

wef.org/StormwaterSummit

#WEFStormwater

STORMWATER SUMMIT

CONFERENCE PROGRAM

PRE-CONFERENCE WORKSHOPS

June 27

CONFERENCE + EXHIBITION

June 28-29

2022



This conference is organized by the Water Environment Federation Stormwater Institute (SWI) in cooperation with the Central States Water Environment Association.



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Stormwater Summit 2022

June 27-29
Hyatt Regency Minneapolis
Minneapolis, Minnesota

#WEFStormwater



*This conference is held by the Water Environment Federation
Stormwater Institute (SWI) in cooperation with the Central States Water
Environment Association.*

To Our Friends and Colleagues:

Welcome to the great city of Minneapolis! The Water Environment Federation Stormwater Institute (SWI) in cooperation with the Central States Water Environment Association (CSWEA) are excited to bring Stormwater professionals and practitioners together for three days of learning, sharing and celebrating the value of our work. After almost two years of living through the COVID-19 pandemic, we acknowledge that engagements like this have been drastically altered from what we had become accustomed to. It's truly a pleasure to offer this in person event where you will hear unique perspectives on stormwater themes all while enjoying a great environment to network and discuss the latest hot topics with your peers.

As Chairs, we are confident of the value of this Summit, and we also hope you enjoy your time here. Please seek us out and share your experiences with us so we can reinvest that knowledge into continued success of this conference. Take a minute to complete a survey to provide us with your valuable input or share your thoughts with staff.

Summit Highlights

Pre-Conference Workshop: A special workshop is being offered on Monday that will enhance your educational experience. Join *Get to Know the Equity Guide: Measuring & Evaluating Progress Towards Equity in GSI* which offers insights into incorporating effective equity elements into your green stormwater infrastructure.

Opening General Session: The Opening General Session will include a welcome from WEF and CSWEA, a keynote from Katrina Kessler with the Minnesota Pollution Control Agency, and a special presentation on successful local water quality initiatives by Bill Dean with Poseidon Education and a group of young voices. Join your friends and colleagues and share the experience to kick-off the two-day conference of diverse technical sessions, technology spotlight, tours, and networking.

Technical Sessions, Technology Spotlight, and Exhibition: The technical program was developed to provide presentations that cover a wide range of topics, including regulatory trends, innovation, and the benefits (and challenges) of stormwater management with a focus on sustainability, climate resiliency, and environmental justice. We are excited to continue the conversation on Diversity, Equity, and Inclusion in Stormwater Project Planning during the Session 17 panel discussion on June 29th. Please attend this session to start thinking about the connections between stormwater planning and implementation and their impact on local communities. In addition, there will be a technology spotlight (previously mobile session) allowing attendees to interact directly with exhibitors to gain hands-on knowledge about existing products and services, along with highlighting emerging topics and technologies that are new to the marketplace.

Tours: We encourage you to take part in our local tours. The first is an app-based, self-guided walking tour of downtown Minneapolis GSI installations that is open to all at no cost. The June 28th afternoon tour travels to Allianz Field, the Capital Region Watershed District Office, and the Towerside Innovation District to view innovative stormwater management practices. You can add these tours on to your registration onsite as long as seats are available.

Stormwater Committee Meeting: Are you new to WEF? Interested in learning more about stormwater programming at WEF? Then plan on attending the WEF Stormwater Committee meeting during the lunch break Tuesday, June 28th at 12:45 p.m.

Welcome Reception and Networking Event: In addition to the traditional networking breaks during the technical sessions, there are two great opportunities to get reacquainted with your stormwater colleagues. The first is a Welcome Reception hosted by Central States Water Environment Association on Monday evening, June 27th from 5:30 to 9:00 at Lakes & Legends Brewing. Registration for the Welcome Reception is separate and can be found at: <https://bit.ly/3tt9bh0>. The second networking event is Tuesday, June 28th following the Technical Sessions on the Exhibit Floor from 4:45 – 6:15 p.m.

We encourage you to make the most of our time together. Step away from your daily routine of meetings, emails, deliverables, approvals and submittals to take a well-deserved pause. Here, you have rich opportunities to interact, in person, with the best and brightest in our sector - in an open, engaging, and unique program. This is a great time for you to think beyond the day to day about how you can increase your impact back home!

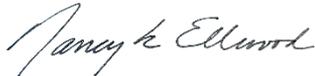
On behalf of WEF, the summit steering committee, the dedicated staff, and all moderators and speakers, we invite you to make this summit experience your best yet!

Thank you for joining us!

Sincerely,



Mark Doneux – Conference Co-Chair



Nancy Ellwood - Conference Co-Chair

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Section headers are color coded by **General Conference Information** (aqua), **Program** (yellow), and **Exhibition and Sponsors** (red).

CONFERENCE CO-CHAIRS



Mark Doneux
Conference Co-Chair
Capitol Region Watershed District



Nancy Ellwood
Conference Co-Chair
Retired from CDM Smith

CONFERENCE COMMITTEES

CONFERENCE STEERING COMMITTEE

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City of Madison, WI

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CONFERENCE COMMITTEES

CONFERENCE PROGRAM COMMITTEE

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HEALTH AND WELL-BEING

WEF's priority at all meeting and events is always the health and safety of our community. Refer to this conference's website for the most current protocols posted under "Health and Well-Being": www.wef.org/StormwaterSummit

WEF SOCIAL MEDIA POLICY

WEF strongly encourages the use of social media to share your experiences at our event. This includes sharing interesting quotes or information, taking pictures with colleagues, and using the event hashtag: **#WEFStormwater**. However, to protect intellectual property, videotaping, filming, or live-streaming of any workshop or technical session presentation, or exhibit booth is prohibited. Any participant violating this policy must relinquish the media and may be removed from the conference. Also, promotional or commercial use of photographs taken at WEFTEC and other WEF conferences is strictly prohibited. If you are interested in content, materials, or products, please consider talking to the speaker or exhibitor, who may provide the information or grant permission.

CODE OF CONDUCT

You agree to treat all individuals with respect and create a collegial, inclusive, and professional environment. You will value a diversity of views and opinions by communicating openly with respect for others. You shall not verbally abuse any individual. You shall not discriminate, harass, or intimidate on the basis of gender, race, gender identity and expression, sexual orientation, physical or mental disability, physical appearance, age, religion, national origin, veteran status, citizenship, or professional rank. Anyone requested to stop unacceptable behavior is expected to comply immediately. WEF management may take any action deemed necessary and appropriate, including removal from the event (and any remaining portions thereof) without warning and without refund of registration fee.

This **WEF Events Code of Conduct** provides general guidelines and cannot cover every possible type of unacceptable behavior which is listed at <https://bit.ly/3aSmOjj>.

Additionally, if you are a WEF Member, you agree to uphold the **WEF Member Code of Conduct** while attending WEF Events and is available at <https://www.wef.org/about/about-wef/wef-policies/>.

Reporting Concerns

To report a Code of Conduct violation, you may email WEF Executive Director, Walter Marlowe at wmarlowe@wef.org or Chief Operating Officer, Kathleen Waugh at kwaugh@wef.org.

CONFERENCE SAFETY AND SECURITY

Hyatt Regency Minneapolis

1300 Nicollet Mall
Minneapolis, MN 55403
Main Phone: (612) 370-1234 (available 24 hours)

In case of an emergency – dial 55 from any hotel phone and immediately report it.

If the matter is NOT an emergency, dial 44 from any hotel phone, ask to speak to the Security Manager on Duty, and report the matter accordingly.

REGISTRATION

All events are held in the Hyatt Regency Minneapolis.

The Registration Desk is located in the Great Lakes Promenade and will be open at the following times:

Monday, June 27	7:30 a.m. – 5:00 p.m.
Tuesday, June 28	7:30 a.m. – 5:00 p.m.
Wednesday, June 29	8:00 a.m. – 5:00 p.m.

PRESENTER AND FACILITATOR INFORMATION

All presenters, alternates, and moderators should sign in at the conference Registration Desk and attend their assigned briefing.

Presenters participating Tuesday and Wednesday should attend their assigned briefing. Please attend only once unless speaking on multiple days. The Speaker Briefing and room schedule is as follows:

Tuesday, June 28 — Room: Boundary Waters D 7:45 a.m. – 8:15 a.m.
*Sessions 1 through 8

Wednesday, June 29 — Room: Boundary Waters D 7:45 a.m. – 8:15 a.m.
*Sessions 9 through 17

WEF STORMWATER SUMMIT MY SHOW PLANNER

New Online Planner Launching for #WEFStormwater



WEF is pleased to offer the mobile-friendly online *WEF Stormwater Summit My Show Planner*.

View full program details, speakers, exhibitors, and sponsors.

Set up your My Show Planner account to begin saving your favorite sessions, speakers, exhibitors, and sponsors to your plan and receiving recommendations.

Scan the QR code to access the site, or visit <https://sw22.mapyourshow.com>

COMMITTEE MEETINGS

Stormwater Policy, Regulation, and Governance Sub-Committee Meeting

Monday, June 27 | 10:30 a.m. - 11:30 p.m.

Room: Lake Bemidji

Stormwater Institute Advisory Committee Meeting

Monday, June 27 | 12:00 p.m. - 1:00 p.m.

Room: Lake Bemidji

Stormwater Committee Meeting

All are Welcome to Join!

Wednesday, June 29 | 12:45 p.m. - 1:15 p.m.

Room: Boundary Waters B

RECEPTIONS AND MEAL FUNCTIONS

Networking Luncheons

Lunch will be provided for all registered attendees on both full days of the Stormwater Summit. Use this opportunity to meet your fellow participants from across the country and abroad while enjoying a luncheon. The menu has been created with a variety of dietary preferences in mind, but please let staff know if you have specific restrictions.

Tuesday, June 28 and Wednesday, June 29

Exhibit Hall – Great Lakes Hall

12:15 p.m. – 1:30 p.m.

Networking Reception

Join fellow Stormwater Summit attendees, speakers, and exhibitors in the Exhibit Hall to network and relax while enjoying a complimentary beverage and light hors d'oeuvres.

Tuesday, June 28

Exhibit Hall – Great Lakes Hall

4:45 p.m. – 6:15 p.m.

Sponsored by: Arcadis

Networking Breaks will take place in the Exhibit Hall – Great Lakes Hall at the following times:

Tuesday, June 28 and Wednesday, June 29

10:00 a.m. – 10:45 a.m.

3:00 p.m. – 3:45 p.m.

CONTINUING EDUCATION

Continuing Education files will be available online following the conclusion of the conference.

You will be able to view your participation details and access your Continuing Education Credits for Technical Sessions online. Attendees will have daily access to their certificates and transcripts through an online portal for 1 year from the event date. After that time, CE documentation will be available through WEF's new CE Credit Archive site: <https://www.wef.org/resources/wef-ce-credit-archive>. These details will be posted on the conference homepage on WEF.org and emailed to event participants after the conference.

How Do I Receive Credit For this Conference?

In order to receive credit for participation in any of the technical sessions, you will be required to fill out a paper form indicating the time you entered and exited each session room. Forms should be initialed by either a Room Monitor, WEF Staff, or Facilitator for all technical sessions you attend. Credits obtained during this event will be available at the end of the conference using a link provided via email.

Technical Sessions:

WEF offers Professional Development Hours (PDHs) for participation in technical sessions. **A PDH is defined as one hour** spent engaged in an activity that contributes to the advancement or enhancement of professional skills or scientific knowledge of a professional engineer or operator.

When Will I Receive Credits For this Conference?

Certificates and transcripts will be available for download after the conference. ***WEF will send an email after the conference to inform each attendee where they can obtain these credits.*** Please keep in mind that most state licensing boards require the individual licensees to report continuing education credits.

Note: Educational Credits will not be recorded, and documentation will not be distributed unless the attendee is a confirmed registrant of this event and the proper steps are completed as indicated in the directions provided.

CONTINUING EDUCATION

Are WEF Continuing Education Credits Approved in My State?

WEF applies for approval in many states and will be happy to work with individuals and Member Associations for additional state or agency approvals upon request. In addition, WEF has been approved as a Training Provider through the following:

The Florida Board of Professional Engineers, the New York State Department of Education, and the Ohio EPA. Several states typically accept WEF PDH and CEU credits as issued by WEF. For example: California (CWEA), Florida and New Jersey.

What Else Do I Need to Know?

WEF follows the International Association of Continuing Education and Training (IACET) guidelines along with state-specific regulations to achieve strict policies and procedures regarding its Continuing Education Program. WEF calculates education credits following a standardized method that is the most widely accepted by certification and licensing agencies. However, many states differ in the type and/or number of credits they will approve for educational events. Because of this, participants are responsible for exploring their state requirements and for ensuring that WEF conference credits are accepted.

Service and Support...

WEF maintains a database of all continuing education files for a minimum of 7 years. You may contact WEF's Customer Service Team between the hours of 8:30 a.m. and 5:00 p.m. EST, Monday through Friday for questions related to WEF Programs - 1-800-666-0206 or csc@wef.org.

State Credit Calculations:

Each state has its own set of CE credit requirements. Some state licensing boards will accept CEUs for session under 3 hours in length. Some use different acronyms for training credits. In most instances the credits issued by WEF can be converted to meet state specific requirements that vary from the system used by WEF. This is usually managed at the state level using the following conversion:

1.0 CEU = 10 Hours of session time

1.0 PDH = 1 Hour of session time

1.0 Contact Hour = 1 Hour of session time

For example: **1.7 CEU Credits = 17.0 PDH** depending on individual state regulations.

**CEU & PDH credits are available for Workshops to Professional Engineers licensed in the state of New York (NYSED).*

For more information regarding WEF's Continuing Education Program, please visit www.wef.org/StormwaterSummit.

GET INVOLVED WITH WEF

The Water Environment Federation offers many ways to get engaged, build a network, and improve your skills as a water professional. See below for just a few examples.

Become a WEF Member

WEF is your access to water knowledge and invaluable networking opportunities with more than 30,000 professionals and thought leaders in water quality. For more information about membership categories, pricing, and member benefits, visit www.wef.org/membership/join-wef.

Join a WEF Committee

More than 2,500 WEF members participate in WEF committee activities, developing conference programs, writing technical manuals and books, developing training materials and program content, and many other WEF program activities. Committees include Stormwater, Collection Systems, Public Communication and Outreach, and more! To learn more about joining a committee, visit www.wef.org/committees. WEF membership is required to participate.

Submit to Water Environment Research

Published since 1928, Water Environment Research (WER) is an international multidisciplinary water resource management journal for the dissemination of fundamental and applied research in all scientific and technical areas related to water quality and resource recovery. In addition to original research articles, short communications, case studies, reviews, and perspectives are encouraged.

Continue your Education Online

In addition to in-person conferences, WEF also offers a variety of technical and leadership courses online. Through the WEF Learning Center, members and non-members can sign up to join webcasts, online courses, and virtual workshops. Visit <https://learn.wef.org> for more information. In addition, WEF also offers a blending learning program called the Water Leadership Institute which brings together water professionals from around the US, Canada, and world. Learn more at www.wef.org/wli.

Attend WEFTEC

WEFTEC is WEF's largest and most comprehensive conference, featuring dozens of technical sessions, a massive exhibit hall, and plenty of networking opportunities. WEFTEC 2022 will be held October 8-12, 2022 in New Orleans, Louisiana. More information can be found at www.weftec.org.

SPONSORS

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

For Company information, view Sponsors in the online planner:
<https://sw22.mapyourshow.com>

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TOTES

SESSIONS AT A GLANCE

Session Number	Session Title	Start Time	End Time	CE Credits
Monday, June 27				
Workshop A	Get To Know the Equity Guide: Measuring & Evaluating Progress Towards Equity in GSI	8:30 a.m.	5:00 p.m.	0.6 CEUs
Tuesday, June 28				
OGS	Opening General Session	8:30 a.m.	10:00 a.m.	1.5 PDHs
Session 01	Getting a Handle: Planning and Technology for Stormwater Improvements	10:45 a.m.	12:15 p.m.	1.5 PDHs
Session 02	Reducing Risks Through Effective Stormwater Asset Management	10:45 a.m.	12:15 p.m.	1.5 PDHs
Session 03	Minnesota NICE! Governance, Research and Financing for Clean Water Projects in Minnesota	10:45 a.m.	12:15 p.m.	1.5 PDHs
Tour	Stormwater Reuse, and LID Tool!	1:00 p.m.	4:30 p.m.	3.5 GCHs
Session 04	Collaboration for Climate Resilience	1:30 p.m.	4:45 p.m.	2.5 PDHs
Session 05	Engaging the Public	1:30 p.m.	3:00 p.m.	1.5 PDHs
Session 06	Rainfall to Results Version 2.0 - Charting the Future of Stormwater at WEF	1:30 p.m.	3:00 p.m.	1.5 PDHs
Technology Spotlight	Technology Spotlight	3:15 p.m.	3:40 p.m.	0.25 GCHs
Session 07	National Municipal and Green Infrastructure Awards: Highlighting Success and Innovation in Stormwater	3:45 p.m.	4:45 p.m.	1 PDH
Session 08	Improving the Stormwater Data in the 2022 EPA Clean Watershed Need Survey: The Perspectives of EPA, States, and Local Stormwater Programs	3:45 p.m.	4:45 p.m.	1 PDH
Wednesday, June 29 Morning				
Session 09	New Approaches in Water Quality	8:30 a.m.	10:00 a.m.	1.5 PDHs
Session 10	Developing a Plan? Keep Your Watershed in Mind	8:30 a.m.	10:00 a.m.	1.5 PDHs
Session 11	Stormwater Modeling, Monitoring, and Maintenance	8:30 a.m.	12:15 p.m.	2.5 PDHs
Session 12	Great Green Stuff in Program Development	10:45 a.m.	12:15 p.m.	1.5 PDHs
Session 13	Case Studies in Comprehensive Stormwater Planning	10:45 a.m.	12:15 p.m.	1.25 PDHs

SESSIONS AT A GLANCE

Session Number	Session Title	Start Time	End Time	CE Credits
Wednesday, June 29 Afternoon				
Session 14	Latest in Hydrology and Hydraulics	1:30 p.m.	4:45 p.m.	2.5 PDHs
Session 15	There's an App for That: Technology Applications for Storm Water Utility Formation, Management, and Outreach	1:30 p.m.	3:00 p.m.	1.5 PDHs
Session 16	Leveraging GIS	3:45 p.m.	4:45 p.m.	1 PDH
Session 17	From National to Local Perspectives on Environmental Justice and Climate Resilience	1:30 p.m.	3:00 p.m.	1.5 PDHs

PRE-CONFERENCE WORKSHOPS

(Additional fees required)

Workshop A: Get to Know the Equity Guide: Measuring & Evaluating Progress Towards Equity in GSI

Monday, June 27

Room: Boundary Waters A

8:30 a.m. – 5:00 p.m.

0.6 CEUs

8:30 a.m. Opening Remarks, Introduction, Objectives & Definitions, and Activity & Timeline

Kasey Armstrong, Green Infrastructure Leadership Exchange; April Mendez, Greenprint Partners; Beatrice Ohene-Okae, Department of Energy & Environment

9:05 a.m. Check In

Kasey Armstrong, Green Infrastructure Leadership Exchange

9:15 a.m. Panel: The State of Equity in GI & How GI Can Advance Equity (Part 1)

9:15 a.m. April Mendez

9:25 a.m. Beatrice Ohene-Okae

9:35 a.m. Sarah Bloom

9:45 a.m. Q&A

10:00 a.m. Networking Break

10:30 a.m. Panel: The State of Equity in GI & How GI Can Advance Equity (Part 2)

10:30 a.m. April Mendez

10:40 a.m. Kasey Armstrong

10:50 a.m. Belinda Gardner

11:00 a.m. Q&A

11:15 a.m. Applying What We've Learned So Far: Pairs & Group Reflection Activity

11:30 a.m. Exploring the Equity Guide & How to Use It to Effect Change

- Large group activity & discussion: Goals Assessment
 - Regroup, frame up afternoon
- Kristin Ihnchak, Greenprint Partners

12:00 p.m. Lunch

Workshop A Agenda continues on following page...

PRE-CONFERENCE WORKSHOPS

(Additional fees required)

Workshop A Agenda continues from previous page

- 1:30 p.m. Exploring the Equity Guide & How to Use It to Effect Change (con't)**
- Quick participatory check-in and regroup
 - Presentation: Intro to Plan, Do, Check, Act -
 - How do you use the Guide?
 - Centering Community Module - Guided
 - Demonstration
 - Small group work
- Kristin Ihnchak, Greenprint Partners
- 3:00 p.m. Networking Break**
- 3:30 p.m. Exploring the Equity Guide & How to Use It to Effect Change (con't)**
- Centering Community Module - Guided
 - Demonstration (con't)
 - Small group work
 - Q&A
- Kristin Ihnchak, April Mendez, Greenprint Partners
- 4:30 p.m. Closing Remarks**
- Kasey Armstrong, Green Infrastructure Leadership Exchange;
April Mendez, Greenprint Partners; Beatrice Ohene-Okae,
Department of Energy & Environment
- 5:00 p.m. Workshop adjourns**

OPENING GENERAL SESSION

Opening General Session

Tuesday, June 28, 2022

8:30 a.m. -10:00 a.m.

Room: Boundary Waters A-C

1.5 GCHs

- 8:30 a.m. Welcome to the 2022 Summit!**
Mark Doneux, *Capitol Region Watershed District, 2022 Co-Chair*
Nancy Ellwood, *Retired from CDM Smith, 2022 Co-Chair*
- 8:40 a.m. Central States Water Environment Association Welcome**
Tracy Ekola, *Brown and Caldwell*
- 8:45 a.m. WEF Welcome and The National Perspective**
Lynn Broaddus, *WEF Board of Trustees, Broadview Collaborative, Inc.*
- 9:05 a.m. The Minnesota Perspective**
Commissioner Katrina Kessler, *Minnesota Pollution Control Agency*
- 9:20 a.m. Young Voices Advocating for Improved Water Quality in Local Waterways Through Education, Action and Policy Change**
Bill Dean, *Poseidon Education*; Nicolai Diaz, *12th Grade at San Dieguito Academy*; Drew Larson, *8th Grade at Lincoln Middle School*; Diego Diaz, *Junior at Portland State University*
- 10:00 a.m. Session Adjourns for Networking Break**

FACILITY TOUR

Facility Tour: Walk This Way - Downtown Minneapolis Stormwater Walking Tour

Self-guided tour – Utilize [Geotourist App](#) for tour, key stops include:

This self-guided walking tour will include stops at Westminster Presbyterian Church in downtown Minneapolis which installed a stormwater reuse system that uses recycled stormwater for flushing toilets, irrigating onsite vegetation and feeding a decorative fountain along Nicollet Mall. Another stop will take you to the Elliot Park Skate Plaza to see the green infrastructure including bioretention, permeable pavers and includes pollinator habitat. The next stop will take you to the 8th Street Stormwater planters that infiltrate polluted runoff and provide greening in a busy downtown corridor. The last stop will take you to the 4th Street Reconstruction project was reconstructed in 2021, and in addition to adding two-way protected bike facility, the City added 3 bioretention areas and over ½ acre of sustainable landscaping and trees throughout the boulevards. The City incorporated green infrastructure in response to requests from the stakeholders and to demonstrate a commitment to addressing water quality and greening goals on their own projects. On your way back to the conference hotel, you can stroll along the Nicolett Mall which is a 12 block pedestrian and transit way and is the core dining and shopping district in the City of Minneapolis.

Tour Notice: This is an outside walking tour and to best experience the stops you will need to download the Geotourist App on your smart phone (<https://geotourist.com/>). The tour is approximately 3 miles and may take about an hour just for the walking portion. Participants in this self-guided walking field tour should wear weather appropriate clothing and comfortable walking shoes.

TECHNICAL SESSIONS

Session 01: Getting a Handle: Planning and Technology for Stormwater Improvements

Tuesday, June 28, 2022

Room: Boundary Waters A

10:45 a.m. - 12:15 p.m.

1.5 PDHs

Moderators: Dayton Marchese, Opti, Robert Traver, Villanova University

10:45 a.m. Stormwater Capture: Identifying Stormwater Needs Without a (Capital) Plan

Zachary Henderson, Woodard & Curran Inc, Laura Schiffman, MassDEP

11:15 a.m. City of Clive Water Resources Master Plan

Pete De Kock, Rachel Conrad, City of Clive; Stephanie Fleckenstein, HDR

11:45 a.m. Update on STEPP and ASTM Committee E64 on Stormwater Control Measures

Gregory Williams, StormTrap; Seth Brown, National Municipal Stormwater Alliance; Andy Erickson, St. Anthony Falls Lab; University of Minnesota

12:15 p.m. Session adjourns for luncheon in exhibit hall

TECHNICAL SESSIONS

Session 02: Reducing Risks Through Effective Stormwater Asset Management

Tuesday, June 28, 2022

Room: Boundary Waters B

10:45 a.m. - 12:15 p.m.

1.5 PDHs

Moderators: Robert Backman, AbTech; Andy Sauer, Burns & McDonnell

10:45 a.m. Thousands of BMPs? How to Best Manage and Prepare for Maintenance

Laura Wehr, AE2S; Kristin Seaman, City of Woodbury

11:15 a.m. Stormwater Risk Assessment in Portland, Oregon

Arnold Engelmann, Heidi Berg, Matt Burlin, Bureau of Environmental Services

11:45 a.m. Burnsville Minnesota Stormwater Risk Assessment, Resiliency Study, and Twin Lakes Flood Risk Reduction Improvement Project

Amber Lefers, Justin Klabo, Travis McStraw, Advanced Engineering and Environmental Services Inc

12:15 p.m. Session adjourns for luncheon in exhibit hall

Alternate Prioritizing Stormwater Funding Requirements by Integrating Asset Management and Watershed-Focused Capital Planning

John Aldrich, CDM Smith

TECHNICAL SESSIONS

Session 03: Minnesota NICE! Governance, Research and Financing for Clean Water Projects in Minnesota

Tuesday, June 28, 2022

Room: Boundary Waters C

10:45 a.m. – 12:15 p.m.

1.5 PDHs

Coordinator: Mark Doneux, Capitol Region Water District

Minnesota is not only the land of 10,000 lakes but also has abundant resources to govern, research and finance clean water projects. This session will bring together three key elements to improving water quality, through governance, research and financing.

The first presentation will be about governance. Watershed districts are unique to Minnesota and as a local, special-purpose units of government that work to solve and prevent water-related problems. The boundaries of each district follow those of a natural watershed and consist of land in which all water flows to one outlet.

The next presentation will focus on research. The St. Anthony Falls Laboratory (SAFL) is an interdisciplinary fluid mechanics research lab and educational facility under the College of Science and Engineering at the University of Minnesota. SAFL conducts numerous projects looking to quantify the impacts of human actions on water quality and aquatic ecosystems.

This session will end with a discussion about financing. Minnesota voters approved the Clean Water, Land and Legacy Amendment to the constitution to protect drinking water sources; to protect, enhance, and restore wetlands, prairies, forests, and fish, game, and wildlife habitat. The amendment increased the sales and use tax rate by three-eighths of one percent

12:15 p.m. Session adjourns for luncheon in exhibit hall

FACILITY TOUR

Facility Tour: Stormwater Reuse, and LID Too!

Tuesday, June 28, 2022

1:00 p.m. – 4:30 p.m.

3.5 GCHs

(Additional fees apply)

This tour will visit innovative stormwater management in Saint Paul and Minneapolis. Tour stops include Allianz Field, the new home of the Minnesota United FC Major League Soccer team. See all of the latest innovative stormwater management at and around Allianz Field, where the City of Saint Paul and the United FC have developed landmark clean water infrastructure, which will recycle more than 2 million gallons of rainwater every year. This unique system, the largest and smartest of its kind, will be used to irrigate trees and grass across the site, and to serve future developments around the stadium.

Capitol Region Watershed District's (CRWD) new office building and see its state-of-the-art rainwater harvest and reuse systems along with LID practices, landscaping and pocket park, all developed on a brownfield site. Towerside Innovation District in Minneapolis. This system collects stormwater from 4 new multi-family housing developments and centrally treats the stormwater runoff in rain gardens that also serve as park-like, publicly accessible spaces.

PPE Notice: Participants in this field tour are required to wear closed-toed shoes; flip flops, sandals, and open-toed shoes are not permitted. Access to the underground treatment vault at Allianz Field will be limited based on the time available at this stop and anticipated number of attendees.

TECHNICAL SESSIONS

Session 04: Collaboration for Climate Resilience

Tuesday, June 28, 2022

Room: Boundary Waters A

1:30 p.m. - 4:45 p.m.

2.5 PDHs

Moderators: Dustin Atchison, Jacobs; John Phillips, Parametrix

1:30 p.m. The Final Phase - Completing the Norwaldo Neighborhood Green Infrastructure Project

Robert Page, HNTB Corporation

2:00 p.m. A Park with Purpose: Improving Water Quality and Enhancing a Valued Community Space in a Disadvantaged Community

Brenda Ponton, Woodard & Curran

2:30 p.m. Building Urban Stormwater Resiliency by Incorporating Global Climate Change Projections to Local Runoff Modeling

Tyler Nodine, Gary Conley, Catherine Riihimaki, 2ndNature; Nicole Beck

3:00 p.m. Networking break

3:45 p.m. Engineering for Changing Rainfall in Southeast Michigan

Rachael Barlock, Kelly Karll, SEMCOG

4:15 p.m. Navigating a Series of “No’s” to Successfully Implement Green Infrastructure (GI) in a City without Requirements: Establishing Sustainable Landscaping

Allison Bell, City of Minneapolis

4:45 p.m. Session adjourns for networking reception in exhibit hall

TECHNICAL SESSIONS

Session 05: Engaging the Public

Tuesday, June 28, 2022

Room: Boundary Waters B

1:30 p.m. - 3:00 p.m.

1.5 PDHs

Moderators: Elizabeth Krousel, Michael Baker International, Kathleen Smith, Hazen and Sawyer

1:30 p.m. Lick Run Creek Greenway: Using Green Solutions to Build Bridges Within a Community

Leslie Schehl, Larry Falkin, Deb Leonard, Metropolitan Sewer District of Greater Cincinnati

2:00 p.m. Urban Retrofits: Stormwater Retrofit Plan For Minneapolis and What Our First Project Did to Incorporate Paid Learning Lab Jobs Training into Infrastructure Projects

Katie Kowalczyk, City of Minneapolis

2:30 p.m. Stormwater Solutions (Whether Green or Gray) - Collaboration and Integration are Key

William Boston, Howard Glenn, Patrick Bradley, Grace LeRose, Jennifer Clarke, City of Richmond

3:00 p.m. Session adjourns for networking break

TECHNICAL SESSIONS

Session 06: Insights about Stormwater Funding Opportunities through IIJA Bill and the Sector's Needs

Tuesday, June 28, 2022

Room: Boundary Waters C

1:30 p.m. – 3:00 p.m.

1.5 PDHs

Coordinators: Scott Taylor, WEF Stormwater Institute Advisory Committee Chair; Bianca Pinto, Water Environment Federation

Moderators: Steve Dye, Water Environment Federation; Seth Brown, National Municipal Stormwater Alliance

Presenters: Michael Deane, US EPA; Scott Taylor, WEF Stormwater Institute Advisory Committee Chair; Mark Doneux, WEF Stormwater Committee Chair; Elizabeth Krousel, WEF Stormwater Committee 1st Vice-Chair.

1:30 p.m. Mr. Michael Deane, Chief of the Clean Water State Revolving Fund (SRF) at the US EPA, will be presenting on the new and increased federal funding for local stormwater infrastructure investments included in the Bipartisan Infrastructure Bill, as well as other EPA programs to assist communities with stormwater planning. The Clean Water SRF will receive at minimum over \$12.8 billion over the next five years, and stormwater infrastructure projects are eligible to access the funding. The EPA has developed guidance and technical assistance tools to help potential stormwater projects obtain funding.

2:15 p.m. A panel conversation will take place, featuring seasoned stormwater professionals and WEF leaders who are providing ongoing support for the Rainfall to Results publication. Topics discussed by panelists during this portion of the session will include funding/financing, O&M, source control, emerging contaminants and working at the watershed scale.

3:00 p.m. **Session adjourns for networking break**

TECHNOLOGY SPOTLIGHT

Technology Spotlight I
Tuesday, June 28, 2022
3:15 p.m. – 3:40 p.m.

0.33 GCHs

*Please grab coffee or tea first during the networking break, then come to the exhibitors' booths to see technology spotlight presentations. The two exhibitors listed below will each be holding a 20-minute presentation in their booth. Presenters will only present once, so participants are invited to choose one. We will hold a brief explanation at 3:15 with **presentations starting at 3:20pm.***

Booth 109 **Advances in Green Infrastructure Designs Using High-Flow Biofiltration Technology for Stormwater Quality Treatment**
Mark Miller, AquaShield, Inc.

Booth 202 **Next-Gen Flood Response and Stormwater Management Using Sensors & Data**
Brandon P. Wong, Hyfi

TECHNICAL SESSIONS

**Session 07: National Municipal and Green Infrastructure Awards:
Highlighting Success and Innovation in Stormwater**
Tuesday, June 28, 2022 **Room: Boundary Waters B**
3:45 p.m. - 4:45 p.m. **1.0 PDHs**

**3:45 p.m. National Municipal and Green Infrastructure Awards:
Highlighting Success and Innovation in Stormwater**
Andrew Smith, Black & Veatch

4:45 p.m. Session adjourns for networking break

TECHNICAL SESSIONS

Session 08: **Improving the Stormwater Data in the 2022 EPA Clean Watershed Need Survey: The Perspectives of EPA, States, and Local Stormwater Programs**

Tuesday, June 28, 2022

Room: Boundary Waters C

3:45 p.m. – 4:45 p.m.

1.0 PDHs

Speakers: Randy Neprash, Stantec, Minnesota Cities Stormwater Coalition, and National Municipal Stormwater Alliance;
Elisabeth Schlaudt, EPA

Congress has funded EPA to conduct a new Clean Water Needs Survey (CWNS) in 2022. EPA last conducted a CWNS in 2012. The CWNS is the only effort to quantify the capital needs for the public stormwater sector nationwide, focused on projects to meet the goals of the Clean Water Act. The 2012 CWNS stormwater data collection, though, was flawed. 15 states reported no stormwater needs data. 16 states reported stormwater needs less than \$100 million each. Only four states reported about 65% of the total stormwater needs for the U.S.

As long as the quantified needs for the stormwater sector are significantly underreported in the CWNS, stormwater will never get the focus or funding it merits from Congress. Improving the stormwater data in the CWNS is a vital step forward for the public stormwater sector.

EPA has indicated that they wish to improve the stormwater data collection for the 2022 CWNS. They are putting significant effort into this goal. This presentation is part of that initiative and an important outreach effort to inform and guide local stormwater programs in their data submittals for the 2022 CWNS and coordinate this data collection with the states.

This session will provide the perspectives of the major actors in the CWNS process: EPA, the states that report the data to EPA, and the local stormwater programs that submit information about their stormwater projects. The stormwater project information will be in different formats and have different elements compared to the typical project information for drinking water and wastewater projects. This session will present the range of data that can and should be generated by local stormwater programs, including innovative and unique formats. It will address issues related to the types of project documentation that will be accepted by EPA.

TECHNICAL SESSIONS

Session 09: New Approaches in Water Quality

Wednesday, June 29, 2022

Room: Boundary Waters A

8:30 a.m. - 10:00 a.m.

1.5 PDHs

Moderators: Carol Hufnagel, Tetra Tech; Andrew Potts, Jacobs

8:30 a.m. A Novel Modeling Framework for Predicting Water Quality Results Based on Storm Parameters in Northeastern Los Angeles County

Jinshu Li, Gurjot Kohli, Darin Son, Stantec; Julie Carver, City of Pomona; Jonathan Abelson, Stantec

9:00 a.m. Innovative Methods to Select and Implement Green Infrastructure Improvements within Large Watershed Areas — A Case Study of GI Planning and Design within Four Sub-watersheds in DC's Anacostia Watershed

Nirali Desai, Michael Moscariello, Arcadis

9:30 a.m. Prediction of Stormwater Pond TP Removal Performance by Limnological Investigation and Rapid Field Assessment Methods

David Austin, Roger Scharf, Jacobs; Hehuan Liao, California Department of Conservation

10:00 a.m. Session adjourns for networking break

Alternate: Pond Treatment with Spent Lime to Control Sediment Phosphorus Release

Greg Wilson, Barr Engineering Company

TECHNICAL SESSIONS

Session 10: Developing a Plan? Keep Your Watershed in Mind
Wednesday, June 29, 2022 **Room: Boundary Waters B**
8:30 a.m. - 10:00 a.m. **1.5 PDHs**

Moderators: Jeff Wright, Atkins; Bianca Pinto, WEF

8:30 a.m. Watershed Master Planning Tools to Support National Flood Insurance Program and Community Rating System Goals for Lowering Insurance Premiums for At-Risk Communities

Daniel Meeroff, Frederick Bloetscher, Hongbo Su, Eva Suarez, Yan Yong, Tucker Hindle, Jared Weaver, Florida Atlantic University

9:00 a.m. Developing and Deploying a One-Water Planning Approach for the Cambie Corridor

Brian Busiek, Jennifer Schmidt, Chris Webb, Herrera Environmental Consultants; Sara Pour, Eric Duvochel, Fofa Fan, City of Vancouver

9:30 a.m. Triple Bottom Line Evaluation of Stormwater, Watershed, and Wastewater Opportunities to Support Springfield's Integrated Plan

David Carani, Lacey Hirschvogel, John Christiansen, HDR; Saki Urushidani, City of Springfield

10:00 a.m. Session adjourns for networking break

TECHNICAL SESSIONS

Session 11: Stormwater Modeling, Monitoring, and Maintenance
Wednesday, June 29, 2022 **Room: Boundary Waters C**
8:30 a.m. - 12:15 p.m. **2.5 PDHs**

Moderators: Mike Harder, Airports Commission; Bridget Osborn, HR Green Inc.

8:30 a.m. **Sizing of Stormwater Control Measures for Resiliency**
Gregory Williams, StormTrap

9:00 a.m. **An Evaluation of the Impacts of Mesh Resolution on the Results of a 2D Hydraulic Model When Using a Flexible, Depth Averaged, Flat Element Mesh**
Ryan Brown, Innovyze

9:30 a.m. **Sensing Permeable Pavement to Document Performance and Crediting**
Joseph Diekfuss, MASCE P4 Infrastructure; Chris Foley, FASCE P4 Infrastructure; Doug Buch, PaveDrain; Aaron Fisher, Ernest Maier

10:00 a.m. **Networking break**

10:45 a.m. **An Automated Open-Channel Deficiency Rating Classification Model Based on Machine Learning in Los Angeles County**
Jinshu Li, Darin Son, Gurjot Kohli, Jonathan Abelson, Stantec; Abdul Haikal, Los Angeles County Public Works

11:15 a.m. **New Manual of Practice Overview: Operations & Maintenance of Stormwater Control Measures**
Fernando Pasquel, Arcadis; Anwer Ahmed; Ed Othmer, Stantec

11:45 a.m. **Are Stormwater Ponds Polluting Downstream Water Bodies?**
Poornima Natarajan, Vinicius Taguchi, Jacques Finlay, Ben Janke, University of Minnesota; John Gulliver

12:15 p.m. **Session adjourns for luncheon in exhibit hall**

TECHNICAL SESSIONS

Session 12: Great Green Stuff in Program Development
Wednesday, June 29, 2022 **Room: Boundary Waters A**
10:45 a.m. - 12:15 p.m. **1.5 PDHs**

Moderators: Rachel Jones, Gwinnett County Department of Water Resources; Elizabeth Krousel, Michael Baker International

10:45 a.m. Controlling the Source: Identifying Impactful, Cost-Effective Projects using Overflow Reduction Efficiencies and Opportunity Identification Processes
Tim Prevost, Julia Spicher, Alcosan; Andrew Potts, Leah Rominger, Helene Kubler, Jacobs

11:15 a.m. Policy Basis for Incentivizing Green Infrastructure Implementation in the City of Seattle through Partnerships
Dustin Atchison, Santtu Winter, Jacobs; Brian Mickelson, Tracy Tackett, Shanti Colwell, Dave LaClergue, Seattle Public Utilities

11:45 a.m. Green Infrastructure Guidance: Making LID in the Right-of-Way Standard Practice
Matthew Moore, WSP

12:15 p.m. Session adjourns for luncheon in exhibit hall

TECHNICAL SESSIONS

Session 13: Case Studies in Comprehensive Stormwater Planning
Wednesday, June 29, 2022 **Room: Boundary Waters B**
10:45 a.m. - 12:15 p.m. **1.5 PDHs**

Moderators: Robert Backman, AbTech; John Phillips, Parametrix

10:45 a.m. District Stormwater for a New Community: From Planning to Construction

Nathan Campeau, Barr Engineering Co.; Bob Fossum, Capital Region Watershed District

11:15 a.m. Long-Term Creation of Nature Based Integrated Stormwater Management Systems

Barbara Barnes, Nitin Katiyar, HDR

11:45 a.m. English Coulee Water Quality Renewal Plan

Amber Lefers, Advanced Engineering and Environmental Services Inc; Melanie Parvey, City of Grand Forks; Meredith Quinn, Savana Schauer, Andrea Boe, Linda Severson, Christopher Edwards, Advanced Engineering and Environmental Services Inc; Hans Holmberg, Limnotech

12:15 p.m. Session adjourns for luncheon in exhibit hall

Alternate Stormwater Forecasting — A New Indicator to Manage Basin-Scale Urban Runoff Volume

Katherine Atteberry, Atlanta Regional Commission; David Bell, Rashi Gurney, Jacobs

TECHNICAL SESSIONS

Session 14: Latest in Hydrology and Hydraulics

Wednesday, June 29, 2022

Room: Boundary Waters A

1:30 p.m. - 4:45 p.m.

2.5 PDHs

Moderators: Heather Harris, Carollo; Greg Williams, StormTrap

1:30 p.m. Monitoring Nature-Based Solutions from Space: Assessing the Influence of Urban Greenness and Green Stormwater Infrastructure on Watershed Hydrology with Satellite Remote Sensing

Gary Conley, 2NDNATURE; Nicole Beck; Robert McDonald, The Nature Conservancy

2:00 p.m. Restoring Predevelopment Hydrology with Smart Stormwater Controls in Aiken, South Carolina

Jason Hetrick, McCormick Taylor; Dayton Marchese, OptiRTC, Inc

2:30 p.m. Leveraging Artificial Intelligence to Support Advanced Impervious Surface Data Extractions

Brandon Palin, Justin Proctor, Ecopia

3:00 p.m. Networking break

3:45 p.m. Innovative Stormwater Data Collection- Lawrence, KS

Aaron Jones, Trekk Design Group, LLC; Lucas Gillen; Matt Bond, City of Lawrence, Kansas

4:15 p.m. 2-D Urban Stormwater Models Tell a More Complete Stormwater Story

Andrew Sauer, Burns & McDonnell; Matt Bond, City of Lawrence, Kansas; Mitchell Goedeken, Burns & McDonnell

4:45 p.m. Conference adjourns

TECHNICAL SESSIONS

Session 16: Leveraging GIS

Wednesday, June 29, 2022

3:45 p.m. - 4:45 p.m.

Room: Boundary Waters B

1.0 PDHs

Moderators: Rachel Jones, Gwinnett County Department of Water Resources; Casey Koniarski, Stanley Consultants, Inc.

3:45 p.m. Green Infrastructure Siting Using Robust Efficient Procedure

Khaled Abdo, Hazem Gheith, Arcadis

4:15 p.m. Digital Data Collection for Storm Water Inspections

Amber Shows, GHD

4:45 p.m. Conference adjourns

TECHNICAL SESSIONS

Session 17: From National to Local Perspectives on Environmental Justice and Climate Resilience

Wednesday, June 29, 2022

Room: Boundary Waters C

1:30 p.m. – 3:00 p.m.

1.5 PDHs

Coordinators: Nancy Ellwood, retired from CDM Smith; JB Hinds, Birchline Planning LLC; Bianca Pinto, Water Environment Federation

Panelists: Chitra Kumar, US EPA; Larry Falkin, Deb Leonard, Metropolitan Sewer District of Greater Cincinnati

This session aims to provide an overview of the environmental justice initiatives at a national and local level, especially focusing on urban flooding and climate resilience. It will be a (1) hour panel discussion with three panelists presenting and opening the floor for discussions and questions.

EXHIBITION INFORMATION

EXHIBITION SCHEDULE

Tuesday, June 27

- 10:00 a.m. – 6:15 p.m. **Exhibit Hall Open**
- 10:00 a.m. – 10:45 a.m. Networking Break
- 12:15 p.m. – 1:30 p.m. Networking Luncheon
- 3:00 p.m. – 3:45 p.m. Networking Break
- 3:15 p.m. – 3:40 p.m. Technology Spotlight
- 4:45 p.m. – 6:15 p.m. Networking Reception

Wednesday, June 28

- 10:00 a.m. – 3:45 p.m. **Exhibit Hall Open**
- 10:00 a.m. – 10:45 a.m. Networking Break
- 12:15 p.m. – 1:30 p.m. Networking Luncheon
- 3:00 p.m. – 3:45 p.m. Networking Break

Children under 18 entering the Exhibition must be accompanied by a parent or guardian at all times. The parent or guardian must obtain a child badge at registration, and assumes all risk and responsibility for the child's safety.

Due to the proprietary nature of the displays, photography of displays and materials is forbidden without exhibitors' express permission.

EXHIBITOR DIRECTORY

As of June 9, 2022

For Companies Descriptions, view Exhibitors in the online planner:

<https://sw22.mapyourshow.com>

AEM / Vieux & Associates Booth 201

www.vieuxinc.com
Phone: 303-774-2033
301 DL Boren Blvd, Ste 3050
Norman, OK 73072

AquaShield, Inc. Booth 109

www.aquashieldinc.com
Phone: 423-870-8888
2733 Kanasita Dr, Ste 111
Hixson, TN 37343

Ecopia AI Booth 107

www.ecopia.ai
Phone: 647-405-4309
101 College St, Ste 440
Toronto, ON M5G 1L7
Canada

Ferguson Waterworks Booth 205

www.ferguson.com
Phone: 207-272-4431
23 Faith Dr
Gorham, ME 04038

Hyfi Booth 202

https://hyfi.io
Phone: 858-603-3796
3648 Frederick Dr
Ann Arbor, MI 48105

RES LLC Booth 103

www.res.us
Phone: 713-520-5400
6575 W Loop S, Ste 300
Bellaire, TX 77401

Exhibitor Directory Continues on Next Page...

EXHIBITOR DIRECTORY

As of June 9, 2022

For Companies Descriptions, view Exhibitors in the online planner:

<https://sw22.mapyourshow.com>

Smith & Loveless, Inc **Booth 203**

www.smithandloveless.com

Phone: 913-888-5201

14040 Santa Fe Trail Dr

Lenexa, KS 66215

SRF Consulting Group **Booth 101**

www.srfconsulting.com

Phone: 651-333-4143

3701 Wayzata Blvd, Ste 100

Minneapolis, MN 55416

EXHIBITION FLOOR PLAN

AEM/Vieux & Associates 201	Hyfi 202	Smith & Loveless Inc. 203	Ferguson Waterworks 205
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AquaShield, Inc.
109

Ecopia Tech
107

RES LLC
103

SRF Consulting Group
101

LUNCHEON

ENTRANCE

PRESENTER AND MODERATOR DIRECTORY

Khaled Abdo

Arcadis
Presenter Session
16

John Aldrich

CDM Smith
Presenter Session
02

Kasey Armstrong

Green Infrastructure
Leadership
Exchange
Presenter Workshop
A

Dustin Atchison

Jacobs
Moderator Session
04, *Presenter*
Session 12

Katherine

Atteberry
Atlanta Regional
Commission
Presenter Session
13

David Austin

Jacobs
Presenter Session
09

Roger Babcock

U H Civil
Engineering Dept
Presenter Session
15

Robert Backman

AbTech
Moderator Session
02, *Session 13*

Rachael Barlock

Southeast Michigan
Council of
Governments
Presenter Session
04

Barbara Barnes

HDR
Presenter Session
13

Allison Bell

City of Minneapolis
Presenter Session
04

Fred Bloetscher

PUMPS Inc
Presenter Session
10

Sarah Bloom

San Francisco
Public Utilities
Commission
Presenter Workshop
A

William Boston

City of Richmond
Presenter Session
05

Ryan Brown

AutoDesk
Presenter Session
11

Seth Brown

National Municipal
Stormwater Alliance
Presenter Session
01

Doug Buch

PaveDrain
Presenter Session
11

Brian Busiek

Herrera
Environmental
Consultants
Presenter Session
10

Nathan Campeau

Barr Engineering
Co.
Presenter Session
13

Gary Conley

2NDNATURE
Presenter Session
04, *Session 14*

Bill Dean

Poseidon Education
Presenter OGS

Michael Deane

US EPA
Presenter Session
06

Nirali Desai

Arcadis
Presenter Session
09

Diego Diaz

Portland State
University
Presenter OGS

PRESENTER AND MODERATOR DIRECTORY

Nicolai Diaz

San Dieguito
Academy
Presenter OGS

Mark Doneux

Capitol Region
Watershed District
*Coordinator Session
03, Presenter
Session 06*

Steve Dye

Water Environment
Federation
*Moderator Session
06*

Tracy Ekola

Brown and Caldwell
Presenter OGS

Nancy Ellwood

Retired from CDM
Smith
*Moderator Session
07, Session 13,
Coordinator Session
18*

Arnold Engelmann

Bureau of
Environmental
Services
*Presenter Session
02*

Larry Falkin

Metropolitan Sewer
District of Greater
Cincinnati
*Presenter Session
17*

Stephanie

Fleckenstein
HDR Engineering
*Presenter Session
01*

Belinda Gardner

Greenprint Partners
*Presenter Workshop
A*

Mike Harder

Airports Commission
*Moderator Session
11*

Heather Harris

Carollo
*Moderator Session
14*

Zachary

Henderson
Woodard & Curran
Inc
*Presenter Session
01*

Jason Hetrick

McCormick Taylor
*Presenter Session
14*

Juli Beth Hinds

Birchline Planning
LLC
*Coordinator Session
15*

Carol Hufnagel

Tetra Tech
*Moderator Session
09, Session 12*

Kristin Ihnchak

Greenprint Partners
*Presenter Workshop
A*

Aaron Jones

TREKK Design
Group
*Presenter Session
14*

Rachel Jones

Gwinnett County
Department of Water
Resources
*Moderator Session
12, Session 16*

Katrina Kessler

Minnesota Pollution
Control Agency
Presenter OGS

Casey Koniarski

Stanley Consultants,
Inc.
*Moderator Session
16*

Katie Kowalczyk

City of Minneapolis
*Presenter Session
05*

Elizabeth Krousel

Michael Baker
International
*Moderator Session
05, Presenter
Session 06*

Chitra Kumar

US EPA
*Presenter Session
17*

PRESENTER AND MODERATOR DIRECTORY

Drew Larson
Lincoln Middle
School
Presenter OGS

Amber Lefers
Advanced
Engineering and
Environmental
Services Inc
*Presenter Session
02, Session 13*

Deb Leonard
Metropolitan Sewer
District of Greater
Cincinnati
*Presenter Session
17*

Jinshu Li
Stantec
*Presenter Session
09, Session 11*

Dayton Marchese
Opti
*Moderator Session
01*

April Mendez
Greenprint Partners
*Coordinator
Workshop A*

Mark Miller
AquaShield, Inc.
*Presenter
Technology
Spotlight*

Matthew Moore
WSP
*Presenter Session
12*

**Poornima
Natarajan**
University of
Minnesota
*Presenter Session
11*

Randy Neprash
Stantec
*Coordinator Session
08*

Tyler Nodine
2ndNature
*Presenter Session
04*

**Beatrice Ohene-
Okae**
Department of
Energy &
Environment
*Presenter Workshop
A*

Bridget Osborn
HR Green, Inc.
*Moderator Session
11*

Robert Page
HNTB Corporation
*Presenter Session
04*

Fernando Pasquel
Arcadis
*Presenter Session
11*

John Phillips
Parametrix
*Moderator Session
04, Session 13*

Bianca Pinto
Water Environment
Federation
*Coordinator Session
06, Moderator
Session 17*

Brenda Ponton
Woodard & Curran
Inc
*Presenter Session
04*

Andrew Potts
Jacobs
*Moderator Session
09*

Timothy Prevost
Allegheny County
Sanitary Authority
*Presenter Session
12*

Justin Proctor
Ecopia
*Presenter Session
14*

Virginia Roach
CDM Smith
*Moderator Session
10*

Lauren Roth Venu
3Rwater, Inc.
*Presenter Session
15*

Andrew Sauer
Burns & McDonnell
*Moderator Session
02, Session 07,
Presenter Session
14*

PRESENTER AND MODERATOR DIRECTORY

Leslie Schehl

Metropolitan Sewer
District of Greater
Cincinnati
*Presenter Session
05*

Laura Schifman

MassDEP
*Presenter Session
01*

Elisabeth Schlaudt

EPA
*Presenter Session
08*

Amber Shows

GHD
*Presenter Session
16*

Andrew Smith

Black & Veatch
*Presenter Session
07*

Kathleen Smith

Hazen and Sawyer
*Moderator Session
05*

Scott Taylor

Michael Baker
International
*Coordinator Session
06*

Robert Traver

Villanova University
*Moderator Session
01*

Saki Urushidani

City of Springfield
*Presenter Session
10*

**Laurens Van Der
Tak**

Jacobs
*Presenter Session
15*

Laura Wehr

AE2S
*Presenter Session
02*

**Jalonne White-
Newsome**

Empowering A
Green Environment
and Economy, LLC
*Presenter Workshop
A*

Gregory Williams

StormTrap
*Presenter Session
01, Session 11,
Moderator Session
14*

Greg Wilson

Barr Engineering
Company
*Presenter Session
09*

Brandon Wong

Hyfi
*Presenter
Technology
Spotlight*

Jeff Wright

Atkins
*Moderator Session
10*

CONFERENCE SCHEDULE-AT-A-GLANCE

Monday, June 27

7:30 a.m. – 5:00 p.m.	Registration
8:30 a.m. – 5:00 p.m.	Workshop A: Get to Know the Equity Guide: Measuring & Evaluating Progress Towards Equity in GSI

Tuesday, June 28

7:30 a.m. – 5:00 p.m.	Registration
8:30 a.m. – 10:00 a.m.	Opening General Session
10:00 a.m. – 6:15 p.m.	Exhibit Hall Hours
10:45 a.m. – 12:15 p.m.	Technical Sessions 1, 2, 3
12:15 p.m. – 1:30 p.m.	Networking Luncheon
1:00 p.m. – 4:30 p.m.	Facility Tour
1:30 p.m. – 4:45 p.m.	Technical Session 4
1:30 p.m. – 3:00 p.m.	Technical Sessions 5, 6
3:15 p.m. – 3:40 p.m.	Technology Spotlight
3:45 p.m. – 4:45 p.m.	Technical Sessions 7, 8
4:45 p.m. – 6:15 p.m.	Networking Reception

Wednesday, June 29

8:00 a.m. – 5:00 p.m.	Registration
8:30 a.m. – 10:00 a.m.	Technical Sessions 9, 10
8:30 a.m. – 12:15 p.m.	Technical Session 11
10:00 a.m. – 3:45 p.m.	Exhibit Hall Hours
10:45 a.m. – 12:15 p.m.	Technical Sessions 12, 13
12:15 p.m. – 1:30 p.m.	Networking Luncheon
1:30 p.m. – 4:45 p.m.	Technical Session 14
1:30 p.m. – 3:00 p.m.	Technical Sessions 15, 17
3:45 p.m. – 4:45 p.m.	Technical Session 16
4:45 p.m.	Conference Adjourns

UPCOMING WEF EDUCATION & TRAINING EVENTS

WEFTEC

October 8-12, 2022
New Orleans, Louisiana
www.weftec.org

AWWA/WEF Utility Management Conference

March 28-31, 2023
Sacramento, California
www.wef.org/utilitymanagement

WEF Forum

March 20-22, 2023
Cary, North Carolina
More information coming shortly

Innovations in Process Engineering Conference

June 5-8, 2023
Portland, Oregon
www.wef.org/ProcessEngineering

Collection Systems Conference

June 27-30, 2023
Kansas City, Missouri
www.wef.org/CollectionSystems

Stormwater Summit

June 27-30, 2023
Kansas City, Missouri
www.wef.org/StormwaterSummit

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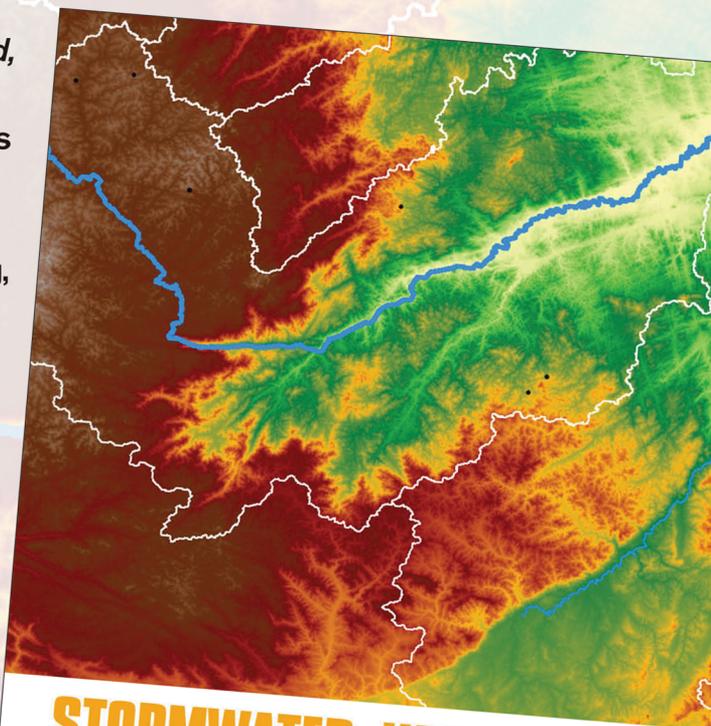
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A roadmap of the model selection process for stormwater, watershed, and receiving water quality projects.

Stormwater, Watershed, and Receiving Water Quality Modeling offers past, present, and future perspectives of water quality modeling, and outlines criteria for selecting the appropriate model based on the project or task. Complete with detailed examples, this resource is an essential tool for those engaged in the planning and design of urban stormwater, watershed, and receiving water quality projects.

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