strong></td>
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#### Session 1 - Collections

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

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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>1:00</td>
<td><strong>GFIA Stormwater / Deicing Runoff Management Program</strong></td>
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<td></td>
<td>John Stroo, Senior Project Manager, Prein&amp;Newhof</td>
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<tr>
<td>1:30</td>
<td><strong>Urban Watershed Monitoring – One Decade after Management Plan Implementation</strong></td>
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<td></td>
<td>Brian Boyer, Env. Eng. Manager, Kieser &amp; Associates, LLC</td>
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<tr>
<td>2:00</td>
<td><strong>Maturing Green Infrastructure Programs</strong></td>
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<td>Carol Hufnagel, P.E., Vice President, Tetra Tech</td>
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<td>2:30</td>
<td><strong>The Brent Run Landfill Story: Documentation, Design and Funding</strong></td>
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<td></td>
<td>Stu Kogge, PWS, Sr. Wetland/Aquatic Biologist, Cardno JFNew</td>
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### Tuesday, June 24

#### Session 3 - Energy Management

<table>
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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:30</td>
<td><strong>Innovative Energy Savings at the City of Grand Rapids Wastewater Treatment Plant</strong></td>
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<td>Michael Lunn, Environmental Services Manager, City of Grand Rapids, MI</td>
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<tr>
<td>9:00</td>
<td><strong>Optimizing Digester Gas Usage at the Benton Harbor-St. Joseph, Michigan Joint Wastewater Treatment Plant</strong></td>
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<td>Robert Kulchawik, Senior Associate, AECOM</td>
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<tr>
<td>9:30</td>
<td><strong>What Can Solids Do For You? – Shifting Towards Solids as an Energy Source</strong></td>
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<td>Eric Auerbach, Engineer, ARCADIS</td>
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<td>10:00</td>
<td><strong>BREAK</strong></td>
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<tr>
<td>10:15</td>
<td><strong>Change Order Reduction Through 3D Modeling and BIM</strong></td>
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<td>Brian Hannon, P.E., Project Engineer, Moore &amp; Bruggink</td>
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<td>10:45</td>
<td><strong>How to Maximize the Value of Polymers in Wastewater Treatment Processes</strong></td>
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<td>Yong Kim, Technical Director, Wallace &amp; Tiernan ChemFeed, Inc.</td>
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<td>11:15</td>
<td><strong>Reorganizing for Success First Steps at DWSD</strong></td>
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<td>Wendy Barrott, General Manager, Detroit Water and Sewage</td>
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<tr>
<td>11:45</td>
<td><strong>Awards Luncheon (starts at noon)</strong></td>
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<td>Matterhorn, Civic Center</td>
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#### Session 4 - Asset and Utilities Management

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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:30</td>
<td><strong>Quality Assurance for Closed Circuit Television Inspection</strong></td>
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<td></td>
<td>Harry Price, P.E., Senior Principal Engineer, NTH Consultants, Ltd.</td>
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<tr>
<td>9:00</td>
<td><strong>Stormwater Asset Management in Grand Rapids, MI</strong></td>
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<td>Dan Christian, Senior Project Manager, Tetra Tech</td>
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<tr>
<td>9:30</td>
<td><strong>Innovative Methods to Assess Sewer Pipe Risk and Improve Replacement Planning Decisions</strong></td>
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<td>Celine Hyer, Manager, ARCADIS</td>
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<tr>
<td>10:00</td>
<td><strong>BREAK</strong></td>
</tr>
<tr>
<td>10:15</td>
<td><strong>Rehabilitation of Large Diameter Steel Force Mains with a Structural Epoxy Lining System</strong></td>
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<tr>
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<td>Mike Hersheelman, Engineer, ARCADIS</td>
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<tr>
<td>10:45</td>
<td><strong>Asset Management Development and &quot;Gap&quot; Analysis</strong></td>
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<td>Katie Erickson, Lab Technician II, City of Wyoming</td>
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<tr>
<td>11:15</td>
<td><strong>How in the World Do We Get it Done: Managing the Human Physical Assets</strong></td>
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<td>Gary Vaughan, Consultant, Greeley and Hansen</td>
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<tr>
<td>11:45</td>
<td><strong>Awards Luncheon (starts at noon)</strong></td>
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<td></td>
<td>Matterhorn, Civic Center</td>
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</tbody>
</table>
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
      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)
Michigan’s Water Quality Event | MWEA 89th Annual Conference

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

☐ Award Winner  ☐ Life Member  ☐ Exhibitor  ☐ Speaker

☐ Moderator  ☐ Committee Chair  ☐ Retiree  ☐ Sponsor

☐ Local Section Chair  ☐ Past President  ☐ Student  ☐ Board of Directors

☐ Executive Committee  ☐ 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)

☐ $285  ☐ $360  ☐ $50  ☐ $175  See Below

Late Registration (Payment postmarked after 5/16/14)

☐ $340  ☐ $415  ☐ $50  ☐ $205  See Below

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

☐ 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 ________________________________________________________

Total Amount Due $_________

*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.

<table>
<thead>
<tr>
<th>Accommodations</th>
<th>Single</th>
<th>Double</th>
<th>Indicate 1st &amp; 2nd Choice</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clock Tower Deluxe</td>
<td>$202.98</td>
<td>$146.14</td>
<td></td>
</tr>
<tr>
<td>Boynehoff Suites</td>
<td>$232.59</td>
<td>$160.94</td>
<td></td>
</tr>
<tr>
<td>Mountain Grand Lodge - Parlor</td>
<td>$271.67</td>
<td>$160.48</td>
<td></td>
</tr>
<tr>
<td>Mountain Grand Lodge - Queen</td>
<td>$271.67</td>
<td>$160.48</td>
<td></td>
</tr>
<tr>
<td>Mountain Grand Lodge - King</td>
<td>$271.67</td>
<td>$160.48</td>
<td></td>
</tr>
<tr>
<td>Mountain Grand Lodge - One Bedroom</td>
<td>$371.14</td>
<td>$230.22</td>
<td></td>
</tr>
</tbody>
</table>

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), and electric fireplace. 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.
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.

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. This represents a contract between the Michigan Water Environment Association and the following company:

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

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.
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.

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

Company: ____________________________ Title: ____________________________
Mailing Name: _________________________ Contact: _________________________
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 _____ (number of booths) paid in full through May 17, 2014
$670 x _____ (number 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 _____ (number of booths) paid in full through May 17, 2014
$570 x _____ (number 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)
Name: ____________________________ ($30) Name: ____________________________ ($30)
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: _______________________________________

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

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 at 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