



Utility Asset Management Summit



Tools, technologies and case studies designed to help you manage water and wastewater systems in today's challenging environment

Co-sponsored by Pennsylvania's leading organizations representing the state's water and wastewater industries

November 14 & 15

**The Penn Stater Conference Center
State College, PA**

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www.municipalauthorities.org

Utility Asset Management Summit

Monday

▶ **9:00 – 10:00 am Registration and Welcome Hour with Exhibitors**

10:00 am – Noon ▶ Asset Management Part I

Moderator: Phil Tiewater, Opus International Consultants

Asset Management for the Entire Authority (10:00 – 10:30 am)

Phil Tiewater, PE, Opus International Consultants

Engineering and O & M have significant impacts on the life cycle cost, as well as financial, hiring, and procurement policies. Applying asset management techniques to these other functions can result in significant savings. A discussion will focus on the proper way to manage the entire infrastructure-intensive organization.

ISO 55000 and Asset Management: The Five W's (10:30 – 11:00 am)

Ryan Nagel, PE, Hazen and Sawyer | Aditya Ramamurthy, Hazen and Sawyer

ISO 55000 offers utilities an unbiased independent perspective of asset management. Learn how the ISO standard can be adopted into any organization to improve asset management.

When Simpler is Better:

Creating an Asset Management System People Will Use (11:00 – 11:30 am)

Bryon A. Killian, PE, Entech Engineering, Inc.

Methods to manage infrastructure can be costly and complex. Hear how a sanitary authority uses a pivot table to store data on their assets as a cost effective tool to capture inventory information. Benefits include low initial cost, ease of use, and flexibility.

Practical Applications of Asset Management (11:30 am – Noon)

Heather Himmelberger, PE, Southwest Environmental Finance Center

There are practical ways to use asset management tools and techniques to address the problems utilities face. Case studies of utilities benefiting from this approach will be included.

▶ **Noon – 1:00 pm ▶ Lunch with Exhibitors**

1:00 – 2:30 pm ▶ Asset Management/GIS ▶ Moderator: Charlie Card, EBA Engineering, Inc.

GIS Tools for Asset Performance Modeling and Prioritization (1:00 – 1:30 pm)

Libby Cavanaugh, Innovyze

Learn about emerging techniques for prioritizing infrastructure asset rehabilitation plans, including templated solutions that create defensible strategies based on varying risk scenarios. Advanced GIS and modeling applications that integrate hydraulic simulations, risk assessment and GIS analysis will be presented. Techniques, tips, and requirements for these types of analyses will be examined.

GIS and Asset Management: Putting a World of Information at Your Fingertips (1:30 – 2:00 pm)

Howard S. Hodder, Jr., MGIS, GISP, Herbert Rowland & Grubic, Inc.

GIS and asset management help to proactively maintain utility systems providing platforms for comprehensive infrastructure analysis to forecast, plan, and budget for necessary improvements, day-to-day operations and maintenance. Basic processes to select and implement a GIS and asset management solution and the importance of data quality will be addressed. Examples of municipal utilities using asset management to achieve their goals will be discussed.

Implementing Asset Management for Water and Sewer Utilities: Lessons Learned from West Virginia (2:00 – 2:30 pm)

April Newell Storm, Tetra Tech | Greg Scott, Buchart-Horn, Inc.

Water and sewer infrastructure is deteriorating due to age, overuse and underfunding of maintenance and upgrades. To help systems focus on assets and create long term financial plans, the West Virginia Bureau of Public Health requires systems to implement asset management in order to qualify for funding. Hear about their program and lessons learned over the first four years.

▶ **2:30 – 3:00 pm ▶ Break with Exhibitors**

3:00 – 4:00 pm ▶ Case Studies ▶ Moderator: Mark Pickering, GHD Inc.

Capital Region Water: Successful Use of Innovative Technologies for Rapid Collection System Assessment (3:00 – 3:30 pm)

Jeffrey K. Bowra, PE, Capital Region Water (CRW) | Marc A. Lehman, PE, CDM Smith

The evaluation and repair prioritization of a combined sewer system dating back to the 1860's has many challenges. Learn about CRW's rapid assessment and data collection of the combined sewer system and manholes to ensure compatibility with GIS and for emergency maintenance and repairs.

Utility professionals are responsible for managing water and wastewater systems in today's increasingly challenging environment. Asset management is a vital component of any progressive utility system.

PWEA, PMAA and PA-AWWA have joined together in presenting this informative program. The Utility Asset Management Summit includes presentations on utility assessment, tools and technologies and a variety of case studies.

Looking forward to seeing you in State College this fall!

All sessions and activities are held in Deans Hall.

Utility Asset Management Summit

Fox Chapel Authority: Asset Management – Past, Present and Future (3:30 – 4:00 pm)

Mark Nicely, PE, Fox Chapel Authority

Envisioned by the board of directors, a small water utility was transformed with the introduction of asset management by new executive management. Topics will include: system status and changes; financing and cost savings; and future vision.

4:00 – 4:30 pm ▶ Q&A Panel

Monday Speakers

Ask in-depth questions and benefit from the combined knowledge of the panel.

▶▶ 4:30 – 6:00 pm ▶ Reception with Exhibitors

Tuesday

▶▶ 7:30 – 8:30 am ▶ Breakfast with Exhibitors

8:30 – 10:00 am ▶ Asset Management Part II ▶ Moderator: Mark Nicely, Fox Chapel Authority

In Search of Utility Optimization: A Lean Path to Operational Efficiencies (8:30 – 9:00 am)

Ryan Nagel, PE, Hazen and Sawyer

The goal of a Lean Performance and Efficiency Assessment is to identify the performance state of an organization and develop high priority improvement initiatives and implementation roadmaps. The Lean Six Sigma approach ensures that management, operations, and maintenance are all performed in a highly efficient manner.

Case Study On Utility Outsourcing: People Make the Difference (9:00 – 9:30am)

G. Matthew Brown, PE, DEE, ARRO Consulting, Inc.

Upper Uwchlan Township Municipal Authority owns seven separate systems ranging in capacity from 3,600 gpd to 600,000 gpd and serves a total 4,000 customers. With the aim of benefiting from efficiencies of the private sector, the authority decided to outsource all operations, maintenance, and administrative duties. The lessons learned through such a level of outsourcing, problems encountered, and the positive results will be discussed.

Exploring Asset Monetizations (9:30 – 10:00 am)

Scott Shearer, PFM Financial Advisors LLC | Benjamin H. Kapenstein, PFM Financial Advisors, LLC

Best practices in water and wastewater public/private/partnership procurement, including asset sales and concession leases, will be explored. Based on unique situations, either process can help a utility reach its goal of serving the customer and managing assets at the lowest cost. Practical, legal, and financial issues will be addressed.

▶▶ 10:00 – 10:30 am ▶ Break with Exhibitors

10:30 am – Noon ▶ Asset Management/Finance ▶ Moderator: Michael Kyle, Lancaster Area Sewer Authority

Rate Projections, 20-year Capital Planning and I & I Reduction:

Getting the Most For Your Customers' Money (10:30 – 11:00 am)

Brian L. Book, PE, RETTEW

Fined by DEP for SSOs due to an old, poorly maintained system, the Municipal Authority of the Town of Bloomsburg will spend more than \$20 Million to comply with Chesapeake Bay mandates and build a new treatment plant. Recognizing the need to make good future decisions, a long term capital plan was developed to include I & I investigation, capital repairs and GIS capabilities. Hear a review on techniques used that will allow the authority to stretch its dollars to maximum benefit.

Lancaster Area Sewer Authority: A Homegrown Asset Management Plan Focusing on Business Risk Analysis, Capital Investment and the Effect on Rates (11:00 – 11:30 am)

Michael Kyle, Lancaster Area Sewer Authority (LASA) | Michael Lehman, LASA

Facing large capital decisions, LASA needed to better understand the long-term financial commitment associated with maintaining its infrastructure. Wanting to implement the asset management process themselves, they hired a consultant to coach them through the process rather than conducting it for them. This process included prioritization of capital projects and maintenance to focus spending on high risk assets. The presenters will share LASA's experience.

Closing Remarks: Current State and Future of Asset Management in Pennsylvania (11:30 am – Noon)

Douglas Bilheimer, PMAA | Larry Fair, PWEA | Daniel Preston, PA-AWWA

Hear from the leaders of PMAA, PWEA and PA-AWWA on the state of utility and asset management in Pennsylvania.





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The Pennsylvania Municipal Authorities Association is dedicated to environmentally responsible operations. We are proud to print this publication on an environmentally responsible paper.

Our mission...

PWEA's mission is to enhance the knowledge and abilities of Pennsylvania's water quality professionals, promote sound sustainable water policies, and promote public awareness of the need to protect water resources.

PWEA's members are water quality professionals including operators, facility operations/maintenance personnel, facility supervisors/managers, laboratory personnel, engineers, municipal administration/officials, government regulators, manufacturers, students and academia.

www.pwea.org



Since 1942, PA Municipal Authorities Association has been the primary voice for authorities providing environmental infrastructure and other community services across the Commonwealth.

PMAA's services include advocacy on governmental affairs and regulatory issues, training programs, educational publications and resource materials.

PMAA is the largest association in Pennsylvania specifically representing the interests of municipal authorities.

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PA-AWWA is dedicated to providing leadership and resources to the full spectrum of the Pennsylvania water community to provide safe, affordable, and sufficient water.

PA-AWWA advances technology, education, science, management, and governmental policies.

PA-AWWA offers education to water professionals; advocates for safe and sustainable water; collects and shares knowledge; creates volunteering opportunities.

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The Penn Stater Conference Center Hotel • State College, PA

Registration

Name: _____

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Address: _____

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Name: _____

Organization: _____

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Rooms have been reserved at
The Penn Stater
Conference Center Hotel
215 Innovation Blvd.
State College, PA 16803

800-233-7505

www.thepennstaterhotel.psu.edu/

Room Rate \$114

Reference reservation
ID #PAMK16A

Registration fee per person: Members: \$225.00 Non-Members: \$275.00 Total \$ _____

HOW TO REGISTER:

With this form: mail or fax to **Pennsylvania Municipal Authorities Association**, 1000 North Front Street, Suite 401, Wormleysburg, PA 17043 • (717) 737-7655 • (717) 737-8431(fax) • info@municipalauthorities.org

On Line: through PMAA's website at www.municipalauthorities.org

METHOD OF PAYMENT (due at time of registration):

Checks made payable to PMAA

Card # _____ Exp.: _____ 3 digit security code: _____



Cancellation Policy: Cancellations must be sent in writing to our office or payment is still due.

Due to reservation guarantees, no refunds can be made after October 31st. Unpaid no-shows will be charged.



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Sponsor!

Choose your sponsorship(s) and receive recognition: a link to your company on PMAA, PA-AWWA and PWEA websites; your company contact information included in every registration packet; your company logo featured on PowerPoint presentation; high visibility signage at the event featuring your company; and recognition from the podium. **For details, contact Wendy Fonner: 717-737-7655; fonner@municipalauthorities.org.**

Monday: Lunch – \$300 Break – \$200 Reception – \$250

Tuesday: Breakfast – \$300 Break – \$200

Exhibit!

As an exhibitor, you will receive: **1 complimentary attendee registration***; 6-foot table for a display; a link to your company on PMAA, PA-AWWA and PWEA websites; your company contact information included in every registration packet; high visibility signage at the event featuring your company; and recognition from the podium. **For details, contact Joe Sullivan: 717-737-7655; sullivan@municipalauthorities.org.**

Exhibit Fee: Members: \$400.00 Non-Members: \$550.00

(*includes 1 registration - additional booth representatives must register separately)

Exhibit Hours

Monday: 9:00 -10:00 am 12:00 -1:00 pm 2:30 -3:00 pm 4:30 - 6:00 pm

Tuesday: 7:30 - 8:30 am 10:00 -10:30 am

Company _____

Contact _____ Email _____

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- or -

Register on line: through PMAA's website at www.municipalauthorities.org

Signature _____ Date _____

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Room Rate \$114

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