94TH ANNUAL CONFERENCE

JUNE 23-26, 2019

Boyne Mountain Resort
Boyne Falls, MI
Conference Coordination

George Davis and Kathryn Yusko
Conference Coordination

Mike Harvey, Mark Fowler, and Rachel Estis
Awards

Allison Wood
Exhibits, Sponsors

Jennifer Wagner
Technical Program

Joe Moore
Golf

Michelle LaRose
Time and Place

2018-2019 Board of Directors

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President

Jennifer Wagner
President-Elect

Michelle LaRose
Vice President

Cheryl Vosburg
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Mike Harvey
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Mark Fowler
Association Director

George Davis
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Todd Wibright
Federation Delegate

Pete Cavagnaro
Federation Delegate

ANNUAL BUSINESS MEETING

Business Meeting/Election of Officers is on Monday, June 24, at 8:30am preceding the opening session.

Everyone is welcome to attend.

2019-2020 BOARD NOMINATIONS

Jennifer Wagner
President

Michelle LaRose
President-Elect

Joel Davenport
Vice President

Brian Hannon
Treasurer

Heather Cheslek
Association Director

A FREE Conference App will be available to all attendees. It will include the conference schedule, technical sessions, exhibit night map, and more! Download information coming in June.
On behalf of the Michigan Water Environment Association and Boyne Mountain, it is my pleasure to welcome you to the 94th Annual MWEA Conference. As always, we have a great week planned for you at Boyne. The Conference Committee, under the leadership of our President-Elect Jennifer Wagner, has worked diligently over the past year to assemble a world-class event, where you can enjoy the best leadership discussions, technical programs, and socializing and networking opportunities of the year.

The 2019 Annual Conference will begin on Sunday, June 23 and conclude on Wednesday, June 26. Our Time and Place Committee has chosen Boyne Mountain Resort in beautiful Boyne Falls, MI, for our conference location this year because it offers all the amenities needed to accommodate a large conference, while at the same time offering great options for family time. The Sunday night reception and dinner will be held at the Mountain Grand Lodge (MGL), on the lawn between the Civic Center and the MGL, and is a great opportunity to socialize with other attendees the night before the conference formally kicks off. You and your family have many opportunities here to explore Boyne Mountain and enjoy our great state of Michigan through ziplining, horseback riding, bike riding, swimming, campfires, canoeing, and spectacular golf. They also offer an amazing water park, fabulous restaurants, and an award-winning spa.

Over the past year, the MWEA Board of Directors has worked to develop and carry out goals in support of our strategic plan and mission: to be the recognized authority on and advocate for water resources in Michigan. This 94th conference has been organized for our members as a mission to provide bold leadership, champion innovation, connect water professionals, and leverage knowledge to support clean and safe water for all who live, work, and play in Michigan. It truly is Michigan’s Water Quality Event of the year!

Our opening session will include a presentation by Water Environment Federation (WEF) President Tom Kunetz. Tom is the assistant director of monitoring and research for the Metropolitan Water Reclamation District of Greater Chicago. He has over 30 years of experience in the field of environmental engineering in both the public and private sectors, focusing on design of water resource recovery facilities, improving the water environment, and protecting public health. Also, on Monday’s agenda is a presentation by Danielle Eubank, an artist who is on a mission to capture all the world’s oceans, as well as a presentation on the new PUMP Award by Pete Cavagnaro and Brian Hannon, and an MDEQ Update by the new Director, Liesl Clark. To learn more about Danielle Eubank’s mission and view her work, visit [www.danielleeubank.com](http://www.danielleeubank.com). A description of the PUMP Award and the 2019 winners can be found at [www.mi-wea.org/wrrf_grant.php](http://www.mi-wea.org/wrrf_grant.php).

The remaining sessions of the technical program are all top notch. We will have experts speaking about watershed management, collection systems, utility optimization, asset management, operations, and stormwater, as well as process and design.

In addition to the technical program, there will be opportunities for socializing and networking that our members have come to expect and appreciate. We will have a vendor reception and Exhibits Night with a Superhero Theme that will be lots of fun. The conference also offers opportunities for members to attend the Annual Golf Outing, Water For People canoe trip, wine/beer tasting, and Meet and Greet with guest speaker, Danielle Eubank. There will be award presentations commemorating the achievements of the many dedicated professionals in our industry, which will be held at two distinct celebrations on Tuesday (lunch for MWEA Awards and dinner for WEF Awards).

On Wednesday morning, we’ll have our popular ‘News from the Field’ update from Steve Aiken and we’ll hear a presentation from Dan Wolz Clean Water Education Grant recipient Holly Hereau from Thurston High School. We’ll also have an interesting presentation by Mike Compagnoni of Midwest Strategy Group on emerging policies and upcoming legislative efforts that will impact water quality in Michigan. Jessica Moy, Executive Director of the newly-formed Michigan Infrastructure Council, will wrap up the closing session with an update on their efforts.

There are many concurrent technical sessions and activities happening at this event, so we encourage you to review the conference program using the app and plan your schedule in advance so you get the most out of your time. I am convinced you will not leave this conference without finding ways to improve your efforts of protecting our waters.

As we approach our 94th Annual Conference, we need to take a moment to reflect on the impact that our members make in the lives of everyone in our great state of Michigan. Keeping our water resources safe, protecting public health and environment is a critical mission we all support. We have so much to be thankful for in this state, an abundant supply of fresh water — representing 95% of the entire fresh water supply in the United States!

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

Registration • All conference participants, including attendees, spouse/guests, speakers, exhibitors, and award recipients, are required to pre-register for the conference. Registration check-in will be on Sunday from 4:00pm - 5:30pm in the hotel lobby, 5:00pm - 7:00pm in the Welcome Reception tent, 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 or online at www.mi-wea.org/mwea2019ac.

Conference Fees • Full conference registration includes admission to all technical sessions, vendor exhibits, annual business meeting, most 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 in the MWEA room block, 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 in two ways. If you are an MWEA member, register at the discounted/early member rate by April 30, 2019. 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. In addition, the theme for Monday’s Exhibit Night is Superheroes. We encourage you to dress to celebrate the Superheroes theme. Do an internet search for creative ideas!

Hotel Accommodations • To receive the special rate, hotel reservations must be made directly with Boyne Mountain by May 23, 2019. 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 3:00pm. Check out time depends on the building you are staying in; see page 11.

Refunds/Cancellations • MWEA will refund your registration fee less a $50 processing fee per person for cancellations received in writing by June 1, 2019. 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 or credited).

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 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.

Odawa Casino
A free shuttle service to the Odawa Casino in nearby Petoskey is available. The casino features nearly 1,000 slot machines, table games, and a poker room, all for those ages 19 and over. With more than 50,000 square feet to welcome players of every skill level, you’ll be sure to feel the pure excitement and warm hospitality here.

The Alpine Golf Course
With its spectacular mountainside setting and panoramic views toward Deer Lake, its setting is every bit as breathtaking is its legendary design. From the elevated start to the finish at the 18th hole, The Alpine trends down the mountainside – presenting a diverse array of hazards and a layout that tests every aspect of your game. Host to the annual Tournament of Champions, The Alpine is the location of the Annual Conference Golf Scramble 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.
EVENTS

Welcome Reception
Sunday, June 23
Place: Mountain Grand Lodge
Time: 4:00pm - 7:00pm
Registration
6:00pm Reception
7:00pm Dinner and Entertainment

You will need to check in at the hotel to receive and/or purchase meal tickets BEFORE you come to the reception. The new location of the Welcome Reception will be behind the Mountain Grand Lodge on the lawn and patio.

GROUP/GUEST ACTIVITIES

MWEA Paddle With Purpose 2019
Sunday, June 23 | 11:45am - 5:30pm
Meet in Hotel Lobby

The 10th Annual MWEA Paddle With Purpose will take place on Sunday, June 23, 2019, as a part of the Annual Conference. Canoe rentals will again be provided by Jordan Valley Outfitters located at 311 N. Lake St. (M-66), East Jordan. We will be paddling the Jordan River from Graves Crossing Road to Rogers Road, a trip of about three hours.

PLEASE NOTE: the Jordan River is not recommended for beginner paddlers! The cost of the trip is $90 for a team of two paddlers ($60 for transportation and canoe rental and $30 for Water For People). If you prefer to rent a kayak, the cost for a solo is $55 and the cost for a two-person tandem is $100. You can also bring your own boat and donate $20 per person to WFP. Plan to return to Boyne Mountain by 5:30pm. The schedule for the Sunday event is to meet at the Boyne Mountain Grand Lodge main lobby at 11:45am. Transportation to and from the Jordan River is provided by Jordan Valley Outfitters.

You are encouraged to register by May 20 if you plan to join the Paddle With Purpose event. Later registrations will be considered but no guarantee of canoe availability can be made. To register, visit www.mi-wea.org/mwea2019ac and click on Paddle With Purpose. If weather interferes with our trip, refunds may not be available. The Paddle With Purpose event will raise funds for Water For People, a WEF charity of choice, whose mission is to promote the development of high quality drinking water and sanitation services, accessible to all, and sustained by strong communities, businesses, and governments. Thanks for your support!

Meet and Greet with Danielle Eubank
Monday, June 24 | 12:00pm – 1:00pm
Trophy Room Pub & Pizzeria

Meet One Artist Five Oceans expedition artist Danielle Eubank directly after her Opening Session presentation. Learn more about her work and expeditions to capture the world’s oceans.

Beer and Wine Tasting
Tuesday, June 25 | 4:00pm - 5:15pm
Graz Room, Lower Level of Mountain Grand Lodge

Join us as we have an expert guide you through samples of a Michigan beer and wine, sharing their knowledge and expertise. Come explore and taste all that Michigan has to offer. There is no charge for the tasting and light appetizers will be served. Raffle tickets can be purchased for a chance to win bottles of beer or wine.
## CONFERENCE AT A GLANCE

### Sunday, June 23

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
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<tbody>
<tr>
<td>11:00am</td>
<td>Golf Scramble (must pre-register)</td>
<td>Alpine Golf Course</td>
</tr>
<tr>
<td>11:45am - 5:30pm</td>
<td>Water For People Event: Paddle With Purpose Meet in Hotel Lobby</td>
<td>Mountain Grand Lodge Lobby</td>
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<tr>
<td>4:00pm - 5:30pm</td>
<td>Conference Registration</td>
<td>Mountain Grand Lodge Lobby</td>
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<tr>
<td>5:30pm - 7:00pm</td>
<td>Conference Registration</td>
<td>Mountain Grand Lodge Lobby</td>
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<tr>
<td>6:00pm - 7:00pm</td>
<td>Reception</td>
<td>Mountain Grand Lodge Lobby</td>
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<tr>
<td>7:00pm - 8:30pm</td>
<td>Dinner and Entertainment</td>
<td>Mountain Grand Lodge Lobby</td>
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<tr>
<td>8:00pm - 8:30pm</td>
<td>5-S Meeting and Introduction of Inductees Meeting Location is in Vienna B inside Mountain Grand Lodge</td>
<td>Mountain Grand Lodge Lobby</td>
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### Monday, June 24

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>6:30am - 8:30am</td>
<td>Breakfast Buffet</td>
<td>Mountain Grand Lodge Lobby</td>
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<tr>
<td>7:00am</td>
<td>5K Walk / Run</td>
<td>Mountain Grand Lodge Lobby</td>
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<tr>
<td>7:30am - 3:00pm</td>
<td>Conference Registration</td>
<td>Civic Center-West Lobby</td>
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<tr>
<td>8:00am - 9:00am</td>
<td>Business Meeting and Election of Officers</td>
<td>Civic Center-West Lobby</td>
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<tr>
<td>9:00am - 12:00pm</td>
<td>Opening Session</td>
<td>Civic Center-West Lobby</td>
</tr>
<tr>
<td>12:00pm - 1:00pm</td>
<td>Lunch Buffet</td>
<td>Mountain Grand Lodge Lobby</td>
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<tr>
<td>1:00pm - 3:00pm</td>
<td>Session 1A: Collection Systems</td>
<td>Lower Level Civic Center</td>
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<tr>
<td>1:00pm - 3:00pm</td>
<td>Session 1B: Stormwater</td>
<td>Lower Level Civic Center</td>
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<tr>
<td>1:00pm - 3:00pm</td>
<td>Session 1C: Hot Topics</td>
<td>Lower Level Civic Center</td>
</tr>
<tr>
<td>5:00pm - 8:30pm</td>
<td>Exhibits Open</td>
<td>Civic Center</td>
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<tr>
<td>6:00pm - 8:00pm</td>
<td>Dinner</td>
<td>Civic Center</td>
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<tr>
<td>8:30pm</td>
<td>Bonfire</td>
<td>Civic Center</td>
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### Tuesday, June 25

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<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>6:30am - 8:30am</td>
<td>Breakfast Buffet</td>
<td>Mountain Grand Lodge Lobby</td>
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<tr>
<td>7:30am - 3:00pm</td>
<td>Conference Registration</td>
<td>Civic Center-West Lobby</td>
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<tr>
<td>8:30am - 11:45am</td>
<td>Session 2A: Process</td>
<td>Lower Level Civic Center</td>
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<tr>
<td>8:30am - 11:45am</td>
<td>Session 2B: Watershed</td>
<td>Lower Level Civic Center</td>
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<tr>
<td>8:30am - 11:45am</td>
<td>Session 2C: Operations and Treatment</td>
<td>Lower Level Civic Center</td>
</tr>
<tr>
<td>12:00pm - 1:15pm</td>
<td>Awards Luncheon</td>
<td>Civic Center-West Lobby</td>
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<tr>
<td>1:30pm - 4:15pm</td>
<td>Session 3A: Utility Optimization</td>
<td>Lower Level Civic Center</td>
</tr>
<tr>
<td>1:30pm - 4:15pm</td>
<td>Session 3B: Treatment Considerations</td>
<td>Lower Level Civic Center</td>
</tr>
<tr>
<td>4:00pm - 5:15pm</td>
<td>Beer and Wine Tasting</td>
<td>Mountain Grand Lodge Lobby</td>
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<tr>
<td>6:00pm - 7:00pm</td>
<td>Cocktail Reception</td>
<td>Mountain Grand Lodge Lobby</td>
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<tr>
<td>6:30pm</td>
<td>5S Induction Ceremony</td>
<td>Mountain Grand Lodge Lobby</td>
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<tr>
<td>7:00pm - 9:00pm</td>
<td>Leadership Celebration Dinner</td>
<td>Mountain Grand Lodge Lobby</td>
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### Wednesday, June 26

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<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>6:30am - 8:30am</td>
<td>Breakfast Buffet</td>
<td>Mountain Grand Lodge Lobby</td>
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<tr>
<td>8:30am - 12:00pm</td>
<td>Closing Session</td>
<td>Civic Center-West Lobby</td>
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<tr>
<td>12:00pm</td>
<td>Lunch at the Restaurant of your Choice or pre-ordered TO GO Box Lunches</td>
<td>Mountain Grand Lodge Lobby</td>
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<tr>
<td>12:00pm - 2:00pm</td>
<td>Board Meeting</td>
<td>Mountain Grand Lodge Lobby</td>
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## EXHIBITS NIGHT THEME

**Monday, June 24, 2019**

5:00pm - 8:30pm | Civic Center

Dress as your favorite superhero or sidekick!
GUEST SPEAKERS

**Thomas E. Kunetz**

**Thomas E. Kunetz** is the 2018-2019 President of the Water Environment Federation (WEF), an international organization of water quality professionals headquartered in Alexandria, VA. Tom is the assistant director of monitoring and research for the Metropolitan Water Reclamation District of Greater Chicago, leading the district’s efforts on key strategic engineering initiatives. He has over 30 years of experience in the field of environmental engineering in both the public and private sectors, focusing on design of wastewater treatment facilities, improving the water environment, and protection of public health.

A WEF member since 1992, Tom is the past chair of the Municipal Wastewater Treatment Symposium, and he served on the Program Committee and the Municipal Water Resource Recovery Design Committee. He was a member of the Chicago WEFMAX organizing committee, and served on the Stockholm Junior Water Prize organizing committee with the Illinois Water Environment Association.

**Danielle Eubank**

Danielle Eubank’s 20-year work as an expedition artist, visiting the waters of every ocean on Earth, culminated with an expedition to Antarctica, which she completed in March 2019. This, the Southern Ocean, was Eubank’s fifth and final ocean to visit and caps her decades-long quest to paint every ocean on the planet, hence the name of her project: One Artist Five Oceans.

A Pollock-Krasner Foundation Grant awardee and a member of The Explorer’s Club, Eubank’s relationship with ocean water began as a young girl growing up near Bodega Bay, CA. In her travels as a young artist, she was captivated by bodies of water. She focused on painting their forms in their myriad conditions, refining her techniques of abstraction and realism until she was able to render their ephemeral qualities in her own style.

Her paintings of water led to an invitation to serve as the expedition artist aboard the Borobudur Ship, a replica 800 CE Indonesian vessel that rounded the Cape of Good Hope sailing from Indonesia to Ghana.

On her next expedition, Eubank sailed on a replica of a 2,500-year-old Phoenician ship that circumnavigated Africa. She sailed aboard a barquentine tall ship on an expedition to the High Arctic that took her to the northernmost human settlement on Earth.

In each of these journeys, the vessel she sailed on in the open sea inspired her to view the bodies of water in exciting new ways. Eubank is exploring the consequences of the human footprint on seascapes all over the world. The body of work simultaneously communicates the preciousness of water and the impact of humans on the environment.

**Liesl Eichler Clark**

*Liesl Eichler Clark* is Director of the Michigan Department of Environmental Quality. Director Clark was appointed by Governor Gretchen Whitmer effective January 1, 2019. Her previous position was co-founder and partner of 5 Lakes Energy, a policy consulting firm that serves businesses, policymakers, and other stakeholders seeking to advance the transition to a clean energy economy.

Director Clark has also served as president of the Michigan Energy Innovation Business Council and as deputy director for energy programs at the Michigan Department of Energy, Labor, & Economic Growth. Liesl was a critical catalyst for Michigan’s clean energy efforts, beginning in 2008, and the application of her work after leaving state government resulted in the formation of Michigan’s first trade association dedicated solely to the emerging clean energy industry in this state – the Michigan Energy Innovation Business Council (EIBC).

She held a series of roles involving natural resources, environmental, and agriculture policy in state government, from policy advisor in Governor Jennifer Granholm’s office to legislative liaison for the Michigan Department of Agriculture. Liesl completed a Master’s degree in Public Administration from Michigan State University while working fulltime, and holds a Bachelor of Arts degree in Political Economy from MSU’s James Madison College. She has completed the Great Lakes Leadership Academy and serves on the board of Advancing Women in Energy.
TECHNICAL PROGRAM AGENDA*

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. Professional Development Hours (PDHs) will also be given for Professional Engineers.

Monday, June 24

OPENING SESSION

Annual Meeting and Election of Officers

President’s Welcome
Greg Kacvinsky, OHM Advisors

WEF Address
Tom Kunetz, WEF President

WRFF Utility of the Future Update/PUMP Award
Pete Cavagnaro, Johnson Controls
Brian Hannon, Moore & Bruggink

MDEQ Update
Liesl Clark, Michigan Department of Environmental Quality

One Artist, Five Oceans:
A 20-Year Quest to Capture All the World’s Oceans
Danielle Eubank

SESSION 1A: COLLECTION SYSTEMS

Application of Real-Time Market-Based Control Algorithm
Decreases Combined Sewer Overflows in Portion of
Great Lakes Watershed
Wendy Barrott, Great Lakes Water Authority
Branko Kerkez, University of Michigan
Gregory Ewing, University of Michigan

Cost-Effective Control of Odors and Corrosion in Collection Systems
Allen Gelderloos, Jacobs
Joel Brown, Oakland County Water Resources Commissioner
Evans Bantios, Macomb County Public Works Office

Being a Beer Hero to Achieve Net Zero
Alexandria Burtt, Hubbell, Roth & Clark

In Lines Storage Solution
Brad Gurski, SCCMUA
Mark Prein, Prein & Newhof

SESSION 1B: STORMWATER

Creating a Comprehensive Green Infrastructure Maintenance
Program: Costs, Strategy, and Designs
Catie Wytychak Oakland County, Water Resources Commissioner

Clinton River Corridor Restoration
Prasad Gullapalli, Hubbell, Roth & Clark

Protecting Our Future through Stormwater Utility Fees
Nancy Russell, OHM Advisors
Erica Morgan, OHM Advisors

The Role of Green Infrastructure in Flood Mitigation
in the City of Detroit
Jamie Steve Thorsby, Healthy Urban Waters-Wayne State University

SESSION 1C: HOT TOPICS

Community Resiliency Planning Through a Watershed Lens
Nathan Campeau, Barr Engineering
John Looms, South Washington Watershed District

Addressing PFAS in a Municipal POTW from a Local, Watershed,
and State Perspective
Tim Sikma, City of Wixom
Karyn Stickel, Hubbell, Roth & Clark
Stephanie Kammer, Michigan Department of Environmental Quality

What It Takes to Innovate
Panel Discussion
Mike Lunn, City of Grand Rapids
Evangelina Belia, Primodal US, Inc.
Julian Sandino, Jacobs
Tom Kunetz, WEF President

Tuesday, June 25

SESSION 2A: PROCESS

ARTP: The Most Efficient and Reliable Secondary Treatment Plant
for Bio-P Removal in North America
Joe Georgan, GCCDWW
Joh Kang, Water & Energy Advisors, LLC

Integration of the First Phase of Process Improvements for the East
Lansing Water Resource Recovery Facility
Peter Daukks, Tetra Tech

Understanding Design Standards and Codes for Biogas Systems
Regina Hanson, Varec Biogas
Jim Groman, Varec Biogas

Change is in the Air: Wyoming Clean Water Plant Biofilter and Odor
Control Improvements
Joshua Redner, Fishbeck, Thompson, Carr & Huber

Using Metabolic and Physical Selectors to Densify Activated Sludge
Alyssa Mayer, Hazen and Sawyer

Claritying Settling Tank Capacity: 2D and 3D CFD Applications for
Primary and Secondary Clarifiers
William Martin, Hazen and Sawyer

*Program subject to change
SESSION 2B: WATERSHED

Tools and Projects for Reducing Nutrient Loading in the Western Lake Erie Basin
Ruth Kline-Robach, Michigan State University

Five Mile Creek Restoration (Following a Dam Failure)
Stu Kogge, GEI Consultants

Doing More than the MS4!
Prasad Gullapalli, Hubbell, Roth & Clark
Sandra Diorka, Delhi Charter Township

Developing a Stormwater Control Measure Sizing Credit for the Infiltration Improvements Attributable to Plants
Scott Dierks, GEI Consultants, Inc.

Phytoremediation: One Tree at a Time
Michelle Post, Environmental Consulting & Technology, Inc.
Tonya Lewandowski, Environmental Consulting & Technology, Inc.

Biosolids and Air Deposition as Sources of PFAS Groundwater Contamination
Adam Janzen, Barr Engineering Company

SESSION 2C: OPERATIONS AND TREATMENT

Critical Mass: Operating at Less Than Firm Capacity and Pushing Processes to Their Limit
Jared Buzo, Oakland County Water Resources Commissioner
Michael Daniels, Oakland County Water Resources Commissioner

Primary Clarifier Rehabilitation: A Case Study
Christine Isaguirre, Donohue & Associates

Reducing the Costs for WWTP Digester Clean-Outs
Jesus Rodriguez, JWC Environmental

Utility of the Future: The Continued Journey at St. Cloud, MN
Nathan Cassity, Donohue & Associates

Effluent Data and NPDES Permit Limit Development
Matt Staron, Michigan Department of Environmental Quality

We Made a Cake ... Now What?
Daniel Miller, Jones and Henry Engineers

SESSION 3A: UTILITY OPTIMIZATION

Getting the Best ROI From Your GIS
Jim Miller, Hubbell, Roth & Clark

Grand Rapids: Update on Projects and Accomplishments
Michael Lunn, City of Grand Rapids WRRF

Sustainable? What Can My Data Tell Me?
Tim Kruse, Eramosa

Impact of Efficient Polymer Activation on Improving Sludge Thickening and Dewatering
Yong Kim, UGSI Solutions, Inc.

Application of Process Modeling and Detailed Wastewater Characterization to Identify WRRF Optimization Opportunities.
Glen Daigger, University of Michigan
Cheng Yang, University of Michigan
Wendy Barrott, Great Lakes Water Authority

SESSION 3B: TREATMENT CONSIDERATIONS

Progressive Design-Build Utilizing SRF Funding City of Hudson-Wastewater System Improvements
David Harvey, Fleis & VandenBrink

Trust, But Verify: Performance of Online TSS Probes During Abnormal Plant Operation
Emily Miner, City of Grand Rapids WRRF
Evangelina Belia, Primonial US Inc.

Flow Capacity vs. Treatment Capacity: Changing One Without the Other?
Ben Whitehead, Black & Veatch

Biosolids Facility Planning: One Approach, Three Communities
Christine Isaguirre, Donohue & Associates

Low Energy Microbiomes for Nitrogen Removal: Rethinking Nitrification and Denitrification
Leon Downing, Black & Veatch

Wednesday, June 26

CLOSING SESSION

Incoming President’s Welcome and Address
Jennifer Wagner, Hamlett Environmental Technologies

News from the Field
Steve Aiken, Duperon

Dan Wolz, Science Teacher Grant Winner
Holly Hereau, Thurston High School

Water and Policy in Michigan
Mike Compagnoni and Dusty Fancher, Midwest Strategy Group

MIC Update
Jessica Moy, Michigan Infrastructure Council
CONFERENCE REGISTRATION FORM

Name ________________________________

Company/Employer ____________________________

Address ____________________________________________

City __________________ State __________ Zip _____________

Phone __________________ WEF/MWEA Membership No. ____________

Email ______________________________ _____________

Special Requirements ____________________________

Please print name(s) as you would like it to appear on the name badge(s):

Yourself ______________________ Spouse/Guest ____________________

Spouse/Guest Email ________________________________

Children’s names and ages ____________________________________________

☐ This is the first MWEA Annual Conference I have attended
☐ I am interested in volunteering/helping on-site at Annual Conference (MWEA will contact you with available opportunities)

Attending the Awards Luncheon on Tuesday, June 25
☐ Yes, staying at Boyne and plan to attend
☐ Yes, but I’m not staying at Boyne and will buy a meal ticket
☐ No, I cannot attend the luncheon

Attending the Leadership Celebration Dinner on Tuesday, June 25
☐ Yes, staying at Boyne and plan to attend
☐ Yes, but I’m not staying at Boyne and will buy a meal ticket
☐ No, I cannot attend the dinner

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

<table>
<thead>
<tr>
<th>Full Conference</th>
<th>Member</th>
<th>Non-Member</th>
<th>Student/Retiree</th>
</tr>
</thead>
<tbody>
<tr>
<td>Early Registration on or before 4/30/19</td>
<td>$335</td>
<td>$410</td>
<td>$100</td>
</tr>
<tr>
<td>Regular Registration on or before 6/14/19</td>
<td>$390</td>
<td>$465</td>
<td>$100</td>
</tr>
<tr>
<td>Late or Onsite Registration after 6/14/19</td>
<td>$445</td>
<td>$520</td>
<td>$100</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>One Day Only</th>
<th>Member</th>
<th>Which day do you plan to attend?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Early Registration on or before 4/30/19</td>
<td>$225</td>
<td>Monday</td>
</tr>
<tr>
<td>Late or Onsite Registration after 6/14/19</td>
<td>$255</td>
<td>Tuesday</td>
</tr>
</tbody>
</table>

Speaker Rates:
Speakers receive a discount on attending the conference. See below for rates:
☐ Speaking Day Only ($0)    ☐ Additional Day ($145)    ☐ Full Conference ($255)

Which additional day do you plan to attend? ____________________________

By registering for the MWEA Annual Conference, I (the attendee) attest that I am aware of the common dangers of travel and participating in the meeting/events and will assume all liability for my participation in Annual Conference.

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 ________________________________
BOYNE MOUNTAIN REGISTRATION FORM

Group Name: Michigan Water Environment Association
Dates: June 23-26, 2019

Reservations must be made utilizing this form and be received by May 23, 2019. Reservation requests received after this date will be taken on a space-available basis at current room rates. When making travel arrangements, please note the check-in and check-out times are on the right side of this page with the room descriptions. Check-in and check-out takes place at the Mountain Grand Lodge Front Desk for all room types.

Accommodations: Please indicate your first and second 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>Room Type</th>
<th>Single</th>
<th>Double</th>
<th>Indicate 1st &amp; 2nd Choice</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clock Tower Lodge - King</td>
<td>$228.00</td>
<td>$165.00</td>
<td></td>
</tr>
<tr>
<td>Boynehoff Suites</td>
<td>$228.00</td>
<td>$165.00</td>
<td></td>
</tr>
<tr>
<td>Mountain Grand Lodge - Parlor</td>
<td>$291.00</td>
<td>$196.00</td>
<td></td>
</tr>
<tr>
<td>Mountain Grand Lodge - Queen</td>
<td>$291.00</td>
<td>$196.00</td>
<td></td>
</tr>
<tr>
<td>Mountain Grand Lodge - King</td>
<td>$291.00</td>
<td>$196.00</td>
<td></td>
</tr>
<tr>
<td>Mountain Grand Lodge - Suite</td>
<td>$388.00</td>
<td>$244.00</td>
<td></td>
</tr>
<tr>
<td>Mountain Grand Lodge - 2 Bedroom Suite*</td>
<td>$448.00</td>
<td>$275.00</td>
<td></td>
</tr>
<tr>
<td>Disciples Ridge - 2 Bedroom*</td>
<td>$388.00</td>
<td>$244.00</td>
<td></td>
</tr>
<tr>
<td>Mountain Villa - 1 Bedroom*</td>
<td>$291.00</td>
<td>$196.00</td>
<td></td>
</tr>
<tr>
<td>Mountain Villa - 2 Bedroom*</td>
<td>$388.00</td>
<td>$244.00</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).

* The package rates are based on a minimum occupancy of two people in hotel rooms or two people per bedroom in suites or condos. Additional occupants over the above possible occupancies listed will add a charge of $113.00 per person to the package rate.

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 $ ___________________________

☐ American Express ☐ VISA ☐ MasterCard ☐ Discover

Credit Card # ___________________________ Expiration Date ___________________________

Signature ___________________________ Security Code ___________________________

All reservations must be guaranteed by check or credit card deposit. Credit card imprint is required at check-in for all guests.
MWEA ANNUAL CONFERENCE GOLF EVENT

Sunday, June 23, 2019
Golf Scramble, $115 per person

Sunday Golf Outing
This year’s MWEA Annual Golf Outing will take place on Sunday, June 23, with a shotgun start at 11:00am on The Alpine 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 $115 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 10:00am. 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.

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

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 and fax or mail it in.

Sunday Golf Scramble Registration
Please register the following person(s) for the ‘Sunday Golf’ event. $115 per person is due at the time of registration.

1. _______________________________________ email:_____________________________
2. _______________________________________ email:_____________________________
3. _______________________________________ email:_____________________________
4. _______________________________________ email:_____________________________

☐ If you would like to sponsor a hole, please check this box ($150/hole)
I understand the event is a scramble format beginning at 11:00am and we are required to check in by 10:00am.

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

☐ Check (enclosed) ☐ Visa ☐ MasterCard ☐ American Express

Credit Card Number: _____________________________ Expiration Date: ___________

Name as it appears on the credit card: __________________________________________
Billing Address: _____________________________________________________________
Signature: __________________________________________________________________

Beverage Cart Sponsor
GEA Mechanical Equipment
CONFEREE SPONSOR FORM

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.

<table>
<thead>
<tr>
<th>MWEA ANNUAL CONFERENCE SPONSORSHIP OPPORTUNITIES</th>
<th>GREAT LAKES*</th>
<th>SUPERIOR</th>
<th>MICHIGAN</th>
<th>HURON</th>
<th>ERIE</th>
<th>ONTARIO</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019 Annual Conference Attendify App Sponsor</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>6</td>
<td>5</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Name/Logo printed in the Daily Program Guide</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<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>Number of Points earned towards Joint Expo</td>
<td>4</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>ONE Complimentary Full Conference Attendee Registration</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>ONE Complimentary Awards Banquet Ticket</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Name/Logo on Conference Brochure – available until March 31</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Name/Logo on Conference Journal – available until March 31</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Name/Logo on the homepage of the MWEA Website</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Signage and Verbal Recognition at Awards Luncheon/Banquet</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>One golf hole sponsorship for Sunday’s Conference Golf Outing</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

Please Note:
- Size of Name/Logo increases with level of sponsorship
- Conference Brochure is mailed to over 2,000 people
- Conference Journal is given to all conference attendees, speakers and vendors
- Further explanation on Joint Expo Points can be found at www.mi-water.org/?page=jepoints

Sponsorship Level:
- Great Lakes
- Superior
- Michigan
- Huron
- Erie
- Ontario

ADD-ON options to any of the above levels:
- $150 - Golf Scramble Hole Sponsor (Sunday)
- $200 - Bonfire Sponsor (Monday evening) – 3 available
- $200 - Beer/Wine Tasting Event Sponsor (Tuesday) – 6 available
- $400 - Snack/Beverage Table Sponsor (during Technical Session Breaks) – 1 available

*Only 1 (one) Great Lakes Sponsorship Available

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

Company: 

Contact Name: 

Address: 

Phone Number: Fax: E-Mail: 

Credit Card Number: Visa MasterCard American Express 

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.
ANNUAL CONFERENCE EXHIBITOR CONTRACT

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: __________________________

What’s Included
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 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.

Exhibit Registration
Cost to Exhibit in Main area within Civic Center (see map at www.mi-wea.org)

$610 x ______ (# of booths) paid in full before May 10, 2019

$710 x ______ (# of booths) paid in full after May 10, 2019

Additional Charges
Number of Additional Exhibitors at your booth ______@ $30 each (list their names below)

Electric in booth (circle): ______ $10 for 110-volt

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:

<table>
<thead>
<tr>
<th>Name</th>
<th>(free)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Print</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name</th>
<th>($30)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Print</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name</th>
<th>($30)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Print</td>
<td></td>
</tr>
</tbody>
</table>


Meals are NOT INCLUDED in the exhibit fee.

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: 296422
Advance order deadline is Tuesday, June 11, 2019, 5:00pm

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 24
5:00pm - 8:30pm

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.

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.
Total Amount Due
- Total Due For Exhibit Booth(s) $____________________
- Total Due For Extra Exhibitors $____________________
- Total Due For Electric $____________________
Grand Total Due For Booth(s), Extra Exhibitors and Electric $____________________

Agreement
I hereby contract to participate in the 2019 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: ____________________________

Liability and Responsibility
In signing the Exhibitor’s Contract, the Exhibitor agrees to assume total responsibility and liability for losses, damages, and claims arising out of injury or damage to exhibitor’s displays, equipment, and other property brought upon the premises of the exhibit site; and shall indemnify and hold harmless the MWEA and the conference site host facility and the agents, servants, and employees of each organization, for any and all such losses, damages, and claims.
MWEA abides by all the music licensing organizations’ (ASCAP, BMI, etc.) requirements. You are responsible for securing the appropriate license(s), for any and all music played at your booth during the vendor show.

Signature: ____________________________

Setup Times & Exhibit Hours
Setup Times: You will be notified of your setup time.
Booth Exhibit Time: Monday, June 23 from 5pm - 8:30pm

Exhibit Theme - Superheroes
Each year a theme is chosen for Exhibit Night. This year’s theme is Superheroes. Decorate your booth and dress as your favorite hero or sidekick! Attendees will be asked to vote for the booth that best illustrates the theme. The winning booth will receive $100 off the price of their booth for the 2020 MWEA Annual Conference.

Additional Information
The Exhibit Fee includes standard booth equipment (see page 1 of exhibitor contract). It DOES NOT include general conference, lodging or meal on exhibit night. If you are staying overnight at Boyne Mountain, your room reservation includes meal tickets and you will receive them 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.
All contact persons will receive Annual Conference attendee names and mailing addresses only. These will be sent via email post-event.

Hotel Reservations are handled by Boyne Mountain. The Hotel Reservation Form should be faxed directly to Boyne Mountain for processing. The Hotel Reservation form will be available on MWEA website in January.
To participate in the golf outing or to attend the conference, a separate Golf or Conference Registration Form must be filled out (appropriate fees apply). Conference and Golf Registration will be available in March on the MWEA website at www.mi-wea.org.

Exhibits Night Theme
Monday, June 24, 2019
5:00pm - 8:30pm | Civic Center
Dress as your favorite superhero or sidekick!

Decorate Your Booth
Winning booth will receive $100 off exhibit price at the 2020 MWEA Annual Conference.
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

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