

# STORMWATER SUMMIT 2021

A Virtual Event

JUNE 22-23

## **Stormwater Summit 2021: A Virtual Event**

### **Technical Program**

(Updated June 10, 2021)

### **Virtual Event**

**June 22-23, 2021**

### **Workshops**

**June 21 & June 24**

# STORMWATER SUMMIT 2021

## A Virtual Event

JUNE 22-23

### 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.***

## Sponsors

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



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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

Facing crumbling infrastructure, growing regulatory requirements, a rapidly changing climate and shifting population patterns, cities, towns and utilities nationwide are increasingly turning to green stormwater infrastructure (GSI) solutions to complement their grey infrastructure. Innovative GSI distributed across communities helps to meet local water quality and flood management goals, treating pollutants, capturing stormwater and allowing it to soak into the ground or evaporate instead of entering sewers and contributing to overflows or basement backups—often more affordably and faster than centralized infrastructure. Despite these benefits, utilities struggle to scale up investments in decentralized GSI strategies, which are typically funded out of limited operating budgets or one-time grants.

Through a highly interactive World Café workshop, this session will explore new opportunities to finance localized GSI on both public and private properties and highlight communities that are at the forefront of this transformation. Featuring policy, finance, and accounting experts as well as utility GSI practitioners, WaterNow's workshop will: (1) expand participants' understanding of GSI and how GSI investments can be capitalized alongside more conventional systems, (2) arm participants with the resources they need to scale their communities' investments in sustainable, climate resilient stormwater management strategies, and (3) demonstrate how distributed GSI installed across a community can help meet communities' goals to achieve a more equitable water system and provide multiple benefits to neighborhoods, including those that have been historically underserved.

## **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

In the future, more frequent and heavy precipitation events resulting from climate change are predicted to exacerbate stormwater problems like flooding, pollution, and erosion in many parts of the country. Stormwater professionals will need to expand their organizations' climate resilience knowledge and competencies in response.

In this session we'll discuss concepts and core competencies needed for climate change adaptation and resilience in the stormwater space. Workshop participants will discuss the particular challenges they face (e.g., administrative, stakeholder engagement, funding, etc.), and will engage in activities to familiarize themselves with key planning tools for responding to those challenges.

We'll share examples about climate resilience planning efforts undertaken by organizations in a number of communities from the perspectives of a stormwater engineer, elected official, environmental nonprofit partner, and climate adaptation specialist, and we'll help workshop participants outline a plan of action for launching climate resilience efforts in their own communities.

# Virtual Event – 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 Demo

Tuesday, June 22, 2021, 1:00 p.m. – 1:20 p.m. ET (UTC -4)

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

- 1:00 p.m.     **River Flood Studies: Good, Better, and Best Modeling Practices**  
Presented by: Innovyze

## 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

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# Virtual Event – Tuesday, June 22, 2021

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## **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

# Virtual Event – 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 and 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 Water

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## **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

## **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