

3 Rivers
Wet Weather



22nd Annual

SEWER CONFERENCE

November 3-4, 2021
Monroeville Convention Center

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W. David Montz
Executive Director
3 Rivers Wet Weather

Welcome to the 22nd Annual 3 Rivers Wet Weather Sewer Conference. As we rebound from a year of restrictions and isolation, it is a welcomed opportunity to once again provide a forum to meet and collaborate with colleagues in person. With the ALCOSAN communities receiving consent orders to reduce flows in their systems, it is even more important than ever to work together on a regional basis. This conference allows for the sharing of ideas and experiences from the broader region by providing opportunities to meet colleagues from outside Allegheny County and to learn from their expertise and experiences. This year's conference provides the ability to meet more than 80 exhibitors and hundreds of attendees, to connect with old friends, to meet new ones, and to learn from our experienced panel of speakers.

Thanks for attending and enjoy the conference.



Thank you to our conference sponsors:



Conference Materials

Continuing Education Tracking Form

Please use the **Attendee Tracking Form** provided in your conference envelope to submit the sessions you attended. The forms need to be signed by conference staff at lunch and then again at the end of each day to verify your attendance.

Certified Wastewater Operators

This two-day conference is a DEP-approved wastewater training program. Pennsylvania-certified wastewater operators can earn up to four contact hours by attending the two-day event. If you are a certified wastewater operator, please include your 5- or 6-digit DEP Client ID number on the continuing education tracking form provided in the conference materials. Note: Class A, B and C wastewater operators need to complete 15 contact hours for the first renewal (3 years) and 30 for every renewal thereafter. Class D and E operators need 8 hours and 15 hours subsequently.

Licensed Professional Engineers & Other Professionals

Engineers and other licensed professionals may use the continuing education tracking form to request a conference completion certificate with the total number of professional development hours (8.5 pdhs this year). Your professional licensing board will determine the credit earned from attending the conference.

Exhibit Hall Map

A two-sided Exhibit Hall Map is provided to help you navigate the exhibit hall. One side provides exhibitors by booth number and the flip side provides the exhibitors in alphabetical order. If you would like more details about a particular exhibitor, a company profile and contact information for each vendor is provided in the back of this booklet.

Evaluation Form

Please use the Evaluation Form to give us your feedback on the educational sessions and the overall conference in general. We value your input as it helps to guide our future events. Every attendee who completes an evaluation form will be entered into a drawing for a \$50 gift card (Either provide your name & email address on your completed evaluation form or if you prefer anonymity, you may turn in a business card with your completed form for the gift card drawing.)

Exhibitor-Sponsored Prize Drawing

Please use the Prize Drawing Entry Form* to stop at each designated exhibit booth and get a stamp on your entry form to verify your visit. Once it's complete, drop the entry form into the prize drawing box for a chance to win a Gift Card Tree valued at more than \$1,350! One lucky winner will be chosen shortly after lunch on November 4.

**Only registered attendees are eligible to win this exhibitor-sponsored prize. Exhibitors/exhibit booth personnel and conference staff are not eligible to win. Winner does not need to be present to win.*



Conference Schedule

Wednesday, November 3, 2021

| | |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 8:00-8:55 a.m. | Registration, Continental Breakfast & Exhibit Hall |
| 8:55-9:00 a.m. | Welcome W. David Montz |
| 9:00-9:30 a.m. | Keynote Address Regionalization and Cooperation: More Important Than Ever Jared Cohon |
| 9:30-10:15 a.m. | ALCOSAN's Clean Water Plan Update <i>Kimberly Kennedy, Michael Lichte & Timothy Prevost</i> |
| 10:15-11:00 a.m. | Break & Exhibit Hall |
| 11:00-11:30 a.m. | City of Cumberland Maryland CSO Program <i>Monika Blassino</i> |
| 11:30 a.m.-12:00 p.m. | Establishing a Sanitary Sewer Lateral Inspection Program: The Good, The Bad, and The Ugly <i>George Zboyovsky</i> |
| 12:00-1:30 p.m. | Lunch & Exhibit Hall |
| 1:30-2:00 p.m. | Consent Order One-Stop (Map) Shop <i>Matthew Mercurio</i> |
| 2:00-2:30 p.m. | Making the Most of Mass Media <i>Eric Eckl</i> |
| 2:30-3:15 p.m. | Refreshment Break & Exhibit Hall |
| 3:15-4:00 p.m. | Using Dual Drainage Modeling to Better Understand the 4 Mile Run Watershed <i>Lauren Terpak, Bill Porteus, & Tony Igwe</i> |

Thursday, November 4, 2021

| | |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 8:00-8:45 a.m. | Registration, Continental Breakfast & Exhibit Hall |
| 8:45-9:30 a.m. | Getting it Right: Some Lessons Learned from PWSA's Source Reduction Projects <i>Ana Flores & Ryan Quinn</i> |
| 9:30-10:00 a.m. | Metrics that Matter: Evaluating Green Stormwater Infrastructure Performance <i>Timothy Prevost</i> |
| 10:00-10:30 a.m. | WVSA's Regional Collaboration & Compliance: Where We Are Now <i>Amanda Schumacher & Jeff Colella</i> |
| 10:30-11:15 a.m. | Break & Exhibit Hall |
| 11:15 -11:45 a.m. | Preventing & Reducing Sanitary Sewage From Impacting Local Waterways <i>Ashley Neptune</i> |
| 11:45 a.m.-12:15 p.m. | NEORS Local Sewer System Evaluation Studies: A Roadmap for Districts and Communities to Improve Sewer Systems <i>Kevin Vander Tuig</i> |
| 12:15-1:45 p.m. | Lunch & Exhibit Hall |
| 1:45-2:30 p.m. | Crossing Municipal Boundaries: A Panel Discussion on Successful Multi-municipal Projects <i>Jason Stanton, Julia Spicher & Robert Firek</i> |
| 2:30-3:00 p.m. | Richmond's Story of Integrated Planning, Integrated Permitting, and CSO Compliance <i>Andy Lukas & Grace LeRose</i> |
| 3:00-3:30 p.m. | Curving Concrete Pipe: What a Relief <i>Kevin Wojciechowski & Cecilia Mazzei</i> |

Look for these symbols in the Session Guide; they represent key topic areas critical to solving the wet weather issue.



Regional Wet Weather Plan Implementation



Improving our Region's Water Quality



Source Reduction & Flow Control



Green Infrastructure



Regional Approaches

Session Guide

Wednesday, November 3, 2021

8:00-8:55 a.m.

Registration, Continental Breakfast & Exhibit Hall

8:55-9:00 a.m.

Welcome

W. David Montz ■ 3 Rivers Wet Weather

9:00-9:30 a.m.



**Regionalization and Cooperation:
More Important Than Ever**

Jared Cohon ■ Carnegie Mellon University

We all know how fragmented we are with more water and sewer providers in Southwest Pennsylvania than in any other comparable region.



This is a barrier to progress for classic reasons—efficiency, effectiveness, access to capital for infrastructure investment—and for responding to new challenges. Dr. Jared Cohon will share his thoughts and experience on the topic and why it's more important than ever to pursue regional approaches to the wet weather issue.

Dr. Jared Cohon, President Emeritus of Carnegie Mellon University (CMU), served as the eighth president of CMU from 1997 to 2013, during which time the university made progress on teaching and research, international activities, and economic development in southwest Pennsylvania. Earlier in his academic career, he served in administrative positions from 1973 to 1992 at Johns Hopkins and then at Yale where he was the Dean of the School of Forestry and Environmental Studies until 1997.

From 2011-2013, Dr. Cohon served as chair of the Sewer Regionalization Review Panel created to develop and evaluate regionalization options for the ALCOSAN service area, and he continues to serve on several government, non-profit, and corporate boards. The CMU Professor earned his Ph.D. and M.S. from the Massachusetts Institute of Technology and his B.S. from the University of Pennsylvania.

Contact: jaredcohon@cmu.edu

9:30-10:15 a.m.



ALCOSAN's Clean Water Plan Update

Kimberly Kennedy, Michael Lichte, &
Timothy Prevost ■ ALCOSAN

The Allegheny County Sanitary Authority (ALCOSAN) has embarked on a comprehensive, \$2 billion Clean Water Plan that will significantly reduce the overflows of diluted, untreated wastewater into the region's rivers by reducing the volume of CSOs by seven billion gallons per year, eliminating sanitary sewer overflows, supporting the installation of municipal Green Stormwater Infrastructure (GSI) and source control projects, and constructing and operating a regional, expanded conveyance system. Attendees will learn about the four primary components of the Clean Water Plan (CWP), including wastewater treatment plant expansion, source controls and Green Revitalization of Our Waterways (GROW), regionalization, and increased conveyance capacity.

Kimberly Kennedy is ALCOSAN's Director of Engineering & Construction, a role she has held since 2018. Kim received her B.S. in Civil Engineering from Bradley University and her M.S. in Civil and Environmental Engineering from the University of Pittsburgh. Before joining the Authority, Kim worked in the engineering consulting industry for 20 years. She is currently a board member of the Engineers Society of Western Pennsylvania (ESWP), and also serves as board secretary for the Pittsburgh chapter of the Society of Women Environmental Professionals.

Contact: 412.734.6254 | kimberly.kennedy@alcosan.org

Michael Lichte is ALCOSAN's Director of Regional Conveyance with more than 25 years' experience in water and wastewater. Named ASCE Civil Engineer of the Year in 2020, Mike has been with ALCOSAN for the last 13 years managing the planning activities outlined in the Authority's Clean Water Plan, as well as planning for the ACT 537 program and several interceptor repair and rehabilitation projects. He earned a B.S. in aquatic environments from Allegheny College and an M.S. in civil engineering from the University of Pittsburgh.

Contact: 412.732.8004 | michael.lichte@alcosan.org

Timothy Prevost is ALCOSAN's Manager of Wet Weather Programs. He manages ALCOSAN's innovative GROW grant program, and he also leads compliance with the U.S. EPA CSO and SSO policies. A 20-year ALCOSAN

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employee, he holds a B.S. in civil engineering technology from the Rochester Institute of Technology. In 2017, he was named Civil Engineer of the Year by the Pittsburgh Section of the American Society of Civil Engineers.

Contact: 412.734.8731 | timothy.prevost@alcosan.org

10:15-11:00 a.m. Break & Exhibit Hall

11:00-11:30 a.m.



City of Cumberland Maryland CSO Program Monika Blassino ■ WRA

Since issuance of the EPA's CSO Control Policy in 1994, Cumberland has been developing and implementing a CSO control program. Cumberland's 75-year-old combined sewer infrastructure was designed to handle dry weather flows and to discharge to the surrounding rivers during wet weather conditions. In 2005 the City installed a flow monitoring system at each overflow. In 2006, the City developed a Long-Term Control Plan for combined sewer overflows (CSOs), which included a plan for addressing overflows that cannot be eliminated by means of separation or I&I control measures. You will also learn how to apply the EPA-mandated presumption approach to real data and an actual system and development of methodology for data analysis.

Monika Blassino has over 20 years' experience in the water and wastewater engineering field. Her project experience includes design of wet weather, combined sewer overflow control systems, I&I reduction programs for large and small sewer systems, and many large infrastructure projects for municipal clients, such as DC Water, Philadelphia Water Department, and Howard County, MD.

Contact: 443.224.1608 | mblassino@wrallp.com

11:30 a.m.-12:00 p.m.



Establishing a Sanitary Sewer Lateral Inspection Program: The Good, The Bad, and The Ugly George Zboyovsky ■ Brentwood Borough

Most communities in Allegheny County are 70+ years old, which means that their sewer laterals are most likely aged and ineffective. One of the leading causes for groundwater infiltration into a sanitary sewer system are defects in

private lateral sanitary sewer pipes. To address the issue, some communities have adopted a Sanitary Sewer Lateral Inspection Program that provides a more gradual approach to identifying and repairing any defects in a private sewer lateral. Participants will learn how Brentwood Borough developed such a program, including the benefits and lessons learned throughout the process.

George Zboyovsky has served as the Manager of Brentwood Borough for more than 13 years, and has also worked as a civil engineer for more than 15 years. Prior to his position at Brentwood, he served eight years as a Monessen City Councilman and Manager of Dormont Borough. George was recently accredited by the International City/County Managers Association (ICMA). He earned a B.S. in civil engineering from Penn State and master's degrees in international affairs and business administration from the University of Pittsburgh.

Contact: 412.884.1500, ext. 110 |
gzboyovsky@brentwoodboro.com

12:00-1:30 p.m. Lunch & Exhibit Hall

1:30-2:00 p.m.



Consent Order One-Stop (Map) Shop Matthew Mercurio ■ CivicMapper

3 Rivers Wet Weather has a history of developing tools used to assist ALCOSAN and its member municipalities with the consent order and other related activities. These tools are used in conjunction with 3RWW's other highly used map product, the regional, unified, and traceable Sewer Atlas. Together with the 3RWW Rainfall Tool, the Exhibit A and B Web App, and the LandCover Explorer, 3RWW is creating a "One-Stop Map Shop" to help municipalities gather information used for consent order compliance activities and responsibilities. This presentation will cover the four key 3RWW technologies that make up the one-stop map shop and how users can interact with these tools and data for consent order compliance success.

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Matthew Mercurio is the co-founder and Geospatial Technology Officer at CivicMapper, where he specializes in implementing innovative approaches for solving tough problems using location information and geospatial technology. Most recently, Matt has worked on integrating municipal storm and sewer infrastructure datasets for 3 Rivers Wet Weather and establishing GIS as a shared service at Quaker Valley COG. Matt is actively engaged in the PA GIS community acting as the current VP of PaMAGIC, the Pennsylvania Mapping and Geographic Information Consortium.
Contact: 412.545.3627 | matt.mercurio@civicmapper.com

2:00-2:30 p.m.



Making the Most of Mass Media

Eric Eckl ■ Water Words That Work

One of the most important elements of a successful wet weather program is communicating with your constituents so they understand the issues and recognize municipal progress. One of the most efficient ways to communicate your municipal message is through mass media. The news industry is changing fast, but it still shapes Americans' opinions about their water and the professionals who are responsible for it. In this session, you will learn about both old-school public relations and high-tech digital techniques for working with journalists to get the stories you want and shape how they turn out.

Eric Eckl is the owner and principal of Water Words That Work, LLC and oversees all client projects. Eric has more than 20 years' experience planning and executing outreach and communications programs. He is a sought-after conference speaker, who has appeared on CNN and has been quoted in the New York Times. Before starting the firm, Eric worked for Beaconfire Consulting, American Rivers, the U.S. Fish and Wildlife Service, and the Environmental Law Institute.

Contact: 800.861.6012, ext. 6 | eric.eckl@waterwordsthatwork.com

2:30-3:15 p.m. **Break & Exhibit Hall**

3:15-4:00 p.m.



Using Dual Drainage Modeling to Better Understand the 4 Mile Run Watershed

Lauren Terpak & Bill Porteus ■ ms consultants
Tony Igwe ■ Pittsburgh Water & Sewer Authority

The 4 Mile Run (4MR) Watershed contains areas that have been subject to historical chronic street and basement flooding. Due to the high amount of stormwater overland flow conveyance and historical surface flooding observed in the low-lying areas, a dual drainage model was recommended. During this session, attendees will learn about the minor and major systems that compose a dual drainage model, why this approach was used, and how it has become a proven tool in 4MR for accurately predicting flooding.

Lauren Terpak is the Technical Services Manager for the Pittsburgh Water service group at ms consultants, a multidiscipline engineering, architecture, and planning firm. Lauren obtained a B.S. in civil engineering from Youngstown State University. Post-graduation, she spent 18 years in wet weather planning, assisting entities in responding to regulatory requirements to resolve wet weather issues. She serves on the Board of the Society of Women Environmental Professionals (SWEPE) Three Rivers Chapter.

Contact: : 412.216.9349 | lterpak@msconsultants.com

With over 12 years' experience, Bill Porteus serves as a Senior Project Engineer for ms consultants where he manages and designs environmental and water-resources-related projects. While specializing in wastewater and stormwater management, asset management and hydraulic and hydrologic analysis, he has worked on projects in Ohio, WV, Indiana, and PA. He earned a B.S. in civil and environmental engineering from the University of Cincinnati.

Contact: 614.898.7100 ext.10214 | bporteus@msconsultants.com

Tony Igwe is the Senior Group Manager of Stormwater for Pittsburgh Water and Sewer Authority (PWSA). Tony has more than 30 years' experience in developing wet weather management projects. He received his B.S. in civil engineering from Mississippi State University and an M.S. in civil and environmental engineering from Wayne State University.

Contact: 412.526.1688 | tigwe@pgh2o.com

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Thursday, November 4, 2021

8:00-8:45 a.m.

Registration, Continental Breakfast & Exhibit Hall

8:45-9:30 a.m.



Getting it Right: Some Lessons Learned from PWSA's Source Reduction Projects

Ana Flores & Ryan Quinn ■

Pittsburgh Water & Sewer Authority

Recently completed PWSA projects will be used as case studies in this session to illustrate the lessons learned from the construction of green stormwater infrastructure (GSI) to reduce sewer overflows, reduce localized flooding, and spur community revitalization. Participants will hear a description of each project's purpose and design followed by a summary of key challenges experienced during construction, including inter-agency coordination, best practices for engineered soil media, addressing groundwater impacts, and identifying landslide risks. The presenters will highlight how these lessons can be applied to the planning and implementation of future projects, as well as future operations and maintenance.

Ana Flores is an Associate Project Manager at PWSA, where she has worked in the Department of Engineering and Construction since 2016. She has a B.S. in environmental resource engineering from the State University of New York, College of Environmental Sciences and Forestry. She currently serves on the Board of Directors for Upstream Pittsburgh and the Watersheds of South Pittsburgh.

Contact: 412.255.8800, x8035 | AFlores@pgh2o.com

Ryan Quinn serves as an Associate Project Manager for the Pittsburgh Water and Sewer Authority. He has 15 years' experience in water resources engineering with a focus on municipal stormwater management and implementation of CSO Long Term Control Plans. He is a graduate of Case Western Reserve University with an M.S. in civil and environmental engineering.

Contact: 412.255.8800, x2421 | rquinn@pgh2o.com

9:30-10:00 a.m.



Metrics that Matter: Evaluating Green Stormwater Infrastructure Performance

Timothy Prevost ■ ALCOSAN

Green stormwater infrastructure (GSI) is an important tool for communities addressing source reduction, particularly under the recent municipal consent orders distributed to communities by the Allegheny County Health Department and PA Department of Environmental Protection. But how do you know if the GSI is doing its job? During this session, you will learn methods for assessing the effectiveness of GSI and the complexities and compromises that should be considered when performing an assessment of your municipal GSI.

Timothy Prevost is ALCOSAN's Manager of Wet Weather Programs. He manages ALCOSAN's innovative Green Revitalization of Our Waterways (GROW) grant program and he also leads compliance with the U.S. EPA CSO and SSO policies. A 20-year ALCOSAN employee, he holds a B.S. in civil engineering technology from the Rochester Institute of Technology. In 2017, he was named Civil Engineer of the Year by the Pittsburgh Section of the American Society of Civil Engineers.

Contact: 412.734.8731 | timothy.prevost@alcosan.org

10:00-10:30 a.m.



WVSA Regional Collaboration & Compliance: Where We Are Now

Amanda Schumacher ■ Borton Lawson

Jeff Colella ■ Wyoming Valley Sanitary Authority

Wyoming Valley Sanitary Authority (WVSA) was established in 1969 to provide regionalized wastewater services to 36 municipalities located in Luzerne County, PA. More recently, in 2017, WVSA re-charted to add stormwater services to its Authority for 32 of its municipalities. Both the wastewater and stormwater programs are regionalized models established to provide the most cost-effective services and to achieve compliance most reliably with ever-increasing regulatory requirements. Participants will learn about the many successes and challenges with implementation of regionalized cooperation and collaboration in their wastewater and stormwater programs.

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Amanda Schumacher is a Market Sector Leader focused within several groups of Borton Lawson, including water, transportation, civil, and facilities. She has more than 15 years' experience working with the public and private sectors in project delivery, asset prioritization, and program management. Key experience also includes innovation integration for projects primarily focused on timely and quality project delivery

Contact: 908.319.8829 | aschumacher@borton-lawson.com

Jeff Colella serves as WVSA's Storm Water Division Manager and leads the team in all aspects of MS4 permitting from MCM implementation and training, BMP construction, customer service, and public education for 32 municipalities in northeastern Pennsylvania as part of WVSA's regional stormwater management program.

Contact: 570.820.9872 | jeff.colella@wvsa.net

10:30-11:15 a.m. Break & Exhibit Hall

11:15-11:45 a.m.



Preventing and Reducing Sanitary Sewage from Impacting Local Waterways

Ashley Neptune ■ Gateway Engineers

The Municipal Separate Storm Sewer System (MS4) permit is designed to implement a stormwater management program for reducing pollution impacts from stormwater runoff, but it also addresses sanitary sewer concerns, and has led to a reduction of sewage pollution into our local waterways. Projects such as storm sewer outfall screenings and stream restoration to sewer pipe lining and equalization tanks can be effective source reduction methods. Attendees will learn about the project life cycle that includes the location selection, budgeting, funding, designing, permitting, and constructing for successful projects and their impacts in a community, such as addressing combined sewers, sewage pollution, and exposed sanitary sewers.

Ashley Neptune is an Environmental Engineer with Gateway Engineers where she has worked on a variety of projects from municipal and land development to the oil and gas industry for erosion and sediment control, stormwater management, and environmental permitting. She earned her B.S. in environmental health engineering from St. Francis University and an M.S. in water resources and environmental engineering from Villanova University.

Contact: 724.875.8225 | aneptune@gatewayengineers.com

11:45 a.m.-12:15 p.m.



NEORS Local Sewer System Evaluation Studies: A Roadmap for Districts and Communities to Improve Sewer Systems

Kevin Vander Tuig ■ Wade Trim

The Northeast Ohio Regional Sewer District (NEORS) implemented Sewer System Evaluation Studies (SSES) to support District initiatives to address water quality and quantity problems associated with sanitary sewer infrastructure. The SSES projects were implemented at a planning level to use existing information and new field investigations, flow and rainfall monitoring, and sewer system hydrologic/hydraulic modeling to support District and member communities' understanding of system performance and regional water quality. Attendees will learn all about this initiative, including optimized feasible system improvement alternatives and prioritized potential solutions to address the problems identified.

Kevin Vander Tuig is a Senior Project Manager with over 33 years' experience planning and implementing dozens of wet weather improvement projects required under National Pollutant Discharge Elimination System (NPDES) permits, Administrative Consent Orders, and Consent Decrees. Kevin has been involved with Sewer System Evaluation Surveys (SSESs), sewer separation design and construction, conveyance sewers, storage tunnels and tanks, green infrastructure, etc. to eliminate combined and sanitary sewer overflows.

Contact: 216.306.2568 | kvandertuig@wadetrim.com

Session Guide

Thursday, November 4, 2021

12:15-1:45 p.m. **Lunch & Exhibit Hall**

1:45-2:30 p.m.



Crossing Municipal Boundaries: A Panel Discussion on Developing Successful Multi-municipal Projects

Moderator: Dave Montz ■ 3RWW
Robert Firek ■ Baldwin Borough
Julia Spicher ■ ALCOSAN
Jason Stanton ■ LSSE

This panel of experts will offer strategies, outcomes and considerations with respect to building multi-municipal consensus and forming collaborative multi-municipal/multi-agency relationships for successful project delivery. How do you start? How do you build momentum? Once underway, how do you maintain momentum? How do you finish? All of these questions will be answered and more.

Robert Firek is the Manager of Baldwin Borough, a role he assumed in 2018. He is also a registered professional engineer, and prior to his current position, he worked as Baldwin's Director of Municipal Services, as a civil engineer for LSSE, and as an inspector on PennDOT projects through various consulting firms.

Contact: : 412.882.9600, x1707 | rfirek@baldwinborough.org

Julia Spicher began her career at ALCOSAN in 2016 working on the Green Revitalization of Our Waterways (GROW) program. While working on the GROW program, she developed a strong belief in multi-municipal collaboration to address our regional wet weather issues and is excited to bring that passion into her new role as ALCOSAN's Manager of Regionalization.

Contact: 412.734.8749 | julia.spicher@alcosan.org

Jason Stanton is a Managing Principal/CFO of LSSE. His experience includes environmental (wastewater and water facilities) planning, study and design work including sewer system assessment, modeling, and rehabilitation mandated by regulatory agencies. Jason has more than 26 years' experience in municipal and municipal authority engineering. Currently, he serves as the Principal-in-Charge for the 3 Rivers Wet Weather Program Management Team.

Contact: 412.264.4400 | jstanton@lsse.com

2:30-3:00 p.m.



Richmond's Story of Integrated Planning, Integrated Permitting, and CSO Compliance

Andy Lucas ■ Brown and Caldwell
Grace LeRose ■ City of Richmond

In 2017, as part of its Long-term Control Plan, the City of Richmond finalized its Clean Water Plan, which provides a comprehensive understanding of the City's watersheds and associated water resources. The Plan identified the goals and objectives and associated metrics that would guide the City moving forward. Participants will hear a case study of integrated planning, integrated permitting, water-quality-based CSO compliance planning, use of emerging technology to maximize use of existing infrastructure to cost-effectively control CSOs, and innovative stakeholder involvement throughout a pandemic.

As Brown and Caldwell's Vice President and national Wet Weather Practice Leader, Andy Lukas is engaged in strategic projects across the country which are driven by state and federal consent orders related to wet weather compliance issues. In this capacity, he provides consulting to clients on issues ranging from flow metering, hydraulic modeling, I/I reduction, combined and sanitary sewer overflow control, system planning, and long-term capacity assurance. He earned a B.S. and M.S. both in civil engineering.

Contact: 414.203.2901 | alukas@brwnald.com

Grace LeRose is a Policy Advisor for the Department of Public Utilities in Richmond, VA. She is currently assigned to the stormwater utility with responsibilities including overseeing the integrated planning efforts and monitoring the City's efforts on behalf of the various TMDLs that affect the James River and its tributaries. Previously, she was Acting Environmental Manager responsible for the water and wastewater laboratories, as well as the Industrial Waste & Pretreatment Group. Grace holds a B.S. in chemistry from the University of Wisconsin at Madison.

Contact: 804.646.0033 | grace.lerose@richmondgov.com

Session Guide

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3:00-3:30 p.m.



Curving Concrete Pipe: What a Relief

Kevin Wojciechowski ■ GPD Group
Cecilia Mazzei ■ Cleveland Water
Pollution Control

In 2019, Cleveland Water Pollution Control undertook its largest project to date by constructing a sanitary relief sewer along a curvy residential street and a heavily trafficked local urban street. Despite hitting a few obstacles during the nearly \$15 million construction project, the relief sewer was a great step to help reduce basement flooding while minimizing impact to locals. Attendees will learn about this unique approach of installing curved micro-tunnel alignments along the natural curve of the roadway. You will also hear about the sizing of the project, the budgeting, the importance of geotechnical information, the strategy behind this chosen approach, and lessons learned.

Kevin Wojciechowski is a Civil Engineer with GPD Group, where he works in the organization's Water Resources department. Recent work with the City of Cleveland, Division of Water Pollution Control ranges from sanitary/storm-water metering and modeling, area-wide studies, sewer separation, and sewer upsizing. Kevin graduated from The Ohio State University with a B.S. in civil engineering and a minor in surveying and mapping.

Contact: 216.927.8662 | kwojciechowski@gpdgroup.com

Cecilia Mazzei is a Consulting Engineer with the City of Cleveland, Department of Public Utilities, Division of Water Pollution Control (WPC), a role she has held since 1999. She manages WPC's Capital Improvement Program construction projects, including planning and reviewing sewer construction plans and contracts. Cecilia has a B.S. and M.S. in civil engineering from Cleveland State University.

Contact: 216.664.3779 | cmazzei@clevelandwpc.com

Exhibitors

A & H Equipment Co.

Booth C

Founded in 1963. The region's leading distributor of municipal & environmental equipment solutions combines top-quality products and parts with expert, reliable support services for municipal, airport and contractor clients throughout PA and WV. Elgin street sweepers, Vactor sewer cleaners, EnviroSight inspection sewer equipment, OshKosh snow removal trucks and A&H Bodies truck equipment up-fitter.

Contact: Perry Ohm ■ 412.721.6990

r.ohm@ahequipment.com ■ www.ahequipment.com

ACO Inc.

Booth 43

A global company specializing in stormwater management products since 1954. "Collect, Clean, Hold, Release" is carried through with extensive product types that include: precast trench drains, separator devices, detention holding devices and discharge devices. Since 1976, ACO has been the industry leader in precast trench drains in the USA.

Contact: Jim McConnell ■ 440.477.9316

jim.mcconnell@aco.com ■ www.acousa.com

Advanced Drainage Systems

Booth 67

An industry leader of high performing, durable pipe built to provide innovative stormwater management solutions. Advancing the world's water infrastructure with chambers, basins and more. Not only can you count on us for premium performing products, but we help support you before, during and after your project.

Contact: Jake McQueen ■ 724.591.1555

jacob.mcqueen@adspipe.com ■ www.adspipe.com

Advanced Rehabilitation Technology

Booth 18

Provides municipal and industrial customers with Severe Service Lining Systems. Using OBIC Products, ART provides customers with lining systems in manholes, wet wells, culverts, treatment plants and industrial facilities that prevent infiltration, exfiltration and deterioration protection from corrosive environments.

Contact: Rusty Hesselschwardt ■ 567.239.6146

rusty@artcoatingtech.com ■ www.artcoatingtech.com

Aegion-Insituform Technologies LLC- Underground Solutions Inc.

Booth 35

Insituform CIPP has been used for more than 45 years to protect pipelines from corrosion, restore structural integrity, reduce infiltration, eliminate leaking joints, improve water quality and increase pipeline flow capacity. Offers a variety of solutions for renewing wastewater and stormwater pipelines, as well as pressurized force mains and water distribution and transmission mains.

Contact: Sue Bazen ■ 616.856.8271

sbazen@aegion.com ■ www.aegion.com

ALCOSAN

Booth 58

The clean water agency for most of Allegheny County, providing conveyance and wastewater treatment to 83 municipalities including Pittsburgh. Works closely with its customer municipalities, offering grants, and technical assistance for flow reduction projects, regionalization of multi-municipal trunk sewers, and material brochures, and presentations for ratepayers.

Contact: Jeanne Clark ■ 412.734.6222

jeanne.clark@alcosan.org ■ www.alcosan.org

Allegheny Utility Solutions LLC

Booth 65

Small, veteran-owned company providing services including utility locating, GIS Mapping, ground-penetrating radar, NASSCO pipe/manhole inspections, and drone services.

Contact: Josh McConnell ■ 717.585.4186

josh@alleghenyutility.com

www.alleghenyutility.com

AUMA Actuators Inc.

Booth 31

Has been manufacturing valve actuators for 47 years and is a major supplier of electric actuators and gearboxes to water, power, oil & gas, and industrial markets.

Contact: Scott Fanning ■ 412.780.1802

scott.fanning@auma-usa.com ■ www.auma.com

Exhibitors

Avanti International

Booth 38

An injection grout producer located near Houston, TX. Since 1978, Avanti's comprehensive line of injection grouts have been used to stop leaks, stabilize soil and rock, and control groundwater in municipal applications including manholes, mainlines, laterals and lateral connections permanently.

Contact: Chris Hamilton ■ 281.627.1875
chris.m.hamilton@avantigrout.com
www.avantigrout.com

Borton-Lawson Engineering

Booth 5

Founded in 1988, Borton-Lawson is a full-service architecture and engineering design firm offering a comprehensive range of services. We work diligently to maintain our professional reputation based on an unwavering commitment to project excellence while serving clients in the public and private sectors.

Contact: Samantha Albert ■ 570.821.1999
salbert@borton-lawson.com
www.borton-lawson.com

Bright Dyes

Booth 73

Offers NSF-certified (safe, non-toxic, biodegradable) bright, fluorescent dyes specifically developed for convenient use in water tracing, leak detection, septic inspection and flow monitoring. Also offers Turbo-Fog® Thermal Smoke Generator, the "original" liquid smoke capable of producing continuous uninterrupted dense, white smoke, using liquid smoke cartridges.

Contact: Francie Luddy ■ 440.465.7772
sales@kingscotechemicals.com
www.kingscotechemicals.com

Civil & Environmental Consultants Inc.

Booth 44

A leader in green infrastructure design and performance assessment. Qualified and experienced professionals design innovative stormwater solutions, including effective maintenance and monitoring programs. Combines the art and sciences of stormwater and landscape management and aspires to drive thoughtfully located, appropriately sized, and naturally designed solutions.

Contact: John Coyne ■ 800.365.2324
jcoyne@cecinc.com ■ www.cecinc.com

Colliers Engineering & Design (DBA Maser Consulting)

Booth 33

A multi-discipline engineering, design, and consulting firm providing services to both public and private sector clients. Specialties include: water/wastewater, civil/site, transportation, geospatial/survey, infrastructure, governmental, geotechnical/environmental, telecommunications and utilities. Headquartered in Red Bank, NJ with a local office in Pittsburgh.

Contact: Darnetta Craig ■ 412.752.7583
darnetta.craig@colliersengineering.com
www.colliers.com/en/services/engineering

Cosmos Technologies Inc.

Booth 48

An engineering consulting firm located in Pittsburgh, Harrisburg, Akron, Cleveland, and Louisville. Services include civil/site design, water/wastewater engineering, water resources engineering, environmental and safety management, construction management/inspection, energy management, and wastewater process development and commercialization. Also provides 3-D laser scanning and MEP engineering.

Contact: Holly Douglas ■ 412.321.3951
hdouglas@cosmostechnologiesinc.com
www.cosmostechnologiesinc.com

DAS Group

Booth A

A manufacturer's representative organization focused on water and wastewater treatment solutions.

Contact: Dan Nelson ■ 412.559.8646
dan@dasgroupinc.com ■ www.dasgroupinc.com

DLZ

Booth 52

Professional services firm that provides complete engineering, architectural, and construction services to public and private entities with a multidisciplinary staff of more than 600 people in 20 offices in the midwest. Meets the needs of small- and large-scale projects nationwide. Consistently ranked as one of ENR's prestigious Top 150 Design Firms in the U.S.

Contact: Nate Carll ■ 412.319.4100
ncarll@dlz.com ■ www.dlz.com

Exhibitors

DN Tanks

Booth 39

Offers design and construction of precast, prestressed concrete tanks for water, wastewater, and thermal energy storage.

Contact: Frank Houston ■ 717.521.7595
frank.houston@dn tanks.com ■ www.dn tanks.com

Doetsch Environmental Services

Booth 50

More than a century of sewer cleaning experience. Offers solutions for large-diameter, long-reach, difficult-access and impossible cleaning tasks. Offers a free app for calculating sewer debris volume and weight in a pipe.

Contact: Joe Schotthoefer ■ 810.499.9233
joe@doetschenv.com ■ www.doetschenv.com

Drnach Environmental Inc.

Booth 70

Founded 20 years ago to provide quality flow monitoring in Southwestern Pennsylvania. Has developed extensive and thorough quality assurance and reporting programs, which include both field and office evaluation of real-time and historical flow data, along with hydraulic profiles of specific monitoring points.

Contact: Eric Planey ■ 412.384.5400
eric@drnachenvironmental.com
www.drnachenvironmental.com

DRV Inc.

Booth 41

Provides pump and blower control variable frequency drives and controls VFD, PLC and HMI maintenance and service.

Contact: Scott Hinsch ■ 412.260.1146
dshinsch@drv-inc.com ■ www.drv-inc.com

Duke's Root Control

Booth 9

Has sewer root control down to a science. Tree root infiltration is preventable, but without the proper maintenance steps, it will destroy a collection system. Duke's prevents sanitary sewer overflows (SSOs) before they cause major havoc to systems and communities.

Contact: Bob Hunn ■ 614.354.3927
bob@dukes.com ■ www.dukes.com

Dutchland Inc.

Booth 64

A manufacturing and construction company that specializes in engineering, manufacturing, and constructing prestressed, post-tensioned concrete tanks for the water and wastewater industries.

Contact: David Beiler ■ 717.278.5961
dbeiler@dutchlandinc.com ■ www.dutchlandinc.com

Dynotec Inc.

Booth 34

An architectural and engineering company headquartered in Columbus with satellite offices in Cincinnati, Pittsburgh, and Houston. Founded in 1990. Provides services in architectural, structural, transportation/roadway design, water/wastewater engineering, construction management/inspection, and surveying. Each of these areas is staffed with highly qualified engineering professionals, inspectors, and technical support staff averaging more than 20 years of experience in this industry.

Contact: Matthew Baxendell ■ 614.310.1090
mbaxendell@dynotecinc.com ■ www.dynotecinc.com

Eisler Landscapes

Booth 45

A landscape architectural design and landscape construction firm that is proud to be at the forefront of designing and implementing green infrastructure, including green roofs, bioswales, permeable paving, rain gardens, wetlands, and E&S controls.

Contact: Eric French ■ 724.865.2830
eric@eislerlandscapes.com
www.eislerlandscapes.com

EJ

Booth 17

The leader in the design, manufacture and distribution of access solutions for water, sewer, drainage, telecommunications, and utility networks worldwide. Products include manhole frames and covers, hinged access assemblies, drainage grates, valve boxes, and related products. Made in the USA. **Contact: Kevin Pushay ■ 412.292.3897**
kevin.pushay@ejco.com ■ www.ejco.com

Exhibitors

Erdman Anthony

Booth 14

Founded in 1954. Has grown to become a leading infrastructure engineering firm in the eastern U.S. Has 300 professionals and is 100% employee owned. Experience spans a broad range of applications for government and private-industry clients. A multidisciplinary engineering resource that provides clients with services in the fields of civil engineering, transportation engineering, geospatial services, and facilities engineering, as well as construction observation, and commissioning services.

Contact: Daniel Ziemanski ■ 716.631.1241
ziemanskidj@erdmananthony.com
www.erdmananthony.com

Esri

Booth 72

Esri's ArcGIS® empowers utilities with solutions that devour underutilized data, harness analytics, and run on any device. Solutions that help safely deliver better service; improving collaboration, coordination, and decision-making. Maps, applications, and dashboards enable staff to access and create data in real time, saving time and reducing errors often introduced in paper processes. Esri's network models include business rules that reduce workload and prevent common mistakes.

Contact: Nickole James ■ 909.793.2853
njames@esri.com ■ www.esri.com

E-Tank

Booth 75

Dedicated to quality, performance and reliability, E-Tank rigorously maintains its fleet of tanks, boxes, pumps, and filters. Unlike other equipment suppliers, we don't just rent pumps, filtration, tanks, and boxes. We offer service, advice, and information, and we pay close attention to your specific requirements. Our team of highly knowledgeable and qualified specialists design a system that perfectly addresses your needs. Call us at 888-703-8265 to discuss your next project.

Contact: Chassidy Omogrosso ■ 412.715.3372
comogrosso@etank.net ■ www.etank.net

Ferguson Waterworks/ ACF Environmental

Booth E

As an emerging leader in GIS & LID, Ferguson offers a selection of urban green waterworks solutions: Space efficient storage, filters, and screens, biofiltration with high flow media, as well as alternative porous surfaces. These all help overcome urban stormwater challenges in private site and municipal projects. Beyond the products, Ferguson also offers comprehensive design and jobsite assistance.

Contact: Gregory Kramer ■ 412.475.0099
greg.kramer@ferguson.com
www.ferguson.com/www.acfenvironmental.com

GA Industries a VAG Group Brand

Booth 69

Was founded in Pittsburgh in 1895 by Edward Golden and Charles Anderson to manufacture valves for the boiler works industry. Over the years, GA Industries grew by adding products and expanding into other markets, which now service the water and wastewater industries along with the stormwater industries with products, such as plug valves, AWWA butterfly valves, pump control and level control valves, check valves, and air valves.

Contact: Gregory Clifford ■ 724.900.0241
g.clifford@vag-group.com ■ www.gaindustries.com

GAI Consultants Inc.

Booth 49

Transforming ideas into reality for more than 50 years. A 750-person, employee-owned multidiscipline engineering and environmental consulting firm serving clients worldwide in the energy, transportation, real estate, water, municipal, government, and industrial markets from U.S. offices throughout the northeast, midwest and southeast.

Contact: David Troianos ■ 724.332.0203
d.troianos@gaiconsultants.com
www.gaiconsultants.com

Exhibitors

Geotree Solutions

Booth 7

Rehabilitate manholes and large diameter pipes with Geo-Tree Solutions GeoSpray geopolymer mortar to create a new corrosion-resistant structurally independent pipe or structure.

Contact: Scott Naiva ■ 610.971.0362

snaiva@cs-nri.com

www.cs-nri.com/brands/geotree-solutions

Giangerlo Scientific Co. Inc.

Booth 68

Will be exhibiting Toshiba magnetic mount anywhere MAG flow meters density meters for sludge control, Drager gas detection, sage thermal gas flow meters, Parshall, Flumes, global water portable sampling equipment, lab instrumentation, trace metal, water quality, and test kits.

Contact: Vince Giangerlo ■ 412.922.8850

vgiangerlo@giangerloscientific.com

www.giangerloscientific.com

Golden Equipment Co. Inc.

Booth B

Sales, service, and parts for municipal equipment, including street sweepers, sewer flushers and sanitary TV inspection. Refurbished/pre-owned equipment/rental and contracting are also available.

Contact: Jason Capizzi ■ 800.242.1494

golden4pa@hotmail.com

www.goldenequipmentcompany.com

GPD Group

Booths 23-24

Specializes in architectural design, engineering design, construction, telecommunications and environmental services. Serves various market sectors: public buildings, education, housing, healthcare, parks and recreation, water resources, power distribution/generation, public works, geotechnical, land surveying, federal, environmental, transportation, retail/commercial, site development and utility services. Committed to developing business within the framework of specialized market sectors. An area leader and “the firm of choice” in providing professional services.

Contact: Tina Belz ■ 330.572.2100

tina.belz@gpdgroup.com ■ www.gpdgroup.com

Herbert, Rowland & Grubic Inc.

Booth 8

Small or large, conventional or complex, HRG designs solutions to protect the health of local communities. An innovative engineering firm providing planning, design, and construction-phase services, including financial consulting, for water and wastewater systems to public and private sector owners and operators.

Contact: Kara Smith ■ 304.669.6399

ksmith@hrg-inc.com ■ www.hrg-inc.com

Insight Pipe Contracting

Booth 19

A full-service provider of underground utility and maintenance and trenchless rehabilitation solutions. Offers CCTV inspections, sewer cleaning, spot-repair lining, and end-to-end lining. A hometown contractor with services that provides clients with innovative solutions to protect and improve the environment and our communities.

Contact: Bob Carpenter ■ 724.452.6060

bob.carpenter@insightpipe.com

www.insightpipe.com

ITpipes

Booth 15

ITpipes' powerful inspection software provides actionable intelligence from inspections. From easy-to-use field software to powerful reporting, integrated with ESRI GIS mapping, ITpipes is the authoritative source for planning and prioritizing. Easy online sharing, PACP certification, and automated data management streamline pipeline management.

Contact: Ross Brown ■ 262.347.7582

ross@itpipes.com ■ www.itpipes.com

J.A. Rutter Co.

Booth 12

A wood waste recycler with an emphasis on manufacturing products for the landscaping/contracting industry like mulch, compost, filter sock medium, etc. Also specializes in custom soil mixes (retention ponds, etc). Became a local HydroBlox distributor. Happy to represent this superior, recycled plastic, stormwater management system.

Contact: Jayme Matkozych ■ 724.327.1101, x210

jmatkozych@jarutter.com ■ www.jarutter.com

Exhibitors

Johnson, Mirmiran & Thompson Inc. Booth 21

JMT is a 100%-employee-owned firm, specializing in the built and natural environments, with six offices in Pennsylvania and more than three dozen additional offices across the U.S. This year, JMT celebrates 50 years of providing services that turn visions into realities, with gratitude for our clients, communities, and employees.

Contact: Davine Behanna ■ 412.375.5121
dbehanna@jmt.com ■ www.jmt.com/#s1

KEVCON Inc. Booth 47

Celebrating 30 years of supplying site solutions with the Keystone Retaining Wall System, PaveDrain and Concrete Canvas. PaveDrain for permeable surfaces provides the highest infiltration rates over the longest time period of time and simplified one-step maintenance. Concrete Canvas is a protective layer of 4,000+ psi-reinforced concrete for swales, containment, pond lining, ditch lining, berm protection, culverts and more.

Contact: Anne Duggan ■ 412.445.4509
anneduggan@kevconinc.com ■ www.kevconinc.com

KLH Engineers Inc. Booth 29

KLH's approach to every project is guided by the three points of emphasis in the company philosophy: expertise, common sense, and innovation. Since 1982, KLH has provided engineering services to over 400 municipal clients, and is currently performing work for over 60 authorities and municipalities.

Contact: John Mowry ■ 412.494.0510
jmowry@klhengineers.com ■ www.klhengineers.com

Larson Design Group Booth 16

An award-winning, employee-owned architecture, engineering, and consulting firm. Full-service offerings and national reach enable us to serve clients across a diverse range of industries. We are dedicated to elevating our client relationships, developing the careers and lives of our employee owners, and enhancing the communities we serve.

Contact: Gregory Cummings ■ 607.936.7076
gcummings@larsondesigngroup.com
www.larsondesigngroup.com

LSSE Booth 28

Founded in 1985. Provides civil engineering and surveying services to public and private clients including the municipal, commercial, and industrial, institutional, residential, and utilities markets. Specializes in wastewater facilities, water facilities, and stormwater/green infrastructure planning, design and construction phase services. Headquartered in Coraopolis, PA with branch offices in Greensburg, Albion, PA and Dublin, OH.

Contact: Jason Stanton ■ 412.264.4400
jstanton@lsse.com ■ www.lsse.com

Marion Hill Associates Inc. Booth 4

In business for 40 years specializing in commercial diving, marine construction, inspection services and marine equipment support. With an exceptional safety record and as a member of the Association of Diving Contractors International, MHA can service, inspect and install all things marine related – intakes, potable water tanks, dams, etc.

Contact: Samuel Trapp ■ 412.287.0306
strapp@marionhilldivers.com
www.marionhilldivers.com

McCormick Taylor Booth 63

Specializes in engineering, planning, environmental analysis, and communications with over 400 employees in 17 offices within the mid-Atlantic/East Coast. Our clients include transportation agencies, water authorities, utility companies, counties and municipalities. They benefit from our responsiveness, thoughtful and thorough approach, dedication to quality, and deep level of technical experience.

Contact: Jennifer Threats ■ 412.923.5001
jbthreats@mccormicktaylor.com
www.mccormicktaylor.com

Meadville Land Service Inc. Booth 57

A mobile restoration company founded in 1998 with 23 years committed to restoring balance to the Earth.

Contact: Robin Ernst ■ 814.337.1974
estimating@meadvillelandservice.com
www.meadvillelandservice.com

Exhibitors

Michael Baker International Inc. Booth 54

Based in Pittsburgh. A leading provider of engineering and consulting services, including design, planning, architectural, environmental, construction, and program management. Has been solving some of the world's most complex infrastructure challenges for more than 80 years with a legacy of expertise, experience, innovation, and integrity.

Contact: Daniel Laird ■ 412.526.3168
daniel.laird@mbakerintl.com ■ www.mbakerial.com

Mott MacDonald LLC Booth 46

A 16,000-person global management and engineering firm. Delivers sustainable outcomes in transportation, buildings, power, oil and gas, water and wastewater, environment, health, international development, and digital infrastructure. Is a vibrant infrastructure development and engineering company in North America with 62 offices.

Contact: Stephen Polen ■ 412.497.2900
stephen.polen@mottmac.com ■ www.mottmac.com

ms consultants inc. Booth 59

A multidiscipline engineering, architecture, and planning firm for the transportation, environmental, architecture, commercial, municipal, and construction industries. Founded in 1963, the award-winning firm has nearly 400 employees among nine offices in Indiana, North Carolina, Ohio, Pennsylvania and West Virginia.

Contact: Lauren Terpak ■ 412.264.8701
lterpak@msconsultants.com
www.msconsultants.com

National Gunite Booth 62

Provides trenchless repair of sewers and storm culverts using concrete that is sprayed onto steel reinforcement. Deteriorating lines are repaired from the inside, restoring structural integrity of the pipe for decades of future use.

Contact: Shane Snyder ■ 570.447.9977
shane@nationalgunite.com ■ www.nationalgunite.com

NSI Neal Systems Inc. Booth 55

Fully integrated with strong instrumentation expertise. NSI is a fully integrated systems company with unparalleled process, electrical, instrumentation, controls, and automation capabilities. We are a technical supplier and solutions provider of process automation products for varying market sectors. This includes a strong history supporting state, city and local municipalities, large and small.

Contact: Peter Jackson ■ 215.968.7577
pjackson@nealsystems.com ■ www.nealsystems.com

Pennoni Booth 20

As a multidisciplinary consulting engineering firm founded more than five decades ago, Pennoni approaches engineering challenges from a wider spectrum of angles than most, from land development to energy management. Our combination of talent and experience delivers results for diverse and iconic projects around the globe.

Contact: Todd Stager ■ 814.574.0174
tstager@pennoni.com ■ www.pennoni.com

Pittsburgh Water & Sewer Authority Booth 2

The largest combined water, sewer and stormwater authority in Pennsylvania, serving 300,000 consumers throughout the City of Pittsburgh and surrounding areas.

Contact: Rebecca Zito ■ 412.689.1462
rzito@pgh2o.com ■ www.pgh2o.com

Precision Laser & Instrument Inc. Booth 25

An "Authorized Distribution Partner" of Trimble equipment and accessories. Provides positioning solutions for the construction, surveying and GIS/mapping industries through sales, rentals, service repair, training and technical support of top-quality laser, optical and positioning equipment, accessories, and field supplies in PA, OH and WV.

Contact: Christine Iksic ■ 724.266.1600
pli@laserinst.com ■ www.laserinst.com

Exhibitors

PRIME AE Group Inc.

Booth 40

Specializes in water resources, transportation, civil and structural engineering. CM/CI, and architectural services. PRIME AE serves federal, state, local and municipal governments, and private industries. PRIME AE has over 400 employees in 17 offices throughout the mid-west, south-east, northeast and mid-Atlantic regions.

Contact: Mark Buchenic ■ 330.730.1984

mbuchenic@primeeng.com ■ www.primeeng.com

Raedlinger Primus Line Inc.

Booth 26

For almost two decades, Primus Line has been manufacturing a Kevlar-reinforced pipeline rehabilitation system for pressure lines. After great success in its initial application for oil and gas line rehabilitation, the system has been adapted for use in various water and wastewater lines throughout the world. Primus Line's ability to be installed in sections of over 8,000 feet at a time and its ability to handle up to 90-degree bends makes it truly unique among rehabilitation methods.

Contact: Regina Costa ■ 602.517.8007

regina.costa@primusline.com ■ www.primusline.com

Rain for Rent

Booth 42

A leading provider of temporary liquid handling solutions including pumps, tanks, filtration, and spill containment. Projects range from flood relief to construction site dewatering, sewer bypasses, and industrial plant turnarounds.

Contact: Steve Bayda ■ 304.547.0479

sbayda@rainforrent.com ■ www.rainforrent.com

RedZone Robotics Inc.

Booth 30

Offers an advanced pipeline assessment with decision-making capabilities to successfully and proactively manage a sewer collection system. Has equipment platforms for any size sewer and flow conditions, and delivers data in various requirements whether CCTV in PACP, MACP, sediment, ovality, gas detection, and enhanced premium engineering reports of bend geometry, virtual mandrel, alignment, and as-built models. All data is provided in a sewer asset management program, ICOM.

Contact: John DePasquale ■ 412.927.0140

jdepasquale@redzone.com ■ www.redzone.com

Robinson Pipe Cleaning

Booth 61

Offers full-length digital CCTV, sonar, laser profiling, sewer cleaning, main line grouting, lateral grouting, manhole rehabilitation, sectional point repairs, CIPP lining of laterals from the main and lateral connection lining.

Contact: Mike Long ■ 412.921.2100

long@robinsonpipe.com ■ www.robinsonpipe.com

SAERTEX multiCom LP

Booth 22

The leading manufacturer of GRP UV-CIPP liners in the world. The company produces various GRP lining products for the trenchless rehabilitation of wastewater and stormwater pipes in addition to potable water and other pressure pipes. SAERTEX multiCom LP has been operating in Huntersville, North Carolina since 2009.

Contact: Troy Cubero ■ 414.499.6545

t.cubero@saertex.com ■ www.saertex-multicom.com

Sauereisen Inc.

Booth 51

A 122-year-old, Pittsburgh-based company and a world-leading manufacturer of corrosion-resistant materials of construction. Manufactures sealants, corrosion barriers, and substrate repair materials for the protection and restoration of wastewater infrastructure. From collection systems to treatment facilities, Sauereisen offers materials to resist acidic environments and prevent water inflow & infiltration.

Contact: John Davis ■ 412.963.0303

jedavis@sauereisen.com ■ www.sauereisen.com

Sci-Tek Consultants Inc.

Booth 27

Sci-Tek is an engineering firm with 25 years in business. A certified minority enterprise, Sci-Tek offers expertise in surveying, site civil design, design engineering services, sustainable design (including integrated stormwater management and green storm water infrastructure design), water resources engineering, environmental consulting, and geotechnical engineering.

Contact: Maria Atkinson ■ 412.371.4460

matkinson@scitekanswers.com

www.scitekanswers.com

Exhibitors

Sherwin-Williams

Booth 56

Manufacturers high-performance coatings for many industries while focusing on the water/wastewater markets. Products include manhole linings for new construction and rehabilitation. Offers calcium aluminate mortars, 100% solids epoxy linings systems, as well as the grouts and resurfacing compounds to complete the systems.

Contact: Heather Stiner ■ 717.753.0653
heather.r.stiner@sherwin.com
<http://protective.sherwin-williams.com>

S.M. Sawchuk Sales Inc.

Booth 13

We have been providing “state of the art” equipment and services for our customers in the water/wastewater industry for over 35 years. Our territory includes Western PA, West Virginia & Western Maryland. Visit our website to see our HACH information.

Contact: Steven M. Sawchuk ■ 412.443.5167
sawchuk22@aol.com ■ www.smsawchuksales.com

Society of Women Environmental Professionals Three Rivers Chapter

Booth 36

Our mission is to provide women environmental professionals, working within the Three Rivers region, a community that recognizes and supports women’s leadership and career development and provides a forum to share information and ideas and promote public service within the environmental field.

Contact: Amanda Love ■ 412.275.8002
threeriverschapterswep@outlook.com
www.swep3rivers.org

SPEO

Booth 76

Southwestern Pennsylvania Engineering Outreach is a non-profit organization whose members are dedicated to mentoring local minority- and women-owned business enterprise (MBE/WBE) firms in Southwestern Pennsylvania and providing networking and subconsulting opportunities to them.

Contact: David Borneman ■ 724.934.9509
david.borneman@arcadis.com ■ www.speo-pa.org

State Pipe Services Inc.

Booth 6

A full-service municipal utility contractor that specializes in the cleaning, inspection, and rehabilitation of storm and wastewater conveyance systems. ISNetwork-certified, NUCA & NASSCO membership, along with 50 years of experience have allowed us to excel and set the standard in the industry. Our valued employees are our greatest asset.

Contact: Tim Kenney ■ 724.538.3900
tkenney@statepipeservices.com
www.statepipeservices.com

StormTank

Booth 60

Products include: Module, Shield, Pack and URS.

Offers an affordable and sustainable solution for storm water management. These products have been designed to address customers’ unique project applications, from large-scale detention and infiltration to rainwater harvesting and urban root systems.

Contact: Sam Williamson ■ 484.401.0401
sam.williamson@brentwoodindustries.com
www.stormtank.com

StormTrap

Booth 66

Offers solutions for managing runoff, protecting waterways and improving the use of property. Committed to providing cost-effective, customized water management solutions to engineers, owners, and municipalities across North America and abroad. Whether you’re concerned about water quality, detention, infiltration or water harvesting, StormTrap has a design to reduce our footprint, accommodate site constraints, lower overall costs and meet specific project needs.

Contact: Justin Nace ■ 267.449.1679
jnace@stormtrap.com ■ www.stormtrap.com

Exhibitors

T2 Utility Engineers

Booth 71

Has provided quality Subsurface Utility Engineering and Utility Coordination services in Pennsylvania since 1999. This includes projects for Pennsylvania Department of Transportation (PennDOT), Allegheny County Sanitary Authority (ALCOSAN), Pittsburgh Water Sewer Authority (PWSA), City of Pittsburgh, Urban Redevelopment Authority of Pittsburgh, and the Pennsylvania Turnpike Commission (PTC), among others.

Contact: Jodi Sabol ■ 724.462.1735
jodi.sabol@t2ue.com ■ www.t2ue.com

T3 Global Strategies Inc

Booth 37

A certified small business headquartered in Pittsburgh, Pennsylvania offering a broad range of engineering mapping, and surveying services. T3 specializes in water and wastewater engineering, NPDES permitting, and advanced survey technologies that include UAV mapping (imagery and lidar), terrestrial scanning, photogrammetric mapping, GIS, and 3D modeling.

Contact: Michael Joos ■ 412.221.2003, x124
mjoos@t3gs.com ■ www.t3gs.com

The Man Pan

Booth 3

Pittsburgh-based manufacturer of manhole inserts, including the classic model with patented lifting lugs for ease of installation and removal and a patented reverse arch design for strength.

Contact: John Manning ■ 724.942.9500
johnmanning@themanpan.com
www.themanpan.com

U.S. Municipal

Booth F

A dealer for several environmental products like Vac-Con Combination Sewer Units, Ibak Pipeline Inspection Equipment, PipeHunter Jetters and Enz Nozzles. Nine salespeople cover all of Pennsylvania for these products and provide service after the sale.

Contact: Brian Ruffner ■ 412.742.3147
bjr@usmuni.com ■ www.usmuni.com

Waterline Renewal Technologies

Booth 32

Provides trenchless rehabilitation of sewer pipes, manholes, and storm sewers. Our engineered, patented products, technologies, and services are focused on long-lasting solutions that prevent inflow and infiltration of potable water and wastewater systems for municipalities and residential customers. Offers a unique portfolio of products and services through APM, LMK Technologies, Perma-Liner Industries, and LightRay.

Contact: Hank Hulse ■ 570.780.5897
hkhulse77@gmail.com
www.waterlinerenewal.com/informationcenter

Watertap Inc.

Booth 74

A service contractor that has services, which include live taps up to 36 inches with capability to do larger, Line Stops up to 42 inch with capability to do larger, Valve Insertion from 4 inch to 16 inch. Watertap's services are preformed on a variety of pipe types while the system remains in service avoiding shutdowns.

Contact: Eric Olsen ■ 248.974.7122
eric@watertapinc.com ■ www.watertapinc.com

Watertite Inc.

Booth 11

Crystalline Permanent (self healing) waterproofing, chemical protection (ph12 – ph 1 constant contact, sanitary and DOT chloride applications), and repairs of concrete, which includes negative side waterproofing.

Contact: John Ladas ■ 717.469.0058
j.ladas@comcast.net ■ www.xypex.com

WC Weil/PumpMan Pittsburgh

Booth D

A manufacturers' representative and repair/service provider for municipal, industrial, and commercial water and wastewater treatment equipment/systems. WC Weil/PumpMan represents numerous pump, valve and pump system manufacturers and serves the Western Pennsylvania, West Virginia, Eastern Ohio, and Maryland Panhandle markets. The company's services include: new equipment sales; start-up; routine inspection; field troubleshooting, and repair.

Contact: Greg Madia ■ 412.487.7140
gmadia@wcweil.com ■ www.wcweil.com

Exhibitors

Whitney Bailey Cox & Magnani, LLC **Booth 1**

A full-service engineering firm founded in 1977 and based in Baltimore, MD with multiple offices in the Mid-Atlantic region. Along with experienced personnel, our sound management and quality assurance approach guarantee a professional product completed on schedule. Services provided include Building Structures, Transportation, Marine, Industrial, Geographic Information Systems, Innovative Technology, Site/Civil, Construction, and Other Support Services.

Contact: John Perkun ■ 412.221.1440
jperkun@wbcm.com ■ www.wbcm.com

WinCan LLC **Booth 10**

WinCan VX is an innovative data collection and analysis software that has the ability to make critical decisions based on data collected from pipeline inspections. Once collected, this data and video can be shared and delivered effortlessly through a cloud-based service called WinCan Web.

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Xylem Dewatering Solutions **Booth 53** **DBA Godwin Pumps of America**

Maintains a fleet of 6,000 portable pumps and 3,200 pieces of related equipment for use in construction dewatering. Mining, drinking water supply and water/wastewater bypass. Available in sizes 2 inches to 24 inches. The Dri-Prime Pump features Priming to 28-feet, dry running and solids handling capabilities.

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