Greetings from the Windy City!

We are looking forward to seeing those of you attending the 86th Annual Water Environment Federation Technical Exhibition and Conference (WEFTEC 2013) in Chicago, Illinois, at the McCormick Place convention center. WEF is anticipating participation of 17,000 attendees from more than 70 countries, which means ample opportunities to network, share best practices and new industry knowledge, as well as learn from one another. If you can’t make it to the conference this year but want to stay connected and join the conversation, follow our Facebook, Twitter (and the #WEFTEC13 hashtag), and Access Water blog which will feature WEFTEC conference content throughout the week.

Presentations

We have more than 70 workshop and technical presentations and posters being presented over the five days, so be sure to check out the full list of CH2M HILL WEFTEC 2013 participation below so you don’t miss out on something exciting!

WEFTEC Reading, Writing, and Rain Gardens

We are looking forward to participating in and sponsoring the 6th Annual WEF Community Service Project on Saturday, October 5, 8:30 am -4 pm in Chicago, which is hosted by the Students and Young Professionals Committee. The project this year, “Reading, Writing, and Rain Gardens,” involves replacing concrete with green infrastructure on the playground at Haines Elementary in Chicago’s Chinatown neighborhood. The trees and rain garden will help relieve runoff from urban flooding and reduce heat island effect in a critical public space for students.

Volunteers will spend the day helping build a rain garden—we hope to see you there!

Ops Challenge 2013

We are also once again sponsoring the Operations Challenge! How do operators and technicians overcome flooding, a sewer collapse, process failure and other emergencies? Do you ever wonder what transpires behind the scenes during the operation of a wastewater treatment facility? Instead of continuing to take these unsung specialists for granted, come see some of the best wastewater collection and treatment personnel in the world display their skills during Operations Challenge 2013! Winners are determined by a weighted point system for five events, each designed to test the diverse skills required for the operation and maintenance of wastewater treatment facilities, their collection systems and laboratories. Come see us and help us cheer on all of the Ops Challenge participants:

**Challenge Events**

Held in Chicago McCormick Place Convention Center, South Hall, Booth 1685

**Monday, October 7**

Process Control Event 10—11 a.m.

Laboratory Event 11:30 a.m.—4 p.m.

**Tuesday, October 8**

Collections Event: Maintenance and Safety 9:15 a.m.—4 p.m.

**Awards Ceremony**

Tuesday, October 9, 6—8 p.m.
Hilton Chicago

Career Fair and Networking

We look forward to seeing you at the Students and Young Professional Career Fair on Monday, October 7 from 1-4 p.m. in MCC, S105b, South Building Level 1. CH2M HILL is always interested in recruiting the best talent to our growing firm, so please come talk to our recruiters and employees and learn how you could be a part of the CH2M HILL team. Learn more about CH2M HILL careers, and set up a profile with your resume, at careers.ch2mhill.com.

We are also sponsoring and participating in the Industrial Networking Reception, Monday, October 7, from 5-6:15 pm in Room S106, McCormick Place convention center. The reception brings together key water and wastewater industrial leaders, regulatory officials, Industrial Waste Committee members, manufacturers, pretreatment personnel, researchers, and consultants. We are anticipating great conversations, making new great connections, and conversing with old friends.
Water for People Blues Bash

Chicago is known for its blues music, and this year, Water For People is holding a Blues Bash at Buddy Guy's Legends on Monday, Oct. 7, from 5-7:30 p.m. CH2M HILL is a sponsor of this event. Funds raised will support Water For People and their mission to end water poverty. The Bash will include live classic Chicago blues music with The Brother John Band and free cover to the incredible Jimmy Burns main show at 9:30 p.m. This will be an event you won’t want to miss—make sure to bring your friends! Tickets include appetizers and two drink tickets and are available through registration for $30 or at the door for $35.

Water for People Bike Ride

Water For People will also be hosting their 6th Annual WEFTEC Bicycle Ride on Sunday, Oct. 6 through downtown Chicago. Morning and afternoon rides for all ability levels will be offered. Learn more, and register and purchase tickets for the event.

WEF Awards and Presidential Celebration Reception

We are excited to announce that Julian Sandino, CH2M HILL Vice President and Technology Fellow, was named a 2013 Water Environment Federation (WEF) Fellow for his distinguished work and contributions to the global water environment.

“As a nationally recognized technical leader in wastewater treatment, Julian has led multi-disciplinary teams in sanitation infrastructure and environmental projects throughout the world, bringing his expertise to more than 300 projects,” said Brock McEwen, CH2M HILL Global Water Technology Director, Water Business Group. “We are honored to have Julian represent CH2M HILL and receive this prestigious recognition from the Water Environment Federation.”

Dr. Sandino is an active member in WEF. He previously served two terms on the Board of Trustees, as well as Chair of the Municipal Wastewater Treatment Plant Design and the International Coordination Committees of WEF in addition to participating in several Task Forces for the organization during his 30 years of membership in the organization. In 2008, Mr. Sandino also received WEF’s prestigious Engelbrecht International Achievement Award. He currently serves in the Board of Directors of WEF Publishing UK, a wholly-owned subsidiary in charge of publishing, exhibitions and general global outreach for the Federation.

We are also pleased to share that CH2M HILL has been selected as a recipient of the Water Environment Federation’s 2013 Safety Award for our exemplary safety program at the Fort Campbell Project in Kentucky. The WEF Safety Award encourages active and effective safety programs in the water environment field by recognizing entities that invest their resources to develop and adopt high quality safety programs within their own culture and who seek opportunities to share these programs within the water industry. CH2M HILL will be recognized during WEFTEC 2013 at the WEF Awards and Presidential Celebration Reception on Tuesday, October 8, 4:30-5:45 pm in the Grand Ballroom, S100.

“Safety is embedded in everything we do,” said Brad Starkey, CH2M HILL Health, Safety, and Environment Director for the Government Facilities & Infrastructure Business Group. “We are extremely proud to be recognized by WEF for our commitment to the Fort Campbell safety program. Making sure our team works safe and returns home at the end of each workday uninjured is a priority for us.”

The Fort Campbell Project’s safety program is leading the industry with zero OSHA recordable injuries in the last 65 months—an impressive accomplishment with 36 personnel and more than 380,000 labor hours. This record is not unique to Fort Campbell; globally CH2M HILL’s Water Business Group celebrated a major milestone earlier this year, accumulating 15 million consecutive work-hours without a day away/restricted time case (DART).
CH2M HILL Employee Workshops

Saturday, October 5
8:30 AM – 5:00 PM | Hiran de Mel | Vice Chair, Speaker | W01 – No-Nonsense Data: Wire-to-Air Blower Power
8:30 AM – 5:00 PM | Scott Cowden | Speaker | W04 – A Taste of Odor: My Odor vs. Your Odor
8:30 AM – 5:00 PM | Chris Easter | Speaker | W04 – A Taste of Odor: Community Action Committee

Sunday, October 6
8:30 AM – 5:00 PM | Samuel Jeyanayagam | Vice Chair, Speaker | W17 – WEF/WERF Nutrient Recovery: Unveiling A New Hands-On Decision Making Tool
8:30 AM – 5:00 PM | Kevin Nielsen | Speaker | W18 – Computational Fluid Dynamics: Hands-On CFD Modeling for Wastewater Treatment Plants: Applications and Case Studies: Flow and Control Structures Design and Evaluation
8:30 AM – 5:00 PM | John Kabouris | Vice Chair, Speaker | W21 – Planning and Implementing a High Strength Organics Codigestion Program: Overview of Generating Energy From Organics and High Strength Organics Codigestion Program Examples
8:30 AM – 5:00 PM | Matthew Ward | Speaker | W22 – Odor and Corrosion Issues in Wastewater Collection Systems Solving Both By Ventilation: Active Ventilation and Air Flows in Sewers
8:30 AM – 5:00 PM | Jay Witherspoon | Speaker | W22 – Odor and Corrosion Issues in Wastewater Collection Systems Solving Both By Ventilation: Australian Research Council (ARC) Collection System Ventilation Studies and Testing Programs
8:30 AM – 5:00 PM | Julian Sandino | Speaker | W23 – WEF/WERF Mainstream Anaerobic and Nutrient Removal Systems for Energy Neutral Wastewater Management: Anaerobic Mainstream Wastewater Treatment: A Global Perspective

CH2M HILL Employee Technical Presentations

Monday, October 7
2:00 PM | Zeynep Erdal, Ufuk Erdal, Tim Constantine, & David Jones | TS203 Room S403b - Desalination and Innovative Membrane Treatment - Achieving Sustainable Nutrient Removal for Tailored Water Treatment: A Novel Application of the MBR Technology
3:30 PM | Julian Sandino, Dru Whitlock, & Tom Johnson | TS222 Room S401d - Managing Energy in Wastewater Treatment: Achieving Energy Self-Sufficiency in a Nutrient Removal Facility through Operational Optimization

Tuesday, October 8
8:30 AM | Bruce Johnson & Dwight Houwling | TS306 Room S502a - Modeling of Nutrient Removal Processes: Use of Dynamic Modeling for Contractual Wastewater Treatment Plant Acceptance Testing
10:30 AM | Mauro Marinetti, Bernardino Ciongoli, Carlo Zaffaroni, & Kar Munirathinam | TS303 Room S504a - Advances in the Treatment of Petroleum Refinery and Petrochemical Plant Wastewaters: Selenium Removal From A Refinery Wastewater: Integrated Approach From Source Control To Wastewater Treatment
1:30 PM | Glen Daigger | TS400 Room S403b - Innovative Biological Nitrogen Removal: Simultaneous Biological Nutrient Removal: A State-of-the-Art Review
1:30 PM | Joshua Boltz | TS407 Room S502a - Toward Better Biofilm Reactors: Aeration system design in integrated fixed-film activated sludge (IFAS) and moving bed biofilm reactors (MBBR) using stainless steel pipe diffusers, manifold, and down pipes
1:30 PM | Dru Whitlock, Leswin Dcunha, & David Green | TS414 Exhibit Hall Booth 5484 - Biogas Utilization and Combined Heat and Power: Robust Evaluation Methodology for the Biogas Utilization Alternatives at the San Francisco Oceanside WPCP
1:15 PM  |  Julian Sandino  | TS417 Room S406b - Wet Weather Operation and Control of Integrated Sewer and Wastewater Treatment Plant Systems: Wet Weather Flow Improvements of Treatment Facilities: Reassessing Regulatory Frameworks

1:30 PM  |  Gary Fournier & Don Conger  | TS428 Room S401bc - Super Storm Sandy: Destruction and Recovery: Superstorm Sandy

2:00 PM  |  Cindy Yeager, Dennis Fink, Kristen Jenkins, & Tom Higgins  | TS405 Room S505b - Regulatory Impacts and Wastewater Challenges in the Steam Electric Power Industry II: Meeting Part-Per-Trillion Mercury Limits: Challenges and Successes

2:00 PM  |  Mark Mittag, Andrew Potts, & Phil Gaebler  | TS410 Exhibit Hall Booth 4807 - Green and Gray in CSO Management: Green Solutions on Milwaukee's Fresh Coast - the MMSD Regional Green Infrastructure Plan

3:30 PM  |  Amy Gao & Mark Supplee  | TS400 Room S403b - Innovative Biological Nitrogen Removal: The Impact Of Cold Weather and Temperatures on the Design of Supplemental Carbon Facilities Using Glycerol as a Carbon Source For Biological Nitrogen Removal

3:30 PM  |  Kurt Hellermann  | TS414 Exhibit Hall Booth 5484 - Biogas Utilization and Combined Heat and Power: Landfill Gas Turbines: Biogas to CHP to Biosolids Processing

4:00 PM  |  Peter Burrowes, Bill Desing, & Jay Surti  | TS413 Room S504d - Recycle Stream Treatment/Energy and Sustainability Case Studies: Strategies for Biosolids Energy and Resource Recovery for the Green Bay Metropolitan Sewerage District

4:00 PM  |  John Kabouris, Kate Simmonds, Tim Shear, & Bob Forbes  | TS414 Exhibit Hall Booth 5484 - Biogas Utilization and Combined Heat and Power: Positive Business Case for Small-Scale Codigestion and Resource Recovery Facilities without Pre-Existing Anaerobic Digesters

4:00 PM  |  Mark Notheis & Calvin Woolson  | TS418 Room S405b - Condition Assessment and Trenchless Technologies: Applications and Innovations: Microtunneling Technology Implemented for the Replacement of an Aging One Mile PCCP 36-inch Force main while Minimizing Environmental Impacts on a Semi-Restricted Site

4:00 PM  |  Sharon Jean-Baptiste  | TS423 Room S505a - Watershed Management: Strategies and Innovations for Urbanizing Areas: Communities of the Future" - Leveraging an Integrated Municipal Stormwater and Wastewater Planning Framework for Next Generation Utility Management and Community Vitality"

4:30 PM  |  Tim Shea, Mark Rosser, & Dale Gabel  | TS413 Room S504d - Recycle Stream Treatment/Energy and Sustainability Case Studies: Grease-Stimulated Biogas Production in a Regional Sludge Pipeline

Wednesday, October 9

9:30 AM  |  Jay Witherspoon, Gokul Bharambe, & Jay Surti  | TS511 Room S504d - Biosolids Management: From Wastewater Treatment, Biogas, And Solids Management To Total Resource Recovery - Changes Are Happening In Auckland, NZ

9:30 AM  |  Laith Alfaqih & Sharon Jean-Baptiste  | TS515 Hyatt McCormick, Room CC22 - Stormwater Maintenance: Lessons Learned from Stormwater BMP Monitoring to Inform Design, Operation and Maintenance in City of Cincinnati

10:30 AM  |  Laith Alfaqih  | TS518 Room S505a - Innovative Approaches to Water Quality Monitoring: Comprehensive Biological, Chemical, And Physical Assessment Of The Mill Creek Watershed In Cincinnati


1:30 PM  |  Glen Daigler, Andrew Hodgkinson, & Kim Fries  | TS602 Room S504a - Resource Recovery From Industrial Wastewater: Development And Implementation Of A Novel Sulfur Removal Process From H2S Containing Wastewaters


2:00 PM  |  Bob Forbes, Dru Whitlock, Todd Williams, & Peter Burrowes  | TS608 Room S504d - Advanced Digestion: A Critical Review, Update and Comparison of Advanced Anaerobic Digestion Processes

2:00 PM  |  Reggie Rowe  | TS612 Exhibit Hall Booth 4807 - Developing Sensible and Affordable Wet Weather Plans That Will Win With Regulators: The Planning Approach: Developing Values-Based Risks With Community and Stakeholders

2:30 PM  |  Aditya Tyagi & Avinash Patwardhan  | TS615 Room S505a - International Sustainability and Water Resource Management: Strategic Appraisal of Development Sites for Future Cities Using Sustainability Vision for Urban Areas

3:30-5:00 PM  |  Joshua Joseph  | ALT617 Room S502b - Alternative Delivery: Transforming Information and Resolving Citizen Complaints by Utilizing Qualitative and Quantitative Information for Data Construction, Statistical Analysis, and Policy Implementation
CH2M HILL Employee Co-Authored Presentations

Monday, October 7

1:30 PM | Mason Throneburg | TS216 Room S405b - Big Pipes and Tunnels: The System’s Backbone: Effective Decision-Making in Chicago Based on an Innovative Approach to Sewer System Modeling and Master Planning


4:00 PM | Steve Graziano, Bill Desing, Dru Whitlock, Peter Burrowes, & Jay Surti | TS213 Room S504d - Co-Digestion: Strategies for Biosolids Energy and Resource Recovery for the Green Bay Metropolitan Sewerage District

Tuesday, October 8
11:00 AM | Glen Daigger | TS300 Room S402b - Shortcut Nitrogen Removal: Characterizing Activity of Deammonification, Nitrification, Denitrification by AOB, AOA, NOB, Anammox and Heterotrophic denitrifier in Full Scale NPXpress MBR Plants

2:00 PM | Vin Rubino | TS400 Room S403b - Innovative Biological Nitrogen Removal: Kinetics of Glycerol Acclimated Biomass: Implications on Plant Operations and Performance

3:30 PM | Joshua Boltz & Mike Wilson | TS407 Room S502a - Toward Better Biofilm Reactors: Start up, Optimization, and Performance Testing of a 77 MGD Integrated Fixed Film Activated Sludge (IFAS)Process to Meet a 5 mg/L Nitrogen Limit

4:00 PM | Glen Daigger | TS400 Room S403b - Innovative Biological Nitrogen Removal: Optimization of Simultaneous Nitrification Denitrification Performance in Different ENR Process Configurations

Wednesday, October 9
8:30 AM | Sam Paske & John Fortin | TS508 Room S401d - Change Management: Workforce Strategies That Work!: Accelerating Change - A Case Study in Uniting People and Best Practices for Results

4:30 PM | Gary Swanson | TS612 Exhibit Hall Booth 4807 - Developing Sensible and Affordable Wet Weather Plans That Will Win With Regulators: Pulling it All Together; Louisville and Jefferson County MSD’s Successful Planning Process