



Collection Systems Committee Seminar Innovative Approaches to Maintenance



Thursday, December 3, 2020
VIRTUAL CONFERENCE
9 a.m. to 12:30 p.m.

Keynote Speaker:
Jackie Jarrell, PE
WEF Past President
Charlotte Water
Chief of Wastewater Operations

Speakers:
Rudy Chow, PE, *Washington Aqueduct*
Burt Curry, PE, *JMT*
Carl Rios, PE, *JMT*
Scott Funk, PE, ENV SP, *Kimley-Horn*
Laura Kirkwood, PE, *Hampton Roads Sanitation District*

REGISTRATION RATES

CWEA Members \$25
Non-Members \$35
Students Free

SPONSORSHIPS

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Agenda

Note: Registrants can enter the meeting 10 minutes prior to start time.

All attendees must be admitted before 9:10 a.m.

- 9:00 a.m. Welcome
Announcements
Recognition of Sponsors
- 9:10 a.m. Jacqueline “Jackie” Jarrell, PE
WEF Past President
Chief of Wastewater Operations, Charlotte Water
Keynote Speaker
- 9:50 a.m. **Data Analysis Captures Capacity Villain**
Burt Curry, PE, Vice President, JMT
2020 WEF Fellow
Carl Rios, PE, JMT
- 10:20 a.m. Recognition of Sponsors
Break – 15 Minutes
- 10:35 a.m. **Beauty of Back to The Basics**
Rudy Chow, PE
Interim General Manager
Washington Aqueduct – U.S. Army Corps of Engineers
- 11:05 a.m. **Large Diameter Pipeline Project in Urban Corridor
Helps Save the Chesapeake Bay**
Scott Funk, PE, ENV SP, Kimley-Horn
Laura Kirkwood, PE, Hampton Road Sanitary District
- 11:35 a.m. Recognition of Sponsors
Closing Remarks

SPEAKER BIOS

Jackie Jarrell, PE, WEF Past President, Charlotte Water

Jackie Jarrell is the immediate past president of the Water Environment Federation (WEF) and Deputy Director with Charlotte Water. Previously, Jackie was the Wastewater Operations Chief responsible for overall wastewater operations with total permitted capacity of 123 million gallons per day (MGD). As a WEF member, Jackie has held multiple leadership and committee roles including with the Program and Utility Management Committees. She is an operator advocate and was instrumental in initiating the Operator Advisory Panel. Also, an active member of the North Carolina Water Environment Association (NCWEA), Jackie served as the MA chair in 2013. She led the development of NCWEA's strategic plan. In 2011, she travelled to Bolivia with Water for People. Jackie is a current Board member and past chair of the North Carolina Water Quality Association, a regulatory advocacy organization of utilities in North Carolina. Jackie is a registered professional engineer in the state of North Carolina and holds a Biological Wastewater Grade II OIT. She received a B.S. in engineering from the University of North Carolina-Charlotte. Jackie is a member of the NC 5S, is a recipient of the Arthur Sidney Bedell Award and along with her colleagues, was awarded the Gascoigne Wastewater Treatment Plant Operational Improvement Medal.

Rudolph S. Chow, PE, Washington Aqueduct

Rudy Chow is currently serving as the Interim General Manager with Washington Aqueduct, a wholly owned division of the US Army - Corps of Engineers, providing drinking water to the Nation's Capital including Arlington County and parts of Fairfax County. Previously, he served as Director of Municipal Utilities and Engineering Department with the City of Redlands in California. He was appointed, under three different mayors, as the Director of Baltimore City Department of Public Works (DPW). He also spent more than two decades with the Washington Suburban Sanitary Commission serving Montgomery and Prince George's counties in Maryland. Under his leadership, Baltimore City DPW underwent a major culture transformation in all aspects of its operations, transforming the department into an industry leader and winning numerous local and national awards. While there, he aggressively tackled much needed upgrades in the city's aging infrastructures. Additionally, he established a Small Business Program to assist small, start-up businesses in competing for the city's annual CIP's; and created a water industry mentorship program to help city residents who are either underemployed or unemployed enter the field of water utility.

Chow is recognized nationally for his visionary leadership and has served on a number of professional organizations, including the EPA's Environmental Financial Advisory Board. More recently, he served on the Stormwater Infrastructure Funding Task Force as a co-chair in response to Section 4101 of the 2018 America's Water Infrastructure Act (AWIA). He has served on the Board of Directors with the National Association of Clean Water Agencies, as well as the Association of Metropolitan Water Agencies. He also chaired the Government Affairs Committee with the Water Environment Federation.

Amongst his many local and national awards, his most notable include being named as the 2019 "Top Ten Public Works Leaders" by the American Public Works Association, "Civil Engineer of the Year" by the ASCE Maryland Section, "Large Utility Manager of the year" by the Chesapeake Water Environment Association, and "Engineer of the Year" by the Engineering Society of Baltimore.

Chow holds a Bachelor of Science in Civil Engineering from the George Washington University and a Master of Science in Environmental/Water Resources Engineering from the University of Maryland. He is a licensed Professional Engineer in the states of Maryland and Delaware.

Burt Curry, PE, JMT, WEF Fellow

Burt Curry's interest in hydraulics began as a research assistant in the Hydrology Lab at Penn State over 40 years ago. Since then he has helped water utility clients solve infiltration and inflow problems, performed research for AWWA, and served as managing director of an international wastewater consultant. Burt has a special interest in graphical communication of complex engineering concepts, and has presented at numerous regional and national conferences. He was Water Engineering Practice Leader at JMT for over 10 years, and has been active in CWEA and on the Collection Systems Committee. Burt wears Golden Manhole Awards from both NYWEA and CWEA, and was recently named a Fellow of WEF.

Burt Curry is a registered PE in several states, and as a NASSCO PACP Trainer has trained over 100 certificants.

Carl Rios, PE, JMT

Mr. Rios is a Professional Engineer who graduated from Virginia Tech in 2012 with a BS in Civil Engineering and has been with his current engineering firm, JMT, since 2015. Mr. Rios primarily works on sanitary sewer and water rehabilitation projects while specializing in hydraulic modeling including the modeling of sanitary sewer collection, potable water distribution, and occasionally storm water conveyance systems. He is the hydraulic engineering analyst on numerous flow monitoring projects underway at JMT and has utilized flow monitoring data to identify the presence of hydraulic restrictions in wastewater systems.

Scott Funk, PE, ENV SP, Kimley-Horn

Mr. Funk is a Senior Project Manager/Associate in Kimley-Horn's Virginia Beach, VA office. He holds a Bachelors Degree in Environmental Science from the University of Virginia as well as a Masters Degree in Civil Engineering from the University of Virginia. He is a professional engineer licensed in Virginia, Maryland, and North Carolina and is a member of VWEA. He has worked as an engineering consultant for approximately 22 years, serving multiple municipal clients throughout Virginia and North Carolina for their water and wastewater infrastructure needs. Mr. Funk is primarily involved in the inspection, evaluation, and rehabilitation and/or replacement design of water/wastewater collection system and conveyance infrastructure. His pipeline experience includes the design of trenchless and conventional open-cut construction of pipelines up to 84-inches in diameter. Outside of work, Mr. Funk enjoys spending time outdoors, enjoying his family and dogs, and watching his two sons play sports.

Laura Kirkwood, PE, Hampton Roads Sanitation District

Laura has served in HRSD's Engineering Department for the last 10 years, beginning in the Planning and Analysis Division and currently in the Design and Construction Division. She is a Project Manager currently overseeing the collection system improvements associated with taking one of HRSD's major treatment plants off-line. Laura earned a Bachelor of Science in Chemical Engineering from the Georgia Institute of Technology and a Master of Environmental Engineering from Old Dominion University. She is a Licensed Professional Engineer in the State of Virginia. Laura is passionate about keeping our communities and waterways clean and enjoys kayaking the Lynnhaven River with her family.