



Central States
Water
Environment
Association

2008
Collections
Seminar

April 10, 2008

Central States Water Environment Association

Collection System Seminar



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8:30 – 8:45 Welcome and Introductions

Mark Eddington, P.E.

Trotter and Associates, Inc.

Illinois Collection System Committee Chair - Central States WEA

Sue Baert

Wheaton Sanitary District

Illinois Section Chair - Central States WEA



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8:45 – 9:15 NPDES Permits, Compliance and SSO's

Richard Pinneo, P.E.

Illinois Environmental Protection Agency

Capacity, Management, Operation and Maintenance (CMOM) development requirements are being placed in NPDES permits for collection systems operators that have sanitary sewer overflows (SSO). Sanitary sewer overflows include discharges from the collection system to waterways or basement backups. Components of a successful CMOM program include but are not limited to mapping the collection system, assessing the collection system capacity, identifying and prioritizing structural deficiencies, monitoring the effectiveness and documenting the CMOM plan and providing a proper response to SSO events. Preparation and implementation of a good CMOM program can reduce and eliminate health hazards, permit violations and potential for legal action.

Mr. Pinneo earned his Bachelor's Degree from the University of Illinois. He has worked for the Illinois EPA since 1984 in the Industrial Unit and became the Southern Municipal Unit Manager in 2006.



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9:15 – 9:45 Collection System Facility Planning

Scott Trotter, P.E., BCEE

Trotter and Associates, Inc.

The development of a comprehensive collection system analysis is an integral part of the facility planning process. Development of collection system maintenance and capital improvement programs should be outlined as part of a facility plan update. The cost of these programs and the depreciation of the sanitary sewer infrastructure as an asset should be included in the calculation of the user rate. Unfunded programs can never be implemented.

Mr. Trotter earned his Bachelor's Degree from the University of Illinois and has 19 years of experience in wastewater engineering. He has been the president and chief executive officer of Trotter and Associates, Inc. since its inception in 1999. Mr. Trotter served as President of CSWEA in 2006.



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9:45 – 10:15 San. Sewer Evaluation Survey Program

Mike Zima, District Manager

DeKalb Sanitary District

The DeKalb Sanitary District took over ownership of the City of DeKalb's collection system in 1987 and has been improving it ever since. The District has implemented an inspection program to identify necessary replacement and maintenance improvements within its collection system. The District has recently updated its Facility Plan that identifies new I&I removal initiatives, including eliminating illegal discharges of stormwater from private service laterals.

Mr. Zima earned his Bachelor's Degree from Northern Illinois University. He has worked for the DeKalb Sanitary District since 1973, becoming the District Manager in 1983.

10:15 – 10:30 Break



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10:30 – 11:00 GIS Mapping of Sanitary Infrastructure

Nick Menninga, P.E., District Manager

Downers Grove Sanitary District

The Downers Grove Sanitary District has developed a Geographical Information System (GIS) map of its sanitary infrastructure with element attributes. The District has found it to be a beneficial tool that is utilized on a daily basis.

Mr. Menninga earned his Bachelor's Degree in Chemical Engineering from the University of Illinois. He has worked for the Illinois EPA, consulting firms, public wastewater agencies, and has been the District Manager for the Downers Grove Sanitary District since 2006.



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11:00 – 11:30 Sanitary Sewer Metering and Modeling

Mike Waldron, P.E.

Strand Associates, Inc.

Conveyance system modeling is an important tool to aid in understanding how your separate sanitary or combined sewer system operates. Not only is modeling a critical aspect of recent and pending regulations such as CMOM and Long-Term Control Planning, but is also necessary for making informed and objective decisions in the improvement and expansion of your sanitary conveyance system. There are many reasons to model your conveyance system, factors to consider in choosing which type of model to use, steps to take in creating your model, and how to use the model to operate and maintain your conveyance system.

Mr. Waldron 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.



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11:30 – 12:00 Sanitary Sewer Inspection and Cleaning

Doug Severson, Midwest Sales Representative

Visu-Sewer Clean and Seal, Inc.

This presentation will outline sanitary sewer maintenance programs, including sewer inspection, cleaning, maintenance, and rehabilitation. It will detail how television inspection results can be utilized to develop rehabilitation and maintenance project.

Mr. Severson has worked for Visu-Sewer Clean and Seal, Inc. for 19 years. He is currently their Midwest Sales Representative and works with municipalities and engineers to implement rehabilitation and maintenance programs and capital improvement.

12:00 – 12:45 Lunch (Provided)



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12:45 – 1:15 Infiltration and Inflow Removal

Bob Swirsky, Sewer System Maintenance Supervisor

Downers Grove Sanitary District

Presentation of the evolution of the Downers Grove Sanitary District's Infiltration and Inflow removal program. Historical and current methods of identification and removal of I&I in the District will be discussed. The District's major I&I removal projects will be outlined.

Mr. Swirsky began his career as a member of Local 2 Sewer and Tunnel Miners Union in 1976 and has completed several projects in the Chicago area, including the Monroe Street Underground Garage and the Deep Tunnel Project. He began working at Downers Grove Sanitary District in 1999 and is the Sewer System Maintenance Supervisor.



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1:15 – 1:45 Emerging Lining Technologies

Kevin Coburn, Business Development Manager

Insituform Technologies, Inc.

This presentation will discuss the progression of Cured-In-Place Pipe (CIPP). We'll look at how the use of steam has helped progress the value and technical envelope of CIPP. Also, we'll see how carbon fiber has been integrated into CIPP. Finally, can CIPP be used to comply with the water/sewer separation act?

Mr. Coburn has worked for Insituform Technologies, Inc. for 8 years. He is a business development manager and covers Central and Northern Illinois. He works closely with municipalities and engineers helping design solutions to common and uncommon needs in sewer and water systems.



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1:45 – 2:15 Water is Life

Roger Gyger

m²t technologies LLC

Illinois Section Vice Chair – Central States WEA

The *Water Is Life and Infrastructure Makes it Happen* program was developed by WEF to raise awareness for the critical need for significant investment in the rehabilitation and upgrade of wastewater collection and treatment systems in the United States over the next 10 to 15 years. The program was designed to be implemented at the state and local levels by the respective water Environment Associations, including CSWEA. This presentation will review the key objectives of the *Water Is Life* program and highlight a number of tools that are available for educating various constituencies, including political representatives and utility customers.

Mr. Gyger earned his Bachelor's and Master's degree from Clarkson University and the University of Buffalo respectively, and has 30 years' experience in the environmental and energy industries. He is a founding partner of Mixing and Mass Transfer Technologies LLC, has authored 20 professional publications, and holds four patents.



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2:15 – 3:00 DeKalb WWTP Tour (Weather Permitting)