

# STORMWATER SUMMIT 2021

## A Virtual Event

**Conference Program: JUNE 22–23**  
**Conference Workshops: JUNE 21 & 24**

[www.wef.org/StormwaterSummit](http://www.wef.org/StormwaterSummit)

This conference is held by the Water Environment Federation in cooperation with the Central States Water Environment Association.



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## STORMWATER SUMMIT COMMITTEES



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Conference Co-Chair*



Nancy Ellwood  
*CDM Smith  
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## STORMWATER SUMMIT COMMITTEES

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## STORMWATER SUMMIT COMMITTEES

### Stormwater Summit 2021 Program Committee, cont.

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## GENERAL VIRTUAL EVENT INFORMATION

The Stormwater Summit 2021 Virtual Event will be held online on an interactive platform where you'll gain access to five Technical Sessions as well as a Technology Spotlight, Company Demos and Networking Opportunities. Technical Sessions will be presented in two ways: Live and Simulated-live (or simu-live) to encourage the most interaction and engagement between speakers and registrants.

**Live sessions** will take you to a Zoom meeting where the speakers and moderators are giving their presentations on screen in real time while you watch. There will be one session each day hosted live on Zoom.

**Simu-live sessions** will be pre-recorded complete with moderator interaction and questions and the recordings will be played for you at a certain time and date during the virtual event. Speakers will be present at that time to answer any questions asked by our audience live via chat. Pre-recorded videos will be hosted and streamed from Vimeo.

*Please check to make sure you are able to access Zoom and Vimeo on the device you plan to use to attend the virtual event.*

## REGISTRATION

Online registration can be completed at any time before or during Stormwater Summit 2021: A Virtual Event by visiting the [Registration webpage](#).

The registration fee includes access to educational content; networking features; and digital conference proceedings. The pre- and post-conference workshops are optional (not included).

Conference registrants will receive their username, temporary password, and [login](#) instructions from [SWSummit@wef.org](mailto:SWSummit@wef.org). If you registered on or after June 18<sup>th</sup>, your [login](#) credentials will be sent to you within an hour during the event, and no later than the next business day (Monday-Friday).

For more information about registration policies, please visit the conference webpage at [www.wef.org/stormwatersummit](http://www.wef.org/stormwatersummit) and click the "Registration" tab.

Need help or didn't receive your login instructions? Contact [SWSummit@wef.org](mailto:SWSummit@wef.org).

## CONFERENCE CODE OF CONDUCT

WEF is committed to providing a professional, safe, and welcoming environment during its in-person and virtual events for all water professionals and their guests. WEF expects all attendees, speakers, sponsors, media, and other participants to uphold our commitment to diversity and inclusion by helping us provide a positive conference environment for everyone.

WEF has zero-tolerance for any form of discrimination or harassment, including but not limited to sexual harassment by participants or our staff at our meetings. WEF will take any action deemed necessary and appropriate, including immediate removal from the meeting without warning or refund, in response to any incident of unacceptable behavior, and WEF reserves the right to prohibit attendance at any future meeting, virtually or in person.

If you experience harassment or hear of any incidents of unacceptable behavior, WEF asks that you immediately email the WEF Executive Director Walter Marlowe.

### **Unacceptable behavior is defined as:**

- Negative comments about race/ethnicity, gender and gender identity, sexual orientation, disability, age, religion, physical appearance, citizenship, or other protected categories
- Unwelcome sexual attention, including inappropriate use of nudity and/or sexual images in public spaces or in presentations
- Threatening, stalking, or endangerment of others
- Any activity meant to cultivate hostility, ad hominem insults or other attacks

### **We do not tolerate the following:**

- Disruption of presentations during sessions, exhibitions, or at other events organized by WEF throughout the virtual meeting. All participants must comply with the instructions of the moderator and any WEF virtual event staff.
- Presentations, postings, and messages should not contain promotional materials, special offers, job offers, product announcements, or solicitation for services. WEF reserves the right to remove such messages and potentially ban sources of those solicitations.

Participants should not copy or take screen shots of any technical presentations, sponsor demonstration, Q&A or any chat room activity that takes place in the virtual space.

## **NETWORKING OPPORTUNITIES**

We are utilizing Kumospace to allow for casual networking. The space will be open throughout the entire conference, so stop in any time. You can choose from any of the rooms listed and talk with people inside your sound bubble. The closer you get to a group, the louder they become. Some rooms even have music and a chance to fill up a virtual drink. Explore and see what you can do!

We encourage you to join this platform after technical sessions and company demos to continue the conversation.

[Click here to download](#) tips on how to use Kumospace effectively.

## **ONLINE PROCEEDINGS**

Conference proceedings, consisting of manuscripts for each presentation, have been made available through an online portal. Advance registrants will receive an email with instructions on how to access to the Stormwater Summit 2021 online proceedings in the conference daily emails. Later registrants will receive an email with instructions to access proceedings following the event's conclusion.

Not attending this year's Stormwater Summit? Copies of proceedings may be ordered on Access Water starting after the event ends at the member rate of \$120 USD/nonmember rate of \$150 USD. You may call 1-800-666-0206 or visit [www.AccessWater.org](http://www.AccessWater.org) to place your order.

**SESSIONS-AT-A-GLANCE**

<b>Session</b>	<b>Session Title</b>	<b>Time</b>	<b>CE Credits</b>
<b>Tuesday, June 22</b>			
<b>OGS</b>	<b>Opening General Session</b>	<b>11:00 a.m. – 12:30 p.m. ET</b>	<b>1.5 PDHs</b>
<b>Company Demos</b>	<ul style="list-style-type: none"> <li>• <b>StormTunnel – Breakthrough Stormwater Capture Technology Presented by: StormTunnel by SEITec</b></li> <li>• <b>River Flood Studies: Good, Better, and Best Modeling Practices Presented by: Innovyze</b></li> </ul>	<b>12:30 p.m. – 1:20 p.m. ET</b>	<b>N/A</b>
<b>Session 1</b>	<b>Harnessing Innovations in GSI Funding &amp; Financing</b>	<b>1:30 p.m. – 2:30 p.m. ET</b>	<b>1.0 PDH</b>
<b>Session 2</b>	<b>Improving Community Well-Being: Getting the Most out of Stormwater Investments</b>	<b>3:00 p.m. – 4:00 p.m. ET</b>	<b>1.0 PDH</b>
<b>Wednesday, June 23</b>			
<b>Session 3</b>	<b>Innovation and Technology</b>	<b>11:00 a.m. – 12:00 p.m. ET</b>	<b>1.0 PDH</b>
<b>Technology Spotlight</b>	<ul style="list-style-type: none"> <li>• <b>Representative Rainfall for Advanced Stormwater Management and Flood Prediction Presented by Vieux &amp; Associates</b></li> <li>• <b>Digital Transformation of Stormwater Infrastructure Presented by Stantec</b></li> <li>• <b>From Continuous Monitoring and Adaptive Control (CMAC) to Smart Watershed Network Management Presented by OptiRTC</b></li> <li>• <b>Best Practices in Stormwater Infrastructure Investment for Effective Stormwater Management Plans (SWMPs) and Municipal Maintenance Presented by 2NDNATURE Software</b></li> </ul>	<b>12:00 p.m. – 1:00 p.m. ET</b>	<b>1.0 GCHs</b>
<b>Session 4</b>	<b>Stormwater Asset Management</b>	<b>1:00 p.m. – 2:00 p.m. ET</b>	<b>1.0 PDH</b>
<b>Session 5</b>	<b>Stormwater Program Management</b>	<b>3:00 p.m. – 4:30 p.m. ET</b>	<b>1.5 PDHs</b>

## CONTINUING EDUCATION

WEF provides an easy way for virtual conference participants to receive continuing education (CE) credits. Attendees can now track credits, download CE transcripts and access archived records,

- **For Professional Engineers:** WEF Education and Training events are accepted in most U.S. states. WEF maintains Provider Status with several state engineering boards, including the Florida Board of Professional Engineers (FBPE) and the New York State Education Department (NYSED).
- **For Professional Operators:** WEF will work with attendees on specific state approvals by request.

States' licensing boards encourage licensees to familiarize themselves with credit policies and requirements and to verify which events are approved or accepted in their state(s).

If you have questions about WEF's Continuing Education Program, please contact us at [csc@wef.org](mailto:csc@wef.org) or 1-800-666-0206.

### How to get your certificate?

On each session's page, you will see three tabs: session, quiz and certificate. In order to obtain your certificate, you will need to watch each session video in its entirety (on the session page), respond to attentiveness polls during the video, and pass the associated quiz with a score of 100%.

## SPONSORS

We would like to thank the following companies for their contributions to the conference and program.



## BRONZE SPONSORS

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## CONFERENCE SPONSORS

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## PRE-AND-POST-CONFERENCE WORKSHOPS

*(Additional fees apply)*

**Workshop A: Transforming Stormwater Infrastructure: Investing in Green for Scale and Impact**  
**Monday, June 21, 2021, 1:00 – 4:00 p.m. ET (UTC -4) – Live on Zoom**

**Coordinator:** Caroline Koch, WaterNow Alliance

**Speakers:** Cynthia Koehler, WaterNow Alliance; Lynn Broaddus, Broadview Collaborative, Inc.; Ed Harrington, San Francisco Public Utilities Commission; Eric Letsinger, Quantified Ventures; Jessica Brooks, Philadelphia Water Department; Tracy Tackett, Seattle Public Utilities; April Mendez, Rose Jordan, Greenprint Partners

**1:00 p.m. Welcome & Introductions**

**1:05 p.m. Scaling Investments in Distributed Green Stormwater Infrastructure:** What is distributed green infrastructure, how can communities invest in it at scale, and what resources are available for cities and utilities exploring GSI?

**2:00 p.m. Distributed GSI Case Studies: Philadelphia Water Department, Seattle Public Utilities, and Greenprint Partners**

**2:50 p.m. World Cafe: Three rounds of interactive facilitated discussion with the workshop panel**

**3:50 p.m. Report out & Wrap up**

## PRE-AND-POST-CONFERENCE WORKSHOPS

*(Additional fees apply)*

### Workshop B: Building Resilience to Climate Change Through Stormwater Management

Thursday, June 24, 2021, 1:00 – 4:00 p.m. ET (UTC -4) – Live on Zoom

**Coordinator:** Linda Reid, Water 365, LLC

**Speakers:** Matthew Bednarski, CDM Smith; Maria Hart, Nomad Planners, LLC; Tom Mlada, Lakeshore Natural Resource Partnership

- 1:00 p.m. Introduction to Workshop Participants, Climate Resilience Concepts, and Workshop Tools and Materials**
- 1:30 p.m. Workshop Speakers Share Their Own Examples of Climate Resilience Challenges and Planning Efforts**
- 2:00 p.m. Themed Breakout Groups to Discuss Particular Challenges, Followed by a Discussion about Shared Findings and Potential Solutions to Those Challenges**
- 2:30 p.m. Hazard Exploration Worksheet and Exploring Asset Vulnerability and Risks**
- 2:45 p.m. Climate Adaptation Core Competencies**
- 3:00 p.m. Assess and Discuss Core Competencies in Breakout Groups**
- 3:30 p.m. Developing a Plan of Action for Jump Starting a Climate Resilience Planning Effort in Your Own Communities**
- 3:45 p.m. Final Resource Sharing and Wrap-Up**

## TUESDAY, JUNE 22, 2021

### Opening General Session

Tuesday, June 22, 2021, 11:00 a.m. - 12:30 p.m. ET (UTC -4) – Live on Zoom

- 11:00 a.m. Welcome and Introduction from the Summit Co-chairs**  
Mark Doneux, Capitol Region Watershed District, Nancy Ellwood, CDM Smith
- 11:10 a.m. The Clean Watersheds Needs Survey and Stormwater Needs**  
Josh Klein, Elisabeth Schlaudt, Environmental Protection Agency
- 11:40 a.m. WEF 2020 National MS4 Needs Assessment Survey Overview and Results**  
Fernando Pasquel, Arcadis; Scott Taylor, Michael Baker International and National Municipal Stormwater Alliance; Rebecca Arvin-Colon, Water Environment Federation
- 12:05 p.m. Green Infrastructure in Municipal Separate Storm Sewer Systems**  
Robyn Deyoung, Matt King, U.S. EPA; Lauren Scott, Maddie Green, Lydia Johnson, Eastern Research Group

### Company Demos

Tuesday, June 22, 2021, 12:30 p.m. – 1:20 p.m. ET (UTC -4)

Sponsoring companies demonstrate the latest products, resources and problem-solvers with live chat Q&A

- 12:30 p.m. StormTunnel – Breakthrough Stormwater Capture Technology**  
Presented by: StormTunnel by SEITec
- 1:00 p.m. River Flood Studies: Good, Better, and Best Modeling Practices**  
Presented by: Innovyze

**TUESDAY, JUNE 22, 2021**

**Session 01: Harnessing Innovations in GSI Funding & Financing**  
**Tuesday, June 22, 2021, 1:30 - 2:30 p.m. ET (UTC -4) – Simu-live**

**Coordinator:** Caroline Koch, WaterNow Alliance

- 1:30 p.m. Introduction to Credit Trading & Debt Financing**  
Jeff Odefey, American Rivers; Janet Clements, Corona Environmental Consulting; Caroline Koch, WaterNow Alliance
- 2:00 p.m. Credit Trading & Debt Financing Case Studies**  
Shanyn Viars, American Water; Caroline Koch, WaterNow Alliance
- 2:15 p.m. Assessing Local Readiness**  
Janet Clements, Corona Environmental Consulting; Jeff Odefey, American Water; Caroline Koch, WaterNow Alliance

**Session 02: Improving Community Well-Being: Getting the Most out of Stormwater Investments**  
**Tuesday, June 22, 2021, 3:00 p.m. - 4:00 p.m. ET (UTC -4) – Simu-live**

**Moderators:** Rachel Jones, Gwinnett County Department of Water Resources; Carol Hufnagel, Tetra Tech

- 3:00 p.m. Evaluation of Green Infrastructure Co-benefits Across Various Regions in the United States**  
William Rainey, CDM Smith; Melissa McHale, Colorado State University
- 3:20 p.m. Chicago Public Schools Space to Grow — A Multi-Agency Program to Provide Places to Play and Improve Stormwater Management**  
Thomas Price, Environmental Consulting & Technology, Inc.
- 3:40 p.m. Getting the Most Good out of Green Infrastructure: Advancing Equity through Project Selection, Benefits-Driven Design, and Community Involvement**  
April Mendez, Rose Jordan, Greenprint Partners

## WEDNESDAY, JUNE 23, 2021

### Session 03: Innovation and Technology

Wednesday, June 23, 2021, 11:00 a.m. - 12:00 p.m. ET (UTC -4) – Simu-live

**Moderators:** John Philips, Parametrix; Dayton Marchese, Opti

**11:00 a.m. Moving from Monitoring to Metering: Benefits of Real-Time Flow Data in Stormwater Management**

Steven Cai, Suzie Housley, Erin Rothman, StormSensor Inc.

**11:20 a.m. Port of Long Beach Stormwater Harvesting Feasibility Study — Improving Water Quality and Enhancing Water Supply**

Alexis Holmdal, Ed Othmer, Stantec; Dylan Porter, James Vernon, Joseph Mulvihill, Port of Long Beach; Dean Wang, Heather Rhee, Long Beach Water Department

**11:40 a.m. Follow the Drop: Empowering Communities to Build Water Security & Resiliency**

Lauren Roth Venu, 3Rwater, Inc.

### Technology Spotlight

Wednesday, June 23, 2021, 12:00 p.m. – 1:00 p.m. ET (UTC -4) – Simu-Live

Similar to mobile sessions at in-person events, technology spotlights allow companies to showcase products and services in technical and educational presentations combined with equipment or hands-on visuals. There will be a live chat Q&A.

**12:00 p.m. Representative Rainfall for Advanced Stormwater Management and Flood Prediction**

Baxter Vieux, Vieux & Associates

**12:15 p.m. Digital Transformation of Stormwater Infrastructure**

Ed Othmer, Stantec

**12:30 p.m. From Continuous Monitoring and Adaptive Control (CMAC) to Smart Watershed Network Management**

Dayton Marchese, OptiRTC

**12:45 p.m. Best Practices in Stormwater Infrastructure Investment for Effective Stormwater Management Plans (SWMPs) and Municipal Maintenance.**

Jason Yoho, 2NDNATURE Software

**WEDNESDAY, JUNE 23, 2021**

**Session 04: Stormwater Asset Management**

**Wednesday, June 23, 2021, 1:00 p.m. - 2:00 p.m. ET (UTC -4) – Simu-live**

**Moderators:** Sarah Smith, Johnson County SMP; Mark Doneux, Capital Region Watershed District

**1:00 p.m. Orange County Stormwater Tools: Development of an Open Source Web Platform for Stormwater Asset Management and Modeling**

Aaron Poresky, Jamie Feldman, Geosyntec Consultants; John Burns, Sitka Technology Group; Cindy Rivers, OC Public Works

**1:20 p.m. Stormwater Asset Management Enabled by RFID**

Tom Hershberger, Berntsen International, Inc.

**1:40 p.m. Managing Stormwater Facilities in the Arid West: Implementation of Coachella Valley Water District's Asset Management Program**

Clinton McAdams, James Reitmeier, Black & Veatch; Scott Strosnider, Coachella Valley Water District

**WEDNESDAY, JUNE 23, 2021**

**Session 05: Stormwater Program Management**

**Wednesday, June 23, 2021, 3:00 p.m. - 4:30 p.m. ET (UTC -4) – Live on Zoom**

**Moderators:** Mike Harder, Metropolitan Airports Division; Bridget Osborn, HR Green, Inc.

**3:00 p.m. Large-Scale Green Stormwater Infrastructure Implementation in Philadelphia**

Raleigh Myers, CDM Smith; Angela Erat, Philadelphia Water Department; Andrew Baldrige, CDM Smith

**3:20 p.m. Adapting the Upper LA River Bacteria Load Reduction Strategy**

Brianna Datti, Craftwater Engineering; Dawn Petschauer, City of Los Angeles; Clint Boschen, Tetra Tech Inc

**3:40 p.m. Lancaster County Pennsylvania Municipalities are Implementing Pollutant Reduction Plans to Comply with MS4 Permit Requirements and Improve Water Quality in Local Streams and in the Chesapeake Bay**

Kara Kalupson, RETTEW Associates

**4:00 p.m. Vision of the Future: Developing a Water Quality Master Plan to Advance the City of Hampton's Downtown Economic Goals**

Jonathan Logue, Rosey Jencks, Brown and Caldwell

## SPEAKER BIOGRAPHIES

### Opening General Session

Tuesday, June 22, 2021, 11:00 a.m. - 12:30 p.m. ET (UTC -4) – Live on Zoom



Mark Doneux has over thirty-five years of experience in the water resource field. He has been a watershed district Administrator for over 22 years, serving as the Administrator of the Capitol Region Watershed District since 2003. As Administrator, Mark oversees all CRWD operations, including 22 staff, and manages the CRWD \$11.0 million annual budget and work plan. District operations include a regulatory program, stormwater research, watershed education, BMP operation and maintenance as well as owning, operating and maintaining a six-mile-long regional storm sewer system. The District also implements capital improvement projects and provides grant funding for water quality projects.



Ms. Ellwood is a CDM Smith senior environmental scientist with 35 years of experience in water resource management at the federal, state, regional and local level. Her expertise is in storm water management for large and small urbanized communities; planning and implementation of green infrastructure for storm water management and combined sewer overflow control; watershed planning and assessment; and environmental stewardship. Ms. Ellwood has a Master of Environmental Science degree from Miami University and a Bachelor of Science degree in Geology from Penn State.

## SPEAKER BIOGRAPHIES

### Opening General Session

Tuesday, June 22, 2021, 11:00 a.m. - 12:30 p.m. ET (UTC -4) – Live on Zoom



Joshua Klein has been with EPA for over 5 years in the State Revolving Fund Branch in the Office of Wastewater Management within the Office of Water. He currently works as the staff lead for the Clean Watersheds Needs Survey (CWNS), a comprehensive assessment of the capital costs (or needs) to meet the water quality goals of the CWA and address water quality and water quality related public health concerns. Josh graduated with a Master of Science in Environmental Science from American University in 2010 and has undergraduate degrees in Economics and Politics from Brandeis University.



Fernando is a Water Resources Manager with 35 years of experience developing and implementing stormwater and green infrastructure programs. Fernando has coauthored green infrastructure/BMP manuals in several states and has conducted over 81 training workshops covering all aspects of planning, designing, and maintaining urban stormwater management controls. He currently he serves as Vice Chair of the Advisory Committee of WEF's *Stormwater Institute* and as past chair of WEF's Watershed Management Committee.



Scott Taylor is a civil engineer with Michael Baker International, Inc., in their Carlsbad, CA office. Mr. Taylor received his BSCE from Cal Poly Pomona, and his MSCE from Cal State Long Beach. He is an ASCE Fellow, and a Diplomate in Water Resources Engineering. Mr. Taylor is a registered professional engineer in ten states. Mr. Taylor is the Chair of the National Municipal Stormwater Alliance, a 501(c)3 entity dedicated to clean water for the nation. He is a past Chairman of the Board of the California Stormwater Quality Association. Mr. Taylor has 35 years of experience in stormwater management, water quality and flood management.

## SPEAKER BIOGRAPHIES

### Opening General Session

Tuesday, June 22, 2021, 11:00 a.m. - 12:30 p.m. ET (UTC -4) – Live on Zoom



Matt King joined EPA's Office of Wastewater management in 2009 and supports the national Green Infrastructure Program. He collaborates with federal, state, and local partners to assess how green infrastructure can help communities meet environmental and social goals and works to promote green infrastructure in compliance and enforcement frameworks. Matt has a BA in English from the University of Illinois, a MPA in Environmental Policy and Natural Resource Management from Indiana University, and is currently pursuing an MS in Environmental Science from the University of Illinois.



Robyn is U.S. EPA's green infrastructure program lead in the Office of Water. After starting her career in permitting at the Ohio EPA, she was hired by U.S. EPA. For the past 10 years she's developed voluntary and regulatory programs that meet Clean Water Act and Clean Air Act requirements, including the Clean Power Plan, Climate Showcase Communities, Green infrastructure case studies and an Integrated Planning Report to Congress. Her MA is in Energy and Environmental Analysis and BA is in Environmental Science both from Boston University.

## SPEAKER BIOGRAPHIES

**Session 01: Harnessing Innovations in GSI Funding & Financing**  
**Tuesday, June 22, 2021, 1:30 - 2:30 p.m. ET (UTC -4) – Simu-live**



Caroline Koch, WaterNow Alliance Water Policy Director, leads the organization's work in identifying and addressing policy and legal barriers to implementation of sustainable water management practices through toolkit development, legislative and administrative advocacy, and policy white papers.



Jeffrey Odefey is the Director of Clean Water Supply Programs for American Rivers where much of his work focuses on fostering resilient water management policies and programs in the Lower Colorado River Basin. His past experience includes stints as a staff attorney for Waterkeeper Alliance and for Hudson Riverkeeper. A native of Colorado, Mr. Odefey holds a B.A. in from the University of Colorado, an M.A. from the University of Montana, and is a magna cum laude graduate of the Pace University School of Law.



Ms. Clements is the Director of Water Economics and Planning at Corona Environmental Consulting. She has more than 20 years of experience in water resources planning and economics. She conducts benefit-cost, triple-bottom line, and economic impact analyses of water-related policies and programs. She specializes in integrated water resource management, green infrastructure, stormwater funding/financing, environmental markets, and affordability of water and wastewater services. Before attending graduate school, Ms. Clements was a water and natural resources planner in a rural California county. She has a B.S. in Sustainable Resource Management from The Ohio State University and an M.S. in Resource Economics from Colorado State.

## SPEAKER BIOGRAPHIES

**Session 01: Harnessing Innovations in GSI Funding & Financing**  
**Tuesday, June 22, 2021, 1:30 - 2:30 p.m. ET (UTC -4) – Simu-live**



Shanyn joined American Rivers in 2018 with a background in economic analysis, urban planning, sustainability, and data management. Shanyn works on the “Stormwater Currency” initiative, assisting municipalities and communities on alternative funding and financing mechanisms for sustainable water management. Locally, Shanyn participates alongside community organizations and watershed groups in developing programs that foster equitable participation to addressing urban water challenges. Shanyn earned both a M.S. and B.S. in Economics with a concentration in Urban Policy from the Belk College of Business at UNC-Charlotte. Shanyn also taught Economics at Grand Valley State University in 2019.

## SPEAKER BIOGRAPHIES

### Session 02: Improving Community Well-Being: Getting the Most out of Stormwater Investments

Tuesday, June 22, 2021, 3:00 p.m. - 4:00 p.m. ET (UTC -4) – Simu-live



Rachel Jones is the Watershed Improvement Program Manager at the Gwinnett County Department of Water Resources and has been with them for 3 years. She is a Professional Engineer (GA) and Certified Floodplain Manager (CFM) with experience in various types of water resources projects including watershed protection, green infrastructure planning/design, MS4 permit compliance, erosion and sediment control, post-construction stormwater management, floodplain studies (hydrology, hydraulics and mapping), bridge/culvert hydraulic studies, stormwater master planning/CIP development and regional water planning.



Carol Hufnagel's 35-year career in wet weather has included work on stormwater, combined sewer and wastewater collection system issues across the country. She has worked with several major communities on the implementation of green stormwater infrastructure programs, with emphasis on the programmatic, institutional, financing, regulatory and social components. She also led the development of the WEF publication, "Green Infrastructure Implementation", which considered green stormwater infrastructure programs from both a programmatic and technical perspective.

## SPEAKER BIOGRAPHIES

### Session 02: Improving Community Well-Being: Getting the Most out of Stormwater Investments

Tuesday, June 22, 2021, 3:00 p.m. - 4:00 p.m. ET (UTC -4) – Simu-live



William Rainey is a Water Resources Engineer at CDM Smiths Denver office. He graduated with a Master of Science in Civil Engineering degree from Colorado State University in December 2020. While at Colorado State University, he engaged in the Urban Water Integrated Network, a consortium of multiple academic institutions and water industry partners aiming to address water challenges in a variety of contexts across the US. As his career progresses, he aims to advance his research on co-benefits of Green Infrastructure and expand his knowledge of stormwater solutions.



Tom is involved in a variety of stormwater & water quality improvement assignments, including watershed planning; planning, designing, and implementing green stormwater infrastructure; and design of water harvesting systems. His work has been focused on integration of green stormwater infrastructure into every landscape. Tom is responsible for the oversight of all engineering aspects of ECTs green stormwater infrastructure team. Tom routinely presents at workshops, conferences, and seminars on sustainable development topics.



April Mendez is the CEO for Greenprint Partners, an urban green stormwater infrastructure delivery partner. We make it easier for cities to build high-impact green infrastructure at scale and in partnership with their communities. April co-founded and spent 13 years building Interfaith Youth Core (IFYC), a \$4.5 million nonprofit that is transforming the way higher education engages religious diversity. She has also worked for the Steans Family Foundation and founded an organization dedicated to developing social entrepreneurship among minority youth in some of Chicago's toughest neighborhoods. April holds a B.A. from Carleton College and completed MBA coursework at the Kellogg School of Management at Northwestern University focusing on social innovation.

## SPEAKER BIOGRAPHIES

### Session 03: Innovation and Technology

Wednesday, June 23, 2021, 11:00 a.m. - 12:00 p.m. ET (UTC -4) – Simu-live



John is the Director of Integrated Watershed Management an approach to natural resources and infrastructure development in watershed planning, management, restoration, and climate change adaptation. Prior to Parametrix John worked for King County managing the Combined Sewer Overflow Control Program. Over his 19-year career, He has managed and developed the Green Stormwater Infrastructure (GSI) and Climate Change Adaptation programs. His climate work has been referenced in both the IPCC and National Climate Assessment reports. He is Past President of the Pacific Northwest Clean Water Association (PNCWA).

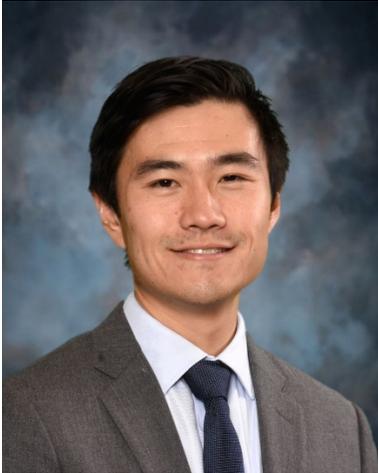


Dayton Marchese is a Water Resources Engineer at Opti, where he develops and implements solutions to water resources challenges by integrating internet of things (IoT) technology with civil infrastructure. Prior to Opti, Mr. Marchese worked with the U.S. Army Corps of Engineers Research and Development Center, developing tools and methodologies for watershed management. Mr. Marchese attended the University of California at Berkeley, where he earned an M.S. in Environmental Fluid Mechanics and Hydrology, and a B.S. in Environmental Science.

## SPEAKER BIOGRAPHIES

### Session 03: Innovation and Technology

Wednesday, June 23, 2021, 11:00 a.m. - 12:00 p.m. ET (UTC -4) – Simu-live



Steven is dedicated to bringing new and innovative technologies to pressing needs in sustainability and the environment. At StormSensor, he works with customers to help solve unique challenges in flooding and stormwater management. Steven previously worked at Utilis, The Climate Corporation, US EPA, and as a consulting engineer. He holds a BS in Environmental Engineering and Economics from Northwestern and an MS in Civil Engineering from University of Illinois Urbana-Champaign.



Alexis Holmdal, PE, PMP, ENV SP is a civil engineer for Stantec with 9 years of engineering experience relating to conveyance and stormwater management. Since relocating to California in 2019, Alexis has focused on stormwater planning and permit compliance projects. Alexis is a registered civil engineer in Massachusetts and received her bachelor's in civil engineering from Northeastern University.



Dylan Porter is the Manager of Water Quality Practices with the Port of Long Beach Environmental Planning Division. The Water Team manages stormwater compliance for all activities within the Port, overseeing industrial, commercial, and construction stormwater compliance required by the Long Beach MS4 (municipal stormwater) permit as well as sediment and biological resources. Dylan is a QISP ToR and QSP. He received his bachelor's in Environmental Studies from the University of Southern California and his Master's in Business Administration from California State University, Long Beach.

## SPEAKER BIOGRAPHIES

Session 03: Innovation and Technology

Wednesday, June 23, 2021, 11:00 a.m. - 12:00 p.m. ET (UTC -4) – Simu-live



Lauren Roth Venu is the Founder and CEO of 3Rwater Inc. She has over 20-years' experience in the water sector and is considered a leader in integrated water resource management and green infrastructure design. She was named a finalist for Entrepreneur-of-the-Year for Climate-Tech by HVCA, Top Emerging Designers by Pacific Edge Magazine, and Top Forty Under Forty Business Leaders by Pacific Business News. She also is a published author and has an MSc in Oceanography from the University of Hawaii and a BA in Environmental Science - Water Resources from the University of Colorado at Boulder.

## SPEAKER BIOGRAPHIES

### Session 04: Stormwater Asset Management

Wednesday, June 23, 2021, 1:00 p.m. - 2:00 p.m. ET (UTC -4) – Simu-live



Sarah Smith, PE, ENV SP, is a Project Manager for the Johnson County Stormwater Management Program (SMP). She has been with Johnson County since 2013. She earned her BS and MCE from the University of Kansas.



Mark Doneux has over thirty-five years of experience in the water resource field. He has been a watershed district Administrator for over 22 years, serving as the Administrator of the Capitol Region Watershed District since 2003. As Administrator, Mark oversees all CRWD operations, including 22 staff, and manages the CRWD \$11.0 million annual budget and work plan. District operations include a regulatory program, stormwater research, watershed education, BMP operation and maintenance as well as owning, operating and maintaining a six-mile-long regional storm sewer system. The District also implements capital improvement projects and provides grant funding for water quality projects.



Jamie Feldman received a bachelor's degree in environmental engineering from Columbia University in 2018. As a student, she interned at the Lamont-Doherty Earth Observatory researching the climate divide in the central United States, and at the Columbia Water Center developing machine learning algorithms to predict mine tailings dam collapse. An internship at Boomi Environmental then introduced her to the stormwater engineering industry. Since graduating she has worked at Geosyntec, where she contributes to stormwater management projects through programmatic data analysis and modeling.

## SPEAKER BIOGRAPHIES

### Session 04: Stormwater Asset Management

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Tom Hershberger, vice president of Sales & Marketing for Berntsen International, is a customer-focused marketing and sales leader with proven success at building brands and driving customer engagement. As an engineer, Hershberger earned seven patents for infrastructure product innovations. He leverages this technical expertise and deep business development experience to cultivate strategic partnerships and generate revenue growth in new markets. He is leading the market introduction of the InfraMarker Connected RFID Asset Management Solution to stormwater utilities.



Clinton has helped utilities navigate the dilemma of civil infrastructure degradation by implementing asset management strategies for various water industries. Emphasizing the importance of resolution and coverage during data collection has led to him successfully executing prioritization efforts, remediation design, CMMS implementation, asset management program development, and serving as the owner's advisor. He feels there is always something new to be learned from each project, place, and person.

## SPEAKER BIOGRAPHIES

### Session 04: Stormwater Asset Management

Wednesday, June 23, 2021, 1:00 p.m. - 2:00 p.m. ET (UTC -4) – Simu-live



James Reitmeier is in the Civil Engineer group for Black & Veatch's Water Division. James focuses on Asset Management and the Design of Wastewater and Recycled water facilities.



Scott Strosnider, P.E., CFM is an Associate Stormwater Engineer with Coachella Valley Water District. Scott's focus is on Capital Improvement Projects and is also in charge of reviewing private development projects for the Coachella Valley.

## SPEAKER BIOGRAPHIES

### Session 05: Stormwater Program Management

Wednesday, June 23, 2021, 3:00 p.m. - 4:30 p.m. ET (UTC -4) – Live on Zoom



Mike Harder is an Environmental Administrator at the Metropolitan Airports Commission (MAC) in Minneapolis, where he has been for 16 years. He is a Project Manager who is responsible for ensuring environmental compliance at Minneapolis-St. Paul International Airport (MSP), six metro area MAC Reliever airports and MAC tenants.



Bridget has been a water resources engineer at HR Green for the past 11 years. She has a Geology degree from the University of Wisconsin Eau-Claire and a Geological Engineering degree from the University of Minnesota. She specializes in watershed assessment, surface water management analysis, prioritization and design, hydrologic and hydraulic modeling as well as agency coordination and permitting.



Dwayne Myers is a water resources engineer based in CDM Smiths Philadelphia office. He has over 20 years of experience in projects involving hydrology, hydraulics, watersheds, and wet weather planning and management, with a focus on green infrastructure in the larger context of sustainable cities.

## SPEAKER BIOGRAPHIES

### Session 05: Stormwater Program Management

Wednesday, June 23, 2021, 3:00 p.m. - 4:30 p.m. ET (UTC -4) – Live on Zoom



Angela manages the Regulatory Compliance Assurance program within the Office of Watersheds at the Water Department. Angela is responsible for overseeing the continued compliance with Clean Water Act obligations for the Department as well as planning for upcoming/pending obligations. The position requires a thorough understanding of current National Pollutant Discharge Elimination System permits, Consent Order & Agreements (COA), and Total Maximum Daily Loads (TMDL) requirements to identify current and potential compliance risks for existing obligations.



Brianna Datti is the lead engineer of the regulatory and water quality science discipline at Craftwater Engineering, specializing in hydrology and water quality modeling and analysis. She has experience in stormwater management and water quality planning in southern California to address a variety of impairments, along with ever-evolving regulations and scientific guidelines. She has developed accurate watershed modeling to assess existing water quality and determine best management practices to reach compliance with TMDLs, MS4 permit requirements, and other regulatory conditions.



Ms. Petschauer is a Senior Water Biologist with the City of Los Angeles Watershed Protection Division and has been with the City since 2009. Ms. Petschauer has over 19 years of experience in water quality, NPDES/MS4 compliance and stormwater program management including serving as the watershed lead of the Upper Los Angeles River Enhanced Watershed Management Group (ULAR EWMP) for the past 6 years. Most recently she led the development of the LRS Adaptation Plan for the ULAR WMG—successfully securing \$1.25M in Safe Clean Water Program funds—to support a risk-based targeted approach to decrease health risks associated with bacteria-related issues.

## SPEAKER BIOGRAPHIES

### Session 05: Stormwater Program Management

Wednesday, June 23, 2021, 3:00 p.m. - 4:30 p.m. ET (UTC -4) – Live on Zoom



Kara Kalupson is a Registered Landscape Architect and Senior MS4/Stormwater Coordinator for RETTEW Associates in Lancaster County, PA. For the past 7 years, she has focused primarily on stormwater management, and has developed municipal stormwater management programs, prepared pollutant reduction plans, and has assisted municipalities and private landowners with the design, construction and long-term maintenance of structural stormwater BMPs. She works directly with municipal staff to achieve sediment and nutrient reductions as required by the NPDES MS4 Stormwater Permit.



J. Kyle Logue is a principal engineer specializing in stormwater management and compliance. With over 10 years of experience helping Hampton Roads localities, Kyle is an active member of WEF and his local MA, VWEA!

## SPEAKER AND MODERATOR DIRECTORY

Steven Cai  
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Kara Kalupson  
*Session 05*

Dawn Petschauer  
*Session 05*

Janet Clements  
*Session 01*

Matt King  
*OGS*

John Phillips  
*Session 03*

Brianna Datti  
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Joshua Klein  
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Dylan Porter  
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Robyn Deyoung  
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Caroline Koch  
*Session 01*

Thomas Price  
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Mark Doneux  
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Alexis Holmdal  
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Carol Hufnagel  
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Bridget Osborn  
*Session 05*

Sharyn Viars  
*Session 01*

Rachel Jones  
*Session 02*

Fernando Pasquel  
*OGS*

## UPCOMING WEF EDUCATION & TRAINING EVENTS

### **AWWA/WEF Utility Management Conference 2021**

Atlanta, GA

August 3-6, 2021

[www.wef.org/utilitymanagement](http://www.wef.org/utilitymanagement)

### **WEFTEC 2021**

McCormick Place, Chicago, IL

Conference: October 16-20, 2021

Exhibition: October 18-20, 2021

WEFTEC Online: November 16-18, 2021

[www.weftec.org](http://www.weftec.org)

### **WEF Forum: Particles & Colloids – The Next Frontier in Intensifying Water Resource Recovery**

Fort Lauderdale, FL

January 10-12, 2022

[www.wef.org/forum](http://www.wef.org/forum)

### **AWWA/WEF Utility Management Conference 2022**

Orlando, FL

February 21-24, 2022

[www.wef.org/utilitymanagement](http://www.wef.org/utilitymanagement)

### **Public Health Conference and Wastewater-Based Epidemiology Summit**

Cincinnati, OH

March 21-24, 2022

### **Collection Systems Conference 2022**

Detroit, MI

April 19-22, 2022

[www.wef.org/collectionsystems](http://www.wef.org/collectionsystems)

## UPCOMING WEF EDUCATION & TRAINING EVENTS

### **Residuals and Biosolids Conference 2022**

Columbus, OH

May 24-27, 2022

[www.wef.org/residualsbiosolids](http://www.wef.org/residualsbiosolids)

### **Innovations in Process Engineering Conference 2022**

Miami, FL

June 20-23, 2022

[www.wef.org/processengineering](http://www.wef.org/processengineering)

### **Save the Date! Stormwater Summit 2022**

Minneapolis, MN

June 27-29, 2022

[www.wef.org/stormwatersummit](http://www.wef.org/stormwatersummit)

For a complete schedule of upcoming events, check our Upcoming Conferences website at <https://www.wef.org/events/conferences/upcoming-conferences/>