



Central States
Water
Environment
Association

2010
Collection
System
Seminar

June 10, 2010

Central States Water Environment Association

2010 Collection System Seminar



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8:30 – 8:45 Welcome and Introductions

Mark Eddington, P.E.

DeKalb Sanitary District

Illinois Collection System Committee Chair - Central States WEA



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8:45 – 9:15

Rick Pinneo, P.E.

Illinois Environmental Protection Agency

Past practices of USEPA and IEPA include allowing excess flow facilities on the collection systems and at the treatment facilities. State regulation has allowed excess flow treatment and State and Federal Grant money awarded to facilities with excess flow treatment demonstrate USEPA concurrence that excess flow facilities are compliant with the regulation. The State of Illinois also participated in the National SSO Committee in the mid to late 1900s. Current events have demonstrated a shift in USEPA policy. The blending policy that was originally proposed in 2003 was substantially changed in the draft blending policy of 2005. The draft utilities analysis came out in 2009 and is envisioned to be provided for every permit renewal. USEPA published in the June 1, 2010 Federal Register a notice for stakeholders to comment on SSO reporting and notification, standard language for CMOM, permits for satellite communities and on addressing peak flows at POTWs. USEPA has required Illinois EPA to develop it's own policy that will be approved by USEPA and will be placed on public notice.



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Rick Pinneo, P.E.

Illinois Environmental Protection Agency

Mr. Pinneo is a licensed engineer and earned his Bachelor's Degree from the University of Illinois. He has worked at the IEPA since 1984 in the Industrial Unit and became the Southern Municipal Unit Manager in 2006.



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9:15 – 9:45 South Side Interceptor - Planning

Matt Streicher, P.E.

Wheaton Sanitary District

In 2005, the Wheaton Sanitary District began planning for the replacement of their Southside Intercepting Sewer running through established residential neighborhoods in the City of Wheaton. The Wheaton Sanitary District will explain the planning of the project including the various public information and communication tools used, pursuit of temporary and permanent easements including the decision to make a 4-acre, \$1.65 Million property acquisition, and the funding process through the American Recovery and Reinvestment Act.

Mr. Streicher has 7 years of collection system experience. He is a licensed engineer in the State of Illinois and earned his Bachelor's Degree in Civil Engineering from the University of Iowa. Mr. Streicher is currently employed at Wheaton Sanitary District as a Project Engineer.



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9:45 – 10:15 Southside Interceptor Sewer - Design

Mike Waldron, P.E.

Strand Associates

The Wheaton Sanitary District hired Strand Associates, Inc. to assist them with their Southside Interceptor Replacement Sewer Project through planning, design, and construction. Strand Associates will discuss the design and construction aspects of the 2.3 mile, 48-inch diameter pipe including selection of a route, evaluation of construction materials and techniques including approximately 1,400 feet of trenchless construction, and features intended to limit disruption and inconvenience to the general public and the City's services.

Mr. Waldron is a licensed engineer in the State of Illinois and earned his Bachelor's degree from Bradley University. He has worked for Strand Associates, Inc. since 1991 and is currently the Discipline Coordinator of Municipal Engineering.

10:10 – 10:30 Break



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10:30 – 11:00 Lift Station Energy Considerations

Ned Paschke, P.E.

University of Wisconsin

This presentation summarizes fundamentals and key design and operating decisions that can influence energy usage and energy costs in wastewater pumping stations and lift stations. The effects of various decisions are examined, including peak design flow selection, forcemain system and valve selections, individual pump sizes and operating scenarios, constant-speed vs. variable-speed pumping, and other factors. The presentation shows how a given conceptual station scenario can result in a range of realistic pumping designs that are vastly different in their overall energy usage and energy costs.

Mr. Paschke is a licensed engineer in the State of Wisconsin and serves as the Program Director for the University of Wisconsin-Madison where he directs regional and national short courses on water and wastewater engineering and management topics. He previously served as the Director of Engineering and Planning for the Madison Metropolitan Sewerage District. He earned his Bachelor's and Master's Degrees in Civil and Environmental Engineering from the University of Wisconsin-Madison.



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11:00 – 11:30 Epoxy Manhole Lining/Rehabilitation

Danny Warren

Warren Environmental

Mr. Warren's presentation will focus on manhole rehabilitation, Infiltration and Inflow control, and confined space safety issues.

Mr. Warren is the founder of A & W Maintenance and Warren Environmental, Inc. specializing in blending of zero V.O.C. epoxy products specifically designed for the rehabilitation, water proofing, and structural enhancement of infrastructure. He is a recognized expert in the field of plural component coatings and has authored papers in university studies on industrial coatings with the University of South Carolina, Houston, Waterloo, and Miami. His work has also been published in numerous trade journals including; Engineering News Reports (ENR), Trenchless Technologies (TT), and Concrete International (CI), to name a few.



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11:30 – 12:00 Trenchless Technologies

Dan Liotti, P.E.

Midwest Mole

Mr. Liotti will present a summary of Trenchless Technologies that can be utilized to install underground utilities. Technologies include: auger boring, pipe jacking, utility tunneling, pipe ramming, guided boring, Microtunneling, and EPB tunneling.

Mr. Liotti is a licensed engineer in the State of Indiana and Kentucky and earned his Bachelor's Degree in Civil Engineering from Purdue University. Dan joined his father in at Midwest Mole in 1985 and is currently the president. Midwest Mole is located in Indianapolis, Indiana and performs boring, jacking, tunneling, relining, and grouting work throughout the United States.

12:00 – 12:45 Lunch (Provided)



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12:45 – 1:15 Remote Flow Monitoring and Use of Real Time Data for Evaluating Collection System Performance

Lucas Streicher

Thorn Creek Basin Sanitary District

The District identified a need for real time data from its remote flow monitoring devices on District sewers. Flow meters capable of continuous operation in normal and high flow conditions were installed. Wireless technology facilitates data transfer from these remote locations to the SCADA system at the main Wastewater Treatment Facility.

Mr. Streicher earned his Bachelor's in Engineering from the University of Illinois. He is the Director of Operations for the Thorn Creek Basin Sanitary District and is a licensed Class 1 Wastewater Treatment Operator. He has 10 years of experience in the wastewater industry.



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**1:15 – 1:45 Integration of Flow Monitoring with
SCADA**

Chris Sosnowski, P.E., MCP

BWCSI

The worlds of SCADA and technology are ever-changing. Collection system managers now have more options than ever with monitoring flow using SCADA. By integrating various flow monitoring equipment with existing open architecture SCADA systems and cutting edge wireless, agencies can learn how collection systems respond to typical dry weather flows, as well as wet weather flow events. When combined with a well-designed, but simple reporting system, data can be quickly accessed locally as well as remotely, and internal and IEPA reports can be automatically and reliably produced. Discussion regarding the evolution of root control, with emphasis on the implementation of root control programs.

Mr. Sosnowski is a licensed engineer in the State of Illinois and earned his Bachelor's Degree and Master's Degree in Civil and Environmental Engineering from University of Illinois and the University of Wisconsin respectively. He has over 13 years of experience working with Municipal Technology and is the General Manager and Vice-President of B&W Control Systems Integration. He is an active member of AWWA and WEF.



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**1:45 – 2:00 Blending Update – USEPA Official
Federal Register Notice**

Roy Harsch

Drinker, Biddle, and Reith, LLP

On June 1, 2010, the USEPA announced that it is seeking public input on a number of sanitary sewer collection issues including SSOs, Operation and Maintenance and Blending. They are holding public meetings to solicit input and responses to specific questions in advance of their decision as to whether and what regulations they should propose. There is a 60 day written comment period which ends in August. The Illinois Association of Wastewater Agencies (IAWA) is going to submit detailed written comments and would like your input and help. Individual agencies and consultants should also comment. I will briefly go over the questions USEPA has sought input on and provide the initial IAWA view as an appropriate response.

Mr. Harsch is a senior partner in the Chicago office of DB&R which is a national law firm based in Philadelphia. He has historically represented municipalities in all aspects of environmental regulation and routinely represents IAWA in rule making. Previously worked at Illinois PCB.



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2:00 – 2:15 Central States WEA & WEF

Scott Trotter, P.E., BCEE

Trotter and Associates, Inc.

This presentation will be on the importance of continuing education and the opportunities of the same through involvement in professional organizations such as the Water Environment Federation (WEF) and Central States Water Environment Association (CSWEA).

Mr. Scott is a licensed engineer in the State of Illinois and currently a WEF Delegate. He earned his Bachelor's Degree in Civil Engineering from the University of Illinois. He is a past president of CSWEA and is the President of Trotter and Associates, Inc. He has been practicing for over 20 years in the water and wastewater industry.