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

### Monday, May 12
- **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)

### Tuesday, May 13
- **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)
- **12:00 - 1:00** Exhibitor Luncheon
  - Minnesota Grand Ballroom (lower level)
- **1:30 - 3:00** 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)
- **7:30 - 12:00** Social Gathering
  - Great Waters Brewing Co. (5 blocks from hotel)

### Wednesday, May 14
- **7:30 - 9:00** State Section Breakfasts
  - Kellogg Suites 1, 2, & 3 (ground floor)
- **9:00 - 11:30** Technical Sessions
  - State Suites & Governor’s Suites (lower level)
- **3:30 - 4:30** Poster Session II
  - Lower Level Registration & Exhibit Hall Area
- **12:00** Silent Auction Bids Due
  - Registration / Exhibit Hall Area
- **3:00** Silent Auction Bids Posted
  - Minnesota Grand Ballroom (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)

### Thursday, May 15
- **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)

### Registration Hours
- **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

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 statute. 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 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
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.

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 for sponsorship specifics.

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

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<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Phone</th>
<th>Email</th>
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</thead>
<tbody>
<tr>
<td>Local Arrangements Chair</td>
<td>Mark Enochs</td>
<td>952-334-9257</td>
<td><a href="mailto:menochs12@gmail.com">menochs12@gmail.com</a></td>
</tr>
<tr>
<td>Technical Program Chair</td>
<td>Tracy Hodel</td>
<td>320-255-7226</td>
<td><a href="mailto:tracy.hodel@ci.stcloud.mn.us">tracy.hodel@ci.stcloud.mn.us</a></td>
</tr>
<tr>
<td>Exhibit Committee Chair</td>
<td>Matt Fritze</td>
<td>651-289-9100</td>
<td><a href="mailto:mfritze@gnenv.com">mfritze@gnenv.com</a></td>
</tr>
<tr>
<td>Registration Information</td>
<td>Doug Henrichsen</td>
<td>651-468-2077</td>
<td><a href="mailto:dhenrichsen@brwncaid.com">dhenrichsen@brwncaid.com</a></td>
</tr>
<tr>
<td>Online Registration Support</td>
<td>Amy Haque</td>
<td>855-692-7932 x102</td>
<td><a href="mailto:ahaque@cswea.org">ahaque@cswea.org</a></td>
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</table>
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**

<table>
<thead>
<tr>
<th>Session A</th>
<th>Session B</th>
<th>Session C</th>
<th>Session D</th>
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<tbody>
<tr>
<td><strong>NEW!</strong> Leadership</td>
<td><strong>NEW!</strong> Collection</td>
<td><strong>NEW!</strong> Regulatory</td>
<td><strong>NEW!</strong> Operations</td>
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<tr>
<td>Moderator: Trevor Gylin</td>
<td>Moderator: Rick Manner</td>
<td>Moderator: Derek Wold</td>
<td>Moderator: Andy Bradshaw</td>
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<td>YP Moderator: Nathan Antoneau</td>
<td>YP Moderator: Matt Streicher</td>
<td>YP Moderator: Eric Lynne</td>
<td>YP Moderator: James Kerrigan</td>
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<td><strong>10:15-10:45</strong></td>
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<tr>
<td>Sharing Your Passion: Increasing the Performance and Accountability of Leaders, Teams, and Employees; Bruce Milles, Big River Group, LLC.</td>
<td>Selecting the Proper Technologies and Equipment for Your Interceptor Inspection and Condition Assessment Program; Ben O'Grady, Harold Voth, Brown &amp; Caldwell.</td>
<td>Evaluating the Options for Phosphorus Compliance: The City of Fond du Lac Water Pollution Control Plant's Experience; Jeremy Brill, Jane Carlson, John Leonhard, Strond Associates Inc.</td>
<td>Improvements in Influent Flow Monitoring Verification Techniques and Practices to Improve Data Quality Assurance at the Metropolitan Wastewater Treatment Plant 2009-2013; Adam Sealeck, Laura Fletcher, Metropolitan Council of Environmental Services</td>
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<td><strong>10:45-11:15</strong></td>
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**Tuesday May 13, 2014 - 1:30-4:30 PM (Break 3:00-3:30)**

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<th>Session E</th>
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<tr>
<td><strong>NEW!</strong> Ethic</td>
<td><strong>NEW!</strong> Collection</td>
<td><strong>NEW!</strong> Technology/IT &amp; Energy Savings</td>
<td><strong>NEW!</strong> Process Control &amp; Case Studies</td>
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<tr>
<td>Moderator: Jeremy Cramer</td>
<td>Moderator: Rick Manner</td>
<td>Moderator: Amanda Poole</td>
<td>Moderator: Trevor Gylin</td>
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<tr>
<td>YP Moderator: Mike Holland</td>
<td>YP Moderator: Matt Streicher</td>
<td>YP Moderator: Alyssa Sohn</td>
<td>YP Moderator: James Kerrigan</td>
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<td><strong>1:30-2:00</strong></td>
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<td><strong>2:30-3:00</strong></td>
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<tr>
<td>Introduction to Ethics: General Principles; Paige Novak, Patrick Brezonik; University of Minnesota - Civil Engineering Department</td>
<td>Ethics for Engineers and Managers: Are There Distinguishing Features?; Paige Novak, Patrick Brezonik; University of Minnesota - Civil Engineering Department</td>
<td>Data Management Issues in Professional Practice and Government Agencies; Paige Novak, Patrick Brezonik; University of Minnesota - Civil Engineering Department</td>
<td>Break/Poster Session I</td>
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<tr>
<td>Milwaukee MSD Comprehensive Inspection and Condition Assessment of Ductile Iron Fora Main Pipes, Dennis Dineen, Donohue &amp; Associates; Chris Garrett; Pipeline Inspection and Condition Analysis Corp; Jeff Mattson, Corrosion Control Technologies; Bill Farmer, Dave Woznicz, Urbain Boudiou; Milwaukee Metropolitan Sewerage District</td>
<td>Get it While It’s Hot - Sewage Heat Recovery Technology Assessment; Michael Harvey, ARCADIS</td>
<td>Sanitary Sewer Headspace Ventilation Dynamics and Foul Air Treatment Basics; Mark Smith, Brown &amp; Caldwell</td>
<td>Break/Poster Session I</td>
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<tr>
<td>Opwors! Going Digital: Treatment Facility Logs &amp; Reporting Gets a Facelift; Brian Barclay, AE2S</td>
<td>Cyber Security: Cutting Through the Confusion, Michael Minklebige, Donohue &amp; Associates</td>
<td>Real Time Data Results in Real Cost Savings: The City of Lorain (OH) Real Time SSD Monitoring System; Gunilla Goulding, ARCADIS</td>
<td>Break/Poster Session I</td>
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<td><strong>2:30-3:00</strong></td>
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<tr>
<td>Data Management Issues in Professional Practice and Government Agencies; Paige Novak, Patrick Brezonik; University of Minnesota - Civil Engineering Department</td>
<td>Case Studies of Ethical Issues in Engineering Practice; Paige Novak, Patrick Brezonik; University of Minnesota - Civil Engineering Department</td>
<td>Case Studies of Ethical Issues in Water Management; Paige Novak, Patrick Brezonik; University of Minnesota - Civil Engineering Department</td>
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<td>Sanitary Sewer Headspace Ventilation Dynamics and Foul Air Treatment Basics; Mark Smith, Brown &amp; Caldwell</td>
<td>How Low Can You Go? Lessons Learned from Milwaukee Metropolitan Sewerage District's Flow Evaluations of the Private Property Infiltration/Inflow Reduction Program; Julie McNullin, Andrew Lukas; Brown and Caldwell, Jerome Flogel; Milwaukee Metropolitan Sewerage District</td>
<td>Condition Assessment - a Foundation for Asset Management; David Koch, Black &amp; Veatch</td>
<td>Applying Commercial Energy Conservation Measures at Wastewater Treatment Plants; Tony Kriel, SCS Engineers</td>
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*Speakers' names listed in bold type.*
**Wednesday May 14, 2014 - 9:00-11:30 AM (Break 10:00 - 10:30)**

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<thead>
<tr>
<th>Session I</th>
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<th>Session L</th>
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<tr>
<td><strong>State Suites I &amp; II</strong></td>
<td><strong>Governor's Suites II &amp; III</strong></td>
<td><strong>Governor's Suites IV</strong></td>
<td><strong>Governor's Suites I &amp; V</strong></td>
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<td><strong>Watershed</strong></td>
<td><strong>Low Level Nutrient Removal</strong></td>
<td><strong>Biogas</strong></td>
<td><strong>Utility Management/Energy</strong></td>
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<tr>
<td>Moderator: Andy Bradshaw</td>
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<td>Young Professionals Moderator: Matt Streicher</td>
<td>YP Moderator: Jeremy Bril</td>
<td>YP Moderator: Adam Klaas</td>
<td>YP Moderator: Mike Holland</td>
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9:00-9:30  Can Adaptive Management Work for the Lower Fox River?; Nick Vande Hey; McMahon

9:30-10:00  Student Competition Paper

10:00-10:30  Break/Poster Session II

10:30-11:00  Approaches for Developing Site-Specific Nutrient Goals, Criteria and Management Plans; Dave Dils, Hans Holmberg, Joe DePinto, Denny Lofton, Penelope Maskus; LimnoTech

11:00-11:30  #2 Successful Green Infrastructure Planning: A Micro-Scale Modeling and Field Investigation Approach; Hazem Gheith; Vinnie Tremante, Hunter Kelly; ARCADIS

**Wednesday May 14, 2013 - 1:45-4:00 PM (Break 2:45-3:00)**

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<thead>
<tr>
<th>Session M</th>
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<tr>
<td><strong>State Suites I &amp; II</strong></td>
<td><strong>Governor’s Suites II &amp; III</strong></td>
<td><strong>Governor’s Suites IV</strong></td>
<td><strong>Governor’s Suites I &amp; V</strong></td>
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<tr>
<td><strong>Solids Processing</strong></td>
<td><strong>Low Level Nutrient Removal</strong></td>
<td><strong>Energy</strong></td>
<td><strong>Project Management &amp; Collection</strong></td>
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1:45-2:15  Results from Investigations of Carbons, Extra-Cellular Polymeric Substances and Other Factors Proposed to Influence the Dewaterability of Anaerobically Digested Bio-P Sludge; Rebecca Alm, Adam Sealsick, Yabin Noller, Alex Koo, George Sprouse; Metropolitan Council Environmental Services

2:15-2:45  Energy Management at Milwaukee Metropolitan Sewerage District; Michael Martin, Bill Farmer, Mickie Pearsall, Tim Bat; Milwaukee Metropolitan Sewerage District

2:45-3:00  Break

3:00-3:30  Struvite Harvesting: A Utility's Perspective; Sharon Thieszen; City of Sheboygan; Leon Downing; Donohue & Associates

3:30-4:00  Membrane Thickening Aerobic Digestion Processes; Bryen Woo; Ovivo USA, LLC

**How Do I Get This Done? A Synopsis of Contractual Delivery Methods; Christopher Tippery; 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 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.

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
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.

**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

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
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, Caldwell Banker Dominical 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) or me at 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
### Attendee Registration Form

#### Full Conference Registration*:
- **Member**: $325 ______
- **Non-Member**: $375 ______
- **Retiree**: $150 ______
- **Student**: $50 ______

*Registration does not include Assoc. Luncheon or Banquet or State Section Breakfast*

#### 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.
  - **Member**: $190 ______
  - **Non-Member**: $215 ______
  - **Student**: $ 50 ______
- **Wednesday**: Includes Technical Sessions and Exhibits.
  - **Member**: $175 ______
  - **Non-Member**: $200 ______

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

#### Events:**

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<thead>
<tr>
<th>Event</th>
<th>Are YOU attending?</th>
<th># EXTRA tickets</th>
<th>Total cost</th>
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<tr>
<td>Pre-Conference Safety Workshop (Tuesday, May 12)</td>
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<td>Morning Session 8:00-12:00 (no lunch)</td>
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<td>Afternoon Session 12:00-4:00 (no lunch)</td>
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<td>Full Workshop 8:00-4:00 (includes lunch)</td>
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<td>Golf Outing (Monday, May 12)</td>
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<td>Leadership Academy (Monday, May 12)</td>
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<tr>
<td>5K Run/Walk (Tuesday, May 13)</td>
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<td>+ _____ @ $15</td>
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<tr>
<td>Tuesday Night Social Event (incl. in Full &amp; Tue. reg.)</td>
<td>Yes or No</td>
<td>@ $ 25</td>
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<tr>
<td>Thursday Plant Tour @ MCES Metro</td>
<td>Yes or No</td>
<td>no charge</td>
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</table>

#### Meals:**

<table>
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<th>Meal</th>
<th>Are YOU attending?</th>
<th># EXTRA tickets</th>
<th>Total cost</th>
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<tr>
<td>State Section Breakfast (Wednesday, May 14)</td>
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<td>Association Luncheon (Wednesday, May 14)</td>
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<td>Annual Awards Banquet (Wednesday, May 14)</td>
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<td>PLEASE CIRCLE for yourself:  Grilled Sirloin</td>
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<td>Tuscan Chicken</td>
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<tr>
<td>Farewell Breakfast (Thursday, May 15)</td>
<td>$ 30</td>
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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
  - Director Registration: $25 ______

#### Please note any special accommodations 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**:

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<th>Treated or Transported Flow</th>
<th>0 - 1 MGD</th>
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(REGISTRATION DOES NOT INCLUDE ASSOC. LUNCHEON or BANQUET or STATE SECTION BREAKFAST)

[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:

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.

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<tr>
<th>Attendee Name</th>
<th>Tue</th>
<th>Wed</th>
<th>Full</th>
<th>AM</th>
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<th>Full</th>
<th>Annual Meeting</th>
<th>Pre-Conference Workshop</th>
<th>Golf Outing</th>
<th>Leadership Academy</th>
<th>5K Run/Walk</th>
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<th>Thur Plant Tour</th>
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<th>Assoc. Luncheon</th>
<th>Awards Banquet</th>
<th>Guest Meal Choice</th>
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[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**:

<table>
<thead>
<tr>
<th>Guest Name</th>
<th>Guest Registration</th>
<th>Annual Meeting</th>
<th>Golf Outing</th>
<th>5K Run/Walk</th>
<th>Assoc. Luncheon</th>
<th>Awards Banquet</th>
<th>Guest Meal Choice</th>
<th>Farewell Breakfast</th>
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[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