

2018 Resilient Utility Coalition Summit: Operationalizing Resilience Technical Program



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January 25-26, 2018

Marriot Miami Airport
1201 NW Lejeune Road, Miami, FL 33126

#ruc2018



Resilient Utility Coalition 2018 Summit: OPERATIONALIZING RESILIENCE

January 25-26, 2018

Welcome to the #RUC2018 Summit!

The Resilient Utility Coalition is proud to host its first summit: Operationalizing Resilience. The Summit brings together water, wastewater, and storm water utilities with industry, academia, and the greater community for the advancement of utility infrastructure efforts to achieve resilient systems. This first-of-its kind conference will serve to connect the global utility community in identifying solutions and corresponding actions that address resilience challenges faced by utilities. The 2-day program will focus on the “Operationalization of Resilience” within water utilities. The tracks will build on each other progressively through a series of presentations geared toward identifying, planning, implementing, and “Operationalizing Resilience”.

On behalf of the #RUC2018 Summit volunteers, we hope that you enjoy the summit and continue to participate on developing a more resilient future for utilities.



Juan Aceituno



Jorge Acevedo



Hardeep Anand



Marisela Aranguiz



Dianys Arocho



Kevin Carter



Kevin Cevallos



Josenrique Cueto



Paola Davalos



Michael Dirks



Rafael Frias



Andres Gomez



Pedro Gonzalez



Debbie Griner



Catalina Lopez



Carolina Maran



Maria Molina



Carlos Mora



Jonathan Moreno



Juan Oquendo



Jonathan Pappas



Jessica Pappas



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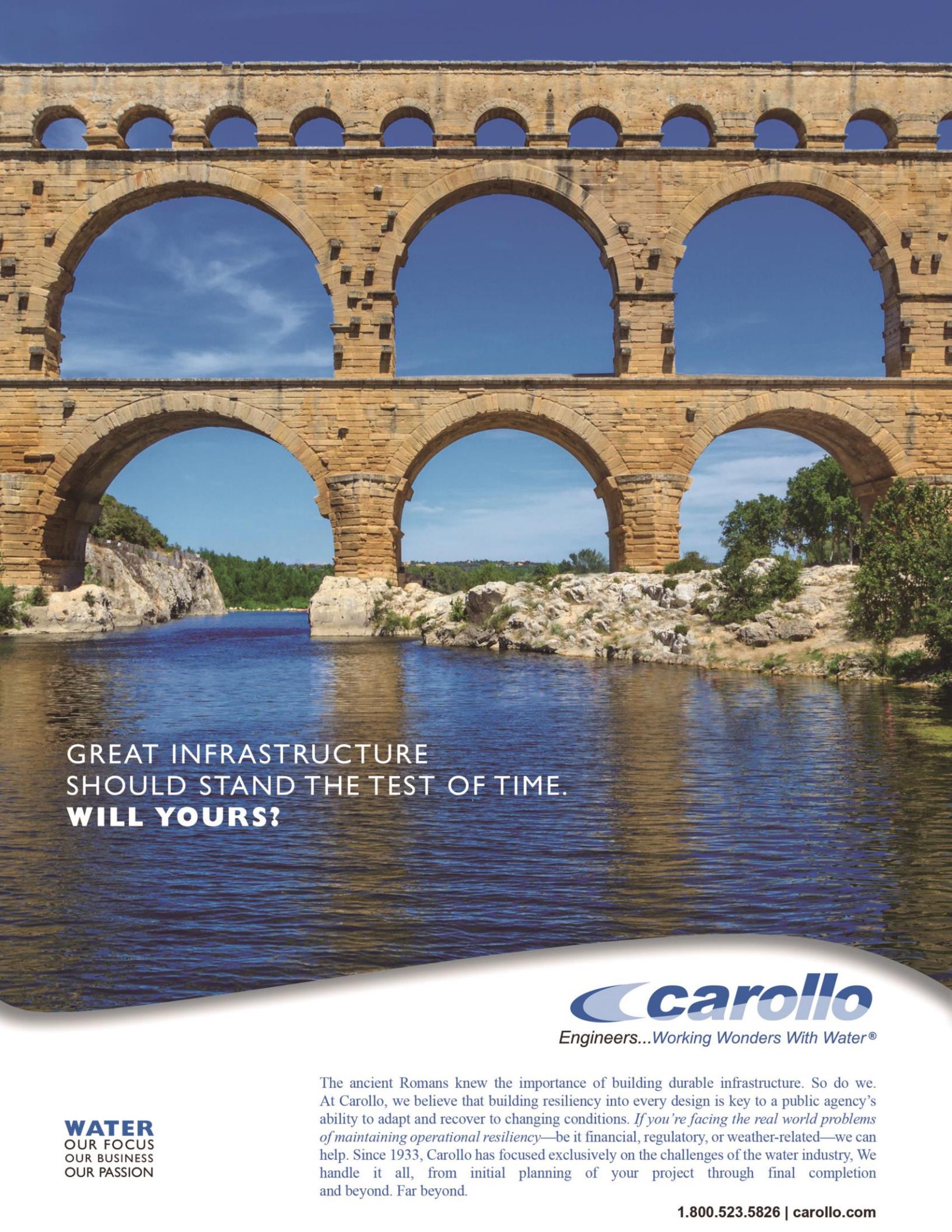
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Resilient Utility Coalition 2018 Summit: OPERATIONALIZING RESILIENCE

January 25-26, 2018

Opening Plenary Session:

Leveraging Innovation, Technology, and Research to Operationalize Utility Resilience

Thursday, January 25, 9:00 am – 10:00 am
Grand Ballroom



Lester Sola, Director
Miami-Dade Water and
Sewer Department

As Director of the largest utility in the Southeastern United States, Mr. Lester Sola is responsible for providing high-quality drinking water and wastewater disposal services to more than 2.3 million residents, businesses and visitors on a daily basis, as well as managing more than 2,600 employees and an annual operating budget of \$732 million. During the next 15-20 years, the Department is tasked with implementing a \$13.5 billion capital improvement program to upgrade the County's water and sewer infrastructure. This capital improvement program is the largest in Miami-Dade County's history. Mr. Sola's experience in County operations, capital design, construction management, contract administration and negotiations have proven invaluable as this capital improvement program progresses.



Sudhir Murthy, PhD
Chief Innovation Officer
DC Water

Dr. Sudhir Murthy leads the development and implementation of the Authority's innovation strategy. Sudhir creates, defines and translates research and development into product, service and commercial technologies. He led the concept development for several programs at the Blue Plains facility that has led to nearly \$1 billion in engineering/construction. These innovative projects were developed through public-public partnership with other water utilities, and collaboration with private enterprise and universities. In the past five years, DC Water has won four of five Research Grand Prizes from the American Academy of Environmental Engineers and Scientists for new technologies developed in wastewater treatment.



Susanne M. Torriente
Chief Resilience Officer
City of Miami Beach

Ms. Susanne Torriente is a seasoned public administrator with more than 26 years of service in Miami Dade County and several signature cities in the region. She joined the City of Miami Beach in September 2015 as Assistant City Manager (ACM) and Chief Resiliency Officer (CRO). Her sustainability and resiliency portfolio includes Planning, Building, Code Compliance, and Environment & Sustainability. The City of Miami Beach is a leader and pioneer in adaptation efforts in South Florida. As CRO she is leading the effort to develop an action-oriented citywide resiliency strategy and a broader Greater Miami & the Beaches 100 Resilient Cities Strategy supported by the Rockefeller Foundation. She is also on the board of the Association of Climate Change Officers (ACCO).



Melissa Meeker
CEO / Executive Director
Water Environment &
Research Foundation

Ms. Melissa Meeker is the Co-Chief Executive Officer of The Water Research Foundation, recently formed by the integration of the Water Environment & Reuse Foundation (WE&RF) and Water Research Foundation (WRF). As a research cooperative, The Foundation is a research cooperative focused on advancing the science of water to protect public health and the environment; governed principally by utilities delivering scientifically sound research solutions and knowledge to serve subscribers and stakeholders in all areas of drinking water, wastewater, stormwater, and reuse. Melissa has more than 25 years of comprehensive experience in water resources management, with an emphasis on alternative water supply development.

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Resilient Utility Coalition 2018 Summit: OPERATIONALIZING RESILIENCE

January 25-26, 2018

Technical Session A:

Resilience Vulnerability, Modeling and Future Scenarios

Thursday, January 25, 10:30 am – 12:00 pm
Skyline Room



Michael Schmidt
Sr. Vice President
CDM Smith

Climate Change Vulnerability Assessment and Adaptation Plan Skyline Room (10:30 am – 11:00 am)

SPEAKER: Michael F. Schmidt, P.E. BCEE, D.WRE is a Senior Vice President with CDM Smith. He has 33 years of experience in stormwater, ecosystem and water resource programs for more than 300 programs in 31 States and seven countries. He has guided the implementation of over \$1 billion of retrofit water resource capital improvements, saving clients more than \$365 million and providing multiple benefits through innovative, resilient standards and techniques.



Kristiana Dragash
Project Manager
Carollo Engineers, Inc.

Leveraging Merged Hydraulic Models to Achieve Distribution System Resiliency and Optimization of Operations Skyline Room (11:00 am – 11:30 am)

SPEAKER: Kristiana Dragash is a project manager at Carollo Engineers. She has over 9 years of experience in a wide range of projects including assisting in the design of over 9 miles of pipelines and calibration of over 10,000 miles of collection and distribution system piping in hydraulic models. She co – founded the Manasota chapter of the Florida Water Environment Association (FWEA) in 2010 and was awarded the FWEA's Young Professional of the Year award in 2014. She is currently the President-Elect on FWEA's board of directors. She holds a bachelor of science in civil engineering from the University of South Florida and her extracurricular passions involve helping people to reduce harmful chemicals in their homes and personal care products.



Dr. Jennifer Jurado
Chief Resilience Officer
and Division Director

CIFRE Project: Critical Infrastructure and Future Flood Resilience in South Florida Skyline Room (11:30 am – 12:00 pm)

SPEAKER: Dr. Jennifer Jurado oversees regional climate resiliency initiatives, county-wide water resource policy and planning, shoreline protection and marine resources programs. Jennifer has been key in the advancement of multi-jurisdictional initiatives focused on water management, climate adaptation efforts, and the integration of climate policy in comprehensive planning. Of particular note has been her role in analyzing and planning for future sea level rise in the built environment. Jennifer has been engaged in the early formation and advancement of the Southeast Florida Regional Climate Change Compact and continues to serve on the Staff Steering Committee. Dr. Jurado was a major contributor to President Obama's State, Local and Tribal Leaders Task Force on Climate Preparedness and Resilience and was recognized by the White House in 2013 as a Champion of Change for her leadership on climate resilience. Dr. Jurado earned her Ph.D. in Marine Biology and Fisheries from the University of Miami.





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Resilient Utility Coalition 2018 Summit: OPERATIONALIZING RESILIENCE

January 25-26, 2018

Technical Session B: Strategic Partnership and Utility Exchange

Thursday, January 25, 10:30 am – 12:00 pm
Courtyard Ballroom



Michael Sukop
Professor
Florida International University

Stakeholder Engagement in the National Science Foundation Urban Water Innovation Network Project Courtyard Ballroom (10:30 am – 11:00 am)

SPEAKER: Michael Sukop is Professor at Florida International University. He is a licensed professional geologist and certified hydrogeologist and earned his PhD in soil science. Professor Sukop is the Lead Principal Investigator of the National Science Foundation/National Institute of Food and Agriculture-supported South Florida Water, Sustainability, and Climate Project. He is also co-Principal Investigator and director of engagement for the National Science Foundation Sustainability Research Networks program Urban Water Innovation Networks (UWIN) project, which is addressing urban water challenges throughout the United States. Professor Sukop is an Executive Board Member of the Florida Climate Institute consortium of Florida Universities and serves as its liaison to the Southeast Florida Regional Climate Change Compact, which is the organization of four counties leading sea level and climate adaptation efforts in South Florida.



Alicia Lanier
Principal
Lanier Consulting, LLC

SPEAKER: Alicia Lanier has a deep interest in facilitating engaging and productive meetings and workshops that serve to transcend siloes. This interest in collaborative group process grew from her engineering work in managing projects with inter-disciplinary teams, and, since 2002, she has focused on supporting large group facilitation for inter-disciplinary teams and stakeholder groups on increasingly complex projects, through her company. Her varied experience ranges across many water-related areas from water sustainability, wastewater reuse, stormwater management, water supply, and more. She is a registered Professional Engineer (PE) in NC, OR, and California, and a Certified Water Rights Examiner (CWRE) in Oregon.



Perry Gayle
Water Risk and
Resilience Leader
AECOM

Critical Customer Programs: Lessons Learned from the Critical Customer Perspective Courtyard Ballroom (11:00 am – 11:30 am)

SPEAKER: Perry Gayle is a water risk and resilience leader with AECOM and has conducted more than 60 water and wastewater security and preparedness projects for utilities such as Chicago, Nashville, Louisville, and DC Water. He has a PhD in Civil Engineering from VA Tech, and is a licensed professional engineer, and a LEED accredited professional. During his 40-year professional career, he has performed water and wastewater engineering work at locations across the Continental US, Europe, Asia, and Africa.





impact

The word "impact" is written in a large, white, sans-serif font. To its left are three vertical white bars of increasing height, suggesting a staircase or steps. The background behind the text and bars is the same photograph of the heron and its reflection.

Advancing resiliency

Brown and Caldwell has assisted coastal communities across the US to build resilient water and wastewater systems. BC played a key role in the development of the Louisiana Coastal Master Plan, which identified and prioritized ecosystem restoration and hurricane protection projects to reduce risk to communities and critical infrastructure. Combining local understanding with world-class engineering solutions, we're ready to help you move your projects from concept to completion.



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Technical Session B: Strategic Partnership and Utility Exchange

Thursday, January 25, 10:30 am – 12:00 pm
Courtyard Ballroom



Nicole Kaiser
Head, Technology
Approval Group
Isle Utilities .

Embracing Innovation for a Resilient Future Courtyard Ballroom (11:30 am – 12:00 pm)

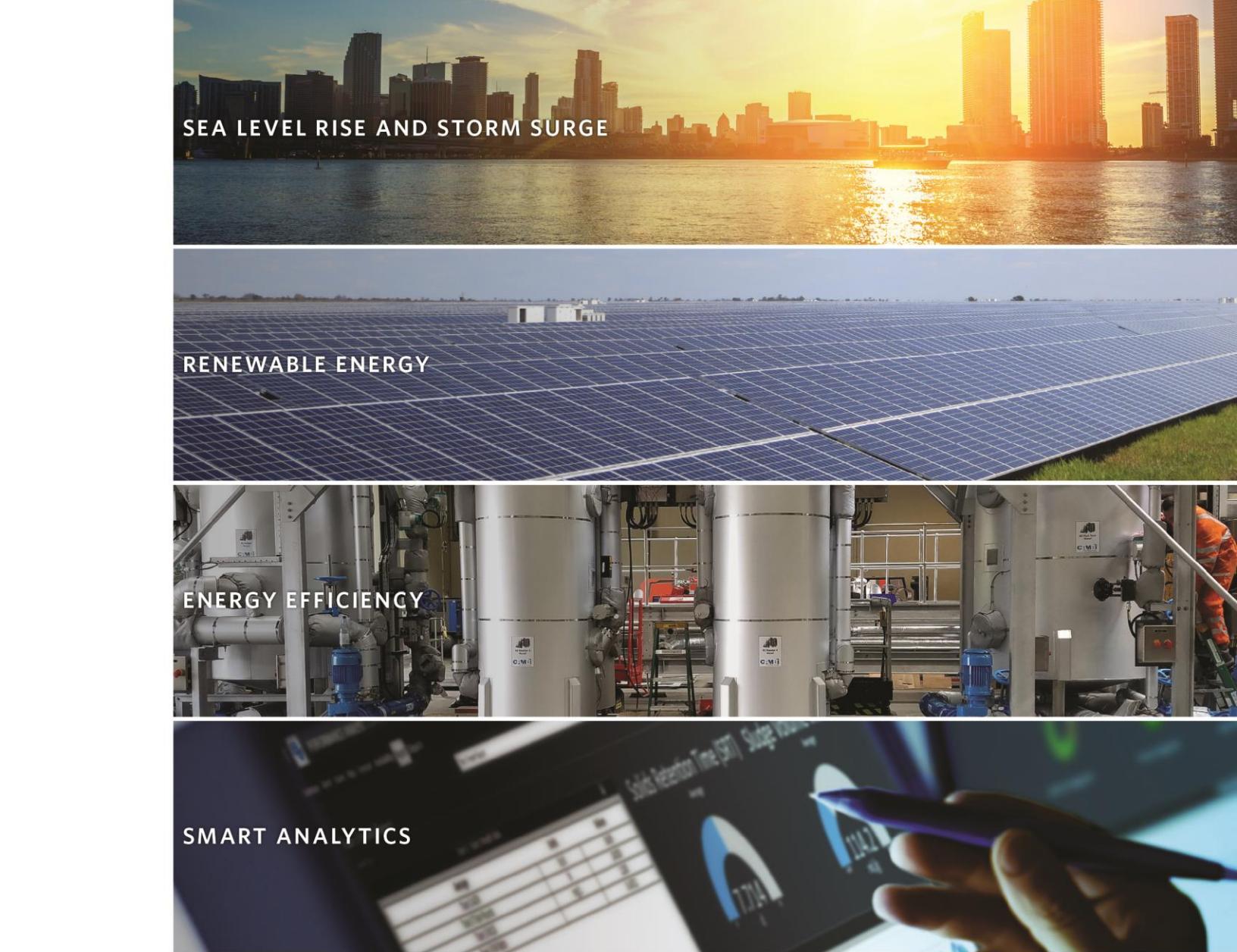
SPEAKER: As Head of Isle's Technology Approval Group Program in the Western US, Nicole Kaiser supports water and wastewater utilities in their efforts to identify and evaluate new technologies. She has 7 years of experience in the water sector working with a wide range of stakeholders on water resource issues, including treatment, monitoring, supply allocation and source protection. Nicole has a Masters Degree in Environmental Science and volunteers on AWWA's national source water protection committee as well as the emerging technologies committee in her local WEF member association, PNCWA. Prior to joining Isle, she worked in DC Water's drinking water division and external affairs office. She is currently based in Portland, Oregon.



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Resilient Utility Coalition 2018 Summit: OPERATIONALIZING RESILIENCE

January 25-26, 2018

Key Note Speaker

The Impact of Big Data in Accelerating Innovation

Thursday, January 25, 12:45 pm – 1:30 pm
Grand Ballroom



Patricia Florissi
VP & Global CTO for
Sales
Dell EMC

Patricia Florissi is vice president and global chief technology officer for sales at Dell EMC, where she helps define mid- and long-term technology strategy representing the needs of the broader EMC ecosystem in EMC strategic initiatives. Patricia also acts as the liaison between EMC and customers and partners to foster stronger alliances and deliver higher value to EMC clientele. Patricia holds the honorary title of EMC distinguished engineer. She is the creator, author, narrator, and graphical influencer of the educational video series EMC Big Ideas on emerging technologies and trends, which accelerates and expands technical thought leadership in EMC using innovative learning methodologies in a fun, easy way without talking about products to both internal and external audiences. Previously at EMC, Patricia was the CTO for Ionix, where she was responsible for defining and communicating EMC's medium- to long-term vision for delivering solutions to automate the management of information infrastructure resources; the strategic initiative leader for governance, risk, and compliance (GRC), where she was responsible for leading the research, design, execution, and communication of EMC's GRC vision and strategy; Americas CTO for sales; and Americas and Europe, Middle East, and Africa (EMEA) CTO.

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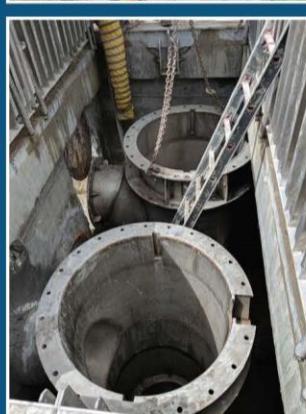
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Technical Session A:

Resilience Planning

Thursday, January 25, 1:30 pm – 3:00 pm

Skyline Room



Ryan Brotchie
Sr. Water Consultant
GHD

Planning for Deep Uncertainty: Using Adaptive Pathways to Create Resilient Strategies for Water Utilities Skyline Room (1:30 pm – 2:00 pm)

SPEAKER: Ryan Brotchie is a senior water consultant for GHD in Melbourne, Australia, with qualifications in both engineering and law. Ryan's focus is to connect GHD's people and knowledge globally by actively sharing knowledge, facilitating communication across the company and promoting client service excellence. A key focus of Ryan's career has been Integrated Water Management, or One Water, with particular experience working at the city and watershed scale for major Australian cities such as Melbourne, Sydney and Brisbane, has co-authored Adaptive Pathway Planning Guidelines for Melbourne Water Corporation, and is also leading GHD's involvement in the City of Austin (Texas) 100 Year Integrated Water Resources Plan. Ryan is a graduate from Monash University in Melbourne.



Arturo Burbano
Associate Principal and
South Florida Water
Market Leader
GHD

SPEAKER: Dr. Burbano is a senior project manager and technologist with 25+ years of experience in the business and technical aspects of the water / wastewater / water reuse industry, including the planning, conceptual, and detailed design and delivery of complex projects for municipal, industrial and federal clients. Dr. Burbano holds a BSc/MSc in Chemical Engineering, a Ph.D in Environmental Engineering and a MBA. Dr. Burbano is a registered professional engineer in FL, CA and NV, a Board-Certified Environmental Engineer by the American Academy of Environmental Engineers and Scientists, and an adjunct professor of Water Treatment Design at the University of Southern California.



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Carlos Tamayo
Civil Engineer / Project
Manager
City of Miami Beach

Adaptation Strategies for Making Utilities More Resilient to Climate Change-Driven Effects in Miami Beach through Data Analysis & Integration Skyline Room (2:00 pm – 2:30 pm)

SPEAKER: Carlos Tamayo has over 13 years experience. He currently manages the entire hydrogeological program at the City of Miami Beach Public Works Department. The technical aspects of his job include the application of advanced engineering principles, integration with science and technology in the development of innovative initiatives and solutions for climate change effects from meteorological, hydrological, and social standpoints. The life-changing experience he had at Singularity University in Silicon Valley provided him with a deep understanding of how exponential technologies and design-thinking processes in exponential organizations can lead to 10x change and solutions to global problems. In Miami Beach, he also works very closely with the Environmental and Resilience Departments in the development of cross-departmental innovative projects. Moreover, he is one of the City's key technical liaisons with federal, state, local, private, and academic entities to promote and maintain joint collaboration strategies with them.



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Technical Session A: Resilience Planning

Thursday, January 25, 1:30 pm – 3:00 pm
Skyline Room



Jody Barksdale
Florida Water Services
Market Lead
GS&P

Resiliency and Sustainability - How Large Metropolitan Cities are Accepting the Challenge Skyline Room (2:30 pm – 3:00 pm)

SPEAKER: Heading up GS&P's Florida Water Services market, Jody Barksdale brings more than 28 years of experience in the planning, design and construction of water/wastewater treatment, biosolids and residuals management, pumping stations and collection system projects. Jody is a licensed professional engineer in Florida, Texas, Tennessee and Georgia. Jody is currently the Chair of the Florida Water Environment Association's (FWEA) Biosolids Committee, Co-Chair of the WEF Sustainable Residuals Use Subcommittee, and Dryer Task Force Lead for the WEF Bioenergy Subcommittee. Jody earned a Bachelor of Science degree in environmental engineering from the University of Florida, and a Master of Science degree in environmental engineering from the University of Central Florida.



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Technical Session B:

Operational Disaster Preparedness

Thursday, January 25, 1:30 pm – 3:00 pm

Courtyard Ballroom



Edgar Westerhof
Flood Risk and
Resilience Leader
Arcadis

The Integration of Critical Facilities and Infrastructure Hardening and Longer Term Resiliency Strategies in the New Jersey and New York Region Courtyard Ballroom (1:30 pm – 2:00 pm)

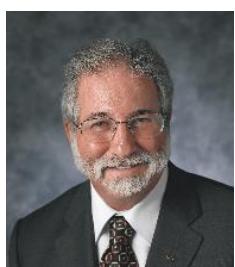
SPEAKER: Edgar Westerhof is Arcadis' Flood Risk and Resiliency Lead for North America. He has over 18 years of experience in integrated urban water management. Edgar lead the ARCADIS participation in the international HUD Rebuild by Design competition, including the winning BIG U – Waterfront Resiliency Plan of Manhattan. He functions as the climate change adaptation specialist regarding integrated and multi-layered coastal waterfront and urban water management strategies. He bridges the understanding on water management between the Netherlands and the US and plays a key role in the identification and implementation of our local and international flood proofing expertise. As the Flood Risk & Resiliency Lead, Edgar is the Rockefeller Foundation 100RC participation lead for North America and involved in strategic initiatives regarding climate change adaptation and water resiliency concepts. Edgar functions as a press spokesperson in the US and the NL and is a frequent speaker at professional events regarding city resilience and sustainability.



Sharmin Siddique
Regional Director
D&B Engineers &
Architects, P.C.

Pump Station Resilience Courtyard Ballroom (2:00 pm – 2:30 pm)

SPEAKER: Sharmin Siddique, a licensed Professional Engineer in Florida, has over 22 years of experience in water, sewer and stormwater projects. She is serving as the Regional Director for D&B Engineers and Architects, P.C.'s (D&B's) regional office in Coral Gables, Florida. Sharmin has managed projects for Miami Dade Water and Sewer Department, as well as for other Cities and Counties within the South Florida's Tri County area. She has managed both Design-Bid-Build and Design-Build projects. Her project portfolio includes water and wastewater projects including pump stations and wastewater treatment plant. Sharmin has experience and in-depth knowledge of resiliency applications and has successfully incorporated critical factors such as sea-level-rise, king tides and salinity intrusion in her designs. She understands the importance of asset management, vulnerability assessment, impact analysis and prioritization of focus areas for an overall system design to deliver an efficient, resilient and sustainable infrastructure.



Dennis Koehler
Sr. Vice President
D&B Engineers &
Architects, P.C.

SPEAKER: Dennis Koehler is a Senior Vice President with D&B and has over 45 years of design and construction management experience on hundreds of pump stations ranging in size from 0.15 MGD to 250 MGD as well as wastewater projects, water supply, civil, environmental and heavy construction projects. Currently, Mr. Koehler is involved with the work at several of NYCDEP's pump stations as part of the recovery from the Super Storm Sandy damage, as well as a number of other pump station improvement projects.



Jon Philipsborn
Associate Vice President
AECOM

UN 10 Essentials of Disaster Resilience for Water Utilities Courtyard Ballroom (2:30 pm – 3:00 pm)

SPEAKER: Jon Philipsborn serves as Climate Adaptation Practice Director. He advises clients on the strategic integration of climate change into planning, project development, and management decisions. This has included supporting public and private sector clients with disaster preparedness and resilience planning; understanding potential climate change impacts and associated vulnerability, and identifying and implementing adaptation strategies. Throughout his career, Jon has communicated technical information to decision makers, and worked on innovative projects that produce environmental, economic, and community benefits. Jon has a Master of Public Administration in Environmental Science and Policy from Columbia University's School of International and Public Affairs, and a BA from Kenyon College.



Resilient Utility Coalition 2018 Summit: OPERATIONALIZING RESILIENCE

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Technical Session A: Big Data & Smart Utility Concepts

Thursday, January 25, 3:30 pm – 5:00 pm
Skyline Room

Big Data, Neural Meshes & Probabilistic Forecasting: Are We Really Improving Decision Making?
Skyline Room (3:30 pm – 4:00 pm)



Jd Solomon
Vice President
CH2M

SPEAKER: JD Solomon, PE, CRE, CMRP is an engineer, planner, consultant, and facilitator. His experience in reliability, risk, and resiliency includes both the built and natural environments. In addition to his consulting experience with clients in the public and private sector, he has managed and owned several businesses and led many state and local boards, commissions, and associations. He currently serves as the chairman of the North Carolina Environmental Management Commission, the state's environmental rule-making body, and as a gubernatorial appointee of the State Water Infrastructure Authority of North Carolina.

Big Data Analytics for Resilient Water Utilities
Skyline Room (4:00 pm – 4:30 pm)



Samira Pouyanfar
Florida International University

SPEAKER: Samira Pouyanfar is a Ph.D. candidate at the School of Computing and Information Sciences (SCIS), Florida International University. She received the Master degree in Computer Engineering from Sharif University of Technology in 2012. Her research interests include data science, multimedia big data, disaster information management, and distributed multimedia database systems. She has published over 15 research papers in international journals and conference proceedings.

Data-Driven Decisions Boost Utility Effectiveness
Skyline Room (4:30 pm – 5:00 pm)



Fred Ellermeier
Vice President
Black & Veatch

SPEAKER: Fred Ellermeier is Vice President and Managing Director of Black & Veatch's Connected Communities business. The Connected Communities business addresses the areas of Smart City and Public Safety engineering, procurement, and construction as well as advanced predictive analytics. Fred is an expert in developing new markets and creating new business growth. He has held various operations management and innovation development roles.

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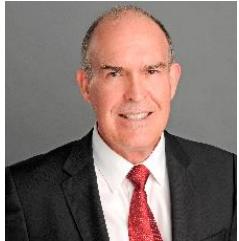


Resilient Utility Coalition 2018 Summit: OPERATIONALIZING RESILIENCE

January 25-26, 2018

Technical Session B: Asset Management

Thursday, January 25, 3:30 pm – 5:00 pm
Courtyard Ballroom



Agustin Maristany
Vice President
King Engineering
Associates, Inc.

Avoiding Data Obsolescence and Creating Asset Management Systems to Support Resilient Design: A Transportation Perspective for Water and Wastewater Utilities Courtyard Ballroom (3:30 pm – 4:00 pm)

SPEAKER: Agustin Maristany is a Principal civil engineer specializing in water resources, water, and wastewater engineering. His career spans 40 years as principal-in-charge, senior consultant, project manager, and design engineer for numerous multi-disciplinary projects. His experience includes master planning, capital improvement programs, modeling, design, regulatory criteria, cost estimating, construction management, operations manuals, and stakeholder coordination. He received a Bachelor of Science in Civil Engineering from the University of Puerto Rico and a Master of Science in Civil Engineering from the University of Texas. The title of his MS Thesis is: "Hydrologic Effects of Climate Change".



David Sklar
Principal
WSP

A Long-Term Planning Approach: Aligning Asset Management, Master Planning & Resiliency Courtyard Ballroom (4:00 pm – 4:30 pm)

SPEAKER: David Sklar is a principal with WSP, leading the firm's asset management and business strategy offerings within the water and utility sectors. He is a recognized industry leader with over 20 years of experience across the energy, water, transportation, aviation, and public works infrastructure sectors. David's key areas of expertise include asset / infrastructure management, capital planning, sustainability, process improvement, life-cycle costing, triple bottom line analysis, and performance management. He is a frequent speaker, author and recognized subject matter expert on the topic of asset and utility management and has presented at many industry conferences. David holds a BA in Economics from Boston University and an MBA in Sustainability from the University of Colorado at Denver.



Seth Yoskowitz
Principal
GHD

Applying Asset Management Principles to Maximize Utility Resilience Courtyard Ballroom (4:30 pm – 5:00 pm)

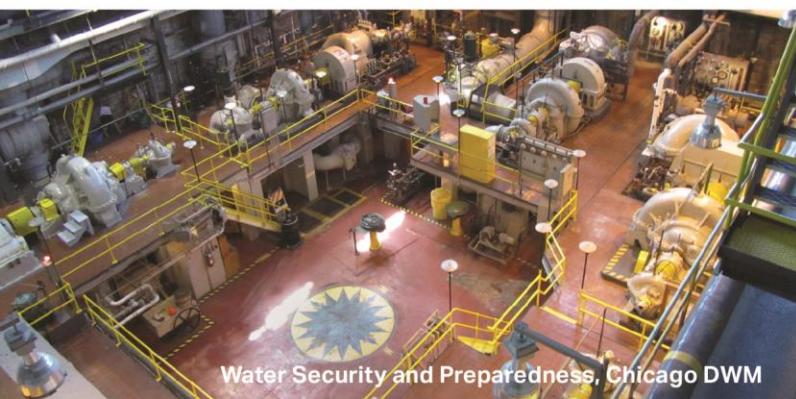
SPEAKER: Seth Yoskowitz is the Principal for GHD's US Advisory / Business Consulting unit. His team focuses on asset management, risk-based decision-making, organizational strategy, workforce development, knowledge management, and training and educational delivery geared toward implementation around specific strategic initiatives. Seth has worked across Florida on resilience, asset management, and business process improvement efforts as well as nationally and internationally. Seth has worked with several Florida and other southeast US and Gulf region organizations on preparedness and response to extreme events. A Maryland PE, Seth has Bachelor's and Master's degrees in Civil/Environmental Engineering from Stanford University. Seth is passionate about working with critical infrastructure owners to support their ability, readiness, and operational sustainability to provide essential services citizens and industry rely upon.



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Communities look to be better prepared and overcome threats that could damage their local infrastructure or the environment. Because it's our neighborhood too, AECOM can provide the help to city and state governments to bounce back from such incidents. As a fully integrated firm, we connect

knowledge and experience across our nationwide network of experts to help clients solve their most complex challenges. From high-performance buildings and infrastructure, to resilient communities and environments, our work is transformative, differentiated and vital.





Resilient Utility Coalition 2018 Summit: OPERATIONALIZING RESILIENCE

January 25-26, 2018

Plenary Session:

RESILIENCE RESOURCES AND BEST PRACTICES

Friday, January 26, 8:30 am – 9:30 am

Grand Ballroom



Alice Fulmer
Water Research
Foundation

Ms. Alice Fulmer joined the Water Research Foundation in March 2002 after graduating from the University of North-Carolina Chapel Hill with a Master of Science degree in Environmental Science and Engineering. Prior to that, she worked as a Research Associate focusing on disinfection by-products in drinking water. Alice served as a Senior Research Manager for WRF with a focus on emerging contaminants in water until September 2017, when she assumed the position of Regional Liaison. As Regional Liaison for The Water Research Foundation, Alice works with water utilities in the eastern and southeastern United States.



Alice Dasek
U.S. Department of
Energy

In her eight years at the US Department of Energy, Ms. Alice Dasek has held multiple roles as part of the Partnerships & Technical Assistance Team. Alice currently leads DOE's three-year Better Buildings Accelerator working with water resource recovery facilities on infrastructure improvement and resource recovery. She previously led an Accelerator focused on Energy Savings Performance Contracting (ESPC), in which she supported state and local government investments of \$2 billion in ESPC contracts over three years. Alice graduated cum laude from Bryn Mawr College and has masters degrees in business administration (Georgetown University) and environmental and energy management (George Washington University).



Steve Fries, Ph.D.
U.S. Environmental
Protection Agency

Dr. Stephen Fries, currently works at the US Environmental Protection Agency (EPA) in the Office of Ground Water and Drinking Water. His duties are focused on the Creating Resilient Water Utilities initiative and EPA's support of water utilities pursuing adaptation strategies. Dr. Fries directs projects that provide the tools and resources required to support water utilities in recognizing risks and using decision support tools for security improvements, mitigation of damage from natural hazards and increased operational resilience. Previously, he led the Analytics and Scientific Program Support Group at CSC, now CSRA. Dr. Fries holds a Ph.D. in Civil & Environmental & Oceanographic Engineering from the Massachusetts Institute of Technology & Woods Hole Oceanographic Institution Joint Program and a Dual B.S. in Civil Engineering and Engineering Public Policy from Carnegie Mellon University.



Daniel Kreeger
Association of Climate
Change Officers

Mr. Daniel Kreeger is co-founder and executive director of the Association of Climate Change Officers (ACCO) and has a unique familiarity of key climate and sustainability leaders at and efforts by most Fortune 500 companies, higher education institutions and North American government entities. Dan has led ACCO's programming efforts, as well as establishment of its certification and training programs, the first comprehensive climate change credentialing program for climate change professionals and leaders across sectors. He is the co-founder and administrator of the Compact of Colorado Communities. Dan led ACCO's partnership with the White House Council on Environmental Quality in 2011 and 2012 to co-produce their flagship conference on sustainability in Federal agency operations, the GreenGov Symposium.

From resiliency-based planning to infrastructure implementation, we are helping water, wastewater, and stormwater utilities address and adapt to climate change and extreme weather events, protecting the investments of today and building the framework for tomorrow.

If you are trusted to protect public health or the environment, we can help.





Resilient Utility Coalition 2018 Summit: OPERATIONALIZING RESILIENCE

January 25-26, 2018

Technical Session A: Financial Resilience

Friday, January 26, 9:30 am – 10:30 am
Skyline Room

New Funding Sources to Promote Infrastructure Resilience Skyline Room (9:30 am – 10:00 am)



Marvin Markus
Managing Director
Goldman Sachs

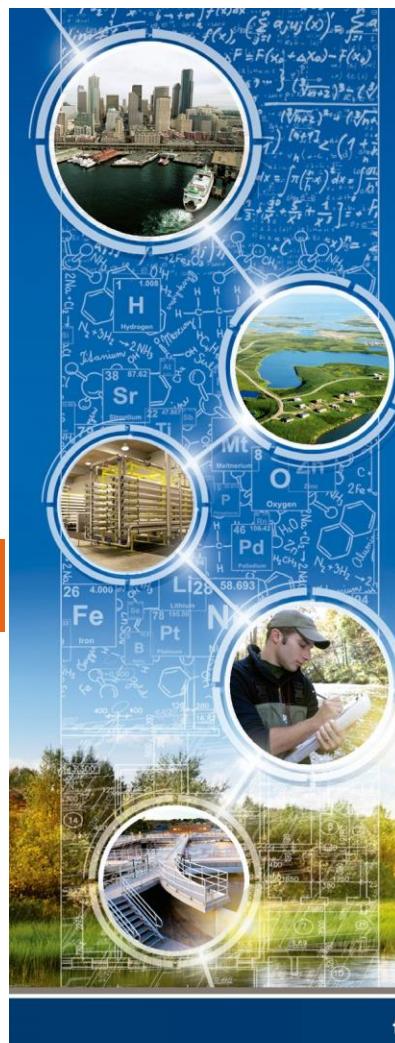
SPEAKER: Marvin Markus has worked in a senior capacity with a wide range of issuers, serving as lead banker, project manager or financial advisor on over \$100 billion of financings. Mr. Markus worked extensively on transactions involving so-called Liberty Bonds authorized by the Congress to rebuild New York City in the wake of the September 11 tragedy. Mr. Markus-led transactions have funded general infrastructure, including resiliency projects, for New York City, New York State, New Jersey, the New York MTA, New York City Water, the New York Clean Water State Revolving Fund and Environmental Facilities Corporation, among other entities.

Integrating Knowledge from Developments in Attribution Science into Infrastructure Design and Cost Benefit Analysis Skyline Room (10:00 am – 10:30 am)



Lindene Patton
Partner
Earth and Water Law,
LLC.

SPEAKER: Lindene Patton currently serves on the Chair of the Board of Advisors for the National Institute of Building Sciences Council on Finance, Insurance and Real Estate (CFIRE). Ms. Patton is an advisory board member for the University of California at Santa Barbara's Bren School of Environmental Science and Management. She has served multiple board appointments including to the National Academy of Science; World Economic Forum Global Advisory Councils; Executive Secretariat of the U.S. Department of Commerce National Climate Assessment, the U.S. EPA Environmental Financial Advisory Board.



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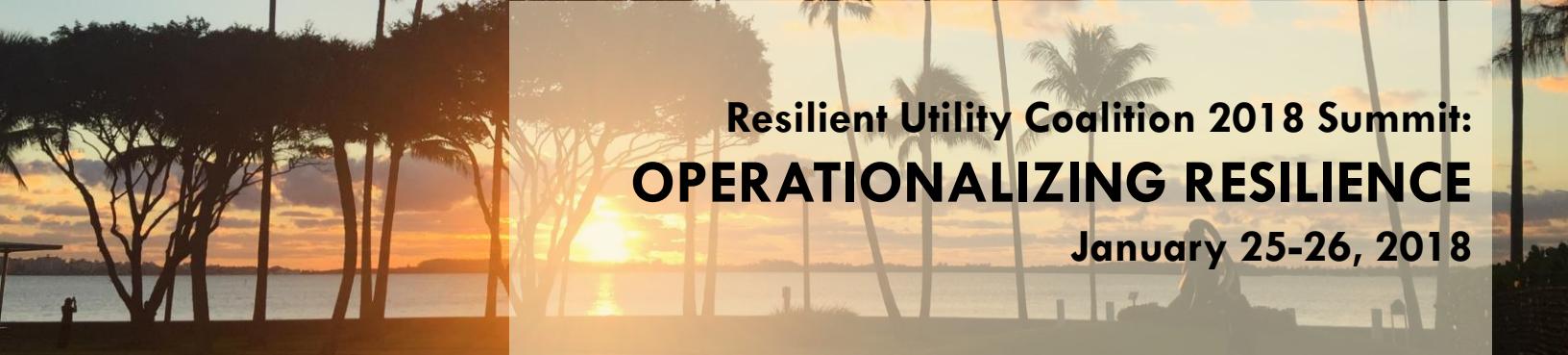


The Town of Greenwich, Connecticut, called on Gannett Fleming to design plantwide electrical upgrades and provide short-circuit services at its wastewater treatment plant. The improvements safeguard against utility or medium-voltage distribution system phase loss, as experienced during Superstorm Sandy.



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Resilient Utility Coalition 2018 Summit: OPERATIONALIZING RESILIENCE

January 25-26, 2018

Technical Session B: Information Technology and Cyber Security

Friday, January 26, 9:30 am – 10:30 am
Courtyard Ballroom

Promoting Utility Resilience through Cybersecurity
Courtyard Ballroom (9:30 am – 10:00 am)



John Kassel.
Principal
Black and Veatch

SPEAKER: John Kassel has more than forty years of business management and IT systems design and development experience. For the past seven years, Mr. Kassel has been a Principal Consultant with Black & Veatch, focusing on information security, risk analysis, and mitigation and compliance within the energy, utility and Smart Grid sectors. He serves as a project manager and has conducted a number of NERC and NIST-based security and IT assessments for multiple utilities. He holds a Certified Information Security Manager certification through the Information Systems Audit and Control Association and a Physical Security Professional.

Managing Cybersecurity Risk for Critical Infrastructure
Courtyard Ballroom (10:00 am – 10:30 am)



Ken Keiser, Director
Operational Technology
Cybersecurity
Parsons

SPEAKER: Ken Keiser has more than 30 years in industrial control system engineering and has worked on more than 50 projects in the water and wastewater sector during his time with Fischer & Porter, Bailey, and ABB. He was with Siemens during the STUXNET crisis and helped many customers remove the malware from their systems. He is currently Director, Operational Technology Cybersecurity for Parsons. He has an Electrical Engineering Degree from Drexel University and a business degree from Temple University. Ken is a Certified Information Systems Security Professional (CISSP) and is also a Payment Card Industry Qualified Security Assessor (PCI-QSA) for credit card systems.



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Technical Session A:

One Water

Friday, January 26, 11:00 am – 12:30 pm

Skyline Room



James Murin
Senior Manager
Brown and Caldwell



Nigel Grace
Vice President
Brown and Caldwell



Scott Kelly
Assistant City
Administrator
City of West Palm Beach



Jason Ressler
CDM Smith

An Organized Approach to Addressing the Complexities of Resilience Planning in South Florida: The Water Research Foundation's "Blueprint for ONE Water" Skyline Room (11:00 am – 11:30 am)

SPEAKER: Jim Murin is a civil and environmental engineer with over 25 years of experience in the environmental engineering consulting industry. He received his Bachelor's degree in Civil Engineering from Virginia Tech, and his Master's in Environmental Engineering from the University of Michigan. Currently serving as a Senior Manager with Brown and Caldwell in Florida, he has executed and managed numerous projects in the areas of water and wastewater treatment, with emphases on process design, water chemistry, regulatory compliance, master planning and operational troubleshooting.

SPEAKER: Nigel Grace is a senior practice area specialist and client service manager in Brown and Caldwell's Florida/Gulf Coast Business Unit. He has over 25 years of diverse experience in areas ranging from drinking water facilities planning, design, compliance, and operational optimization to utility finance, and organizational performance assessment. He holds a Bachelor of Science in Chemical Engineering and a Master's degree in Environmental Engineering, both from the University of Florida. He is a member of the American Water Works Association and has served as a Regional (VI) Chair of the Florida Section and Technical Advisory Committees.

Drought Resiliency Planning for West Palm Beach Skyline Room (11:30 am – 12:00 pm)

SPEAKER: Scott Kelly is the Assistant City Administrator for the City of West Palm Beach, Florida where he is responsible for Public Utilities, Sustainability, Public Works and Engineering areas. Prior to West Palm Beach he was the Vice President for Water and Wastewater Systems for JEA, the second largest water, wastewater and electric utility in Florida. Scott has a B.S. in Civil Engineering from Georgia Institute of Technology and is a licensed Professional Engineer in the State of Florida.

SPEAKER: Jason Ressler is a water resources engineer for CDM Smith, located in Tampa, Florida. He has experience in a variety of areas including stormwater modeling and design, solid waste facility design, integrated water resources planning, and post-disaster mitigation. Mr. Ressler has worked on many resiliency and water resources projects in South Florida.



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Resilient Utility Coalition 2018 Summit: OPERATIONALIZING RESILIENCE

January 25-26, 2018

Technical Session A:

One Water

Friday, January 26, 11:00 am – 12:30 pm
Skyline Room

One Water Los Angeles 2040 Plan: Big, Bold Water Reuse
Planning to Make Los Angeles a More Resilient City
Skyline Room (12:00 pm – 12:30 pm)



Inge Wiersema
Vice President and
Regional Planning
Manager
Carollo Engineers, Inc.

SPEAKER: Inge Wiersema is a Vice President with Carollo Engineers and has a bachelor's degree and master's degree in environmental engineering from the Netherlands. She has over 20 years of experience. Inge is currently the project manager for the One Water LA 2040 Plan, which is a strategic and collaborative planning effort with the Los Angeles Bureau of Sanitation and the Los Angeles Department of Water & Power. She leads a team with over 20 subconsultants to develop the One Water LA 2040 Plan, which identifies strategies and integration opportunities to manage all water as "One Water".

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Resilient Utility Coalition 2018 Summit: OPERATIONALIZING RESILIENCE

January 25-26, 2018

Technical Session B: Innovation and Emerging Technologies

Friday, January 26, 11:00 am – 12:30 pm
Courtyard Ballroom



Pranjali Kumar
Staff Professional
Carollo Engineers, Inc.

Resilient Utility Planning Through Direct Potable Reuse - A Central Florida City's Endeavor to Ensure Future Sustainable Potable Water Supplies Courtyard Ballroom (11:00 am – 11:30 am)

SPEAKER: Pranjali Kumar is an environmental engineer who served as the project engineer for the Altamonte Springs DPR project. She has a Masters in Environmental Engineering from the University of Colorado, Boulder, and her work focuses on water reuse projects. Currently she is helping Carollo's Orlando office with a number of IPR/DPR projects in and around Florida.



Lior Eshed
Process Engineer and
Water Reuse Product
Manager
IDE Technologies

NDMA Free- Water Reuse Process Pilot Results Courtyard Ballroom (11:30 am – 12:00 am)

SPEAKER: Lior Eshed is a graduate of the Technion - Israel Institute of Technology with B.Sc. and M.Sc degrees in Environmental Engineering. Lior has been with IDE Technologies since 2015, as an expert process engineer, team leader and member of the R&D team, with particular focus on reuse technology. Currently he is the product manager for water reuse technologies. Previously Lior was the R&D manager at Emefcy (now Fluence), a startup company that develops Membrane aerated biofilm reactors and Microbial fuel cells. He is an inventor of various patents in the field.



Sybil Sharvelle
Associate Professor
Colorado State
University

The National Science Foundation's Sustainability Research Networks Program Courtyard Ballroom (12:00 pm – 12:30 pm)

SPEAKER: Dr. Sybil Sharvelle is an Associate Professor in the Civil and Environmental Engineering Department at Colorado State University and directs the Urban Water Center. Her doctoral work included development of a system for treatment of graywater for potable reuse during space missions. This project led to her current interest in sustainable water systems, in which she has led projects funded by the Water Environment Research Foundation, USEPA and WateReuse Foundation. Dr. Sharvelle was a member of the National Research Council Committee for Beneficial Use of Graywater and Stormwater and chaired the NWRI panel for Decentralized Non-Potable Water Systems.





Resilient Utility Coalition 2018 Summit: OPERATIONALIZING RESILIENCE

January 25-26, 2018

Resilient Utilities Awards Luncheon

Friday, January 26, 12:30 pm – 2:00 pm
Grand Ballroom

Luncheon Keynote Address - 100 Resilient Cities: The Emergence of Urban Resilience



Eric Wilson
Associate Director
City and Practice
Management, 100
Resilient Cities

Eric Wilson's 15-year urban planning career is focused on projects that advance urban resilience, sustainability, and equity. Eric is an Associate Director with 100 Resilient Cities, where he manages the organization's relationships with six cities, including Greater Miami & the Beaches. He joins 100RC from the New York City Department of Housing Preservation & Development, where he served as Assistant Commissioner of Planning. In this role, Eric managed New York City's public land portfolio and pipeline of new affordable housing developments. Before joining HPD, Eric worked in various urban planning and local economic development roles in New York City, the United Arab Emirates, and Detroit.

Originally from Littleton, Colorado, Eric holds a Master of City and Regional Planning from Cornell University and Bachelor of Arts degrees in Environmental Conservation and Plant Biology from the University of Colorado at Boulder. Eric now lives in Brooklyn with his partner and their dog, Comet.

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Resilient Utility Coalition 2018 Summit: OPERATIONALIZING RESILIENCE

January 25-26, 2018

Resilient Utility Coalition Award Luncheon

Friday, January 26, 12:30 pm – 2:00 pm
Grand Ballroom

Presentation of Resilient Utility Coalition Awards

The Resilient Utility Coalition established the awards program to recognize efforts by organizations or individuals that have advanced or adopted utility infrastructure resiliency and/or adaptability concepts within their organizational framework or in the delivery of key projects. Through this recognition, we intend to showcase best practices in the areas of resiliency and adaptability, while creating awareness of the benefits that can be gained through such initiatives. Awards will be presented in the following categories:

- ◆ **Leadership in Resilience and Sustainability** in recognition of an individual for their leadership and advocacy in advancing resilience and sustainability initiatives
- ◆ **Resilient Project of the Year in the Climate Change Category** in recognition of quantifiable environmental benefits achieved through resilient design
- ◆ **Resilient Project of the Year in the Green Utility Category** in recognition of quantifiable environmental benefits achieved through resilient design
- ◆ **Resilient Project of the Year in the One Water Category** in recognition of efforts to operationalize resilience through the development of alternative water supplies
- ◆ **Resilient Utility of the Year** tiers 1 - 5



The RUC Award Luncheon will be hosted by Lynnette Cardoch, Vice President at HDR.



Presentation of Resilience Leader of the Future Scholarships

The scholarship program was established in recognition of the critical role academia plays in fostering an innovative workforce in the utility management field. Through its scholarship program, RUC seeks to encourage bright new professionals to undertake careers that contribute to community resilience. The two \$1,000 scholarships are made possible today from a portion of each summit registration fee.

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Technical Session A:

Measuring Resilience

Friday, January 26, 2:00 am – 3:30 am

Skyline Room



Heather Smith
Lecturer in Water Governance
Cranfield University

Resilient Water Infrastructure: Improving Understanding and Assessing Needs Skyline Room (2:00 pm – 2:30 pm)

SPEAKER: Dr. Heather Smith is a lecturer and researcher at Cranfield University where her research focuses on the governance of the water sector, and the intersections between technological innovation, policy, and social drivers around water services. In general terms she seeks to understand if and how water services can be made more resilient. This centers on the role of water service providers (private or public) and understanding how they relate to their political, social, economic and environmental contexts. Dr. Smith holds a BSc in Environmental and Conservation Science from the University of Alberta (Canada); a MSc in Water Science, Policy and Management from the University of Oxford; and she completed her PhD at the University of Aberdeen. She joined Cranfield University in August 2011.



Andrew Speirs
Principal Mechanical Engineer
Jacobs

Resilience Metrics and Investment Planning Skyline Room (2:30 pm – 3:00 pm)

SPEAKER: Andrew Speirs is a Principal Mechanical Engineer working for Jacobs (Glasgow, Scotland) specializing in water and waste water projects. Andrews experience in operations and commissioning enables him to understand the challenges resilience poses to organizations. He has a degree in Mechanical Engineering from the University of Paisley and a Master Degree from the University of Strathclyde and through evening study obtained a HND in Design and Innovation from Open University in 2012. Andrew worked previously for Scottish Water Business Stream, Veolia Water, Thames Water, Grundfos (Europump Services) and Halcrow delivering complex multidiscipline projects for clients.



Gemma Frisby
Below Ground Asset Planning Manager
South East Water

SPEAKER: Gemma Frisby has over 11 years experience within the water industry, with a strong emphasis in asset management, capital programme planning, demand planning, data analysis and water efficiency. She has developed and delivered a number of strategies and plans including the below ground infrastructure 5 year plan and a water efficiency strategy. Using risk models, customer feedback and ops liaison the 5 year programme is developed and delivered and she is responsible for all South East Water's below ground schemes; this equates to a capital programme of approximately £40million a year for infrastructure schemes. This also includes reporting to our regulators on number of mains repaired, interruptions, low pressure and overall stability of our infrastructure. She is also responsible for ensuring our Company plans comply with the PAS55 asset management standards.



Debbie Griner
Resilience Manager
Miami-Dade Water and Sewer Department

Miami Dade Water and Sewer Department Resiliency Roadmap and Scorecard Skyline Room (3:00 pm – 3:30 pm)

SPEAKER: Debbie Griner has 20 years of professional experience. She started her career at the Miami-Dade County Department of Environmental Resources Management working on environmental compliance, permitting, planning, and outreach initiatives. In 2009 her focus shifted to sustainability and climate change initiatives including a role in the development of the County's first community-wide sustainability plan, GreenPrint. She joined the WASD in May of this year, where she is leading the Resilience Program in their charge to formalize and facilitate resilience throughout the department's programs and functions. Debbie received her Bachelor of Science degree in Environmental Studies from Florida International University, with a minor in Biology.

Technical Session B:

Regulatory, Policy and Public Engagement

Friday, January 26, 2:00 pm – 3:30 pm

Courtyard Ballroom

Water Security is National Security - How Community Water Values Impact Resiliency
Courtyard Ballroom (2:00 pm – 2:30 pm)



Britt Sheinbaum
Head of TAG East
Isle Utilities

SPEAKER: Britt Sheinbaum has a Public Policy Masters in Conflict Resolution from Tel Aviv University and is currently pursuing Oregon State University's graduate program in Water Conflict Management & Transformation. She is a certified International Mediator, North Carolina Superior Court Mediator, and a graduate of the Water Environment Federation's Water Leadership Institute. Currently, she is Head of TAG East for Isle Utilities, a global water technology accelerator that brings together entrepreneurs, end-users, and investors to advance the adoption of emerging technologies and innovative practices.

Analyzing Sea Level Rise Adaptation Strategies at the City of Coral Gables
Courtyard Ballroom (2:30 pm – 3:00 pm)



Abby Corbett
Shareholder / Litigation Department
Stearns Weaver Miller, P.A.

SPEAKER: Abby Corbett is a Shareholder in the Litigation Department. She has experience in complex contract disputes, antitrust litigation, defamation and libel lawsuits, deceptive and unfair trade practice cases, RICO actions, False Claims Act cases, and insurance coverage litigation. She has also served as primary defense counsel in class actions involving the federal Electronic Funds Transfer Act, the federal Fair Debt Collection Practices Act, and the Uniform Commercial Code. Abby also regularly advises municipalities and other public entities on constitutional law and other government affairs issues, including legal considerations associated with adaptation to the effects of climate change. She has advised not-for-profit organizations and candidates for federal office on compliance with federal and state campaign finance laws. Before joining the Firm, Abby served as a law clerk for the Honorable Paul C. Huck of the United States District Court, Southern District of Florida. Prior to her clerkship, she was an Associate in the Washington, D.C. office of an international law firm.



Alan Garcia, Director
Broward County Water and Wastewater Services

Regional Resiliency Case Study: The C-51 Reservoir Project
Courtyard Ballroom (3:00 pm – 3:30 pm)

SPEAKER: Alan Garcia holds a Master's Degree and has spent 28 years as a professional engineer in the State of Florida serving as the City Engineer for the City of Pompano Beach as well as 18 years of service for the County as their Director of Water and Wastewater Engineering and currently as the Director of Water and Wastewater Services. He has provided leadership in insuring that the County provides a reliable, high quality supply of potable water and sewer services meeting all regulatory requirements and insuring the safety of the public water supply. In this role, he leads approximately 420 direct service and administrative professionals responsible for the County's provision of water, sewer and water management services.

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