

Welcome to the  
**87th Annual Meeting**  
of the Central States Water Environment Association  
Illinois | Minnesota | Wisconsin

**WATER – OUR PASSION**

**May 12-15, 2014 | Crowne Plaza, St. Paul, MN**

**NEW!  
UTILITY  
PRICING**



**PROGRAM &  
REGISTRATION  
INFORMATION**



## Conference at a Glance

<b>Monday, May 12</b>		
7:30 - 11:00	Executive Committee Meeting	Crowne Plaza Riverfront, State Suites (lower level)
8:00 - 4:00	Preconference Safety Workshop	Harriet Island (Clarence Wigington) Pavilion
11:00 - 5:00	Golf Outing	Oak Marsh Golf Course, Oakdale, MN
1:00 - 5:00	YP Leadership Academy	Crowne Plaza Riverfront, State Suites (lower level)
6:00 - 9:00	Meet & Greet	Crowne Plaza Riverfront, Windows on the River (22nd floor)
<b>Tuesday, May 13</b>		
6:30 - 8:15	5k Run/Walk	Lobby, Crowne Plaza Riverfront
9:00 - 9:10	General Opening Session	Great River Ballroom (second floor)
9:10 - 10:00	Keynote Address	Great River Ballroom (second floor)
10:15 - 11:45	Technical Sessions	State Suites & Governor's Suites (lower level)
10:00 - 6:00	Exhibits Open	Minnesota Grand Ballroom (lower level)
12:00 - 1:00	Exhibitor Luncheon	Minnesota Grand Ballroom (lower level)
1:30 - 3:00	Technical Sessions	State Suites & Governor's Suites (lower level)
3:00 - 3:30	Afternoon Break	Minnesota Grand Ballroom (lower level)
3:00 - 3:30	Poster Session I	Lower Level Registration & Exhibit Hall Area
3:30 - 4:30	Technical Sessions	State Suites & Governor's Suites (lower level)
4:30 - 6:00	Exhibitor Reception	Minnesota Grand Ballroom (lower level)
5:00 - 5:30	7S Meeting	State Suites (lower level)
5:30 - 6:00	Golden Manhole Society	Governor's Suites (lower level)
5:30 - 6:00	YP Meeting	Governor's Suites (lower level)
7:30 - 12:00	Social Gathering	Great Waters Brewing Co. (5 blocks from hotel)
<b>Wednesday, May 14</b>		
7:30 - 9:00	State Section Breakfasts	Kellogg Suites 1, 2, & 3 (ground floor)
9:00 - 3:30	Exhibits Open	Minnesota Grand Ballroom (lower level)
9:00 - 11:30	Technical Sessions	State Suites & Governor's Suites (lower level)
9:30 - 10:00	Student Paper & Design Competition	State Suites & Governor's Suites (lower level)
10:00 - 10:30	Morning Break	State Suites & Governor's Suites (lower level)
10:00 - 10:30	Poster Session II	Lower Level Registration & Exhibit Hall Area
12:00	Silent Auction Bids Due	Registration / Exhibit Hall Area
12:00 - 1:30	Association Luncheon	Great River Ballroom (second floor)
1:45 - 2:45	Technical Sessions	State Suites & Governor's Suites (lower level)
2:45 - 3:00	Afternoon Break	State Suites & Governor's Suites (lower level)
2:45	Silent Auction Bids Posted	Minnesota Grand Ballroom (lower level)
3:00 - 4:00	Technical Sessions	State Suites & Governor's Suites (lower level)
4:15 - 5:00	Annual Business Meeting	State Suites (lower level)
6:00 - 6:30	Social Reception	Garden Court East (outside the Great River Ballroom)
6:30 - 8:00	Banquet and Awards	Great River Ballroom (second floor)
8:00 - 10:00	Social with Live Music	Great River Ballroom (second floor)
<b>Thursday, May 15</b>		
7:00 - 9:00	Farewell Breakfast	Kellogg Suites 1&2 (ground floor)
9:30 - 12:00	MCES Metro Plant Tour	MCES Metro Plant, St. Paul, MN
9:00 - 12:00	Executive Committee Meeting	Kellogg Suite 3 (ground floor)
<b>Registration Hours</b>		
3:00 - 6:00	Registration - Monday, May 12	Lower Level
8:00 - 5:00	Registration - Tuesday, May 13	Lower Level
8:00 - 5:00	Registration - Wednesday, May 14	Lower Level





# WELCOME TO THE 87TH ANNUAL MEETING OF CSWEA WATER – OUR PASSION

**Welcome** to the 87th Annual Meeting of the Central States Water Environment Association! Our theme, *Water – Our Passion*, builds on WEF’s Water’s Worth It campaign and new strategic direction. Have you taken the Water’s Worth It pledge? If not, I encourage you to go to: <http://www.waters-worth-it.org/water-needs-you/>

Our keynote speaker, Dr. Bruce Miles, owner and CEO of the Big River Group, LLC, will incorporate his experience with leadership and organization training and consulting into our conference theme *Water – Our Passion*. We will end our conference with a farewell breakfast that celebrates our members with a slideshow of photos from past annual meetings and this one – and a casual time to share what we have learned with each other – and carry this knowledge forward to others. Those yearning for a more technical meeting start and ending: join us Monday at 8:00 a.m. for a workshop focusing on safety – and on Thursday at 9:30 a.m., join the tour of the nearby Metropolitan Council Environmental Services Metropolitan Plant.

This year’s conference is at the Crowne Plaza Riverfront, St. Paul, Minnesota. It is located right on the Mississippi River in the heart of downtown St. Paul. This location provides a variety of restaurants close by, nearby shopping, and a path along the river for those wanting to take in the sights from outside. Within a few blocks is Rice Park, surrounded by historic buildings and the famous Herb Brooks statue. Mears Park provides a peaceful green space, near the revitalized Union Depot, set to open for light rail transit in mid-June, and Farmers Market. For those with more time before and after the meeting, checkout [www.visitstpaul.com](http://www.visitstpaul.com) for the latest exhibits at the nearby Science Museum and the

Minnesota History Center and a host of other offerings in the area.

This venue has all events located in the same building as the hotel rooms, with the exception of some Monday activities. The welcome reception, luncheon and banquet will be located on the second floor, while the technical sessions and exhibit session are all located on the lower level within close proximity to each other. All breaks and refreshments will be located in the exhibit hall – to encourage networking of all meeting participants.

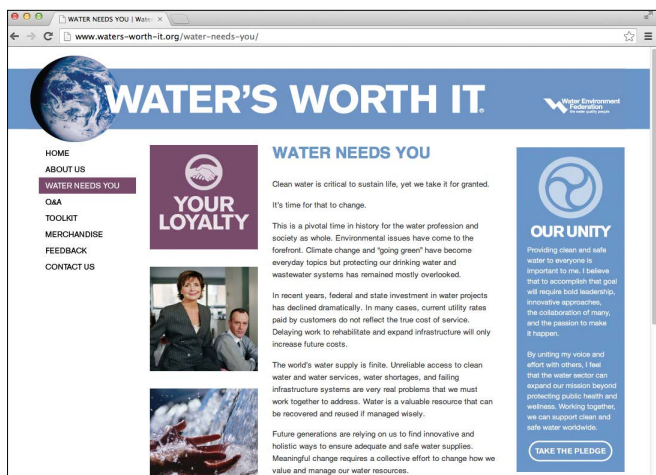
Our Local Arrangements Committee has been working diligently to plan an educational and fun conference that will provide exceptional value to all water quality professionals: wastewater and stormwater management and operations staff, public works officials, regulatory staff, consultants, equipment manufacturers and representatives, and others. The annual meeting preparation requires significant efforts by many people, and this year’s committee is chaired by **Mark Enochs**, of MNX, Inc. Mark is assisted by more than a dozen other CSWEA members in organizing this year’s technical and social events, and in sorting out the many details that go into making the meeting a success.

The Technical Program Committee, under the leadership of **Tracy Hodel**, City of St. Cloud, has again developed an impressive slate of presentations that has made the CSWEA Annual Meeting one of the best technical wastewater conferences in the nation. Last year’s technical program incorporated tracks specifically designed to promote WWTP operations and collection system topics. This year the offerings are expanded to a fourth new track: focusing on utility management/operations, leadership, and ethics (the latter is required for PE licensure in some states). A large poster session will also be featured this year.

The Exhibits Chair, **Matt Fritze** of Great Northern Environmental has worked hard to maximize networking and contact opportunities for all of our exhibitors, as well as to have some fun on the exhibit floor. The Exhibitor’s Luncheon and Reception will be held on the exhibition floor on Tuesday, as well as door prizes announced at the larger break sessions. Our CSWEA Global Initiative Silent Auction will also be held in the Exhibit Hall.

Building on the successful networking social event after the Exhibitor reception last year, the YP Committee will host an evening at Great Waters Brewing Co., located five blocks from the Crowne Plaza. Recreational opportunities include the golf outing on Monday afternoon and the Tuesday morning run/walk along the Mississippi River. We sincerely hope you join us for our 87th Annual Meeting – checkout the conference highlights for more details. Your presence and support are greatly appreciated!

*Patti Craddock, CSWEA President*





CSWEA 87th Annual Conference Local Arrangements Committee

Table with 4 columns: Name, Organization, Committee Role, e-mail. Lists committee members like Patti Craddock, Mark Enochs, Tracy Hodel, etc.

Technical Program Committee Members

Table with 3 columns: Name, Title/Organization, e-mail. Lists members like Tracy Hodel, Trevor Ghylin, Rick Manner, etc.

Conference Hotel

Crowne Plaza Hotel, St. Paul – Riverfront

11 Kellogg Blvd E, St Paul, Minnesota 55101

Situated atop the bluffs of the Mississippi River in the heart of downtown St. Paul, the Crowne Plaza – Riverfront is one of the best hotels in St. Paul, MN.

This hotel offers more than 55,000 square feet of elegant event space, including two grand ballrooms. Amenities include Free Internet access, a 24-hour Business Center, 24-hour Fitness Center, indoor pool and whirlpool, restaurant, and bar.

Book your hotel cutoff date: April 21, 2014

\$135/night

651-292-1900

Phone-in code: CSWEA

www.cpstpaul.com

Online group code: Q3X



PLEASE JOIN US NEXT YEAR AT CSWEA'S 88th Annual Meeting May 18-21, 2015 Drury Lane, Oak Brook, Illinois



## Conference Highlights

### Monday, May 12, 2014



#### Preconference Workshop

##### Work Safe & Live Safe Everyday

Harriet Island Pavilion, St. Paul, MN.  
8:00 a.m.-4:00 p.m. (Registration 7:30 a.m.). Half-day session also an option – see separate event listing.

The workshop includes safety topics that are of current interest such as energy control, arc flash hazards, and changes to the Hazard Communication Standards, OSHA inspections, fall protection and traffic control. Hands-on demonstrations are a part of several of the topics covered. Certificates of attendance will be given for each topic that is attended and will be eligible hours for training per OSHA requirements. Parking is available adjacent to the pavilion. Located across the river from the conference hotel – approximately a 15-minute walk.

7:30 a.m. to 11:00 a.m. State Suites (lower level).

#### Executive Committee Meeting

7:30 a.m. to 11:00 a.m. State Suites (lower level).



#### Golf Outing

Oak Marsh Golf Course  
(526 Inwood Ave N, Oakdale, MN 55128) 11:00 a.m.-5:00 p.m.

Oak Marsh is an 18-hole golf course with a par of 70. There are 31 bunkers and on 13 holes marsh and wetlands come into play. The golf course opened in August of 1996 with the clubhouse opening in April of 1997.

The 2014 golf event fee includes greens fee, cart, and lunch along with individual and team prizes. A lunch is included and will be served starting at 11:00. Registration is from 11:00 to 12:00 with a shotgun start at 12:00. Prizes will be awarded at the Meet and Greet. Contact golf chairs Phil Parsons (952-926-7000) or John Glatzmaier (651-365-8526) for outing details. See [www.cswea.org](http://www.cswea.org) for sponsorship specifics.

**NEW!**

#### Young Professional (YP) Leadership Academy

1:00-5:00 p.m. State Suites (lower level)

The leadership academy this year will include topics such as a University of Minnesota Research Update, Energy Audits, Fracking Waste Treatment, Bidding Techniques, and a brief WEF Midyear Update. Just prior to the start of the academy, interested attendees may visit Boerger's Chanhassen, MN facility (pump manufacturer, 2860 Water Tower Pl, Chanhassen, MN 55317)

for lunch and a hands-on tour (carpooling will be arranged). The academy will resume at the Crowne Plaza providing attendees great networking and career building opportunities.

#### Meet and Greet 6:00-9:00 p.m.

Windows on the River (22nd floor), Crowne Plaza Riverfront

Renew old friendships and meet new friends Monday night. Enjoy the 360-degree view of the Mississippi River and surrounding Twin Cities. Refreshments and light snacks will be available. Golf awards and winners will be announced.

### Tuesday, May 13, 2014

**5K Run/Walk** 6:30-8:15 a.m. Crowne Plaza Riverfront lobby

Meet in the lobby of the Crowne Plaza Riverfront for the fun run/walk around downtown St. Paul.

#### General Opening Session

Great River Ballroom (2nd floor) 9:00-9:10 a.m.

Conference Welcome, Patti Craddock, CSWEA President



#### Keynote Address

Great River Ballroom (2nd floor) 9:10-10:00 a.m.

**Bruce Miles, Ed.D.**, Big River Group, LLC.

Bruce will kick off the annual meeting and will energize us to “provide bold leadership, drive innovation, raise public awareness, and leverage our knowledge” – strategic directives of WEF – because working together we can support clean and safe water worldwide. It is time to take that pat on the back, because what we do matters, and makes a difference.



#### WEF Visitor

##### Sandra Ralston, 2013-2014 President

Sandra Ralston is 2013-2014 President of the Water Environment Federation (WEF). Sandra is currently an Associate Vice President with ARCADIS in Charleston, SC. She also participates as a Strategic Partner for the International City/County Managers Association. A WEF member since 1989, Sandra served as the chair of the WEF Government Affairs Committee from 2005-2008, with particular focus on increasing outreach to member association government affairs committees, conducting the national discussion of what the next 35 years of the Clean Water Act should be, and engaging a wider community of stakeholders to talk about the future of wet weather policy. CSWEA is honored to have Sandra as our WEF Visitor this year.

#### Committee Contact Information

Local Arrangements Chair	Mark Enochs	952-334-9257	menochs12@gmail.com
Technical Program Chair	Tracy Hodel	320-255-7226	tracy.hodel@ci.stcloud.mn.us
Exhibit Committee Chair	Matt Fritze	651-289-9100	mfritze@gnenv.com
Registration Information	Doug Henrichsen	651-468-2077	dhenrichsen@brwncald.com
Online Registration Support	Amy Haque	855-692-7932 x102	ahaque@cswea.org





## Conference Highlights

**Technical Sessions** State Suites & Governor’s Suites (lower level) 10:15-11:45 a.m. & 1:30-4:30 p.m.

There will be four concurrent half-hour sessions A, B, C, and D from 10:15 to 11:45 and E, F, G, & H from 1:30 to 4:30. The NEW fourth track will focus on utility operations/management topics; leadership breakout sessions and ethics topics will also be provided (PE requirement in some states).

**Exhibits** Minnesota Grand Ballroom (lower level) 10:00 a.m.-6:00 p.m.

Exhibits showcasing the latest technology in wastewater, collection systems, treatment and many related items will be on display. Be sure to visit our fine exhibitors and thank them for their support of our association.

**Lunch** Minnesota Grand Ballroom (lower level) 12:00-1:00 p.m.

Our Exhibitors Luncheon will be provided in the Exhibit Hall where you can visit with exhibitors.

**Technical Sessions** State Suites & Governor’s Suites (lower level) – see schedule above

### Poster Session I

Lower Level Registration & Exhibit Hall Area 3:00-3:30 p.m.

A large poster session will be held this year. They will be on display in the main area by registration and in the Exhibit Hall.



Presenters will be available at their posters at this time to discuss their posters and answer questions. Please stop and visit.

### Exhibitor Reception

Minnesota Grand Ballroom (lower level) 4:30-6:00 p.m.

Light snacks and refreshments will be provided in the Exhibit Hall. Share some refreshments and visit with our exhibitors (and thank them for attending this year’s CSWEA Annual Meeting).



### Tuesday Night Social

Great Waters Brewing Co.  
426 St. Peter St., St. Paul.  
7:30-12:00 p.m.



The Tuesday night social will be held five blocks away at the Great Waters Brewing Co. Enjoy appetizers, the amazing selection from the bar (drink ticket provided), raffle for prizes, and more.

Indoor and outdoor area, weather permitting, with location close to St. Paul’s historic Landmark Center and Rice Park.

## Wednesday, May 14, 2014

### State Section Breakfasts

Kellogg Suites 1, 2, & 3 (1st floor) 7:30-9:00 a.m.

Please attend your respective Section’s business meeting to be updated on the activities of the Section and its committees. Don’t miss this opportunity to get involved and find out where you can help your Section. A buffet breakfast will be served.

**Exhibits/Sponsors** Minnesota Grand Ballroom (lower level) 9:00 a.m.-3:30 p.m.

Exhibits showcasing the latest technology in wastewater, collection systems, treatment and many related items will be on display. Be sure to visit our fine exhibitors and thank them for their support of our association.

**Technical Sessions** State Suites & Governor’s Suites (lower level) 9:00-11:30 a.m. & 1:45-4:00 p.m.

There will be four concurrent sessions, I, J, K & L from 9:00 am to 11:30 and M, N, O & P from 1:45 to 4:00 p.m. The NEW fourth track will focus on utility operations/management topics; leadership breakout sessions and ethics topics will also be provided (PE requirement in some states).

### Student Paper and Design Presentations

State Suites I & II and Governor’s Suites II & III 9:30-10:00 a.m.

Join our Student Design and Paper winners as they present their projects in preparation to compete at WEFTEC 2014 in New Orleans.

## Conference Highlights

**Poster Session II** Lower Level Registration & Exhibit Hall Area  
10:00-10:30 a.m.

A large poster session will be held this year. They will be on display in the main area by registration and in the Exhibit Hall. Presenters will be available at their posters at this time to discuss their posters and answer questions. Please stop and visit.

**CSWEA Association Luncheon** Great River Ballroom (2nd floor) 12:00-1:30 p.m.

Our newest inductees to the Golden Manhole Society and the 7S will be announced and honored. **Remember to bring your lunch ticket to the Luncheon – a ticket must be purchased.**

**Silent Auction** Exhibit Hall/Registration Area (lower level)

This year, auction items donated by exhibitors will be displayed in the Exhibit Hall/registration area with a “CSWEA Global Initiative Silent Auction” helium balloon flying high above each participating exhibitor’s booth. Join in supporting this new CSWEA initiative and donate or bid on items. Interested in donating an item? Contact Matt Fritze at 651-289-9100 for more information. Bids are due by 12:00 Wednesday. Winners will be posted in the Exhibit Hall at 2:45 p.m. Wednesday (technical session break period).

**CSWEA Annual Business Meeting** State Suites 4:15-5:00 p.m.

The Association Business Meeting will include reports from the association committees and sections and the annual election of officers. We encourage everyone to attend and learn about our association’s activities.

**CSWEA Annual Awards Banquet**

Great River Ballroom (2nd floor) 6:00-10:00 p.m.

**6:00-6:30 p.m.** Social Reception. Connect with friends and enjoy refreshments before the Awards Banquet. Held outside the Ballroom in Garden Court East.

**6:30-8:00 p.m.** Banquet and Awards Presentations. Enjoy dinner and honor this year’s award winners for the many WEF and CSWEA Awards presented to the very best of our industry. **Remember to bring your dinner ticket to the banquet – a ticket must be purchased.**

**8:00-10:00 p.m.** Post-Banquet Social. A time to socialize with a cash bar. Enjoy live music provided by guitarist Ken Wanovich.

## Thursday, May 15, 2014

**Farewell Breakfast**

Kellogg Suites 1 & 2 (1st floor) 7:00-9:00 a.m.

Enjoy a buffet breakfast with conference members and an ongoing slide show of historic CSWEA annual meetings, this year’s annual meeting, and other CSWEA events.

**Plant Tour –**

**MCES Metropolitan Wastewater Treatment Plant**

9:30 a.m. to 12:00 p.m.

The Metropolitan Council Environmental Services’ largest plant, the 251 mgd Metro Plant, is a five-minute drive from the Crowne Plaza. The plant is one of the largest facilities in the nation with enhanced biological phosphorus removal and has a state-of-the-art solids management system that includes fluidized bed incineration, energy recovery, and air pollution control. Tour participants will get a map of driving directions to the plant – maps along with a tour guide booklet will be available at Registration. Bring photo identification and be prepared to provide your birth date when signing up for the tour.



**Executive Committee Meeting**

Kellogg Suite 3 9:00 a.m.-12:00 p.m.

## Executive Committee

President ..... **Patti Craddock**  
1st Vice President ..... **Jim Huchel**  
2nd Vice President ..... **Keith Haas**  
Treasurer ..... **Tim Tack**  
Immediate Past President ..... **Randy Wirtz**  
WEF Delegate '14 ..... **Ralph B. (Rusty) Schroedel**  
WEF Delegate '15 ..... **Eric Lecuyer**

PWO Representative '15 ..... **Todd Carlson**  
YP Representative '14 ..... **Eric Lynne**  
Illinois State Section Trustee '15 ..... **Dean Wiebenga**  
Minnesota State Section Trustee '14 ..... **Doug Henrichsen**  
Wisconsin State Section Trustee '15 ..... **Brandon Koltz**  
Executive Director ..... **Mohammed Haque**

## Technical Program

Tuesday May 13, 2014 - 10:15-11:45 AM				
	Session A: State Suites I & II	Session B: Governor's Suites II & III	Session C: Governor's Suites IV	<b>NEW!</b> UTILITY MGMT/OPS TRACK Session D: Governor's Suites I & V
	<b>NEW!</b> Leadership Moderator: Trevor Ghylin YP Moderator: Nathan Antonneau	Collection Moderator: Rick Manner YP Moderator: Matt Streicher	Regulatory Moderator: Derek Wold YP Moderator: Eric Lynne	<b>NEW!</b> Operations Moderator: Andy Bradshaw YP Moderator: James Kerrigan
10:15-10:45	Sharing Your Passion: Increasing the Performance and Accountability of Leaders, Teams and Employees; <b>Bruce Miles</b> ; Big River Group, LLC.	Selecting the Proper Technologies and Equipment for Your Interceptor Inspection and Condition Assessment Program; <b>Ben O'Grady, Harold Voht</b> ; Brown & Caldwell	Evaluating the Options for Phosphorus Compliance: The City of Fond du Lac Water Pollution Control Plant's Experience; <b>Jeremy Bril, Jane Carlson</b> , John Leonhard; Strand Associates Inc.	Disinfection Fundamentals; <b>Scott Schaefer</b> ; AE2S
10:45-11:15	Succession Planning: How to Prepare and Develop New Leaders; <b>Bruce Miles</b> ; Big River Group, LLC.	Crossing the Line - Secrets to a Successful Private-side Lateral Rehab Program; <b>Jim Shelton</b> ; ARCADIS	Meeting Chloride Regulation in Wastewater Treatment: Alexandria, MN; <b>Joseph Bischoff</b> , Ian Peterson; Wenck Associates Inc.; Bruce Nelson; Alexandria Lake Area Sanitary District	Improvements in Influent Flow Metering Verification Techniques and Practices to Improve Data Quality Assurance at the Metropolitan Wastewater Treatment Plant 2009-2013; <b>Adam Sealock</b> , Laura Fletcher; Metropolitan Council of Environmental Services
11:15-11:45	Accelerating Change - A Case Study in Uniting People and Best Practices for Results; <b>Sam Paske</b> , John Fortin, Tricia Christiansen; CH2M Hill; John Shinn Jr., Don Linn; Metropolitan Sewer District of Greater Cincinnati	Fear and Loathing of the Unknown: How to Jumpstart a COMOM Program; <b>Eric Lecuyer</b> ; Northern Moraine Wastewater Reclamation District	The Potential Impacts of the New US EPA Ammonia Criteria on NPDES Effluent Limits; <b>James Kleinschmidt</b> ; Baxter & Woodman	Case Study: Princeton, MN WWTP Improvements - Expansion & Tertiary Filtration Addition; <b>John Friel</b> , Dustin Maas, Tracy Ekola; S.E.H.

Tuesday May 13, 2014 - 1:30-4:30 PM (Break 3:00-3:30)				
	Session E: <b>NEW!</b> State Suites I & II	Session F: Governor's Suites II & III	Session G: Governor's Suites IV	Session H: Governor's Suites I & V
	Ethics Moderator: Jeremy Cramer YP Moderator: Mike Holland	Collection Moderator: Rick Manner YP Moderator: Matt Streicher	Technology/IT & Energy Savings Moderator: Amanda Poole YP Moderator: Alyssa Sohn	Process Control & Case Studies Moderator: Trevor Ghylin YP Moderator: Jeremy Bril
1:30-2:00	Introduction to Ethics: General Principles; <b>Paige Novak, Patrick Brezonik</b> ; University of Minnesota - Civil Engineering Department	Milwaukee MSD Comprehensive Inspection and Condition Assessment of Ductile Iron Force Main Pipes; <b>Dennis Dineen</b> ; Donohue & Associates; Chris Garrett; Pipeline Inspection and Condition Analysis Corp; Jeff Mattson; Corrosion Control Technologies; Bill Farmer, Dave Woznici, Urbain Boudiou; Milwaukee Metropolitan Sewerage District	Opworks! Going Digital: Treatment Facility Logs & Reporting Gets a Facelift; <b>Brian Barclay</b> ; AE2S	Everything I Know about Bio-P, the Bugs Taught Me; <b>Dennis Lindeke</b> ; Metro Council Environmental Services
2:00-2:30	Ethics for Engineers and Managers: Are There Distinguishing Features?; <b>Paige Novak, Patrick Brezonik</b> ; University of Minnesota - Civil Engineering Department	Get it While It's Hot - Sewage Heat Recovery Technology Assessment; <b>Michael Harvey</b> ; ARCADIS	Cyber Security: Cutting Through the Confusion; <b>Michael Minkebig</b> ; Donohue & Associates	Cooperative Learning: Working in Harmony to Optimize Wastewater Treatment; <b>Erin McMahon, Shane Lund</b> ; St. Cloud, MN Wastewater Treatment Facility
2:30-3:00	Data Management Issues in Professional Practice and Government Agencies; <b>Paige Novak, Patrick Brezonik</b> ; University of Minnesota - Civil Engineering Department	Sanitary Sewer Headspace Ventilation Dynamics and Foul Air Treatment Basics; <b>Mark Smith</b> ; Brown & Caldwell	Real Time Data Results in Real Cost Savings: The City of Lorain (OH) Real Time SSO Monitoring System; <b>Gunilla Goulding</b> ; ARCADIS	Parallel Treatment Train Comparison Oxidation Ditch Activated Sludge/Membrane Bioreactor, Hutchinson Minnesota; <b>Ed Nevers</b> ; Donohue & Associates; <b>Brian Mehr</b> ; City of Hutchinson
3:00-3:30	Break/Poster Session I	Break/Poster Session I	Break/Poster Session I	Break/Poster Session I
3:30-4:00	Case Studies of Ethical Issues in Engineering Practice; <b>Paige Novak, Patrick Brezonik</b> ; University of Minnesota - Civil Engineering Department	How Low Can You Go? Lessons Learned from Milwaukee Metropolitan Sewerage District's Flow Evaluations of the Private Property Infiltration/Inflow Reduction Program; <b>Julie McMullin</b> , Andrew Lukas; Brown and Caldwell; Jerome Fogel; Milwaukee Metropolitan Sewerage District	Total Nutrient Removal Achieved in Low-DO WWTP's Using Insights from Microbial Ecology; <b>Colin Fitzgerald</b> , Pamela Camejo, Juan M., Helen Littleton, Daniel Noguera; University of Wisconsin - Madison	New Ulm WWTF Aeration System Upgrades; <b>Seth Peterson</b> ; Bolton & Menk; <b>Dan O'Conner</b> ; City of New Ulm
4:00-4:30	Case Studies of Ethical Issues in Water Management; <b>Paige Novak, Patrick Brezonik</b> ; University of Minnesota - Civil Engineering Department	Condition Assessment - a Foundation for Asset Management; <b>David Koch</b> ; Black & Veatch	Applying Commercial Energy Conservation Measures at Wastewater Treatment Plants; <b>Tony Kriel</b> ; SCS Engineers	The ABCs of ORP in BPR Optimization; <b>Greg Paul</b> ; QLF

\*Speakers' names listed in **bold** type.



Wednesday May 14, 2014 - 9:00-11:30 AM (Break 10:00 - 10:30)				
	Session I:	Session J:	Session K:	Session L:
	State Suites I & II	Governor's Suites II & III	Governor's Suites IV	Governor's Suites I & V
	Watershed	Low Level Nutrient Removal	Biogas	Utility Management/Energy
	Moderator: Andy Bradshaw YP Moderator: Matt Streicher	Moderator: Jeremy Cramer YP Moderator: Jeremy Brill	Moderator: Derek Wold YP Moderator: Adam Klaas	Moderator: Rick Manner YP Moderator: Mike Holland
9:00-9:30	Can Adaptive Management Work for the Lower Fox River?; <b>Nick Vande Hey</b> ; McMahon	Right Sizing of Low Level P Technologies; <b>Aric Bergstrom</b> , Leon Downing, Eric Lynne, Bill Marten; Donohue & Associates	Estimating Codigestion/Cogeneration Capacity at Your WWTP; <b>Randall Wirtz</b> ; Strand Associates	Moving Your Utility in the Right Direction to Meet the Challenges of Today and Tomorrow; <b>D. Michael Mucha</b> , Madison Metropolitan Sewerage District; <b>Jack Geisenhoff</b> , Sharon Peters; EMA, Inc.
9:30-10:00	Student Competition Paper	Student Competition Paper	Co-Digestion of Solid Waste for Enhanced Methane Generation and Increased Recovery of Landfilled Wastes; <b>Ben Bocher</b> , Trevor Rundhaug, Marc Stern, Dylan Friss; University of Wisconsin - Platteville	Superior's Shotgun Approach Toward Optimization - One Pellet at a Time; <b>Bill Marten</b> , Eric Lynne; Donohue & Associates; <b>Steve Roberts</b> , John Shamia, Mark Unger; City of Superior, WI
10:00-10:30	Break/Poster Session II	Break/Poster Session II	Break/Poster Session II	Break/Poster Session II
10:30-11:00	Approaches for Developing Site-Specific Nutrient Goals, Criteria and Management Plans; <b>Dave Dilks</b> , <b>Hans Holmberg</b> , Joe DePinto, Dendy Lofton, Penelope Moskus; LimnoTech	Need Filtration or Equivalent? Demonstration Testing Prepares Communities for Low Level Phosphorus; <b>Eric Lynne</b> , Leon Downing, Bill Martin; Donohue & Associates	The Value of Biogas: Measuring Changes in Biogas Energy Content; <b>Amanda Poole</b> , Derek Wold; Baxter & Woodman; James Huchel Sr, Dan Langguth; City of Crystal Lake, IL	The First Step on the Roadmap to Net Zero Energy; <b>Rusty Schroedel Jr</b> , Nancy Andrews; Brown and Caldwell; Michael Mucha; Madison Metropolitan Sewerage District; Randy Wirtz, Jane Carlson; Strand Associates
11:00-11:30	#2 Successful Green Infrastructure Planning: A Micro-Scale Modeling and Field Investigation Approach; <b>Hazem Gheith</b> ; Vinnie Tremante, Hunter Kelly; ARCADIS	New and Innovative Rare Earth Technology for Low-Level Phosphorus Removal; <b>Joseph Carlston</b> ; Molycorp	How One City Saved \$\$ Through Biogas Reuse and Biosolids Drying; <b>Dean Nelson</b> ; City of Owatonna; <b>John Fisher</b> ; S.E.H.	Overcoming the Barriers of Energy Recovery: Developing WLSSD's Energy Vision; <b>Mike Gerbitz</b> , Leon Downing; Donohue & Associates; <b>Carrie Clement</b> , Nate Hartman; WLSSD

Wednesday May 14, 2013 - 1:45-4:00 PM (Break 2:45-3:00)				
	Session M:	Session N:	Session O:	Session P:
	State Suites I & II	Governor's Suites II & III	Governor's Suites IV	Governor's Suites I & V
	Solids Processing	Low Level Nutrient Removal	Energy	Project Management & Collection
	Moderator: Rick Manner YP Moderator: Ben Bocher	Moderator: Andy Bradshaw YP Moderator: Alyssa Sohn	Moderator: Jeremy Cramer YP Moderator: Eric Lynne	Moderator: Derek Wold YP Moderator: Bulbul Ahmed
1:45-2:15	Results from Investigations of Cations, Extra-Cellular Polymeric Substances and Other Factors Proposed to Influence the Dewaterability of Anaerobically Digested Bio-P Sludge; <b>Rebecca Alm</b> , Adam Sealock, Yabing Nollet, Alex Koo, George Sprouse; Metropolitan Council Environmental Services	A Technology Showcase for Meeting Extremely Low Phosphorus Limits; <b>Shane Oyley</b> , <b>Luke Johnson</b> ; Shive-Hattery	How Much Selector Zone Mixing Energy is Enough?; <b>Craig Heisel</b> , Leon Downing, Eric Lynne; Donohue & Associates; Mike Young; Trinity River Authority	Alternative Project Delivery for Self-Funding Projects; <b>Matthew Yonkin</b> ; ARCADIS
2:15-2:45	Energy Management at Milwaukee Metropolitan Sewerage District; <b>Michael Martin</b> , Bill Farmer, Mickie Pearsall, Tim Bate; Milwaukee Metropolitan Sewerage District	Full-Scale Pilot Targeting Ultra-Low Phosphorus in Secondary Effluent at Jonesville WPCF; <b>Nathan Cassity</b> , Joe Zakovec; AECOM	Low Level DO Operation: Impacts on Energy, Ecology and Nutrients; <b>Leon Downing</b> ; Donohue & Associates; Mike Young; Trinity River Authority; Jeremy Cramer; Stevens Point; Rob Nerenberg, Sam Bruce; University of Notre Dame	MCES Interceptors 1-MN-320 and 1-MN-310 Tunnel Stabilization, Overcoming Challenges During Construction; <b>Doug Henrichsen</b> , <b>Chuck Lewis</b> ; Brown & Caldwell
2:45-3:00	Break	Break	Break	Break
3:00-3:30	Struvite Harvesting: A Utility's Perspective; <b>Sharon Thieszen</b> ; City of Sheboygan; Leon Downing; Donohue & Associates	Modeling of Temperature Impacts on Fixed Film Microbial Growth and Nitrification Kinetics; <b>Jacob Strombeck</b> ; North Dakota State University, AE2S; Wei Lin; North Dakota State University; Corey Bjornberg; City of Rochester; Robert Zimmerman; City of Moorhead	An Energy-Saving Solution Pays Big Dividends/Madison MSD Nine Springs WWTP - Activated Sludge Selector Mixing System; <b>Alan Grooms</b> ; Madison MSD; <b>Jim Fisher</b> ; Xylem - Flygt	Trenchless Technology Success Story: Pipe Ramming; <b>Daniel Graber</b> , <b>Michelle Carter</b> , Nick VanWyhe; HDR Engineering; Ryan Johnson; City of Sioux Falls, SD
3:30-4:00	Membrane Thickening Aerobic Digestion Processes; <b>Bryen Woo</b> ; Ovivo USA, LLC	Addressing Facility and Carbon Limitations in BNR Systems; <b>Don Esping</b> , Jose Jimenez, Adam Klein; Brown & Caldwell	Energy Recovery at the Blue Lake WWTP: An Award Winning Experience; <b>Scott Fronek</b> , Patricia Scanlan, Webster Hoener, Hari Santha, Neil Massart; Black & Veatch; <b>Carol Mordorski</b> , Dave Simons, Scott Joseph; Metropolitan Council Environmental Services	How Do I Get This Done? A Synopsis of Contractual Delivery Methods; <b>Christopher Tippery</b> , Joseph Teusch; Greeley and Hansen, LLC



## Safety Workshop

# PRE-CONFERENCE WORKSHOP May 12, 2014

# WORK SAFE & LIVE SAFE EVERYDAY!

### Safe Work Practices

This workshop will provide classroom training and hands on demonstrations for safety topics that are of current interest. Certificates of Attendance will be provided for each session attended and will be eligible hours for training per OSHA requirements. Approved for 5.75 Indirect Wastewater Contact Hours - Minnesota.

This Pre-Conference Workshop is part of the CSWEA 87th Annual Meeting held May 12-15, 2014 at the Crowne Plaza Riverfront, St. Paul, MN. Please go to [www.cswea.org](http://www.cswea.org) to learn more about the other professional development and networking opportunities at this premier regional wastewater and water quality conference.



Located at Harriet Island (Clarence Wigington) Pavilion  
200 Dr Justus Ohage Blvd, Saint Paul, MN 55107  
Near 300 Water St W, St. Paul, MN 55107

## Central States Water Environment Association Safety Workshop

This workshop will provide a classroom and hands on training experience for safety topics that are of current interest.



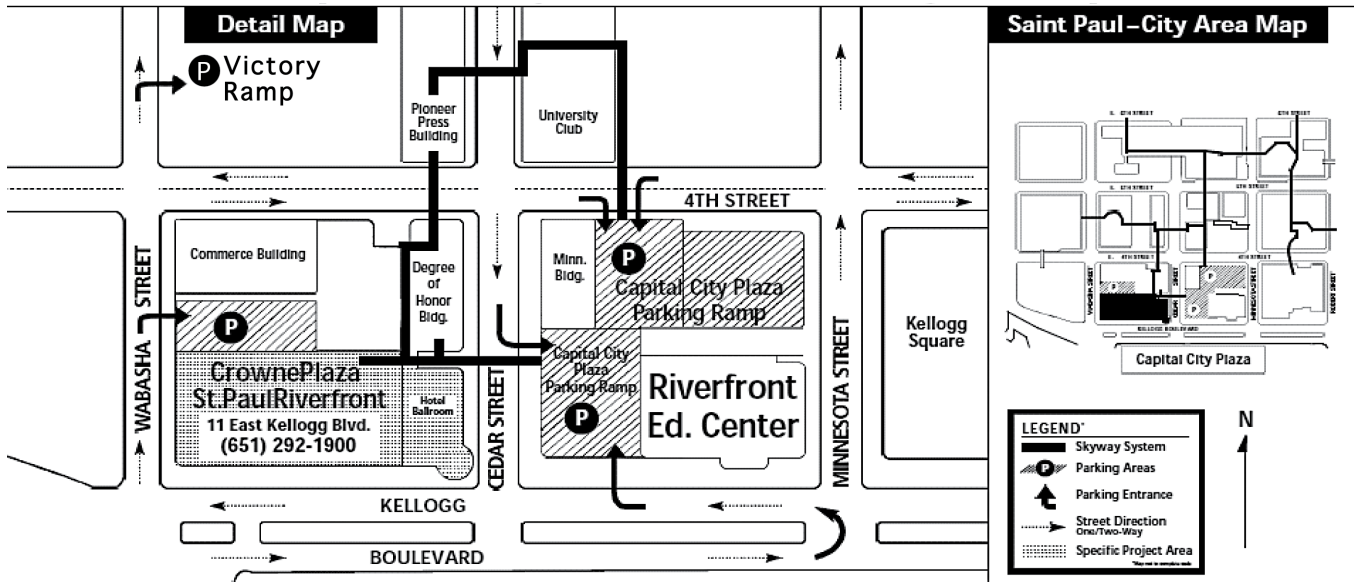
View of Harriet Island Regional Park, the location of the workshop.

- 7:30-8:00 **Registration**
- 8:00-9:00 **Energy Control (LOTO)**  
*Warren Wesley, Wesley & Associates*
- 9:00-10:00 **Hazard Communication: New Standards**  
*Warren Wesley, Wesley & Associates*
- 10:00-10:30 **Break**
- 10:30-11:30 **Arc Flash Overview**  
*Warren Wesley, Wesley & Associates*
- 11:30-12:00 **What to do when OSHA Shows Up**  
*Dennis Lindeke, Metropolitan Council Environmental Services*
- 12:00-1:00 **Lunch - Onsite**
- 1:00-2:00 **Confined Space Entry and Fall Protection Equipment**  
*Joe Rubbelke, Infratech*
- 2:00-2:15 **Break**
- 2:15-3:30 **Traffic Safety**  
*Kathleen Schaefer, MnDot*
- 3:30-3:45 **Wrap Up and Certificates**





## Crowne Plaza St. Paul Riverfront and Capital City Plaza Parking Ramps



### Directions and Information to Crowne Plaza St. Paul Riverfront and Capital City Plaza Parking Ramps.

From Minneapolis: I-94 East to Marion St. exit. Marion St. becomes Kellogg Blvd. Follow Kellogg Blvd. to the parking ramps.  
 From Wisconsin: I-94 East to Kellogg Blvd. Take a left on Kellogg Blvd. to the parking ramps.

#### HOTEL PARKING RAMPS:

Entrances on Wabasha Street, Kellogg Blvd., 4th Street and Cedar Avenue.

The Crowne Plaza Ramp has a 5'9" clearance, the Victory and Capitol City Ramps have a 7' clearance, and the Depot Lot on Kellogg (2-3 blocks east of Minnesota Street) is for very large vehicles and/or those with trailers.

## Plant Tour – MCES Metropolitan Wastewater Treatment Plant

9:30 a.m. to 12:00 p.m.

The Metropolitan Council Environmental Services' largest plant, the 251 mgd Metro Plant, is a five-minute drive from the Crowne Plaza. The plant is one of the largest facilities in the nation with enhanced biological phosphorus removal and has a state-of-the-art solids management system that includes fluidized bed incineration, energy recovery, and air pollution control. Tour

participants will get a map of driving directions to the plant – maps along with a tour guide booklet will be available at Registration. Bring photo identification and be prepared to provide your birth date when signing up for the tour.







## 87th Annual Meeting Changes

The 87th Annual Meeting of the Central States Water Environment Association, Inc., will be held May 12-15, 2014 at the Crowne Plaza, St. Paul, Minnesota. This year, we will be introducing new tracks for the Technical Program as well as a New Utility Registration Pricing.

### NEW Utility Track Technical Session

This fourth track will consist of operations and utility management topics. Troubleshooting, optimization studies, case studies, completed projects are an example of the topics that will be included for operators in the Utility Track. Leadership, financial planning, retention and sustainability practices are examples of topics that will be included for managers in the Utility Track. Two hours of ethics training, as required by WI Professional Engineer Certification Requirements, will be added to the program as well for those engineers who require this to maintain their license.

### NEW Ethics Training

CSWEA is pleased to offer a full session in ethics training on Tuesday, May 13 from 1:30-4:30 p.m. in State Suites I & II. The ethics track meets Wisconsin's requirement of a minimum of two professional development hours in the area of professional conduct and ethics.

Below is a list of topics that are part of the Utility Track.

#### Operations And Maintenance:

- Resource Recovery – Nutrients and Energy
- Technology/SCADA/Web-based Maintenance Programs/GIS Applications
- Troubleshooting
- Case Studies
- Summary of completed projects
- Optimization
- Nutrient Removal
- Process Control
- Start-up Issues

#### Utility Management:

- Succession Planning
- Project Funding
- Utility Rate Development and Reviews
- Employee Retention
- Communication

#### General:

- Regulatory Issues
- Security Issues
- Engineering Ethics Training

# NEW!

### Utility Registration Pricing

Based on market studies and extensive interviews with our membership, CSWEA will offer a flat rate pricing for the Annual Meeting for utilities beginning in 2014. The new pricing allows utilities to pay a flat fee for registration depending on their treatment plant design size or transported flow. **For that price, they can send as many people as they want to the annual meeting.** They would still have to purchase event and meal tickets separately for each individual.

Five tiers have been setup for the utility registrations depending on the size of the utility.

### Pricing Tiers

- **MICRO UTILITY** (<1 MGD)  
@ \$150 for Annual Meeting
- **SMALL UTILITY** (1- 5 MGD)  
@ \$250 for Annual Meeting
- **MEDIUM UTILITY** (5 – 10 MGD)  
@ \$500 for Annual Meeting
- **LARGE UTILITY** (10 – 25 MGD)  
@ \$800 for Annual Meeting
- **MEGA UTILITY** (> 25 MGD)  
@ \$1200 for Annual Meeting

## CSWEA Global Initiative

I am amazed at the number of opportunities that are available for us to take our skills and expertise to parts of the world that can benefit from it. There is so much need. The resources are just not there for many countries to properly take care of their environment.

Although the beaches, canopy tours, zip-lining, spider monkeys and macaws are what Costa Rica is well known for, you would not think that wastewater issues are a big problem in a land that is known for its eco-friendly developments. The reality lies off the beaten path. Costa Rica has many of the same problems that most developing and underdeveloped countries have.

The country has superb potable water systems, primarily fed by the mountain springs that provide a reliable and clean water source. The national water and sanitation agency AyA provides potable water to the major towns and villages. In some areas the water is provided by more localized community-based organizations called ASADAs. While water is well taken care of, wastewater is a different issue altogether.


In urban areas, there is wastewater treatment in the forms of publicly owned wastewater treatment plants. However, as you move to more rural areas and smaller villages, there are no treatment plants. Only 8% of the overall population is connected to a sewer system and to a wastewater treatment plant. The individual homes and businesses are on septic systems. In many cases, grey water is separated from sewage, with sewage going to a septic tank and grey water drained from the property as if it was stormwater. Septic tanks and the leachate fields are typically undersized and not maintained. This leads to a situation where septic systems overflow and the receiving streams get a mix of septic overflows and grey water discharges.

One such community with an extreme case of this issue is Piedras Blancas, a small densely populated community of approximately 500 people who work primarily in the nearby palm oil plantations. Located in the Osa Peninsula, the community discharges its waters in a stream tributary to the Rio Esquinas which eventually flows into the Golfo Dulce (Sweet Gulf). Because of the grey water and septic overflows,



the community has major issues with dengue fever, hepatitis and leptospirosis. CSWEA is working with and gaining insight from the Peace Corps, INOGO initiative of Stanford University, Coldwell Banker Dominican Realty and the community leaders to develop a solution for the water issues at Piedras Blancas.

If you are interested in participating, we would love to hear from you. Please contact Eric Lynne, chair of the CSWEA Global Initiative ([elynne@donohue-associates.com](mailto:elynne@donohue-associates.com)) or me at [mhaque@cswea.org](mailto:mhaque@cswea.org) to let us know of your desire to participate in this worthy endeavor. We look forward to your help.

In Costa Rica, there is a saying that many tourists are familiar with. *Pura Vida* stands for "the good life." Let's empower CSWEA to create Pura Vida for the every day Costa Rican. We hope you can join us to make a difference. 

Mohammed Haque  
CSWEA Executive Director

## Donate an item to the Silent Auction

Join in supporting this worthy global initiative and donate or bid on an items.

### Past donations include:

Golf clubs	iPod
Golf packages	Sporting event tickets
Cameras	Wildlife prints
iPod accessories	Sports memorabilia
Tools	Fishing trips
Wine and cheese baskets	Concert tickets



Contact Matt Fritze at 651-289-9100 ([mfritze@gnev.com](mailto:mfritze@gnev.com)) or Eric Lynne at 920-803-7375 ([elynne@donohue-associates.com](mailto:elynne@donohue-associates.com)) for more information.



### Attendee Registration Form

#### Full Conference Registration\*:

Conference Registration Includes Monday Meet & Greet, Exhibits, Technical Sessions, Tuesday Lunch in exhibit area, Exhibitors' Reception, Tuesday Night Social Event @ Great Waters.  
(REGISTRATION DOES NOT INCLUDE ASSOC. LUNCHEON or BANQUET or STATE SECTION BREAKFAST)

Member	\$325	_____
Non-Member	\$375	_____
Retiree	\$150	_____
Student	\$ 50	_____

#### Late Full Registration Fee-If registering after 4/18/2014 or on site:

Member	\$350	_____
Non-Member	\$400	_____

#### One Day Registration Options\*:

Tuesday: Includes Monday Meet & Greet, Technical Sessions, Exhibits, Lunch in exhibit area, Exhibitors' Reception and Tuesday Night Social Event @ Great Waters.

After	4/18/2014	
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Wednesday: Includes Technical Sessions and Exhibits.

\$190	_____	\$215	_____
\$175	_____	\$200	_____

**\*Registrations do not include other meals and events. Register for them below.**

Events:**	Are YOU attending?	For guests or events not included in registration # EXTRA tickets	Total cost
Pre-Conference Safety Workshop (Tuesday, May 12)			
Morning Session 8:00-12:00 (no lunch)	\$ 30 _____	+ _____ @ \$30 =	\$ _____
Afternoon Session 12:00-4:00 (no lunch)	\$ 30 _____	+ _____ @ \$30 =	\$ _____
Full Workshop 8:00-4:00 (includes lunch)	\$ 50 _____	+ _____ @ \$50 =	\$ _____
Golf Outing (Monday, May 12)	\$ 95 _____	+ _____ @ \$95 =	\$ _____
Leadership Academy (Monday, May 12)	\$ 15 _____	+ _____ @ \$15 =	\$ _____
5K Run/Walk (Tuesday, May 13)	\$ 15 _____	+ _____ @ \$15 =	\$ _____
Tuesday Night Social Event (incl. in Full & Tue. reg.)	Yes or No	_____ @ \$25 =	\$ _____
Thursday Plant Tour @ MCES Metro	Yes or No	no charge	

#### Meals:\*\*

State Section Breakfast (Wednesday, May 14)	\$ 15 _____	+ _____ @ \$15 =	\$ _____
Association Luncheon (Wednesday, May 14)	\$ 40 _____	+ _____ @ \$40 =	\$ _____
Annual Awards Banquet (Wednesday, May 14)	\$ 65 _____	+ _____ @ \$65 =	\$ _____

PLEASE CIRCLE for **yourself**: Grilled Sirloin Tuscan Chicken Salmon Filet Vegetable Kabobs  
PLEASE CIRCLE for **guest**: Grilled Sirloin Tuscan Chicken Salmon Filet Vegetable Kabobs

Farewell Breakfast (Thursday, May 15)	\$ 30 _____	+ _____ @ \$30 =	\$ _____
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**\*\*Meal or event late registration fee – If registering after 4/18/2014 (or on site), ADD \$10 to each meal or event ticket.**

#### Guest Registration:

Includes Monday Meet & Greet, Tuesday Night Social Event, and refreshments available in the Exhibit Hall \_\_\_\_\_ @ \$25 = \$ \_\_\_\_\_

**TOTAL \$ \_\_\_\_\_**

Please note any special accommodations required or dietary restrictions: \_\_\_\_\_

Name \_\_\_\_\_ Employer \_\_\_\_\_

Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_

WEF Member Number \_\_\_\_\_ Work Phone \_\_\_\_\_ Email \_\_\_\_\_

Guest Name \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_

Golf Partners \_\_\_\_\_

Check here if you are a Young Professional (35 years old or younger): \_\_\_\_\_

Check here if you wish to donate an item to the "CSWEA Global Initiative" Silent Auction: \_\_\_\_\_

MAKE CHECKS PAYABLE TO: **Central States Water Environment Association, Inc.**

Mail your registration form and check to: Central States Water Environment Association, 1021 Alexandra Blvd., Crystal Lake, Illinois 60014

**Questions?** Contact Mark Enochs  
952-334-9257  
menochs12@gmail.com

**Registration:** Amy Haque  
855-692-7932 x102  
ahaque@cswea.org



# Utility Registration Form

Contact Person \_\_\_\_\_

Utility \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_

Phone \_\_\_\_\_ Email \_\_\_\_\_

## Utility Registration<sup>1</sup>:

Conference Registration Includes Monday Meet & Greet, Exhibits, Technical Sessions, Tuesday Lunch in exhibit area, Exhibitors' Reception, Tuesday Night Social Event @ Great Waters. (REGISTRATION DOES NOT INCLUDE ASSOC. LUNCHEON or BANQUET or STATE SECTION BREAKFAST)	Treated or Transported Flow		After 4/18/2014
	0 - 1 MGD	\$150 _____	\$200 _____
	1 - 5 MGD	\$250 _____	\$300 _____
	5 - 10 MGD	\$500 _____	\$550 _____
	10 - 25 MGD	\$800 _____	\$850 _____
	> 25 MGD	\$1200 _____	\$1250 _____

**[1] Registration based on NPDES permitted flow. For utilities without a treatment plant, please estimate the flow you process on average. Registrations do not include other meals and events. Register for them below.**

## Attendee Registration Selections<sup>2</sup>:

Please mark the days of attendance, circle the events and meals for each utility attendee and indicate the total for each attendee on the right.

Attendee Name	Annual Meeting			Pre-Conference Workshop			Golf Outing	Leadership Academy	5K Run/Walk	Tue Social	Thur Plant Tour	Section Breakfast	Assoc. Luncheon	Awards Banquet	Circle Meal Choice <sup>3</sup>	Farewell Breakfast	TOTAL
	Tue	Wed	Full	AM	PM	Full											
				\$30	\$30	\$50	\$95	\$15	\$15	N/C	N/C	\$15	\$40	\$65	GS TC SF VK	\$30	\$
				\$30	\$30	\$50	\$95	\$15	\$15	N/C	N/C	\$15	\$40	\$65	GS TC SF VK	\$30	\$
				\$30	\$30	\$50	\$95	\$15	\$15	N/C	N/C	\$15	\$40	\$65	GS TC SF VK	\$30	\$
				\$30	\$30	\$50	\$95	\$15	\$15	N/C	N/C	\$15	\$40	\$65	GS TC SF VK	\$30	\$
				\$30	\$30	\$50	\$95	\$15	\$15	N/C	N/C	\$15	\$40	\$65	GS TC SF VK	\$30	\$
				\$30	\$30	\$50	\$95	\$15	\$15	N/C	N/C	\$15	\$40	\$65	GS TC SF VK	\$30	\$
				\$30	\$30	\$50	\$95	\$15	\$15	N/C	N/C	\$15	\$40	\$65	GS TC SF VK	\$30	\$
				\$30	\$30	\$50	\$95	\$15	\$15	N/C	N/C	\$15	\$40	\$65	GS TC SF VK	\$30	\$
				\$30	\$30	\$50	\$95	\$15	\$15	N/C	N/C	\$15	\$40	\$65	GS TC SF VK	\$30	\$
				\$30	\$30	\$50	\$95	\$15	\$15	N/C	N/C	\$15	\$40	\$65	GS TC SF VK	\$30	\$

**[2] Meal or event late registration fee – If registering after 4/18/2014 (or on site), ADD \$10 to each meal or event ticket.**

## Guest Registration<sup>4</sup>:

Guest Name	Annual Meeting	Golf Outing	5K Run/Walk	Assoc. Luncheon	Awards Banquet	Circle Meal Choice	Farewell Breakfast	TOTAL
	Guest Registration							
	\$25	\$95	\$15	\$40	\$65	GS TC SF VK	\$30	\$
	\$25	\$95	\$15	\$40	\$65	GS TC SF VK	\$30	\$
	\$25	\$95	\$15	\$40	\$65	GS TC SF VK	\$30	\$
	\$25	\$95	\$15	\$40	\$65	GS TC SF VK	\$30	\$

**[3] GS = Grilled Sirloin, TC = Tuscan Chicken, SF = Salmon Filet, VK = Vegetable Kabobs**

**[4] Guest Registration includes Monday Meet & Greet, Tuesday Night Social and refreshments in Exhibit Hall**

**TOTAL \$ \_\_\_\_\_**

Golf Partners \_\_\_\_\_

Please note any special accommodations required or dietary restrictions: \_\_\_\_\_

Please list Young Professionals (35 years old or younger): \_\_\_\_\_



## Conference Sponsors

### Platinum Sponsors

AE2S  
Brown and Caldwell  
Foth  
Short Elliot Hendrickson Inc. (SEH)



### Gold Sponsors

Vessco Inc.  
HR Green, Inc.  
Great Northern Environmental  
Peterson & Matz



### Silver Sponsors

LAI, Ltd  
Unison Solutions, Inc.  
Donohue & Associates  
Baxter & Woodman



### Bronze Sponsors

L&S Electric



### Event Sponsorship

Symbiont – Tuesday Social  
Short Elliot Hendrickson Inc. – Safety Workshop  
HR Green – Tuesday Social  
Brierley Associates – Tuesday Social  
Foth – Exhibitor Social



### Golf Sponsors

Foth  
Symbiont



### 5K Walk/Run Sponsors

Symbiont

# Thanks to our Sponsors