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 energy projects in all 50 states, Canada, and England. Prior to the creation of Shambaugh Consulting, he was an Executive Advisor with AECOM, a national recognized utility consulting firm. He has published numerous articles and holds a Ph.D. in economics from Fordham University.

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Richard Michelfelder, Ph.D., is a clinical associate professor of finance at Rutgers University, School of Business – Camden and President of EXP, LLC, an international public utilities consultant. He also has 10 years of experience performing electric, gas, water and sewer cost of service, rate and load studies. Previously he was CEO and Chairman of the Board of Quantum Consulting, Inc., an international energy efficiency and public utility consulting firm specializing in load research and load research and demand-side management. He has over 38 years of water utility and consulting experience and is a recognized leader on water auditing and loss control in North America. In the past, he has been a registered PE in Maryland and Florida. In his current position, he 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 and a B.S. in Civil Engineering from the University of Cincinnati. Matt is registered as an Engineer in Pennsylvania and Maryland, and holds a Pennsylvania Class A Water Operator license.

MARTIN H. LINDELL is the Senior Director of Engineering at Veolia Water Technologies North America. In this role, he is a strategic leader who is responsible for the development and delivery of water and wastewater technologies and solutions. He 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 and a B.S. in Civil Engineering from the University of Cincinnati. Matt is registered as an Engineer in Pennsylvania and Maryland, and holds a Pennsylvania Class A Water Operator license.

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6:30 AM - 7:30 AM  

**PAWPAW (802) 524-7600**  

**9:00 AM - 9:30 AM**  

**WATER QUALITY/TREATMENT**  

**ROBERT NEWTON**  

Robert Newton has led Business Development OSHG for De Nora-MIOX and has 30+ years in water & wastewater treatment, environmental and multiple industry and institutional/commercial verticals. He has sold working knowledge into numerous innovative and conventional technologies, including RO, and now grid-scale in a RE neutrality treatment approach to water, wastewater, potable water treatment, membrane filtration in potable water treatment for drinking water and wastewater applications, destination, industrial process water treatment, physical/chemical treatment of industrial wastewaters, biological treatment of industrial wastewater, and more. Over the course of his career, he has been involved in technology selection and application for several thousand projects.

**HOLLE SCOTT, PE**  

Holle Scott, PE, has over thirty years of experience in the water and wastewater fields, including traditional and non-conventional pipeline construction techniques. He has also designed and supervised construction for elevated and ground water storage tanks, water booster/boosting and pump stations, sand filtration systems, tertiary membrane systems, and solid separation sewers and stations. He conducts master planning for water and wastewater systems, including the development of rate structures associated with water loss and the new requirements placed on water agencies. Hollie holds a degree in Economics from University College Dublin, Ireland.

**3:15 PM - 3:45 PM**  

**HR VASAN**  

HR Vasan is a Senior Engineer with more than 15 years in water quality and drinking water treatment, including UF/RO, and MWRO. He has served as a consultant to the EPA on drinking water issues, and has led large-scale projects for drinking water and wastewater treatment facilities.

**3:15 PM - 3:45 PM**  

**JIM BUELLI**  

Jim Buelli is a Senior Project Manager for Gwin Dobson & Foreman Engineers in Arizona. He is a Penn State Graduate with over 20 years of experience in stormwater planning, design, and operation of water and wastewater systems. He is a member of both the AWWA Water Loss Control and Customer Affair Council. In addition to PR, he oversees legislative communications and works with water quality staff on lead and other contaminant issues.

**9:00 AM - 9:30 AM**  

**CHRISTINE GUNSAULLUS**  

Christine Gunaullus 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 the national level, has enabled her to have an in-depth understanding of specific water treatment technologies and the dimensional coverages. She has brought to the table that experience focused upon the application of a broad spectrum of products for treating water and wastewater. Technologies include physical/chemical solute removal, potable water treatment, membrane filtration in potable water treatment for drinking water and wastewater applications, biodegradable, industrial process water treatment, physical/chemical treatment of industrial wastewaters, biological treatment of industrial wastewater, and more. Over the course of his career, he has been involved in technology selection and application for several thousand projects.

**2:45 PM - 3:15 PM**  

**CARL SHATYRY**  

Carl Shatry has over 20 years of experience in the water industry, and was involved with the evolution of water loss controls technologies and approaches over this time. As a current member of the Loss Control Customer Meetings Committees, as well as a contributing member of the M6 Meter Manual Revision subcommittee he is up to date on the latest standards, and in association with loss and the new requirements placed on water agencies. Hollie holds a degree in Economics from University College Dublin, Ireland.

**3:45 PM - 4:15 PM**  

**JOHN CIVARDI**  

John Civardi has been with the Stevens Institute of Technology and has over 30 years of experience in the drinking water industry. He is an Mott MacDonald’s global water and wastewater treatment leader. He has written the research paper ‘Ultrasonic Algal Blooms Control’ and has over 30 years of experience in the drinking water industry. He is an Mott MacDonald’s global water and wastewater treatment leader. His is a co-author of the 2nd edition of the Iron and Manganese Handbook.

**11:00 AM - 11:30 AM**  

**JUDY KROPP**  

Judy Kropp is a Professional Engineer with more than two-hundred and fifty water and wastewater projects throughout the United States. She has been the primary technical point-of-contact for municipal PFAS remediating the announcement of the EPA Health Advisory level in May 2017. She graduated from the State University of New York at Buffalo, earning a B.A. in mathematics.

**2:00 PM - 2:30 PM**  

**ORREN SCHNEIDER, PH.D. PE**  

Orren Schneider, Ph.D. is a scientist and engineer with more than 20 years of experience in the water quality and environmental fields. He has expertise in environmental technology, water treatment, and water quality, including Legionella, water engineering, and infection prevention; including Legionella, wastewater, ground water remediation, and more. Over the course of his career, he has been involved in technology selection and application for several thousand projects.

**2:45 PM - 3:15 PM**  

**DAVID WOODS**  

David Woods joined TIGG, LLC as a Senior Applications Engineer in 2018. Prior to joining TIGG, he was a Government Affairs Director for De Nora-MIOX and has 30+ years in water & wastewater industries. He is a registered professional engineer in NY, MA and TX.

**3:15 PM - 3:45 PM**  

**STEPHEN WALDWGEL**  

Stephen Waldvogel, PE, has 20 years of engineering and municipal water and wastewater industry experience, including the development, design, construction, and operation of water and wastewater systems. He is a member of the AWWA Water Loss Control and Customer Affair Council. In addition to PR, he oversees legislative communications and works with water quality staff on lead and other contaminant issues.

**9:30 AM - 10:00 AM**  

**ERIC FORRESTER**  

Eric Forrester is a Director of the Municipal Business Unit at Calgon Carbon Corporation, where he is responsible for the Business Unit’s overall system design, and application troubleshooting for municipalities across the United States. He has been the primary technical point-of-contact for municipal PFAS remediating the announcement of the EPA Health Advisory level in May 2017. He graduated from the State University of New York at Buffalo, earning a B.A. in mathematics.