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Think Big. Go Beyond.
The year has gone by in a blink of an eye. A lot has gone on this past year. We have seen changes in our economy and even signs that the stalled housing market may actually be loosening. This would be great for all those facilities that had completed upgrades just in time to have the number of new connections stall and make it very difficult to meet the financial obligations related to their very construction.

The association continues to look for ways to attract and retain members. The baby boomer mass retirements will be increasing in the next few years, leaving us to wonder who will step up and lead the next round of battles to protect our water quality and provide innovations to improve the performance of our systems.

Speaking of improving our systems – I would like to take one last push to get more people involved in presenting at our annual conferences. This past year I had hoped to lure more operations, collection, maintenance, lab and young engineers into participating in our Annual Conference. But, while we have a very nice selection of topics for our conference – there is a gap in the topics that I had hoped would assist us in getting more YPs to the sessions. I know they are out there. I am challenging our membership to put together more sessions that will allow our YPs to become more involved with this association.

If you haven’t already received your Annual Conference notice – please check out the website for the advanced information and registration materials. Jason Benson and his committee have assembled a wide variety of technical presentations and the keynote and farewell breakfast speakers should provide a little different perspective on issues we face. The vendors session will cover both Tuesday and Wednesday of the conference and I ask that all who attend make it a point to visit as many booths as possible and to thank the vendors for their continued support of the association. Without their support, much of the activities of Central States WEA would not be possible.

Those who wish to come a little early and enjoy the social activities will be pleased to find that Greg Guerrero has lined up a truly “up north” golf outing. Patti Craddock has lined up the 5K walk/run and Rick Ashling is heading up the sporting clay event. We also have enlisted some of the students from St. Cloud Technical College to assist with AV and the social event on Tuesday night. Make sure you practice up your singing talents as the banquet entertainment will feature the ever popular karaoke. The farewell breakfast will also take a look at the Minnesota Boundary Waters through the eyes of one of our members who has had a great deal of time in a canoe in the true north woods.

I often have the opportunity to remind officers in another organization that I am involved with – at how fast the year goes by and when you just get a feel for how things can get done – your term is up. It does just seem like a couple of weeks ago we were in Madison and I had just taken over for Rusty in this office. Now in only a matter of weeks – I will be handing over the gavel to Beth.

I have had a lot of life experiences through the involvement with Central States. I have been in earthquakes in San Francisco. In Washington D.C. when the government shut down, left New Orleans just prior to a major hurricane, got a very good recipe from Tom Bunker on how to handle water from Lake Michigan that may have a little Guardia in it. Met a lot of people that I have been fortunate enough to call friends. I hope that you all take a little time to reflect on your own career and continue to seek ways to improve our organization and environment. There will be a lot of our younger members taking on more responsible positions in our industry in the coming years. Let’s make sure they have the resources and knowledge to keep our environment safe.

“I hope that you all take a little time to reflect on your own career and continue to seek ways to improve our organization and environment.”
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For years we in the water and wastewater industry, and in particular all workers associated with facility operations at every level, have complained about the lack of understanding of the importance of our role as public employees. We have been in the background, acknowledged only by those who have an understanding of the importance of our roles in protecting public health and either dismissed or somewhat disdained by the unenlightened. Rather than being relegated to the back seat of the public service hierarchy, behind public safety heroes, teachers and when it snows, snow plow drivers, we have made some feeble attempts to enhance the public’s perception of our roles as environmental stewards and protectors of the public’s health. We’ve had a committee here or there to enhance our profession’s public perception or to at least elevate it from the public consciousness of The Honeymooners’ Norton representing all wastewater professionals. By and large, water and wastewater professionals are a secure bunch, with ample self-esteem, or at least enough not to be crushed by the “turd herder” moniker issued by that annoying brother-in-law at Thanksgiving dinner.

But things are changing, and changing for the worse. Public employees are under attack and blamed for the economic woes in states throughout the nation, including our own three states that comprise Central States. We have the misfortune of working and living in some of the states with the biggest fiscal problems, as well as in a nation that is struggling to recover from a cataclysmic recession and historic national debt. While I make it a policy not to discuss politics in my column and respect the wide range of political leanings of our diverse members, I find that all of our members who fall into that now highly despised role of public employees are under attack and blamed for huge budget deficits at the state and national level. Some states have taken, or will take action to outlaw collective bargaining agreements and unions. Others are threatening to strip public employees, many of whom have toiled for years and are either collecting pensions or nearing the promised land of a comfortable retirement and a secure pension, of those pension benefits. States, primarily politicians, who have not fulfilled the obligations of properly funding legally and ethically established pensions funds, and in some cases have robbed those very same public employee pension funds, are now blaming the public sector employees for earning those pensions.

(Continued on page 10)
Folks, we truly face a difficult economic time, and tough choices must be made, no doubt, but what is unconscionable is for those who, against better judgment and whose self-interest runs only to the next election, to blame the victims of their mis-management for the crisis of their making. Not a moment goes by when one is not confronted by a talking head or blustering politician complaining about the “high pay” and “ungodly pensions” awarded to teachers, state, municipal, and other public workers. (Not so much about police and firefighters, but even for them there are proposals to raise the retirement age of a firefighter to 67, one has to wonder about the success of being rescued from a burning structure by an aged or elderly firefighter.)

Some of our friends in Washington are beating the drum to change the law and allow states to declare bankruptcy. I am a management guy, have been for most of my life, but an obvious move like allowing states to declare bankruptcy clearly is intended to relieve states of collective bargaining agreements with which they entered with eyes wide open. And to raid or dissolve pension funds, rather than continue to fund them as is often required within a state’s constitution to solve budget shortfalls is an attack on public employees.

As Americans, each of us has been encouraged to make the most of our opportunities, to become as successful as our skills and character allows, in short living the American dream. As public sector employees, we have done just that, while serving the public to ensure that their lives are safe from disease and have the convenience of safe drinking water delivered under pressure to any fixture in their home. When the public is finished with that water, it goes away, never to be thought of again. During times of a strong economy, we toiled knowing that our brethren in the private sector in similar positions of responsibility were often better compensated and received a nice bonus. Like me, my guess is that many of you chose to pursue your public sector jobs, not for the glamour, or accolades, but for the security of steady employment and the promise of a secure retirement with a secure pension, and to serve the better good.

We public workers do not deserve to be attacked and characterized as “lazy, slovenly, bumbling and unqualified, overpaid workers feeding from the public trough.” Our roles throughout history and well into the future is one of providing for public health and protecting the environment. As long as those services are desired, well trained and highly dedicated professionals in both the public and private sector, will be needed to operate our facilities efficiently, and as always doing more with less to ensure that those services are successfully delivered. Be strong and be proud. Public workers at all levels are the unsung heroes of our society. Let’s hope our status is restored to “unsung” from our current “scorned” status. CS
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The 2011 MWIE held at the Kalahari on February 8-9, 2011 was an exceptional event with an excellent turn out of over 400 operators visiting 89 exhibitors. All in attendance had a great time with plenty of activities going on to keep things interesting. Classroom sessions were jammed as water and wastewater operators were able to learn about the latest technology from highly knowledgeable speakers. New for 2011, in addition to classroom sessions were booth-side exhibitor talks, easily located with the blue light spinning high above the highlighted booth. Another popular attraction was the Wii competition which ran through each day with those participating earning a chance to win the Wii game via a raffle at the end of each day. It was great fun and several committee members were seen honing their skills throughout the day. Tuesday evening boasted the second annual YP Sponsored Bowling Party with a large contingent of MWIE attendees and exhibitors participating. If you missed MWIE 2011, you missed a great time, the opportunity to learn plenty about new technology and the chance to visit some of the leading equipment and services suppliers in the three-state area. You will not want to miss MWIE 2012! Mark your calendars now; MWIE 2012 will be February 7-8, 2012.
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PATTI CRADDOCK
SECOND VICE PRESIDENT NOMINEE

Patti Craddock has been nominated for the position of 2nd Vice President of the Central States Water Environment Association (CSWEA). Patti has been an active member of CSWEA since 1993, and has provided service to the organization through a variety of activities. Patti was the MN Section Trustee from 2008-10 and the MN Section Chair in 2005. She has served on the past six local arrangements committees for the CSWEA Annual Meeting and as Co-Chair and committee member for the Conference on the Environment. Patti’s interest in engaging the public to understand our water infrastructure systems and our future generation of water quality professionals is demonstrated through her CSWEA Public Education Committee service for 18 years.

Patti has a bachelor’s degree in biology and environmental studies from Macalester College and a masters of science in civil engineering (environmental engineering focus) from Texas A&M University. She is a senior project manager at Short Elliott Hendrickson (SEH), St. Paul, Minnesota, providing public and private clients wastewater and water facility/infrastructure services. Prior to joining SEH, Patti operated a sole-proprietor engineering firm for seven years, and was employed by CDM and MWH. Her more than 20 years of experience has involved all phases of project delivery with an emphasis on the front-end development of system needs and integrated planning of water infrastructure systems.

DOUG HENRICHSEN
TREASURER NOMINEE

Doug Henrichsen has been nominated for a second term in the position of Treasurer for CSWEA. Doug has been an active member of CSWEA, and started his involvement serving on the General Awards Committee, followed by serving as the MN Section S&YP chair. Doug then served as the Local Arrangements Committee chair for the 81st Annual Conference. He then served as the MN Section Chair and Past-Chair prior to be elected treasurer of CSWEA for 2009-2010.

Doug received a bachelor of science degree in civil engineering with an emphasis in construction management from the University of Wyoming. He then received a master of science degree in civil/environmental engineering from Iowa State University. Doug works for Brown and Caldwell in their St. Paul office as a supervising engineer serving municipal wastewater clients in the Midwest. He has approximately 23 years of experience in civil/environmental engineering working on all types of projects, including the planning, evaluation, design and construction of municipal treatment and conveyance facilities. Doug is also a diplomate of the American Academy of Environmental Engineers (AAEE) and a certified Project Manager Professional with the Project Management Institute (PMI).

JEFF MAYOU
PWO REPRESENTATIVE NOMINEE

Jeff is the Lab Technician/Industrial Pretreatment Coordinator with the Wastewater Utility at the City of Marinette, where he has been employed since 1989. Jeff is responsible for laboratory QA/QC, coordinating all lab activities, updates, training new personnel, and submission of WDNR electronic reports. Jeff is also responsible for the utilities Industrial Pretreatment Program including the performance of surveillance monitoring, inspections, and permit writing. The program currently includes five categorical and two significant industrial users that discharge from over fifty individual sample points. Jeff has also administered the utilities mercury reduction program since 1998 fostering the use of non-mercury devices while collecting over 15,000 mercury containing fluorescent tubes and bulbs, 300lbs elemental mercury, 1000 plus mercury containing devices, and in cooperation with local hospitals, schools, and dental facilities eliminated/reduced the use of mercury and mercury containing devices and discharges.

Jeff’s professional memberships and committees include WWOA member since 1991, Vice Chair WWOA Lake Michigan District 2006, Chair WWOA Lake Michigan District 2007, and WI Government Affairs Committee 2006. Jeff has also been an active member of CSWEA since 2006 while participating on the Operations Challenge teams for four years with two of those serving as Team Captain. Jeff feels with his past experience on the Operations Challenge teams, and his professional experience, he will provide great leadership for the association’s operators and will be a great addition to the CSWEA Executive Committee.

RALPH (RUSTY) SCHROEDEL
WEF DELEGATE NOMINEE

Rusty Schroedel has been nominated for the position of Central States Water Environment Association Water Environment Federation (WEF) Delegate. Rusty has been an active Central States member for 35 years and has served on a variety of state section and association committees including chairing the Wisconsin Section and the Section Gov-
ernment Affairs Committee. At the association level, he served for years on the Technical Program Committee, including as chair, and was on several local arrangements committees. More recently, he is completing his term as past-president of the association. Rusty is also active in the Water Environment Federation, chairing, authoring, or assisting with several manuals of practice and is currently the WEF Awards Committee Chair.

Rusty received his bachelor of science in civil engineering from Washington University in St. Louis and his master’s degree in environmental engineering from Northwestern University in Evanston, Illinois. He is currently the Midwest Region Wastewater Market Sector Leader for AECOM and is based in Sheboygan, Wisconsin. Rusty is a licensed professional engineer in seven states and board-certified environmental engineer through the American Academy of Environmental Engineers. He has worked for AECOM (including under legacy company names) for 35 years. During his career, Rusty has worked on projects nationwide and several foreign projects. He specializes in wastewater treatment plant studies, design, and construction, including specialized interest in wastewater storage, headworks, and anaerobic digestion.

**GOOD LUCK TO ALL CSWEA OFFICER NOMINEES**

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Chomonix Golf Course offers a true “north woods” experience just minutes north of Brooklyn Park, the site of this year’s conference center and hotel. Chomonix Golf Course is located at Rice Creek Chain of Lakes Regional Park Reserve, and offers a true challenge to golfers of all abilities. Mature tree-lined fairways, water hazards on seven holes, and abundant wildlife make Chomonix a great golf adventure. The course has a 72.2 rating, 129 slope and has a length of 6,600 yards. Cost is $75, registration starts at 12:30 p.m. with a shotgun start at 1:30 p.m.

Prizes will be awarded at the Meet and Greet, so please join us as we enjoy networking, laughs and maybe a story or two. For more information contact Greg Guerrero at 218-730-4058.

**Meet and Greet**
6:00-9:00 p.m.
Renew old friendships and meet new faces on Monday night in the Minnesota Room. Refreshments and light snacks will be provided and awards for the Golf Outing will be announced.

**TUESDAY, MAY 17, 2011**

5K Run/Walk
6:45-8:30 a.m.
Meet in hotel lobby.

**Opening Session**
9:00-10:00 a.m.
Minnesota Room

Conference Welcome
9:00-9:05 a.m.
Jim Miller, CSWEA President

**Keynote Address**
9:05-10:00 a.m.
Cindy Hagley, Minnesota SeaGrant, Environmental Quality Extension Educator

With two other colleagues, Hagley presented a workshop for civic leaders and local government managers teaching them to play the Great Lakes Watershed game, last year in Duluth. The game is a learning tool to be used with citizens who will be making land use decisions that affect Minnesota watersheds. Hagley will presented GLOS mapping workshops, and excursions on Lake Superior with the COSEE-Great Lakes workshops for teachers. Hagley also participated in the Tall Ships Event, bringing water quality outreach to those who attended. Previously, Hagley led teachers on a seven-day excursion to learn about Lake Superior from the deck of the Lake Guardian, an EPA vessel, as part of COSEE-Great Lakes. COSEE-Great Lakes is the Center for Ocean Sciences Education Excellence [summer 2009]. Hagley facilitated a Soil and Water Conservation Society business meeting during the Minnesota Invasive Species Conference 2008. Hagley, along with Jesse Schomberg, coastal communities educator, and Sue O’Halloran, University of Wisconsin-
Superior, received a $26,700 grant from Minnesota’s Lake Superior Coastal Program for View From the Lake: Expanded Outreach Through K12 Curricula, the Web, and Sustainability Programming. A longtime member of the St. Louis River Citizen Access Committee, Hagley serves on its Stewardship Committee. She was awarded their Environmental Stewardship Award in 2007. She participated in the Lake Access, an Empact Metro Project, providing real-time environmental information for cities across the nation.

**Technical Sessions**

10:15-11:45 a.m.
1:30-4:30 p.m.

There will be three (3) concurrent Technical Sessions A, B & C from 10:15 to 11:45 and D, E & F from 1:30 to 4:30 in the Conference Center.

**Exhibits/Sponsors**

Northland Ballroom
11:00 a.m.-6:00 p.m.
Exhibits showcasing the latest technology in wastewater, collection, treatment and monitoring equipment and other related services will be on display. Vendor talks will be scheduled during the day, see schedule as posted.

Lunch 12:00-1:00 p.m.
Lunch will be provided for conference participants in the exhibit hall.

**Vendor Talk Presentations**

1:00-6:00 p.m.
Exhibits will be provided by several companies along with several special vendor talks.

**Exhibitor Reception**

4:30-6:00 p.m.
Light snacks and beverages will be provided. Please stop and talk to the exhibitors and thank them for attending this year’s CSWEA Annual Meeting.

**Tuesday Night Social Event**

Northland Inn, Foyer
6:30-9:00 p.m.

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**WEDNESDAY, MAY 18, 2011**

**State Section Breakfa**

Northland Inn
7:30-9:00 a.m.
Please come to your respective state section meeting that will be conducted at the Northland Inn. A buffet breakfast will be served. Find out what your state section and committees are doing and how you can be involved. We welcome new faces and new ideas, so all CSWEA members are encouraged to attend.

**Exhibits/Sponsors**

9:00-11:45 a.m.
Exhibits showcasing the latest technology in wastewater, collection, treatment and monitoring equipment and other related services will be on display. Vendor talks will be scheduled during the day, see schedule as posted.

**Technical Sessions**

9:30-11:30 a.m. and 1:45-4:00 p.m.
There will be three (3) concurrent sessions in the morning G, H, & J from 9:30 to 11:30 and K, L & M from 1:45 to 4:00 p.m. in the Convention Center.

**CSWEA Association Luncheon**

Minnesota Room
12:00-1:30 p.m.
Our WEF Visitor, Ed McCormick will discuss the latest news from WEF Headquarters as well as the many challenges facing our profession. Specific recognitions will include the Golden Manhole Award Induction ceremony and the introduction of the new 75’s. Applaud these members as they come up front to recognize their worthiness of belonging to these prestigious and select groups. The luncheon will conclude with introduction of the 2010 Operation Challenge teams.

**CSWEA Annual Business Meeting**

Longfellow Room
4:15-5:00 p.m.
The Annual Business Meeting includes the association, section and committee reports, election of officers, and a vote on the proposed dues increase.

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**Annual Awards Banquet and Entertainment**

Minnesota Room
6:00-9:30 p.m.
Please join us for the Annual Awards Banquet and Entertainment. Social Hour begins at 6:00 p.m., with light music, followed by dinner at 7:00 p.m. Awards will be presented after dinner. Immediately after the award presentation, Uncle Rico and Jason will entertain you with their special variety of karaoke.

**THURSDAY, MAY 19, 2011**

**Farewell Breakfast**

Minnesota Room
8:30-10:00 a.m.
Join your colleagues one more time for an interesting presentation on our relationship with the water environment and northern Minnesota by Chris Kleist.

Chris Kleist was born and raised in Ely, Minnesota on the doorstep of the Boundary Waters Canoe Area. He spent much of his childhood fishing and camping in the lakes and wilderness areas along the Minnesota/Ontario border with his family and joined his father (a fishing guide) on hundreds of trips. Chris guided his first fishing trip at age nine and by the age of 16 he was guiding professionally. Chris owned his own business as a full-service guide and outfitter in Ely. He ran the business for 14 years before finally hanging up the canoe paddle to spend more time with his family and two young children. Chris now works for the City of Duluth, Minnesota as a project coordinator where he focuses on helping Duluth maintain its exceptionally high-quality water. Chris’ outdoors background and utility operations experience give him a unique perspective on the delicate balance of the protection of water quality with the importance of enjoying our natural resources. His presentation is a blend of Boundary Waters history, conservation messages, and entertaining fishing stories.
Ed McCormick is a member of the 2010-2011 Board of Trustees for the Water Environment Federation (WEF), an international organization of water quality professionals headquartered in Alexandria, VA.

He is currently Manager of Wastewater Engineering at the East Bay Municipal Utility District (EBMUD) in Oakland, Calif., where he has worked for over 25 years following five years in the private sector. In this role, he is responsible for EBMUD’s wastewater capital program, planning, engineering, construction, energy management, information systems, and public outreach. Ed spearheaded the creation of the California Association of Sanitation Agencies’ (CASA) Biosolids Program, California’s first statewide biosolids management advocacy program, and pioneered the first-ever large scale Food Waste-to-Energy Project at a U.S. wastewater treatment plant, winning U.S. EPA Region 9’s 2006 Environmental Achievement Award. Ed was also Project Manager of the landmark West Coast Benchmarking Study of seven major wastewater agencies totaling over 10 million customers.

A member of WEF since 1997, Ed has served on the Federation’s House of Delegates and as the Chair and Vice-Chair of the WEF Utility Management Committee, as well as Vice Chair of the Long Range Planning Committee. In addition, Ed chaired WEF’s Peer Review Committee for the Assessment of Reconstruction Costs and Debt Management for Wastewater Utilities Affected by Hurricane Katrina report that was published in 2006 and presented to Congress.

Ed is also a member of the California Water Environment Association (CWEA), the San Francisco section of CWEA, and the WateReuse Association. In addition, he has served as the Land Issues Committee Chair for CASA and actively participates in various project leadership roles for the National Association of Clean Water Agencies (NACWA), including as a Steering Committee member for the Effective Utility Management Program.

He is the recipient of the American Society of Civil Engineers’ Construction Manager of the Year Award (1996), JFK University’s Award for Outstanding Leadership in Management (1989), and EBMUD’s Management Excellence Award (2005).

Ed is a licensed Civil Engineer in the State of California, a Certified Value Engineer, and a trained WEF/AWWA QualServe Peer Reviewer, having performed peer reviews for agencies including Guam Water Works and the Columbus Water Works in Georgia. He holds a B.S. in civil engineering from the University of Massachusetts, a M.S. in sanitary engineering from the University of California at Berkeley, and an M.S. in public administration from JFK University.
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TECHNICAL PROGRAM

TUESDAY, MAY 17, 2011

SESSION A: Your Mileage May Vary: Limits of P Removal
Moderator: Pavel Hajda
10:15-10:45 Low Effluent Phosphorus Fundamentals and Achievable Limits in Practice, Jim Fisher, CH2M Hill
10:45-11:15 Recalcitrant Phosphorus Drives the Limits of Phosphorus Removal at WWTP, Cory Lancaster, CDM
11:15-11:45 Exploring the Limits of Chemical Phosphorus Removal, Katherine Bell, CDM

SESSION B: Anaerobic Digestion Research
Moderator: Trevor Ghylin
10:15-10:45 Staged Anaerobic Digestion Increases Methanogenic Activity and Alters Microbial Community Structure, Ben Bocher, Marquette University
10:45-11:15 Foaming Phenomenon in Bench Scale Anaerobic Digesters, Amanda Siebels, Wisconsin State Laboratory of Hygiene
11:15-11:45 Anaerobic Co-Digestion of Raw and Pre-Treated Bioplastic for Increased Biogas Production, Paige Peters Marquette University

SESSION C: Reducing Energy Usage Today
Moderator: Rick Manner
10:15-10:45 Cannot Wait 10 Years Anymore: Newer Technology Offers Substantial Energy Savings Now, Christopher Buckley, Baxter & Woodman Consulting Engineers
10:45-11:15 Jones Island Energy Savings Through Aeration System Upgrade, Kathleen Zino HNTB
11:15-11:45 Case Study: Strategies to Reduce Energy at a Bio-P Plant, Laura Fletcher, MCES

SESSION D: Translating Regulations into English
Moderator: Rick Manner
1:30-2:00 Options for Avoiding, Delaying, or Implementing a Total Maximum Daily Load, Jane Carlson, Strand Associates, Inc.
2:00-2:30 Addressing Phosphorus Impairments – TMDL Development for the Rock River Basin, WI, Dan Bounds, CDM
2:30-3:00 Nutrient Criteria Development in Wisconsin, Minnesota, and Illinois, Implementation and Management Options, Brandon Kolz, Symbiont
3:00-3:30 Break
3:30-4:00 Plain English Guide to the New Wisconsin Phosphorus Regulations, James Kleinschmidt, Donohue & Associates
4:00-4:30 Water Quality Credit Trading: National Experience and Applications in Wisconsin and Other Central States, Brent Brown, CH2M Hill

SESSION E: BNR/Greenhouse Gases
Moderator: Steve Reusser
1:30-2:00 Is There a Happy Medium for Nutrient Removal and Sustainability, Michael Falk, HDR
2:00-2:30 Assessing Broader Environmental Implications of Meeting Low Nutrient Limits Using Life Cycle Assessments (LCA), Andrew Shaw, Black & Veatch
2:30-3:00 Mitigating Risk: The Increasing Importance of Methanol in BNR Wastewater Treatment, Scott Schaefter, AE2S
3:00-3:30 Break
3:30-4:00 Getting to Zero: Sustainability Best Practices to Significantly Reduce Greenhouse Gas and Energy at Your Wastewater Facility, David Reardon, HDR
4:00-4:30 Holy Greenhouse Gases Batman!!, Emily Wehmeyer, Donohue & Associates

SESSION F: Class A Biosolids/ Wet Weather Issues
Moderator: Tracy Hodel
1:30-2:00 Beneficial Reuse of Fly Ash as a Replacement for Lime in the Alkaline Stabilization of Biosolids for Class A Exceptional Quality Sludge in Wisconsin, Kris August /Dean Zanon/Steve Lepak, Robert E. Lee Associates Inc.
2:00 – 2:30 Why Stop at Class A? DC Water’s Biosolids Upgrade with Class A Biosolids, and Combined Heat and Power Systems, William Krill, Brown and Caldwell
2:30-3:00 Biosolids Reduction for Class A Results, Sherri Westphal, Thermal Process Systems
3:00-3:30 Break
3:30-4:00 Identifying Low Cost Opportunities to Increase Wet Weather Plant Capacity, Greg Baker/John Siczka, CH2M Hill
4:00-4:30 Plans Come True – New Infrastructure Reduces SSOs and Provides Capacity for Growth in the City of Fargo, ND, Eric Dodds, AE2S

WEDNESDAY, MAY 18, 2011

SESSION G: Water Reuse/Odor Control
Moderator: William Boyle
9:00-9:30 Water Reuse in the Upper Midwest, Patti Craggock, Craggock Consulting Engineers
9:30-10:00 City of St. Anthony Water Reuse Facility, Kevin Newman, WSB & Associates
10:00-10:30 Break
10:30-11:00 Biological Air Pollution Control
at Gravity Thickeners at the Metropolitan Wastewater Treatment Plant, St. Paul, MN, Mark Gould, CDM

11:00-11:30 Sustainability Comparison of Activated Carbon and Biofilter Bed Systems for Sewage Odor Control, Mark Ludwigson, University Wisconsin-Milwaukee

SESSION H: Collection System
Moderator: Tracy Hodel

9:00-9:30 Condition Assessment: Keys to Successful Sewer Rehabilitation, Byron Livingston, Black & Veatch

9:30-10:00 Manhole Assessment Condition Program (MACP) Provides Framework for a Comprehensive Manhole Rehabilitation Program, Andrew Craven/Randy Langer, Strand Associates, Inc.

10:00-10:30 Break

10:30-11:00 Asset Management at the WLSSD: A Condition – Criticality Based Approach Supporting Collection System CMOM Programs, Carrie Clement/Doug Youngblood, WLSSD/CDM

11:00-11:30 Cedar Rapids Main Interceptor CIPP & Segmental Slipliner Rehabilitation, Dave Dechant, HDR

SESSION J: Innovative Solutions
Moderator: Pavel Hajda

9:00-9:30 Observations from the Empire WWTP on the Need for Better Prediction Methods for Thickened Wastewater Activated Sludge Headloss Characteristics, George Sprouse, MCES

9:30-10:00 Innovation in Wastewater Side Stream Treatment, Don Esping, Brown and Caldwell

10:00-10:30 Break

10:30-11:00 Complex Cogen Analysis Deserves Simplex Solution, Steve Reusser, Madison Metropolitan Sewerage District

11:00-11:30 Commissioning Plan for Seeding a Remote Activated Sludge Plant with RBC Biomass using Biowin Modeling, Ken Sedmak, Donohue & Associates

1:45-4:00 p.m. (Break 2:45-3:00)

SESSION K: P Optimization
Moderator: Trevor Ghylin

1:45-2:15 Promoting Phosphorus Release from Waste Activated Sludge (WAS), Alan Grooms, Madison Metropolitan Sewerage District

2:15-2:45 BNR Enhancement, Greg Paul/Dr. Steve Freeman, Quality Liquid Feeds

2:45-3:00 Break

3:00-3:30 Wastes or Resources? The Milwaukee Metropolitan Sewerage District’s Journey Continues, Dennis Deen, Donohue & Associates

3:30-4:00 Feasibility of and Energy Recovery from Anaerobic Digestion of Food Processing and Agricultural Wastes, Susan Danzl, SEH Inc.

SESSION L: Sustainability
Moderator: Jason Benson

1:45-2:15 Peeling Back the Onion: A Sustainable Solution, Malarmagal Perinpanayagam, HDR

2:15-2:45 Dane County Biogas Vehicle Fueling Pilot Project – A Case History, Tony Schiling, Unison Solutions

2:45-3:00 Break

3:00-3:30 Preservation of Voyageur’s National Park Through Sustainable Wastewater Treatment, Dustin Mass, SEH Inc.

3:30-4:00 Enhanced Wetlands Treatment of Non-Point Sources: A Sustainable and Cost Effective Alternative Approach to Meet Increasingly Stringent Phosphorus Limits, Stephan Burgos, Brown and Caldwell

SESSION M: Design Issues and Student Competition Winners
Moderator: Steve Reusser

1:45-2:15 Cost-Effective and Reliable Implementation BPR – The Devil Is In The Details, Ben Clapp, Black & Veatch


2:45-3:00 Break

3:00-3:30 Student Competition Paper

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The Ad Hoc Committee on Anaerobic Digester Foaming was reformed in 2011 to continue to explore and identify the extent, causes, and solutions to digester foam problems. The group has been building on the excellent work accomplished last year by the former digester foaming group under the leadership of Jeff Brochtrup of the Madison Metropolitan Sewerage District. For this year, the group is conducting a new survey of wastewater treatment plants to continue to gather data on causes and solutions to anaerobic digester foaming. It is hoped that information regarding type of digester mixing, digester loading, and other plant operations will be related to digester foaming occurrence, severity and mitigation. An electronic survey will be distributed to select treatment plants by early March. Please take time to respond, even if you don’t experience digester foaming, since the data will be very helpful to others experiencing foaming problems.

A digester foaming workshop is being planned to be held on or about April 20, 2011 in Madison, WI, with possible web conferencing to a location in Minneapolis, MN. The half-day workshop will be similar to the digester foaming workshop held last spring in Madison, WI. The 2011 workshop will be structured so that plant operators along with designers and others can share data, experiences and solutions to digester foaming problems through informal breakout discussions.

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Join your colleagues to discuss practices and strategies that advance the sustainable approach to the energy-water nexus and improve our energy profile. Technical presentations will be complimented by open discussions to examine research, design, approaches, strategies, and operational issues.

Whether you’re managing a team, a growing family, you live alone or anywhere in between, your health and safety should be at the heart of your mission of providing the wisdom and tools for your employees and family to be happier and enjoy life more.

What you do every day can affect the health and safety of your loved ones, especially what you bring home from the market. I’m not talking about food here. When the word safety is involved, we’re not only talking about the physical safety of those we know. What I mean is what products you use to care for yourself, and how you care for your loved ones. I’m talking about caring, protecting and providing the means by which to keep yourself, and your family safe and free of harm.

Keeping yourself and your family safe and healthy at home can be tricky at times, especially with all the toxic products available on the market that look so familiar and helpful. Most people think that everything purchased at the supermarket protects them with the approval of some government agency or consumer protection group. This is not necessarily the case. Manufacturers are not required to list the exact ingredients on the label in all cases.

These chemical names are often listed as trade names, so you really don’t know what it is you’re getting. Even if a chemical is found to be harmful, it may take a very long time for that fact to be exposed. When a product has a very small amount of some harmful chemical in it, do you really want it in your home, or consumed by your loved ones? When you research these products you will get so much more in terms of health, safety, and education that you will never look back.

So how about your workplace? Ever wonder if your efforts to promote wellness on your staff are in vain? If so, take heart. It seems employers could be much more influential than they realize when it comes to motivating employees to make healthy lifestyle changes. What’s more, that position can be powerful enough to affect not just employees, but those employees’ families, as well.

The implications are derived from a study conducted by the IBM Corporation, which offered a small incentive to participants whose families agreed to become committed to certain lifestyle goals such as less TV time, more physical activity, and healthy eating. Out of 22,000 employees who signed on to participate in the program, 12,000 (55%) participated and received the incentive.

To effect change not just among your staff members, but among their families as well, is a lofty goal, but one that’s within your grasp. Often people will do for their loved ones what they might be less inclined to do for themselves. Touting the benefits of healthy lifestyle changes may carry more weight when you call attention to ways in which people can help their spouses, children, parents, and friends.
While you seek to build a staff that prioritizes good health, suggest ways that your employees can involve their families in efforts to achieve their health goals. Here are a few ideas:

- **Family meals:** Find new and healthy recipes, and make dinner a group effort. Get the kids into the kitchen to help with some of the prep work and to get them interested in nutritious foods. The time spent together will be just as rewarding as the tasty end result.

- **Family walks:** After that healthy dinner, go for a brisk walk around the block, or take the dog to the park for a rousing game of fetch. Kids and adults alike are likely to shake off any negative connotations of exercise when they’re having fun doing it. Get everyone a pedometer and have a friendly family competition to see who the top walker of the day is.

Additionally, our friends and work associates have an impact on our health as well. Peer pressure doesn’t end when adolescence does. The influence of friends, family, and coworkers on individuals is getting a closer look thanks to something called Network Science. A study of social behavior by the University of Ohio sheds some light on how relationships can promote good health. Its results found it logical that if friends can lead each other to engage in unhealthy behaviors, then they could also influence healthy behaviors as well.

Healthy lifestyle factors such as exercise, good nutrition, and getting enough sleep can all be encouraged and reinforced by the people around you. That’s why it’s so important to establish a culture of wellness at your agency. When healthy habits are the norm, people are more likely to act in a healthy manner instead of hitting the drive-through during lunch. Being a member of a group that is committed to health could make it easier to eat healthy, for example.

When stress rears its ugly head, your employees and agency pay the price. It doesn’t really matter if the source of your employees’ stress is work-related or not. Work worries, financial strain, personal relationship conflict, or even the holidays can distract focus, detract from productivity, and derail job performance.

And that’s just the tip of the iceberg. Chronic and severe stress can be as detrimental to the body as it is to the mind. According to Psych Central, sustained high levels of the chemicals released in the fight-or-flight response due to stress can be linked to heart problems, high blood pressure, increased susceptibility to infection, aches and pains, and diabetes.

How do you combat stress when it has such a wide range of causes? Well, for starters, understand that no one can eliminate stress completely, from the workplace or otherwise. And that’s a good thing. A certain amount of stress keeps us alert and driven.

But here are a few stress-relief methods you can share with your family and staff members, and you may help them bring it back to a manageable level:

- **Laugh:** Laughter is proven to be an effective tension reliever, so tell a joke, put in a funny movie or share some laughs with friends.

- **Pet your dog:** It releases feel-good hormones and decreases stress hormones.

- **Just breathe:** Inhale relaxing aromas, or just practice some deep breathing exercises to enrich your blood with oxygen. It can calm your whole body.

- **Take the day off:** Be with your loved ones, “veg-out”, or decrease your stress in some enjoyable activity.

So, keep up your efforts to create wellness-minded attitudes, and watch your health improve.
The Shand & Jurs Biogas Flare Control Panel is designed for complete automatic operation of the entire Flare System. Designed with the system operator in mind, the Control Panel is extremely user friendly and offers easy, efficient utility flare control. S&J’s system gives the operator much more flexibility in controlling the system with more parameters easily configured via the touch screen. The Control Panel can also be connected to a local PLC.

**Control Panel Features:**
- Integrated PLC Technology - No Relays
- Easy to Use Touch Screen Commands
- Automatic or Manually-Operated Flare Control
- Programmable On-Screen Configurations
- On-Demand Help Screen
- Enhanced Flexibility and Reliability
- Monitor Temperature, Pilot, Spark & Flashback

**On-Screen Operations:**
- Mode: Standby / Auto / Manual
- Pilot On/Off
- Pilot Valve Controls
- Flare Temperature
- Flashback Indicator
- Main Valve Controls
- Spark Control

**On-Screen Configuration:**
- Purge Time
- Proven Time Allowed
- Proven Temperature
- Lamp Test
- Retries
- Main Valve Status
- Pressure Switch Contact Delay

*“T” Series Touch Screen Controls are available on our 97300/97301 Utility Candlestick and 97310/97311 Enclosed Type Waste Gas Burners.*
Frito-Lay North America and its Beloit, WI, facility, the 2010 winner of the CSWEA’s Industrial Environmental Achievement Award, are committed to reducing their environmental footprint and promoting sustainable business practices in the community.

Frito-Lay North America is the $13 billion convenient foods business unit of PepsiCo, which is headquartered in Purchase, NY. As part of the world’s leading snack food manufacturer, the Frito-Lay Beloit facility produces LAY’S brand potato chips, FRITOS brand corn chips, CHEETOS cheese snacks and DORITOS brand tortilla chips.

The Frito-Lay Beloit facility opened in June 1973, on 15 acres of land with less than 300 associates. Over the past 35 years, there have been continuous improvements made to the facility in its Beloit Industrial Park location. New technology has increased production efficiency and improved product quality. Currently, Frito-Lay Beloit employs more than 550 associates, with more than half residing in Beloit, and more than 80% residing in the state of Wisconsin.

The Frito-Lay Beloit facility aggressively approaches its sustainability and energy conservation initiatives and continues to reduce the use of natural gas, electricity and water. Since 1999, the facility has achieved significant reductions per pound of finished product produced, including a 36% decrease in natural gas, 26% decrease in electricity and 50% decrease in water. The site’s long-term, proactive approach to resource conservation has resulted in a more than 20% reduction in greenhouse gas emissions over the last three years, all while still growing production in the Beloit facility.

One of the ways Frito-Lay Beloit achieved the natural gas milestone is through the implementation of heat recovery technology. By recovering waste heat from the tortilla chip and potato chip production lines, the facility is able to heat the entire manufacturing and warehouse operation in the winter and provide hot water for other cleaning and cooking applications.

The main factor to the site’s success is absolutely its associates. Frito-Lay Beloit associates have truly embraced the sustainability vision, and are using the best practices learned on site, at home and within the Beloit community. Through their efforts, Frito-Lay Beloit became the first site within the company’s North American operations to achieve zero landfill, which is defined as recycling or reusing more than 99% of its waste streams. And, the achievements don’t stop there.
In 2009, in recognition of its sound environmental management systems and resource conservation programs, Frito-Lay Beloit was accepted into the Wisconsin Department of Natural Resources (DNR) Green Tier program. Frito-Lay Beloit celebrated the event with DNR Secretary Matt Frank and former Governor James Doyle. The site then announced the installation of a new Cheetos production line, and the creation of more jobs at the Beloit site in the next five years. The facility also received a Clean Air Award from the governor’s office, and the Governor’s Award for Environmental Excellence, for greenhouse gas reduction project initiatives. The City of Beloit has proclaimed Frito-Lay Beloit an Eco-friendly business. In addition, Frito-Lay Beloit received a LEED Existing Building GOLD rating in the first quarter of 2010.

Frito-Lay Beloit is very pleased to be the 2010 recipient of the CSWEA Industrial Achievement Award, as it reinforces our ongoing commitment to sustainability. Frito-Lay Beloit is dedicated to minimizing its impact on the environment, while remaining a competitive business partner and employer of choice in Wisconsin.
SIMPLE FACTS ABOUT RBC’s:

1. The Walker Envirodisc has the longest successful operating history of any RBC manufactured today.

2. Surveys have indicated that the very vast majority of RBC operators are well satisfied with the RBC process at their facilities.

3. Regarding upgrades and expansions at facilities currently operating RBC’s, staying with the RBC process can save from 40-60% of the overall project cost.

4. At RBC facilities that performed upgrades and/or expansions that went with an alternate form of process, energy usage increased by as much as 50%.

5. Every unit process at a facility requires maintenance. When properly maintained, those unit processes - including RBC’s, mechanical concerns are minimized or eliminated.
A coalition of water, wastewater, conservation, agricultural, environmental and state organizations, including the Central States Water Environment Association distributed a letter (also attached) to Capitol Hill urging all Members of Congress to support practices and policies that strengthen the links between agriculture and water quality. The coalition includes organizations such as the Association of Metropolitan Water Agencies, American Water Works Association, the Association of State and Interstate Water Pollution Control Administrators, Water Environment Federation, Chesapeake Bay Foundation, Sierra Club, Northeast Midwest Institute, Environmental Defense Fund, Environmental Working Group, Sustainable Agriculture Coalition, and the National Audubon Society, among others.

“The primary focus of the letter is to encourage meaningful reductions in nutrient run-off from farmlands into the nation’s lakes, rivers and estuaries,” stated Eric Lecuyer, CSWEA Executive Director. During the 112th Congress, the Farm Bill will provide a unique opportunity to substantially improve our nation’s waters through the promotion of practices that improve the conservation performance of our farms and ranches. The coalition urges this Congress to work with us to craft a Farm Bill that better connects agricultural systems and practices to water quality improvements.

If you have any questions regarding the letter or the inclusion of water quality in the 112th Farm Bill, please contact Eric Lecuyer, CSEWA Executive Director.
SUBJECT: Water Quality and the Farm Bill

The Honorable Harry Reid  The Honorable John Boehner
Majority Leader Speaker of the House of Representatives
United States Senate United States House of Representatives
S-221 U.S. Capitol Building H-232 U.S. Capitol Building
Washington, DC 20515 Washington, DC 20515

Dear Majority Leader Reid and Speaker Boehner:

As a diverse cross-section of conservation, municipal water, state, agriculture and forest organizations, we have long recognized the relationship between the quality of our nation’s waters and agriculture practices and policies. America’s clean water and agriculture practices are inextricably linked. In fact, over the next five years agricultural practices and policies will have the single greatest impact on our lakes, rivers and estuaries.

During the 112th Congress, the Farm Bill will provide an opportunity to substantially improve our nation’s waters through the promotion of practices that improve the conservation performance of our farms and ranches. To this end, we look forward to working with you to craft a Farm Bill that better connects agricultural systems and practices to water quality improvements.

Whether you’re a fisherman, a farmer or a family in a small town or major city, clean and safe water is central to your life. America’s rich endowment of water resources has been a cornerstone of our nation’s economic success. We must develop a Farm Bill that improves both our nation’s water resources and the health of our agricultural working lands.

Again, we appreciate your early attention to this important matter and look forward to working with you on the upcoming Farm Bill. If you are interested in discussing ways in which agricultural policy can better support clean water goals, please contact Doug Siglin, Federal Affairs Director at the Chesapeake Bay Foundation, at 202-544-2232 or dsiglin@cbf.org; or Pat Sinicropi, Director of Legislative Affairs at the National Association of Clean Water Agencies, at 202-533-1823 or psinicropi@nacwa.org.

Sincerely,

National Audubon Society
National Audubon Society
National Parks Conservation Association
National Sustainable Agriculture Coalition
National Wildlife Federation
Natural Resources Defense Council
Restore America’s Estuaries
Sierra Club
Southern Environmental Law Center
World Wildlife Federation
1000 Friends of Maryland
Accokeek Foundation
Alexandria Sanitation Authority, VA
Alliance for the Great Lakes
Arlington, TX Water Utilities
Association of Ohio Metropolitan Wastewater Agencies
Avalonia Land Conservancy, Inc.
Bad River Watershed Association
Bay Area Clean Water Agencies
Beaver Water District, AR
California Association of Sanitation Agencies
California Water Environment Association
Central Contra Costa Sanitary District, Martinez, CA
Central Davis Sewer District
Central States Water Environment Association
Chesapeake Bay Foundation
Chesapeake BaySavers
Chesapeake Wildlife Heritage
Chester River Association
National Audubon Society
National Parks Conservation Association
National Sustainable Agriculture Coalition
National Wildlife Federation
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Central Davis Sewer District
Central States Water Environment Association
Chesapeake Bay Foundation
Chesapeake BaySavers
Chesapeake Wildlife Heritage
Chester River Association
City of Akron, OH Public Utilities Bureau
City of Columbus, OH Department of Public Utilities
City of Hillsboro, OR Utilities Commission
City of Rifle, CO Utility Department
City of Springfield, Missouri
City of Tulsa, OK
Colorado Watershed Assembly
Contra Costa Water District
Corsica River Conservancy
DC Environmental Network
DC Water
Delaware Nature Society
Denver Water
Des Moines Water Works
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Outcome of PHOSPHORUS Rule Implementation Webinar

Contributed by: Mark Mittag, Watershed Committee Vice-Chair

The Wisconsin Section Watershed Management Committee hosted their first ever webinar: Wisconsin’s New Phosphorus Rule (NR 217) and Watershed Management Tools to Meet Water Quality Standards. The webinar provided examples of innovative nutrient management approaches with the goal of keeping Wisconsin members informed of the potential options to achieve watershed nutrient management goals. The webinar held on November 10, 2010 was well received with an estimated 100 to 150 participants benefiting from technical presentations from the Environmental Protection Agency (EPA), Wisconsin Department of Natural Resources (WDNR), and the Central States engineering consulting community.
Ephraim King from EPA headquarters and George Azavedo from EPA Region 5 summarized the impacts EPA sees nutrients having on our watersheds nationally as well as the status of nutrient standard development closer to home here within EPA Region 5.

WDNR representative Jim Baumann contributed an update on recent developments with the phosphorus rule (NR 217) implementation. He also provided insight into WDNR efforts to evaluate watershed water quality credit trading as part of Wisconsin’s new phosphorus rule.

Lisa Bacon, a consultant with the engineering firm CH2M HILL provided an overview of watershed water quality credit trading in the US, including the geographic distribution of existing and emerging trading programs, a summary of pollutants traded and types of trading (e.g., point-point and point-nonpoint), and common issues that arise during trading program development.

Tom Dupuis, also a consultant with CH2M HILL discussed the nation’s first watershed permit authorizing trading for oxygen-demanding pollutants and thermal loads from point source discharger Clean Water Services in Oregon. Participants learned that one way the temperature trading program allows Clean Water Services to offset its thermal loads is by restoring riparian vegetation to improve stream shading that reduces nonpoint source thermal loads. The latter provides an innovative, cost-effective and highly successful example of point-nonpoint trading; including leveraging existing agricultural nonpoint and conservation programs to restore more than 30 miles of riparian stream corridors to date.

Steve Burgos a consultant with Brown and Caldwell shared how Boise, Idaho used a watershed approach to phosphorus load management to comply with a Boise River TMDL. Boise used a two-pronged approach to achieve some of the required load reduction at the WWTPs and then achieved the rest of the phosphorus load reduction by treating a large agricultural drain with an enhanced wetland treatment project. This watershed management approach included a triple bottom line sustainability evaluation on the expansion of the treatment capabilities at the WWTP.

The webinar was recorded for later viewing and is still available at http://www.cswea.org/papers/.

The Wisconsin Section Watershed Committee would like to build upon the success of this first-ever webinar and are actively looking for webinar ideas for a 2011 presentation. Webinar topics can be shared with Julie McMullin JMcMullin@browncald.com or Mark Mittag Mark.Mittag@ch2m.com, Watershed Committee Chair and Vice-Chair.

Many thanks to our excellent speakers for sharing their expertise and to the webinar organizing committee (Julie McMullin/ Brown and Caldwell, Mark Mittag/CH2M HILL, Brandon Koltz/Symbiont, John Kennedy/Green Bay MSD, and Tom Sigmund/ Green Bay MSD) for devoting their time to make this webinar a success. CSWS.
In our last issue of Central States Water, our cover story was new air emissions standards as they apply to water and wastewater facilities throughout the nation and in our central states region. These new standards could seriously impact facilities that utilize on-site power generation systems to power portions or all of their operations or for peak shaving. In many cases, digester gas is used to power engine sets associated with power generation, which clearly is a beneficial use of this otherwise wasted fuel. Recently, AWWA issued a letter to USEPA urging the reconsideration of these regulations. CSWEA and other WEF organizations have or should support this call for reconsideration of air emission standards as they apply to emergency power generation as well as the utilization of a waste steam for power generation. Below are excerpts from AWWA’s letter and all utilities involved in power generation via reciprocating internal combustion engines (RICE) are urged to review their operations and evaluate the impacts of this rule making. Drinking water and wastewater providers represent one of the 18 critical infrastructure sectors identified in the rulemaking.

“As you are aware, water and wastewater systems require substantial amounts of power to maintain the systems that ensure safe drinking water and protect our environment. In order to ensure they have the ability to continue operations in the face of a widespread power outage, many water and wastewater providers maintain standby power equipment. This helps ensure that these essential community systems are resilient, as recommended by the Department of Government Affairs Office Homeland Security. Without this standby power capacity, a water or wastewater system could be forced out of operation in the event of a power grid failure in the area. This would in turn compromise fire suppression (because water under pressure is required to operate fire hydrants and sprinklers in buildings), hospitals, sanitation, and other essential community services.

In the aftermath of Hurricane Gustav and Ike, the water sector requests for emergency power generators exceeded 300 per event. In a related matter, current planning sessions for FEMA’s 2011
National Level Exercise suggest that the expected demand for emergency generators following a New Madrid earthquake will exceed 3,500 for ‘life-saving nodes’, which includes water providers. These incidents and other experiences have offered valuable insight on the emergency management needs of the water sector.

In all instances, a lack of power significantly impairs water and/or wastewater provider’s ability to distribute safe drinking water that is so critical in the aftermath of an event for hydration, sanitation, mass care, fire suppression, etc. The disparity in power resilience is created in part by regulatory requirements that impede the installation of an affordable standby power capability. The restrictions imposed by the RICE standards have a negative impact in that they discourage a water or wastewater provider from appropriately sizing a standby generator to handle the expected power load in the event of area-wide power failure. The usage time limits and ineligibility for peak-shaving are especially problematic. In many instances peak-shaving is the only way a utility can support the investment for standby power generating capacity that would be necessary to sustain critical operations. The regulatory burdens under the proposed rule are of such significance that they may force a utility to risk its operational resilience. This is not in the best interest of the Nation and places an enormous burden on the emergency management community. Water and wastewater providers serve the entire spectrum of income levels and need to operate as cost effectively as possible to minimize the impact to lower income customers. Getting multiple economic benefits from assets such as standby generators is an important part of building disaster response capabilities in a way that is affordable to the full spectrum of customers.

The most reasonable way to minimize this risk and advance the resilience of water and wastewater providers across the nation is to allow for peak-shaving and reduce the regulatory burden for this fundamental infrastructure asset. Absent water and wastewater services, the challenges of sustaining a viable recovery and the long-term economic
The Air Emissions Compliance Matrix Follow-up

consequences quickly compound following a disaster. The water and wastewater industry understands the Agency’s mission under the Clean Air Act. However, we do not believe that the Agency has appropriately captured the life-sustaining benefits that standby generation capacity affords a community in the aftermath of a catastrophic incident. The lives and property that could be saved because water and wastewater service providers are able to maintain operations with the use of standby generators must be weighed against the consequences of increased air emissions.

Future EPA regulatory actions resulting from reviews of RICE and related standards must take into consideration the impacts on the resilience of our nation’s drinking water and wastewater providers.” (Source: AWWA’s February 4, 2011 comment letter to USEPA.)

In the case of wastewater facilities, power generation often results from the use of methane gas created in the treatment process. Were this resource no longer available for use in power generation due to RICE standards, the resource would be wasted via flaring or remain underused. Power previously harvested from the digestion wastewater stream would need to be replaced, likely through the purchase of electricity from the grid. In our region a significant amount of that electricity is produced by coal burning power generation plants.

The comment period for reconsideration of RICE emissions rules has closed and while we await the final outcome of the reconsideration of these rules, we appreciate the efforts of many, including AWWA to enlighten USEPA on the impacts of their rule making.
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As the publisher of Central States Water magazine, we at Craig Kelman & Associates have a deep appreciation for our readers and members of CSWEA whose task it is to ensure that water taken from and put back into our precious mother earth is clean and safe for the people, animals and plants whose very existence depends upon it.

To demonstrate our admiration and respect for the association, its members and the water industry as a whole, we have established a yearly educational scholarship of $500 to be funded through a percentage of advertising sales generated in Central States Water.

On behalf of the publishing professionals who form part of our team, as well as our advertisers who use the pages of Central States Water to convey their important messages, we look forward to helping a worthy individual further their education in the water industry.

Please watch coming issues for further information.
APRIL

CSWEA YP Leadership Academy
April 4, 2011
Monona Terrace
Madison, WI

16th Annual CSWEA Education Seminar
April 5, 2011
Monona Terrace
Madison, WI

CSWEA Anaerobic Digester Foaming Workshop
April 20, 2011
Madison, WI
Hosted by Strand Associates

MAY

CSWEA 84th Annual Meeting
May 16-19, 2011
Northland Inn
Brooklyn Park, MN

JUNE

WI Section CSWEA
Classic Collection System Seminar
June 9, 2011
Watertown, WI

WI Section CSWEA
Pretreatment Conference
June 15, 2011
Oshkosh, WI

IL Section CSWEA Collection System Seminar
June, 2011
Date and Location TBA

CSWEA/IWEA Government Affairs Seminar
June 2011 Naperville, IL

JULY

WEF, CSWEA, IWEA, CEE, ACEE & WERF
Energy and Water 2011
July 31-August 3, 2011
Chicago, IL

IL Section CSWEA Quarterly Business Meeting
July 2011
Date and Location TBA

WI Section CSWEA Northwoods Collection System Seminar
July 28, 2011
Marshfield, WI

CSWEA CSX 2011
July 21-22, 2011
Kalahari Resort and Conference Center
Wisconsin, Dells, WI

OCTOBER

WEFTEC 2011
October 15-20, 2011
Los Angeles, CA
Here we are in a new year, and time for another update from the Illinois Section. Before I begin, I wish to apologize to all of you for the recent snow event. Some weeks prior I was singing “let it snow, let it snow, let it snow” as part of my holiday contribution. I had no idea my musical voice was so powerful. I shall be more careful in my song selection in the future.

This will be one of my final addresses as Illinois Section Chair. It was indeed my pleasure to serve as the Section Chair. Over the coming weeks we will be electing our new leadership and conducting the hand-over at the Annual Meeting. The leadership in the Section is strong and I have every confidence in the incoming leadership’s abilities to continue to move the Section forward, providing value to each other and to the membership. As always, we are looking for new blood as we continue to build on this organization’s past and future successes.

As we continue to grapple with doing more with less, a key component will be continuing to share forums and related costs with other organizations where and when it makes sense. Pooling of resources with a shared commitment from each organization will help all build a brighter future. As we in Illinois continue to build our relationship with other professional organizations in the state, e.g. Operators Associations, I am pleased to see how each organization benefits from this shared commitment. IWEA, our sister organization in the state, and Illinois Section AWWA have very successfully hosted their joint conference in Springfield. It is these cooperative events that will help each organization or multiple organizations remain strong now and in the future.

I would also like to thank my section members for successfully hosting various workshops/seminars over the course of the past year. All were very well attended and the reviews from the participants were very positive. A lot of thought and effort goes into the planning of these workshops/seminars. As always we are looking for ideas or interests our members may have as future topics for these workshops/seminars.

Our efforts to continue to attract young professionals to our Section are ongoing. To all of you young professionals reading this message and getting ready to graduate from college or have graduated and are looking for a job, don’t despair on finding one. The current marketplace is tough, but companies are once again beginning to hire. Unlike pre-recession days when a new graduate could walk into a position (more job openings than there were graduates), the current market conditions are, as you well know, a little different. Companies are less likely to post their advertised job opening(s), but that does not mean they are not hiring or looking to hire. Now more than ever, building your network through professional organizations is one of the many keys available to find your first or next employer. As you join professional organizations for their annual conferences, workshops, seminars etc., come with the attitude that you will be meeting people who are currently working in the field(s) you want to work in. Meeting these people over coffee, lunch or dinners has the potential to be very helpful to give you leads and/or direction in helping you make this transition from student to young professional. Good luck with your search; everyone who is now a professional was once in your shoes. I know it is not easy when you read the advertisement that says looking for an engineer with 10 years’ experience, etc. My advice to you is: get out and meet your next employer by coming to our events.

With the Annual Meeting just around the corner, I will be updating you on the new Illinois Section Board and the events planned. I am looking forward to seeing you at the Annual Meeting or at some other event during the course of the year. Here to 2011 and prosperity for all.

By Eddie McCall

The News from Illinois
Another Year Wiser

By Keith Haas

Each year we are greeted with new and exciting challenges. A few years ago it seemed that biosolids was the buzz activity. Last year it was phosphorus, thermal, and ammonia issues as the Wisconsin DNR worked through new regulations, permit modifications, and enforcement issues. This year we are working to ensure that wastewater plants in Wisconsin are up to par on proper air permits in order to operate flares, boilers, engines, and micro-turbines in compliance with current air regulations. And, of course, the Rock River and Fox River TMDLs continue to challenge our engineering consultants, regulators, and permit holders.

We continue to learn about changes in our profession. The seminars that CSWEA plans each year help to keep us apprised of these new rules and regulations. It is important that we share this information with our staff, our commissions and those of our personnel who will carry the torch when we move on to greener pastures. The art of succession planning does not need to be formalized. It can be as easy as dragging someone along to the annual conference or to any one of our many seminars. It takes awhile for new recruits to learn the importance of CSWEA activities. Once they figure it out, they become a captive audience who will attend year after year.

I will be transferring the reins of the Wisconsin section to Jane Carlson of Strand following our 2011 Annual meeting in Minnesota. Jane has earned her stripes by being an active engineer and leader in Central States activities. Together with the Executive Board and Secretary-Treasurer David Arnott, the Section will be in good hands. Dave Arnott is truly the lifeblood of keeping the Section going both financially and administratively throughout the year. Thank you David for all the great work.

The Government Affairs Committee, headed by Brandon Koltz, has also had a busy year and Brandon and his committee have done a great job on keeping us active in pending legislation and rules that could adversely affect our members. Special thanks to other board members and committee chairs for providing great technical programs and keeping the Section in the forefront of emerging issues.

Other committees that are busy planning events are the Collection System Committee who are gearing up for the annual Collection System Seminars: June 9 in Watertown, WI and July 28 in Marshfield, WI. I hope that federal, state and local governments continue to find ways to put folks to work so that we can get our economy back on track. Before my tenure comes to an end, I will again encourage each of you to look for ways to increase membership and participation in this organization. Especially for those folks who I consider the lifeblood of the water and wastewater business: the operators. And remember that our various committees will need a constant supply of volunteers and torch bearers for the coming years. Increasing membership and active participation are a sure way of not only injecting new ideas into this association, but they will certainly help with our fiscal stability as well.

The February Midwest Water Industry Expo was held in the Wisconsin Dells February 8-9. This was another successful joint event with the Wisconsin Water Association. We also had another great Government Affairs Seminar in Madison on February 24. On March 22, the Section sponsored the well-regarded Spring Biosolids one-day conference – this year again in Stevens Point, Wisconsin. A YP Leadership Academy is scheduled in Madison on April 4 followed by the 16th annual CSWEA Education Seminar on April 5 in Madison. The theme this year revolves around managing biosolids in our energy-conscious world. Please note that registration information is also on the CSWEA website at www.cswea.org.

It has been a pleasure to serve you and work with you for the past year and the hopefully the years to come. I look forward to seeing everyone at the annual conference in Brooklyn Park, MN, May 16-19. Hopefully by then, spring will have sprung and renewed hope for a successful year will be upon us.

“We continue to learn about changes in our profession. The seminars that CSWEA plans each year help to keep us apprised of these new rules and regulations.”
Three-month period the goal of our subgroup and the drinking water and stormwater subgroups was to prepare a white paper describing the key issues that needed to be addressed in order to develop a long-term sustainable domestic water use policy in Minnesota.

The directors of the project had expertly crafted a work plan to guide our team, or else we may have struggled with our task. Still, the wastewater group began in a direction that defined sustainability in terms of subjects such as water reclamation, biosolids re-use, energy conservation, and effluent trading – all important subjects, but soon realized there were broader, more critical issues to face. In the end, the wastewater group’s contribution to the project was that sustainable water quality and quantity in the future requires that:

1. Wastewater infrastructure be adequately funded and maintained.
2. There is a paradigm shift from point source management to managing water quality on a watershed basis.
3. Funding and education to facilitate improvements to on-site and small-community wastewater systems be improved.

The final report for the project was authored and presented to the Minnesota legislature in early January by the Water Resources Center. A copy of the report can be found on the WRC website at wrc.umn.edu.

If I can summarize the report in three sentences, it identifies ten major issues and their solutions that must be addressed. Issues and solutions are divided according to environmental, economic, and social sustainability. Strategies for environmental sustainability were many and included funding new or expanded infrastructure, incorporating new technologies, managing contaminants of emerging concern, and requiring implementation of pollutant load reductions by all sources to solve impairment problems.

Minnesota has more freshwater than any of the country’s other contiguous 48 states. We are situated at the headwaters of three of the largest river basins in North America; thus, most of our water quality problems originate within our state boundaries, rather than being inherited by water flowing toward us from surrounding states. This means we have a responsibility to protect our waters for our sake and the sake of our downstream neighbors. The Framework tells us how to do that. Taxpayers who funded the project should feel they got their money’s worth. Check out the report sometime.
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- Business Address
- Home Address
- Street or PO Box

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Home Phone Number | Business Phone Number | FAX Number
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E-mail Address

Employment Information

Employer | Job Title
---|---

Environmental Focus | Other focus or interest (please specify)

Signature (required for all new memberships) | Date
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Associate Membership in Central States Water Environment Association

CSWEA Associate Membership Benefits include: Central States Water Magazine and Member price for CSWEA and Section Events

- I am a Young Professional (35 yrs or younger, less than 10 work experience)
- Please send me info on YP Events

Dues cover a one year period, and must be renewed annually. DUES
Renewal notices will be sent one month prior to anniversary date. $ 20.00

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- OR Visit www.CSWEA.org to join on-line and pay by credit card.
- Visa, Master Card & American Express Accepted.

Mailing Information

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To reach water industry professionals in Minnesota, Illinois and Wisconsin through Central States Water magazine and its targeted readership, please contact me at

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Signature (required for all new memberships) Date

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Membership Information

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Member Benefit Subscriptions Include DUES

омн Professional (Active) $ 108.00

Individuals involved in or interested in water quality

☑ WET (including Operations Forum)

☑ WEF Highlights Online

☑ Central States Water Magazine

омн Young Professionals Package

YP<35 yrs of age, < 10 yrs work experience can receive 50% discount for 1st three years of membership

☑ WET (including Operations Forum)

☑ WEF Highlights Online

☑ Central States Water Magazine

омн Professional WW Operations (PWO)

Individuals involved in the day-to-day operation of wastewater collection, treatment or laboratory facility, or for facilities with a daily flow of < 1 mgd or 40 L/sec.

☑ WET (including Operations Forum)

☑ WEF Highlights Online

☑ Central States Water Magazine

омн Student

Students enroll for a minimum of six credit hours in an accredited college or university. Must provide written documentation on school letterhead verifying status, signed by an advisor or faculty member.

☑ WET (including Operations Forum)

☑ WEF Highlights Online

☑ Central States Water Magazine

омн Corporate

One person is entitled to receive member benefits. Companies engaged in the design, construction, operation or management of water quality systems. Designate one membership contact.

☑ WET (including Operations Forum)

☑ Water Environment Research (Print)

☑ Water Environment Regulation Watch

☑ WEF Highlights Online

☑ Central States Water Magazine

Executive

Upper level managers interested in an expanded suite of WEF products/services.

☑ WET (including Operations Forum)

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☑ Water Environment Research (On-Line)

☑ Water Environment Regulation Watch

☑ Utility Executive

☑ Biosolids Technical Bulletin

☑ Central States Water Magazine

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Consider including additional WEF resources in your membership package! Check the appropriate subscription and include the subscription cost in your payment.

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☑ Water Environment Research Online: $75, Print: $100, Both: $125 $

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