

WEDNESDAY, APRIL 17, 2019 MANAGEMENT

1:30 PM - 2:00 PM

DANIEL H. JEON, PE, PMP is a senior project manager with Gannett Fleming in Baltimore, MD. He worked on over \$2 billion in program management projects for Baltimore City Department of Public Works and New York City Department of Environmental Protection and has managed design projects including collection systems, water and wastewater treatment plants and related facilities. He received his bachelor's degree in Civil and Environmental Engineering from Utah State University and master's degree from Cornell University.

RACHEL L. GOVELOVICH, PE, is a project manager with over 18 years experience in the Water Practice at Gannett Fleming in Camp Hill, PA. Responsibilities include client management, performing and coordinating technical studies, planning studies, financial evaluations, permit applications, general consulting, and other engineering services for water and wastewater systems. Rachel received her bachelor's degree in Civil Engineering Technology from the University of Pittsburgh.

2:00 PM - 2:30 PM

PATTI KAY has been with EPA Region III for 33 years performing a wide range of duties including: state grants and contracts management; Consumer Confidence Report Rule, Public Notification Rule and the Revised Total Coliform Rule workgroup participation; and implementing climate change initiatives within the drinking water program. She has a Bachelor of Science degree in environmental science from Cook College, Rutgers University. Since 2002, she has been the Drinking Water Security Coordinator in the Drinking Water Branch, working on security and emergency preparedness related matters; leading efforts to staff a regional Water Support Team to provide support to the states and utilities in the event of an emergency. In 2015, she had the opportunity to serve as the Drinking Water Branch Chief. She is a lifetime member WWOAP and a Silver Drop member of PA section AWWA.

2:30 PM - 3:00 PM

GEORGE KUNKEL, PE is Principal of Kunkel Water Efficiency Consulting and has over 38 years of water utility and consulting experience, and led the successful water loss control program in Philadelphia for over 20 years. He is active in the American Water Works Association (AWWA) and served as chair of the Water Loss Control Committee. Mr. Kunkel is currently the chair of the subcommittee that publishes AWWA's M36 guidance manual on water loss control and is a co-author of the AWWA Free Water Audit Software. He was the recipient of the 2010 Water Star Award from the Alliance for Water Efficiency, and the AWWA Peak Performance Award in 2016. He is a well-regarded thought leader on water auditing and loss control in North America.

3:00 PM - 4:00 PM

RICHARD MICHELFELDER, PH.D. is a clinical associate professor of finance at Rutgers University, School of Business - Camden and President of EXP 1, LLC, an international public utilities consulting firm. He has almost 35 years of experience performing electric, gas, water and sewer cost of service, rates, and load studies. Previously he was CEO and Chairperson of the Board of Quantum Consulting, Inc., an international energy efficiency and public utility consulting firm specializing in load research and energy efficiency studies and Quantum Energy Services and Technologies, LLC., an energy services company that he co-founded. As vice president during the startup years, he helped to co-found and build Converge, Inc., currently one of the largest demand response firms in the world. He was vice president of Connectiv Solutions, LLC and Director of Energy Services at Atlantic Energy, Inc., which he founded and built into a successful energy and water service company as a division of Atlantic Energy, Inc. Richard has also held executive and management positions at Atlantic Energy, Inc. and was also Chief Economist at AUS Consultants. During his tenure at Atlantic, he also has been responsible for the holding company business plans reporting to the CEO, integrated resource planning, electric cost of service, load research, and demand-side management. He has testified before a number of state regulatory agencies and the FERC on issues related to gas utility acquisitions, water load research, the cost of service, the cost of capital, energy efficiency, and incentive rate mechanisms that encourage energy efficiency programs by utilities. He has published numerous articles and holds a Ph.D. in economics from Fordham University.

GARY D. SHAMBAUGH is currently the Managing Principal of Shambaugh Utility Consulting, LLC a public utilities financial consulting firm. He has over 46 years' experience providing consulting services to electric, natural gas, water, sewer and cogeneration clients in numerous states, Canada and England. Prior to the creation of Shambaugh Consulting, he was an Executive Vice President and Managing Principal of AUS Consultants, Inc. a nationally recognized utility consulting firm. In that role, he has testified in over twenty states in federal bankruptcy courts, before utility regulatory commissions and in state common pleas courts. His expertise is all encompassing in the regulatory arena and includes the development of annual revenue requirements, depreciation, cost of service, customer tariff rate design, water load studies, business enterprise valuations, cash working capital, utility regionalization studies, rate base determinations and has performed the financial due diligence related to the sale and acquisition of water and sewer systems. Shambaugh's testimony (regarding water and sewer rates) was reviewed by the Mississippi State Supreme Court and affirmed. He was appointed by a New Jersey court to serve as an arbitrator involving litigation related to the forced sale of a

privately-owned water utility. He is an accounting graduate of Harrisburg Area Community College and has further studies in utility accounting, depreciation, and cost of service. Shambaugh has authored several articles and has been a guest speaker at numerous utility conferences and seminars. Shambaugh also taught the advanced water and wastewater course for the New Mexico State University's Center for Public Utilities.

4:00 PM - 4:30 PM

ROY MUNDTY is the lead executive with the American Water system, retiring as President/CEO of KY-American Water Co. He has served as Section Chair and on several national committees of AWWA, Board of Directors and national committees of NA WC, Chair of ORSANCO, member of Kentucky Infrastructure Authority; member of ASCE, NSPE, AWWA, currently serving on AWWA - Business Practices Standards Committee. Roy Mundy is currently serving as Senior Regional Engineer for McWane Ductile, assisting utilities and engineering firms with value engineering of pipeline projects, education in pipeline material selection, and assistance with specification development and updating.

WATER QUALITY / TREATMENT

1:30 PM - 2:00 PM

SOPHIA LISKOVICH, PE is a Project Manager in the Water Department of Gannett Fleming, located in the Baltimore, Maryland office. She has 17 years of experience with water treatment, storage, and transmission. She is a past Chair of the Chesapeake Section of AWWA and is a recipient of the Carl J. Lauter Award for distinguished service in the water supply field. Sophia is a registered PE in Maryland and Florida.

2:00 PM - 2:30 PM

ANDY ODORZYNSKI joined Induron in 2016 as the company's National Sales Manager. Before Induron, Andy spent the first 15 years of his career on the contracting side of the coatings industry. Beginning his career in the field as an applicator, Andy moved on after earning his NACE Level 3 certification to join one of the nation's leading storage tank manufacturers. During his time there, Andy worked on various teams estimating, selling, and managing coatings projects. Andy studied at the University of Louisville, earning his BS in Finance and an MBA on his nights and weekends. In 2010 he became one of less than 250 SSPC Certified Protective Coatings Specialists in the country. He is also an SSPC Certified Concrete Coatings Inspector as well as a C3 Lead Removal Competent Person.

DAN GOLDHAHN is a Project Engineer at I.K. Stoltzfus Service Corp assisting with project management, field installations, and engineering design. Four years in the field and 2 years as an engineer has proven valuable in problem solving and understanding issues from both perspectives.

JOHN STOLTZFUS is the President and 2nd generation owner of I.K. Stoltzfus Service Corp. Located in Lancaster County, I.K. Stoltzfus is a water tank maintenance contractor with services that include tank upgrades, tank repairs & tank coatings. The company was established in 1959.

2:30 PM - 3:00 PM

JIM DEWOLFE has 30 years of experience in the planning, design and start-up / commissioning of water treatment systems, and management of distribution system water quality. As Water Treatment Operations Leader for Hazen and Sawyer, Mr. DeWolfe oversees and manages efforts nationally to help develop and execute strategic initiatives for treatment plant operations and designs in the municipal drinking water sector. His holistic and team building skills have earned him a favorable reputation in guiding sustainable and optimized solutions for routine operations and complex challenges. Mr. DeWolfe is a US Navy Submarine Force veteran, has a BS and MS in Environmental Engineering from Penn State, and is a Class A Certified Waterworks Operator. He is the former Chair of the AWWA Coagulation and Filtration Committee, and a current member of the Source Water Protection Technical Advisory Workgroup (TAW) and B100 Granular Media Standards Committee.

3:30 PM - 4:00 PM

MIKE DIRTH earned his Bachelors of Science degree in Chemical and Petroleum Refining Engineering from the Colorado School of Mines - Golden, Colorado in 1983. He immediately began a career in the Industrial Gas Industry as a Sales Engineer for Liquid Air Corporation in Willowbrook, Illinois. Several years later he became a CO2 Applications Engineer and Technical Services Manager for Carbonic Industries Corporation and Airgas Carbonic in Duluth, Georgia. (1986-1989; 1993-2002). In the early '90's Dirth worked as a Process Engineer for the Clorox Company where he developed the process for the National production of Clorox 2 in the Company's state of the art manufacturing facility in Dyersburg, TN. In 2002 he joined TOMCO2 Systems in his current role as Product Manager for the Water Technologies Division. Dirth has over 25 years of Applications Engineering experience in the CO2 Industry and utilizes this experience assisting Consulting Engineering firms with the design of CO2 pH control systems for Municipal Water Treatment Plants throughout the United States and Canada. He has been involved with the design over 500 CO2 pH control systems in his career.

4:00 PM - 4:30 PM

TODD PLANK has 25 years' experience as a GIS consultant. He provides GIS, GPS and web-mapping support to clients in addition to data analysis and management for GHD projects. Experience includes storm water, water and wastewater systems inventory, inflow and infiltration evaluation and modeling, web-

mapping, GPS and data collection, database applications, and implementation of GIS for a wide range of projects.

THURSDAY, April 18, 2019 MANAGEMENT/DISTRIBUTION

8:00 AM - 8:30 AM

ADAM T. CARPENTER works in AWWA's DC Government Affairs Office, and serves as an expert and advocate on a diverse set of drinking water issues including source water protection, the energy-water nexus, cyanotoxins, climate change, hydraulic fracturing, consumer confidence reports, and other environmental policy concerns. Along with his colleagues, he works to further AWWA's mission of supporting clean, affordable drinking water through sound application of science into policy, sensible regulation, public awareness, and building stakeholder consensus. He holds a bachelor's degree from George Washington University in biology, a master's degree from Johns Hopkins in environmental sciences and policy, and is pursuing a Ph.D. in environmental policy from George Mason University.

8:30 AM - 9:00 AM

JAMIE SHAMBAUGH is the Water Business Line Leader for all Pennsylvania offices for Gannett Fleming. He is also the Principal Engineer for the Water Business Line responsible for water quality and water supply technical and planning studies, treatment process selection and plant operational studies. Responsibilities include treatability studies, water quality evaluations, bench- and pilot scale testing, regulatory compliance, evaluation of treatment process alternatives, preparation of basis-of-design reports, preparation of opinions of probable cost, and preliminary and final designs. He holds a BS in Environmental Engineering from Wilkes University and a Masters in Environmental Engineering from The Pennsylvania State University.

MATT CARNISH has been with Gannett Fleming for 33 years and as a Senior Project Design Manager of the Water Practice is responsible for design of a wide-range of water treatment, pumping and distribution projects. He has earned an A.A.Sc. in Civil and Constructional Technology from Lehigh Carbon Community College, B.S. in Water Resources Engineering from Pennsylvania State University, and a M.S. in Civil Engineering (Hydraulics) from the University of Cincinnati. Matt is registered professional engineer in six states, and holds a Pennsylvania Class A Water Operator license.

9:00 AM - 9:30 AM

JOHN BRUTZ is the General manager of 540 Technologies, a premier environmental and data solutions provider that works with cities, municipalities, private and public utilities, engineering firms and colleges and universities to help them become more efficient, cost effective and environmentally responsible. John is a lifelong environmental professional who began his career in 1988 after attending the Indiana University of Pennsylvania. His core work has included Technical Environmental Sales Consulting specializing in customer need assessment and solution development and implementation; management and operation of water distribution systems implementing innovative approaches to achieve maximum efficiency, management and operation of water filtration plants with heavy focus on plant optimization; management of wastewater collection systems with 1&1 program integration; as a PA DEP Outreach Instructor working on site with non-compliant drinking water systems to achieve both long and short term regulatory compliance; as a PA DEP Water/Wastewater Certification Board Member and Chairman worked heavily to develop and implement PA's current module certification program.

9:30 AM - 10:00 AM

ROCKY CRALEY is a senior manager with Raftelis based in western PA and has served as a consultant on water, wastewater and stormwater rate and cost of service studies, including studies for Pittsburgh Water and Sewer Authority and the City of Reading Sewer Division. Mr. Craley provides several other services including bond feasibility reports, consolidation/regionalization feasibilities, litigation support, and finance department management services.

ROBERT WEIMAR brings his 47 years of water industry experience to Pittsburgh Water and Sewer Authority as the Executive Director. Weimar guided PWSA in its capital program implementation as well as its Engineering and Construction Department capacity. He is managing the "renewal" of the PWSA organization and utility infrastructure to comply with the PA Public Utility Commission rules and regulations. PWSA's current plans will invest more than \$1 Billion in the next 5 to 7 years. Robert has been honored with several industry excellence awards and was recently named "2018 Engineer of the Year" by the Engineering Society of Western Pennsylvania. A Board-Certified Professional Water and Wastewater Engineer he has authored or coauthored pieces on water supply, wastewater conveyance, and Green Infrastructure strategic topics.

10:30 AM - 11:00 AM

KEITH CARTNICK has over 35 years of experience in the environmental field, with a focus on water quality and treatment, regulations, and laboratory operations. Responsible for overseeing water system operations and research activities, including source management, cyanobacteria management plans, treatment plant operations, distribution system water quality, and compliance with federal and state drinking water regulations. Laboratory experience includes management of operations, laboratory QA/QC functions and oversight of data management systems. Currently chair of the AWWA Cyanotoxin Technical Advisory Workgroup.

11:00 AM - 11:30 AM

RON MILKE has been in the Environmental Testing field for 29 years. He has held positions as a bench chemist, project manager, and account executive. His previous employers were R.E.L., S.T.L., Test America, and QC Labs. His current position is with Eurofins Eaton Analytical, where he serves as an Account Manager for the Mid-Atlantic states. There are two Eurofins Eaton facilities: one in Indiana and the other in California. These are premier water testing laboratories serving both national and international sources, water systems, and bottling companies. Ron is a graduate of Stockton University, located in Pomona, NJ, where he earned a bachelor's of Science degree in Oceanography.

1:30 PM - 2:00 PM

ROBERT HORVAT has more than 25 years of industry experience in the municipal, water, and wastewater fields, including operations, applications, and engineering. He is responsible for managing all aspects of Entech Engineering projects out of our Pittsburgh, PA office, including feasibility studies, preliminary and final design, permitting, specifications, and operational troubleshooting to help clients make more informed decisions. Rob has managed clients ranging from small municipal water and wastewater clients, to larger municipal and private water clients. He is the WPWPCA West Tec Conference co-chair and Collection Systems Committee member.

2:00 PM - 2:30 PM

CHRISTINE GUNSAULLUS brings a unique blend of book-smarts and field experience to Entech Engineering. Dual engineering degrees from Drexel University, coupled with 24 years of storage tank building, repairing, and coatings inspection at several tank and tank inspection firms earned her the title "Storage Tank Queen". She frequently presents at regional and national AWWA conferences, sharing tank tips and explaining how to prevent coating catastrophes.

2:45 PM - 3:15 PM

MATTHEW JUNKER has worked for the Municipal Authority of Westmoreland County as Public Relations Specialist for three years and is a member of the AWWA's national Public Affairs Council. In addition to PR, he oversees legislative communications and works with water quality staff on lead communications, policies and practices. He is a graduate of Pennsylvania State University.

3:15 PM - 3:45 PM

CARL SHARKEY has more than 20 years of experience in the water industry, and was involved with the evolution of water loss control technologies and approaches over this time. As a current member of both the AWWA Water Loss Control and Customer Metering Practices Committees, as well as a contributing member of the M6 Meter Manual revision subcommittee he is up to date on the current trends in regulations and legislation associated with water loss and the new requirements placed on water agencies. Carl holds a degree in Economics from University College Dublin, Ireland.

3:45 PM - 4:15 PM

JOSEPH FUSILLO, PE has over 20 years of engineering and management experience in the water and wastewater industry. Prior to joining the EADS Group, he served as the Director of Water Resources for Sidney B. Bowne & Son, LLP; Infrastructure Resource Practice Group Leader for Carollo Engineers in Florida; Assistant Sanitary Engineer for the Mahoning County Sanitary Engineering Department in Youngstown, Ohio; and Senior Project Manager in the Environmental Dept. at URS in Akron, Ohio. He has extensive design experience in conventional and non-conventional pipeline construction techniques. He has also designed and supervised construction for elevated and ground water storage tanks, water booster/softening and pump stations, sanitary booster and lift stations, and sanitary vacuum sewers and stations. He conducts master planning for water and wastewater distribution and collection systems and facilities, water rate studies, and cost estimating. He has brought state-of-the-art design techniques to the Bowne Water Resources Practice Group, utilizing new and best available technologies for water production wells, as well as nitrate, perchlorate and VOC removal facilities. He holds a B.S.A.S. in Civil Engineering Technology from Youngstown State University.

4:15 PM - 4:45 PM

NICOLE CLARKE - Manager of Tank Industry Consultants' East Region, Nicole serves as client liaison in the development and execution of tank rehabilitation and new tank construction projects throughout the eastern portion of the United States. Her responsibilities include project management to help assure smooth-running, quality projects that are on schedule and within budget, and troubleshooting potential problems quickly in order to achieve solutions that are in the best interest of Tank Owner. Since joining TIC in 2009, Nicole has been actively involved in tank evaluation, rehabilitation, and new tank construction projects for a number of east coast clients including four of the largest American Water subsidiaries, several large eastern water systems. Nicole is a graduate of Clarion University of Pennsylvania and has been involved in the structural coatings industry for more than 15 years.

4:45 PM - 5:15 PM

MIKE MCGILL has spent his entire career as a leader in journalism and public communications. Before founding WaterPIO, a PR firm focused on helping water utilities, he directed communication and customer service operations for water utilities for a dozen years. His positions included Chief Communications Officer for Cape Fear Public Utility Authority in Wilmington, North Carolina; Director of Customer Relations and Communications for Loudoun Water; and Public Affairs Unit Coordinator for the Washington Suburban Sanitary Commission

(WSSC) outside of Washington, DC. Mike is a graduate of Syracuse University and began his career as a news producer in CNN's Washington bureau, and as the Planning Editor for WUSA-TV News in Washington, DC.

WATER QUALITY/TREATMENT**8:00 AM - 8:30 AM**

ROBERT NEWTON, PE is the Director Business Development OSHG for De Nora-MIOX and has 30+ years in water & wastewater sector in both municipal and multiple industrial and institutional/commercial verticals. He has solid working knowledge across numerous innovative and conventional technologies and applications in water, wastewater & water reuse treatment across a variety of vertical markets including Oil & Gas (upstream & downstream), Food & Beverage, Power, and Municipal Water & Wastewater. He has had relevant global experience in North America, Asia, Latin America, Middle East and Australia/New Zealand. Bob holds a B.S. in Chemical Engineering from Drexel University and has previously held his Professional Engineering license in NY, MA and TX.

8:30 AM - 9:00 AM

JOHN CIVARDI has a BE and ME from the Stevens Institute of Technology and has over 30 years of experience in the drinking water industry. His is Mott MacDonald's global water and wastewater treatment practice leader. His is a co-author of AWWA's 2nd edition of the Iron and Manganese Handbook.

9:00 AM - 9:30 AM

HOLLIE SCOTT, PE has over thirty years of experience in the water and wastewater treatment industry which includes an in-depth understanding of specific water treatment technologies and the fundamentals of how they operate. Much of that experience focused upon the application of a broad spectrum of products for treating water and wastewater. Technologies included biological treatment involving nutrient removal, potable water treatment, membrane filtration in potable water treatment and wastewater treatment applications, disinfection, industrial process water treatment, physical/chemical treatment of industrial wastewaters, biological treatment of industrial wastewaters, ground water remediation, and more. Over the course of his career, he has been involved in technology selection and application for several thousand projects.

9:30 AM - 10:00 AM

ERIC FORRESTER is an Applications Engineer for the Municipal Business Unit at Calgon Carbon Corporation, where he is responsible for product selection, treatment system design, and application troubleshooting for municipalities across the United States. He has been the primary technical point-of-contact for municipal PFAS removal applications since the announcement of the EPA Health Advisory level in May 2016. He graduated summa cum laude from The State University of New York at Buffalo, earning a B.S. in Chemical Engineering and a B.A. in Mathematics.

10:30 AM - 11:00 AM

CHARLIE LIU, PE is a professional engineer with more than 30 years of experience in the planning, design and operation of water and wastewater systems ranging from 0.1 MGD to 240 MGD. Charlie Liu participated several training programs for water and wastewater professionals that include Drexel University - served as an adjunct faculty for a training program for professional engineers in biological treatment; Montgomery County Community College (PA) - served as an instructor for a PaDEP training program for wastewater facility operators; and, PaAWWA - served as an instructor for a training program on hydraulics for water facility operators. Charlie has participated in the publication of many technical design and operation manuals for PWEA and WEF. He also has presented technical papers in both water and wastewater treatment technologies at several national and state AWWA/ACE and PWEA conferences.

11:00 AM - 11:30 AM

RYAN THOMAS, PH.D. is a member of the Innovative Technology Group (ITG) at GHD based in Niagara Falls, New York. He has helped develop per- and polyfluoroalkyl substances (PFAS) fact sheets and technical regulatory guidance for the Interstate Technology and Regulatory Council (ITRC). He has provided guidance on acceptable and prohibited items in addition to helping to establish GHD PFAS sampling protocols. Ryan is a co-leader to both GHD North America's PFAS Steering Committee and ITRC's Fate and Transport, Physical and Chemical Properties, and Site Characterization subgroup. Within ITG, Ryan is performing research to improve treatment technologies towards PFAS.

1:30 PM - 2:00 PM

ORREN SCHNEIDER, PH.D. PE is a scientist and engineer with more than 30 years of experience. Orren combines his technical knowledge with innovation for practical, holistic solutions. He is an expert in evaluation and design of advanced coagulation, clarification, filtration, disinfection, and membrane technologies for water treatment. Orren has worked for more than 13 years as Environmental Engineer and Manager Water Technology at American Water. He has written the research paper 'Ultrasonic algae control at the Canoe Brook Reservoir'. This paper evaluates the usage of LG Sonic MPC-Buoy systems to monitor and control algal blooms in a large raw water reservoir. Orren obtained a Ph.D. in Civil Engineering from the University of Massachusetts at Amherst.

2:00 PM - 2:30 PM

STEVEN MARRANO, P.E. is currently the manager of Electrical Engineering at Aqua PA where he supervises design and operation of electrical systems in water and waste water facilities throughout South Eastern PA. He has developed and implemented standards for both design and maintenance of electrical and controls based equipment. His past experience

includes design and construction of water and waste water facilities. Marrano is the author of a textbook *The Electrical Design and Specification Guide for Industrial Facilities*. He has also authored material for the Instruments Systems and Automation Society (ISA) and served as past editor of the Water/Waste Water Industries Division of ISA. He is a Registered Professional Engineer and he has obtained his Water Treatment license both in Pennsylvania. Marrano is a 1988 graduate of the Stevens Institute of Technology and was commissioned in the United States Army as a Second Lieutenant that same year.

2:45 PM - 3:15 PM

STEPHEN WALDVOGEL, PE has 20 years of engineering and utility management experience. He has directed a broad range of technical and financial projects including; PPPs, utility consolidations, organizational restructuring, efficiency improvements, regulatory compliance, rate studies, water system design and others. Recently, Stephen has worked intensively with several clients to address harmful algae bloom contamination in their drinking water supply. Due to the nature of public projects, Stephen regularly presents his work at public meetings and works closely with municipal officials.

3:15 PM - 3:45 PM

JIM BALLIET is a Senior Project Manager for Gwin Dobson & Foreman Engineers in Altoona, PA. He is a Penn State University graduate with 29 years of extensive experience in the planning, design, and operation of water and wastewater systems. He is a certified water and wastewater operator and has worked with more than two-hundred and fifty water and wastewater systems throughout Pennsylvania, Maryland, and West Virginia. Jim is active in numerous water and wastewater organizations including PRWA, PMAA, AWWA, and WEF.

3:45 PM - 4:15 PM

FRANK SIDARI, PE Over 20 years of engineering and project management experience supporting the built environment through engineering and research, with 18 years of experience with Legionella. Sidari has specialized experience integrating engineering and infection prevention; including Legionella, waterborne pathogens, water quality, risk assessment, water safety/management programs (ASHRAE 188), and treatment of potable and non-potable building water systems. He also has experience with all phases of engineering projects; including development, design, construction, and operation. He has over 50 publications and presentations on Legionella, water management, drinking and wastewater. He completed the first U.S. evaluation of chlorine dioxide for the control of Legionella in a hospital water system

4:15 PM - 4:45 PM

DAVID WOODS joined TIGG, LLC as a Senior Applications Engineer in 2018. Prior to that, he was the Chief Technology Officer for Water and Energy Systems Technology, Inc. in Mesa, Arizona. In the years with WEST, he built and established the company as a leading supplier of industrial, commercial, and institutional water treatment chemicals and consulting services in the Southwest US. He was awarded 2012 Vendor of the Year by the AT&T Corporation for Sustainability. His efforts were recognized to yield significant water and energy savings with attractive return on investment. Other contributions included developments in reclaiming and reusing process waste water, reclaiming or extracting metals, hydrometallurgical processes, and corrosion Mitigation in water systems. Early in his career he worked as a Process Engineer and Operations manager for US Steel - Geneva Works in the Coke and Coal Chemical Division and Open Hearth.

4:45 PM - 5:15 PM

PAUL YAROSCHAK, PE served as the Dir. of Environmental Compliance and Restoration Policy in the Office of the Asst. Sec. of the Navy from 1991 to 2006. He also acted as Deputy Asst. Sec. of the Navy between political administrations. His responsibilities included policy formulation, oversight of a \$1 billion annual environmental program, and negotiations on issues related to environmental compliance, restoration and pollution prevention. From 2006 to 2016, he served as the Deputy for Chemical & Material Risk Mgmt. in the Office of the Sec. of Defense. He was instrumental in developing a program to identify, assess, and develop risk management actions for emerging contaminants. Yaroschak is currently the President of Sustainable Methods, LLC and also serves as Innovation Mgr. for the Water & Environmental Technology Center, Temple Univ. He graduated from Villanova Univ. with a B.S. in Civil Engineering and was commissioned as an Ensign in the Civil Engineer Corps of the U.S. Navy. While on active duty, he developed an environmental program for a Naval Air Station and obtained a M.S. in Environmental Engineering from Northeastern Univ. He then began a civilian career with the Naval Facilities Engineering Command in Alexandria, VA. After completing the Navy's 36-month Exec. Mgmt. Dev. Program, Yaroschak became the first Dep. Asst. Commander for Environment, Safety, and Health at the Naval Facilities Engineering Command. During the 1980s, Yaroschak was instrumental in developing the Navy's environmental program structure and managed a \$300 million per year budget for pollution abatement projects. In 1989, he became Head of Shore Facilities Environmental Protection in the Office of the Chief of Naval Operations. In 1992, he accepted a position with the newly formed Office of the Asst. Sec. of the Navy (Installations and Environment). In this position, he developed the Dept. of the Navy's first environmental program strategic plan and had extensive interactions with the regulator community.