

2016 Conference Speaker Bios

DISTRIBUTION

DANIEL A. CARGNEL, PE
Project Manager, Buchart Horn, Inc.

With more than 30-years of professional experience, Mr. Cargnel has served as project manager and process engineer for the planning, design, and construction administration of numerous municipal water treatment and distribution projects in the Mid-Atlantic region. *Education:* B.S. Environmental Engineering, Pennsylvania State University, 1984; M.E. Environmental Pollution Control, Pennsylvania State University, 1995. *Registration:* P.E., Pennsylvania, Maryland, New Jersey, and Virginia

DAVID T. LEWIS, P.E.

Education and Professional: Graduate of St. Mary's Area High School; Bachelor of Science in Environmental Engineering; Associate in Engineering - Surveying Technology. *Occupation:* Professional Engineer - PA, NJ, MA, MD, WV; General Manager - Columbia Water Company; Superintendent - Marietta Gravity Water Company; Certified Operator - PA - Water/Wastewater. *Business Affiliations:* Board of Directors and Past Chairman - National Association of Water Companies; Member American Water Works Association

NICOLE CLARKE

Manager of Tank Industry Consultants' East Region, Nicole Clarke 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. She has been involved in the structural coatings industry for more than 11 years.

SHARON DEL SIGNORE

Sharon is a graduate of Penn State University in Business/Marketing and has been working in the water industry affiliation for over 14 years. She conducts numerous presentations on products and application and is PA DEP certified instructor through PWSA company's PA DEP Training Sponsorship, and is involved in various committees including PA-AWWA and PMAA. Sharon is professionally trained and certified for Level One Distributorship for the products of the Neptune Technology Group factory in Tallassee, Alabama.

KEITH DIXON

Corporate Attorney. Performs project management for Dixon Engineering coating inspection projects; Development of municipal marketing; Work as a Field Technician to insure the requirements of the specifications are met; Assists with Preliminary Maintenance Inspections, Maintenance Inspections, and Warranty Inspections. *Experience:* Work as a Field Technician to insure the requirements of the specifications are met. Assists with Preliminary Maintenance Inspections, Maintenance Inspections, and Warranty Inspections. *Education:* University of Saint Thomas School of Law: JD (Passed Bar Exam in Wisconsin and Minnesota); Bachelor of Science Degree in History from Hillsdale College. *Certifications:* NACE Coating Inspector Level 1 - Cert. No. 7128. *Affiliations:* State Bar Association in Minnesota 1 Wisconsin; National Associations of Corrosion Engineers (NACE)

PAUL H. HANSON, P.E., Regional Director,
Ductile Iron Pipe Research Association

Paul received his Bachelor of Science Degree in Civil Engineering from Valparaiso University. His previous experience includes the position of Project Engineer for a consulting firm, Construction Engineer for a large underground contractor and the positions of Supervisor of Construction and General Superintendent for a water/sewer utility in Suburban Chicago. Hanson joined DIPRA in 1989. He is a Registered Professional Engineer in Illinois and Indiana, an Envision SP and a NACE International Certified Corrosion Specialist. He is a member of the American Water Works Association, NACE International, the American Public Works Association (APWA), and the American Society of Civil Engineers (ASCE).

JOSEPH HOBAN, P.E.

Joseph is a Water Engineer with more than 16 years of experience with potable drinking water storage, supply, and treatment. He graduated from the University of Wisconsin - Madison in 1998 with a Geological Engineering degree. He did not get into rocks; rather his first job out of college was inspecting potable drinking water tanks. Since that time, Joe has climbed over 500 tanks. This includes ground tanks, elevated tanks, steel tanks, and concrete tanks. Joe is a Licensed Professional Engineer in seven states, a Certified Coatings Inspector through NACE International, and a Certified Weld Inspector through the American Welding Society.

GEORGE KUNKEL, P.E.

George is Principal of Kunkel Water Efficiency Consulting, a firm that specializes in water loss control in drinking water utilities. He has over 35 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, having served in multiple roles, including chair of the Water Loss Control Committee. Mr. Kunkel is currently the chair of the sub-committee that publishes AWWA's M36 guidance manual on water loss control and is a co-author of the AWWA Free Water Audit Software. He has been involved in a number of water loss projects in AWWA and the Water Research Foundation, and has authored numerous publications on water loss control. He was the recipient of the 2010 Water Star Award from the Alliance for Water Efficiency.

JOHN MARCISZEWSKI

Director of Business Development for Echologics. His main interest is innovative practices for liquid utility Asset Management. John has 25 years of commercialization experience in high-tech, focusing on the water-energy nexus since 2005. He has a Master of Engineering from UC Berkeley and BSME from Kettering University.

DAVE LEWIS

Dave is the Mid-Atlantic Senior Account Manager for Wachs Water Services. He has more than 20 years of experience in the infrastructure mapping and GIS industry leveraging his background in software development, photogrammetry, data conversion and GIS integration. He has managed conversion efforts for several statewide enterprise GIS initiatives and likewise numerous county and municipal programs focused on water and wastewater applications. Servicing customers in the water distribution field for many years, Dave brings a wealth of experience in areas such as valve and hydrant assessments, unidirectional flushing, flow test programs and the integration of GIS data. A particular expertise is the ability to help utilities apply technology appropriately to improve customer satisfaction, increase efficiency and lower operating costs.

BEN REICHLEY

Ben is the Marketing & Business Development Manager for LB Water. Overseeing the marketing and branding of LB Water's 8 locations, 6 in PA, 1 in MD, and 1 in VA. He works directly with the LB salesman, customers (municipalities, contractors) and many waterworks associations in the mid-Atlantic region. Ben graduated from Juniata College with a B.S. degree in Marketing Communications. He began his working career with LB Water in the mid 70's working summers through high school and college. Post College Ben has been involved in ownership and upper-management with construction technology companies, (Agtek, & Topcon) He return to LB Water in 2010 and assumed the role of Marketing Manager in 2011.

JOHN BRUTZ

John is a Technical Sales Consultant for LB Water where he specializes in distribution and collection system efficiency. His core work involves working with cities, boroughs and municipalities to help establish and implement leak detection and I & I programs with modern technology integration. He has been with LB Water since 2007. John attended the Indiana University of Pennsylvania and began his career in the waterworks industry in 1988. He operated and managed water and wastewater treatment plants along with distribution and collection systems for 19+ years. He was also an instructor for the Pennsylvania Department of Environmental Protection's Outreach Program where he worked with water system operators at their facilities to educate and train to ensure regulatory compliance. Additionally, he was a member of the Pennsylvania State Board for Certification of Sewage Treatment Plant and Waterworks Operators for nearly 10 years and presided as chairman for 4 of them. During the course of his career he has presented and had published case studies on various industry specific topics and worked with the EPA on regulation development.

STEVEN E. RILEY, P.E.
Director of Project Management

Steven has 25 years of experience in water and wastewater engineering fields. He has served as the project manager on a variety of projects including water treatment plants, well pump stations, and water storage tanks, as well as preparing detailed designs, permit applications, and performing construction phase engineering and management.

CHRISTINE GUNSAULLUS, Director of Business Development I Senior Project Manager

Christine brings a unique blend of book-smarts and field experience to Entech Engineering. Dual engineering degrees from Drexel University, coupled with 21 years of storage tank building, repairing, and coatings inspection and application experience at Fisher Tank, TIC and MBA earned her the moniker "Tankie", which is a compliment. She frequently presents at regional and national AWWA conferences, sharing tank tips and how to prevent coating catastrophes.

MANAGEMENT/

WATER QUALITY

KAREN BENSON

Karen is a hydrogeologist whose experience includes over 20 years of implementation and management of groundwater supply development, management, and permitting projects in the northeast. She has completed hydrogeologic investigations related to groundwater supply development, delineation of groundwater contamination, and Safe Drinking Water Act (SDWA) compliance assistance for private and public water utilities.

ALEX YAVICH

Alex is the founder and technical director at Optimization Solutions Environmental, LLC in Grand Rapids, Michigan. He has over 25 years of experience in environmental field, predominantly in water and wastewater industry. For the past 12 years he has been focusing on optimization of water treatment processes and operations. Alex has a bachelor's degree and a master's degree in chemical engineering and a PhD in environmental engineering. Prior to founding Optimization Solutions, Alex was an assistant professor at Michigan State University (East Lansing, MI).

PHYLLIS BUTLER POSEY
Vice President for Strategic and Regulatory Affairs, Atlantium Technologies Ltd.

Phyllis has been designing, validating and implementing user-friendly systems for several decades. Currently she works with strategic clients to update their UV standards and educates state governments and regulators on innovations in sustainable UV technology. She pioneers applications through scientific research that can guarantee best practices over time. Phyllis serves on the AWWA disinfection committee and the small systems research committee. She actively participates in the International Ultraviolet Association where she has served on the Board of Directors since 2006, is on the technical committee and currently serves as co-chair of the education committee. In Phyllis's previous positions, she obtained Chinese government approval for a new rice seed hybridization technology, produced and directed financial TV programs, designed user-centered systems for testing attack helicopters, business-to-business internet exchanges, supply chain management, and for U.S. Internal Revenue Service communications. Phyllis holds a B.A. in pre-med from Stern College for Women and an M.Sc. in Journalism from Northwestern University.

LORI BURKERT, P.G., Project Manager

Lori is a professional geologist with over 15 years of experience with water supply, source water protection, hydrogeology, and water quality. She is a Project Manager for Entech Engineering, and has a Bachelor's of Science degree from Elizabethtown College and a Master's of Science degree from Lehigh University. She is currently the Vice President of the PA chapter of the American Water Resources Association (PA AWRA).

STANLEY STATES

Stanley is an Instructor with the Texas A&M University, Engineering Extension Service. He has served in that position on a part time basis for 12 years, and on a full time basis for the past two years. In 2013, Stanley retired from the Pittsburgh Water and Sewer Authority (PWSA) after 36 years of service. While at PWSA, Stanley held a variety of positions including Director of Water Quality and Production, and Director of Research. Mr. States holds an MS in Chemistry and a Ph.D. in Biology, and is a certified drinking water operator in Pennsylvania.

MANAGEMENT

VARUN SEKAR

Varun is a Young Professional and has more than six years of experience in Asset Management. Varun is a task lead and project manager for several utility asset management projects in Pennsylvania and the US East Coast. He couples engineering principles and data analytics to produce value outcomes for clients. Varun has been working on utility assessment and workforce development. He has extensive experience in GIS and data analytics tools. Varun is an Institute for Asset Management (IAM) Endorsed Assessor for ISO55000 and PAS55 standards. He received his MS degree in Civil Engineering from Virginia Tech and BS in Civil Engineering from Vellore Institute of Technology.

TORY WAGONER

Tory is a Principal and Director of Operations at Cavanaugh. He has been with Cavanaugh for 16 years, and fulfills many roles including Director of Surveying, IT Manager and Principal Designer. Tory earned his Civil Engineering Degree from North Carolina State University and maintains both his Professional Engineering & Professional Surveying Licenses in the State of North Carolina. Tory's passion is solving problems and he strives to accomplish that in all areas of the firms operations. He is well versed in the company's main focus areas of

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Non-Revenue Water and Bioenergy, providing technical oversight and design support. Tory has recently completed Masters Level Water Loss Control training with Allan Lambert, known internationally as the "Godfather of Leakage Control".

DICK MCDONNELL

Dick is a Business Development Manager for Schneider Electric's Water Wastewater Competency Center. Dick has more than 30 years' experience helping engineers, OEMs and end users specify controls, automation and SCADA solutions. Mr. McDonnell also provides help identifying and implementing new system architectures for automation, security, power distribution and data acquisition with a strong emphasis on achieving operational and energy efficiencies.

HENRY HUNT

Certified Professional Geologist (C.P.G.) Sr. Project Manager/Hydrogeologist; Ranney Collector Wells/ Layne Christensen; Bachelor's Degree in Geology from Lafayette College. Henry has been working in the water supply field for over 38 years. His experience includes hydrogeological investigation for water supply systems, radial collector wells, vertical wells, and siting studies for surface water intakes. He has been involved with design, installation, maintenance and rehabilitation of collector wells, vertical wells, infiltration galleries, beach wells and surface water intakes throughout the United States and in South America. He is a Life member of the American Water Works Association, a member of the American Membrane Technology Association and a 25-year member of the American Institute of Professional Geologists. Henry specializes in the evaluation and development of water supply alternatives across the country and overseas.

ANDREW HOOD

Drew has more than 30-years of experience in the field of water and wastewater treatment for both municipal and industrial clients. In addition, he has 20-years of design-build experience. His experience includes design and construction of water and wastewater treatment plants, piping systems, pumping station, force mains, water supply systems, sludge treatment, and odor control. Drew is the Director of Engineering at Keystone Engineering Group. Graduating from Villanova University in 1985 with a degree in Civil Engineering, Drew Hood has held his professional engineering license since 1991. He is a participating member of the Pennsylvania Water Environment Association (PWEA), Water Environment Association (WEF) and The Eastern Pennsylvania Water Pollution Control Operators Association. He is active in the PWEA wastewater reuse committee and the Eastern Operators Industrial Pretreatment Committee.

WATER QUALITY/ TREATMENT

CHRISTOPHER WALKER

Christopher is a registered professional engineer with 13 years of work experience specializing in the water industry. His expertise includes the design of surface water and groundwater treatment facilities, water distribution systems, water storage facilities, water system booster stations, and investigation/exploration/interpretation of hydrogeological data for groundwater well yields. Christopher has been involved in the design of more than 30 water treatment facilities utilizing such processes as manganese greensand pressure filters, granular activated carbon units, membrane filtration, arsenic removal systems, diffused aeration, conventional coagulation / flocculation / settling / filtration systems, as well as centrifuge and sand drying bed residuals management systems. While in graduate school Mr. Walker's research evaluated, developed, and modeled control technologies capable of optimizing chemical dosing in coagulation/flocculation processes as well as dewatering applications. Mr. Walker's research group at the University of Delaware under the guidance of Dr. Steven Dentel was renowned for their work in coagulation/flocculation control technologies. Mr. Walker's work has been published by the Journal of Colloid Interface Science, American Water Works Research Foundation, Advances in Environmental Research, and the Chemical Engineering Journal.

DOUGLAS CRAWSHAW**Water Quality Manager, The York Water Company**

Mr. Crawshaw has 20 years of drinking water treatment experience, including thirteen years of applied research with the Philadelphia Water Department, four years of operations with Aqua Pennsylvania, and three years with The York Water Company as the Water Quality Manager. Mr. Crawshaw has participated in and led research into enhanced coagulation for DBP control, ozone use for DBP reduction, ozone for metals control through BAF,

manganese control through filtration, advanced oxidation for control of taste and odor causing compounds, and biofilm control in the distribution system. Mr. Crawshaw has been a member of the American Water Works Association for 20 years.

AMY GAO

Amy is a project engineer at CH2M HILL. She has experience in planning and design projects for both water and wastewater treatment systems. She holds an M.S. in Environmental Engineering from The University of Texas at Austin and B.S. in Earth and Environmental Engineering from Columbia University.

RUSSELL FORD

Dr. Ford is CH2M Hill's Global Service leader for Drinking Water and Reuse. He has more than 28 years of experience in developing, evaluating, and designing treatment processes to remove a variety of contaminants from drinking water. Dr. Ford has been performing bench, pilot and full-scale treatability research for optimization and design of treatment processes throughout his career. His focus has always been on applied research that can be used to improve treatment plant performance and/or streamline water treatment plant designs. He has studied and designed all of the applicable unit processes used in drinking water including disinfection systems such as ozone, chlorine dioxide and UV; granular media filtration and membrane filtration; high-rate clarification processes and coagulation chemistry. He has a Bachelor's Degree in Chemical Engineering from Syracuse University and his Masters and PhD degrees in Environmental Engineering from Stevens Institute of Technology. He is a past chair of the New Jersey Section's Research Committee as well as a past-chair of the New Jersey Section AWWA. He is currently a trustee of AWWA's Water Science and Research Division and a member of AWWA's Standards Council. He is a past chair of AWWA's Plant Operations Research Committee. He is an AWWA Fuller Awardee. He is currently an appointed member of EPA's Science Advisory Board's Drinking Water Committee. Dr. Ford is a licensed professional engineer and a licensed water treatment operator. He is also a board certified environmental engineer by the Academy of Environmental Engineers.

SANDRA KUTZING, P.E.

Sandra is a Project Manager for CDM Smith with 14 years of experience. She earned a B.S. in Civil Engineering from the University of Illinois and an M.S. in Civil Engineering from the University of Washington. Ms. Kutzling is a member of the Water for People, Technical Programs and Strategic Planning Committees for the NJ Section.

LINDSEY OLSON, P.E.

Lindsey is a professional engineer at American Water with 16 years of experience in the water industry. She holds her BS/MS from Rutgers University in Civil Engineering and is a PE in NY and NJ. She has played an active role in AWWA as a past NJ Section Board Member and is an incoming Director-At-Large for AWWA.

MICHAEL MEHAFFEY, P.E.**Gannett Fleming, Inc. - Harrisburg, PA**

Mike has been with Gannett Fleming for 10 years, is currently an Associate and is responsible for providing management, engineering, and operations service assistance on municipal water, wastewater, and stormwater assignments. He is well versed in collection, conveyance, and treatment facility systems, including water and wastewater treatment plants (WTP and WWTP), pump stations, transmission mains and stormwater systems. He has earned a B.S. in Civil Engineering from the Pennsylvania State University and a M.E. in Environmental Engineering from the Pennsylvania State University, and is a registered professional engineer in Pennsylvania.

TRISHA L.K. GRAVES, P.E., Gannett Fleming, Inc.

Trisha has been with Gannett Fleming for 6 years, and is a Project Engineer responsible primarily for the layout and design of water and wastewater treatment plants and distribution pump stations through the development of plans and specifications for construction documents. She has a B.S. in Environmental Engineering from Pennsylvania State University and is currently pursuing a M.S. in Water Resources and Environmental Engineering from Villanova University.

JOE NATTRESS, P.E.

Joe is a senior engineer and project manager with CH2M in Philadelphia. He has 18 years of experience identifying and solving water quality and treatment challenges throughout North America on groundwater and surface water supplies. He is a registered PE in several states and active in AWWA in a variety of areas.

MARK ROMERS, P.E.

Mark is registered as a Professional Engineer: Utah. Founder and President (since 1980) of Industrial Control Systems, Inc., a national municipal systems integrator (www.ics-scada.com). American Water's first independent integrator in 1988. Over the last 35 years, ICS has successfully integrated over \$100,000,000 in automation solutions for water plants, wastewater plants, distribution systems and collection systems. From design to implementation, ICS has helped clients all over the country achieve their automation goals and objectives. Manufacturer of Filter Magic pre-packaged filter control systems that utilize unique technologies which are universal, simple, reliable, and cost-effective solutions for surface water plants and wastewater tertiary systems. (www.filtermagic.com). Innovator of filter optimization technologies that substantially reduce excess wastewater during a backwash as well as excess filter-to-waste water thereby increasing filter systems productivity while substantially reducing typical water plant wastewater treatment systems.

J. HOLLAND (HOLLIE) SCOTT, AWE

Mr. Scott has over thirty years of experience in the water and wastewater treatment industry. That experience includes a more 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, Mr. Scott has been involved in technology selection and application for several thousand projects. *Education:* M.B.A., Business, University of Utah, 1985; M.S., Sanitary/Environmental Engineering, Virginia Polytechnic Institute and State University, 1976; B.S., Civil Engineering, Virginia Polytechnic Institute and State University, 1975. *Professional Affiliations:* American Waterworks Association Water Environment Federation

JAMIE SHAMBAUGH

Jamie Shambaugh has been with Gannett Fleming for 17 years, is currently a Senior Associate and as Manager of the Water Process and Operations Group is responsible for a wide-range of water treatment process and operations projects. He has earned a B.S. in Environmental Engineering from Wilkes University and a M.E. in Environmental Engineering from the Pennsylvania State University, is registered professional engineer in Pennsylvania, Maryland, and Florida, and holds a Class A Water Operator license.

MIKE MEHAFFEY has been with Gannett Fleming for 10 years, is currently an Associate and is responsible for providing management, engineering, and operations service assistance on municipal water, wastewater, and stormwater assignments. He is well versed in collection, conveyance, and treatment facility systems, including water and wastewater treatment plants (WTP and WWTP), pump stations, transmission mains and stormwater systems. He has earned a B.S. in Civil Engineering from the Pennsylvania State University and a M.E. in Environmental Engineering from the Pennsylvania State University, and is a registered professional engineer in Pennsylvania

RANDY TURNER

(B.A. Chemistry, University of West Georgia). Randy was a chemist for Southern Company for 33+ years. He was a plant chemist for 17 years and a corporate chemist for 16+ years supporting their fleet of fossil plants. Upon retirement from Southern Company he became the Technical Director for Swan Analytical USA in January 2012. Randy has authored and presented numerous papers on power plant chemistry at conferences and has authored or coauthored papers published in industry journals. He was the chairman of EPRI's Cycle Chemistry Program until he retired and was awarded the EPRI Technology Transfer Award in 2010 for research in Corrosion Product Transport Monitoring and Chemical Cleaning of Supercritical Units. Randy is a member of the ASME Power Plant and Environmental Chemistry Committee of which he is currently the chairman, a member of the ASME Water Management Committee, and ASME PTC 19.11 committee on sampling, sample conditioning, and monitoring. He is also a member of the International Properties of Water and Steam Power Cycle Committee, and is a member of the Advisory Council for the International Water Conference. He is a member of AWWA, WEF, and serves on the AWWA Online Monitoring Committee.