

# StormCon<sup>®</sup>

## RENO, NV

AUGUST 27-29, 2024 | GRAND SIERRA RESORT AND CASINO

### PRELIMINARY EVENT GUIDE



EARLY BIRD DEADLINE  
**JULY 29, 2024**

SCAN THE QR CODE  
TO REGISTER NOW!

[STORMCON.COM](https://stormcon.com)

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Presented by:



Supported by:



**StormCon is the stormwater, erosion control, and surface water quality industry's premier conference and exhibition, bringing together attendees from around the country for idea-sharing, information exchange and networking. Featuring a multi-track conference program led by top leaders in the industry, StormCon provides exceptional opportunities to learn, engage and build key contacts.**



## WHY ATTEND STORMCON?

- Diverse conference program featuring 30+ sessions
- Certificates of Attendance issued for all sessions
- Tours
- Networking events
- Opportunities to see the latest products, services and technologies from leading vendors and suppliers
- More to come!



## WHO SHOULD ATTEND?

- Stormwater Managers
- Municipal Government Professionals
- County and State Government Representatives
- Federal Agency Representatives
- Engineers
- Contractors
- Project Managers
- Consultants
- Distributors

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# REGISTRATION PACKAGES

**\*REGISTER BEFORE JULY 29<sup>TH</sup> TO RECEIVE THE EARLY BIRD DISCOUNT!**

## **ATTENDEE FULL CONFERENCE - EARLY BIRD - \$670, Regular Rate - \$720**

Includes access to the following:

- All conference sessions including Wednesday Keynote
- Exhibition floor, including all receptions and breaks
- Conference breakfast and lunch
- Up to 12 recorded conference sessions offered in StormCon Direct, available on demand for six months

Registered and verified conference attendees will earn up to 0.8 Continuing Education Units (CEUs) after attending the conference. The link to download a PDF copy of the certificate will be emailed to all verified delegates after the event. Session tracking units will be required.

## **ATTENDEE ONE-DAY CONFERENCE - EARLY BIRD - \$510, Regular Rate - \$560**

Includes access to the following on corresponding day chosen ONLY:

- All conference sessions offered on the one day registration purchased plus Wednesday Keynote
- Exhibition floor, including all receptions and breaks
- Conference breakfast and lunch (one day only)
- Up to 12 recorded conference sessions offered in StormCon Direct, available on demand for six months

Registered and verified conference attendees will earn up to 0.4 Continuing Education Units (CEUs) after attending the conference. The link to download a PDF copy of the certificate will be emailed to all verified delegates after the event. Session tracking units will be required.

## **GROUP PLAN FULL CONFERENCE (3-9) - EARLY BIRD - \$530 per person, Regular Rate - \$580 per person**

Includes access to the following:

- All conference sessions including Wednesday Keynote
- Exhibition floor, including all receptions and breaks
- Conference breakfast and lunch
- Up to 12 recorded conference sessions offered in StormCon Direct, available on demand for six months

Registered and verified conference attendees will earn 0.8 CEUs after attending the conference. The link to download a PDF copy of the certificate will be emailed to all verified delegates after the event. Session tracking units will be needed.

Please contact [registration@endeavorb2b.com](mailto:registration@endeavorb2b.com) for more information or to register a group.

## **GROUP PLAN FULL CONFERENCE (10+) - EARLY BIRD - \$465 per person, Regular Rate - \$515 per person**

Includes access to the following:

- All conference sessions including Wednesday Keynote
- Exhibition floor, including all receptions and breaks
- Conference breakfast and lunch
- Up to 12 recorded conference sessions offered in StormCon Direct, available on demand for six months

Registered and verified conference attendees will earn 0.8 CEUs after attending the conference. The link to download a PDF copy of the certificate will be emailed to all verified delegates after the event. Session tracking units will be needed.

Please contact [registration@endeavorb2b.com](mailto:registration@endeavorb2b.com) for more information or to register a group.

## **EXHIBIT HALL ONLY - EARLY BIRD - \$100, Regular Rate - \$150**

**REGISTER NOW BY [CLICKING HERE](#) OR VISIT [WWW.STORMCON.COM](http://WWW.STORMCON.COM)!**

# 2024 CONFERENCE ADVISORY BOARD



## **Seth Brown, Executive Director, National Municipal Stormwater Alliance**

Seth Brown has over 25 years of experience in the water sector and is the principal and founder of Storm and Stream Solutions, LLC, a consulting firm providing a range of services from policy and alternative project delivery analysis in the stormwater sector to facilitation and training services focused on stormwater topics. He

was the director of Stormwater Programs at the Water Environment Federation from 2010-2015 and is currently the executive director of the National Municipal Stormwater Alliance. Brown leads green infrastructure courses and innovative water partnerships at Virginia Tech and the University of Maryland at Eastern Shore and is a licensed professional engineer in Maryland.



## **Jessica Field, National Practice Lead for Drainage & Stormwater, WSP**

Jessica Field, PE PMP, is responsible for national strategy, organic growth, technical excellence, and innovation. She serves on major projects as Future Ready advisor, risk manager, engineering manager, or quality manager. She has extensive experience in delivering civil infrastructure, master planning, and environmental permitting. With a background

in water resources, Field's technical expertise lies in stormwater management, watershed planning, green infrastructure, SWPPP, storm drain and culvert design, flood control master plans and more.



## **Sarah Ganley, Stormwater Quality and Regional NPDES Expert, Bohannon Huston**

Sarah Ganley, PE, ENV SP, is Bohannon Huston's Stormwater Quality and Regional NPDES expert, with over 20 years of experience in Water Resources and Environmental Engineering. Ganley is a Vice President in the Surface Water Group at Bohannon Huston, Inc and provides comprehensive

NPDES Municipal Separate Storm Sewer System (MS4) stormwater compliance support to clients throughout New Mexico. Ganley is a surface water quality expert bringing technical experience in hydrology and hydraulics and expertise in green stormwater infrastructure and low impact development planning, policy support and more.



## **Brian Merritt, Global Advisory - Strategic Advisory / Regulatory Support, Black & Veatch**

Brian Merritt is a manager with Black & Veatch Management Consulting based in Pittsburgh, Pennsylvania. With a background in civil engineering and more than 20 years of stormwater related experience, he has helped communities ranging in population from 10,000 to 1.56 million develop

and maintain their stormwater utilities. Merritt has extensive experience leading outreach efforts for implementation projects and understands the balance needed in communicating engineering topics and financial needs to the public to build broader support for change. Merritt holds a B.S. and M.S. in civil engineering from Lehigh University.



## **Jonathan J. Meronek, Project Manager, SCS Engineers**

Jonathan Meronek has been with SCS Engineers for 20 years and is an SCS National Expert on stormwater. He is a current State of California Industrial General Permit (IGP) Qualified Industrial Storm Water Practitioner (QISP) and QISP Trainer-of-Record (ToR). Meronek develops client-focused strategies while leveraging current technology

and innovation across a wide myriad of sectors. With an eye to clients' operational needs, combined with long-term sustainable solutions, Meronek has successfully developed comprehensive stormwater management programs for hundreds of Facilities throughout the Western United States.



## **Jason Schmidt, Lead Inspector & Environmental Specialist, City of Portland**

For the past 15 years, Jason Schmidt has worked in various roles with organizations to improve water quality and riparian habitat in Oregon and California. His experience ranges from rural to urban; from the riparian zone to the rooftop; and with both non-profits and governments. Currently, Schmidt is the lead inspector and environmental specialist

for the City of Portland's Stormwater Maintenance Inspection Program, which conducts routine maintenance inspections for private stormwater management facilities that are installed on private property to meet the city's Stormwater Management Manual requirements for new development and retrofits. Schmidt is passionate about green infrastructure, native plants, and the ecology and watersheds of the Pacific Northwest.



## **Harry Stark, Director of Engineering and Public Services, City of Aurora**

Harry Stark, MPA, CPMSM, is the director of Engineering and Public Services for the City of Aurora, Ohio. Stark has more than 31 years of experience in administrative activities and multiple areas of expertise. Stark is well-versed in working with a variety of groups including planning commissions, steering committees, councils, local political groups and more and has given many presentations at a variety of venues. Stark also serves as the past-president of the Ohio Stormwater Association, executive director of the Annual Ohio Stormwater Conference, editorial board for Stormwater Solutions magazine and state of Ohio representative for Envirocert International. He assisted in the development of Tinker's Creek Watershed Partners in 2005 and previously served as the president of Tinker's Creek Watershed Partners, along with other leadership positions.

# SCHEDULE OF EVENTS

## MONDAY, AUGUST 26

- 8:00 AM - 4:30 PM..... CISEC Certification Course ..... Crystal 1-2
- 8:00 AM - 4:30 PM..... Certified Designer of Sediment and Erosion Certification ..... Crystal 3-4
- 1:00 PM - 5:00 PM ..... Registration Open ..... Conference Foyer
- 1:00 PM - 5:00 PM ..... Exhibitor Move-In..... Exhibit Hall / Summit Pavilion

## TUESDAY, AUGUST 27

- 7:30 AM - 5:30 PM ..... Registration Open ..... Conference Foyer
- 8:00 AM - 3:00 PM ..... Exhibitor Move-In..... Exhibit Hall / Summit Pavilion
- 8:00 AM - 4:30 PM..... CISEC Certification Course ..... Crystal 1-2
- 8:00 AM - 4:30 PM..... Certified Designer of Sediment and Erosion Certification ..... Crystal 3-4
- 10:30 AM - 3:00 PM ..... Truckee River Floodplain Restoration Tour ..... Meet at StormCon Registration Desk
- 12:45 PM - 2:15 PM ..... NMSA Public Meeting ..... Carson 1-2
- 1:00 PM - 4:00 PM ..... Kayaking and Hiking Tours ..... Meet at StormCon Registration Desk
- 4:00 PM - 5:30 PM..... Exhibit Hall Opening Reception ..... Exhibit Hall / Summit Pavilion

## WEDNESDAY, AUGUST 28

- 7:00 AM - 5:00 PM..... Registration Open ..... Conference Foyer
- 7:00 AM - 8:00 AM..... Continental Breakfast ..... Conference Pre-Function
- 8:00 AM - 9:30 AM..... OPENING GENERAL SESSION / KEYNOTE ..... Reno Ballroom
- 9:30 AM - 6:00 PM..... Exhibit Hall Open..... Exhibit Hall / Summit Pavilion
- 9:30 AM - 10:15 AM ..... Coffee Break..... Exhibit Hall / Summit Pavilion
- 10:15 AM - 11:45 AM..... CONFERENCE SESSIONS..... Carson / Crystal Rooms
- 11:30 AM - 1:00 PM..... Attendee Lunch ..... Exhibit Hall / Summit Pavilion
- 1:00 PM - 2:30 PM ..... CONFERENCE SESSIONS..... Carson / Crystal Rooms
- 2:30 PM - 3:30 PM..... Coffee Break..... Exhibit Hall / Summit Pavilion
- 3:30 PM - 4:30 PM..... Panel Discussion..... Reno Ballroom
- 4:30 PM - 6:00 PM..... Exhibit Hall Networking Reception ..... Exhibit Hall / Summit Pavilion

## THURSDAY, AUGUST 29

- 7:00 AM - 12:00 PM ..... Registration Open ..... Conference Foyer
- 7:00 AM - 8:00 AM..... Continental Breakfast ..... Conference Pre-Function
- 8:00 AM - 9:30 AM..... CONFERENCE SESSIONS..... Carson / Crystal Rooms
- 9:00 AM - 1:00 PM ..... Exhibit Hall Open..... Exhibit Hall / Summit Pavilion
- 9:30 AM - 10:30 AM ..... Coffee Break..... Exhibit Hall / Summit Pavilion
- 10:30 AM - 12:00 PM ..... CONFERENCE SESSIONS..... Carson / Crystal Rooms
- 12:00 PM - 1:00 PM..... Attendee Lunch / SWS Top Projects Awards Ceremony ..... Exhibit Hall / Summit Pavilion
- 12:30 PM..... PASSPORT PRIZE GIVEAWAY DRAWINGS.....EXHIBIT HALL / SUMMIT PAVILION**
- 1:00 PM - 2:30 PM ..... CONFERENCE SESSIONS..... Carson / Crystal Rooms
- 1:00 PM - 6:00 PM ..... Exhibits Dismantle..... Exhibit Hall / Summit Pavilion
- 2:30 PM - 5:30 PM..... City of Sparks North Truckee Drain Watershed Basin Tour ..... Meet at StormCon Registration Desk

# CISEC AND CDSEC CERTIFICATION

MONDAY, AUGUST 26 & TUESDAY, AUGUST 27, 2024

8:00 AM - 4:30 PM

## CRYSTAL 1-2 CISEC

REGISTER HERE

The Certified Inspector of Sediment and Erosion Control (CISEC) is a core program of Ecopliant Environmental, Inc. The program provides training and certification to those interested in improving their skills and becoming a certified inspector of sediment and erosion control. An expert instructor will guide registrants through the latest techniques and technologies commonly found on construction sites, equipping them with the knowledge to stay ahead of the game.

Do not miss this opportunity to take your career to the next level and make a lasting impact on the environment. During the "Hands-On" 1½-day training modules:

- Learn about U.S. EPA requirements that are applicable to the duties of all sediment and erosion control inspectors,
- Find out about inspector background requirements including how to read a SWPPP, learning about writing meaningful inspection and corrective action reports, and understanding the importance of professional ethics,
- Complete comprehensive assessments of the many sediment and erosion control BMPs that may be on construction sites; and
- Conduct virtual inspection tours of a subdivision to enhance your professional skills.

Following the CISEC training, approved applicants can sit for the CISEC-IT or CISEC Full certification examinations on **Tuesday, August 27, 1:00 PM - 4:30 PM**.

## CRYSTAL 3-4 CDSEC

REGISTER HERE

The Certified Designer of Sediment and Erosion Control (CDSEC) is a core certification program of Ecopliant Environmental, Inc. This intermediate to advanced level technical program provides qualified designers and reviewers with a professional review of methods that minimize sediment discharges from construction sites.

Development of effective sediment and erosion control plans must occur in a professional manner. Expert instructors will conduct a comprehensive review of qualified designers and reviewers that include the following:

- What is expected for development and/or review for effective sediment and erosion control drawings to implement on construction sites,
- Evaluation of computer models (e.g., RUSLE2 and MULSE) that estimate average annual erosion rates and sediment yields,
- Concepts and information about limitations of commonly found best management practices on construction sites that are to remove suspended particles from runoff waters and/or wind,
- An assessment of structural and non-structural erosion control methods that minimizes the generation of sediment during rainfall and/or wind events, and
- Development of effective sediment and erosion control drawings by applying technical knowledge, communication, and common sense.

Following the nine-hour intermediate to advance level technical review, approved applicants can sit for the CDSEC Full certification examination on **Tuesday, August 27, 2024, from 1:00 PM - 4:30 PM**.



# TRUCKEE RIVER FLOODPLAIN RESTORATION TOUR

**TUESDAY, AUGUST 27, 2024**

**10:30 AM - 3:00 PM**

**MEET AT REGISTRATION AT 10:30 AM**

**Registration Price:** \$125

**Tour Locations:** Lockwood Trailhead, Scenic Overlook, McCarran Ranch Preserve and Derby Diverson Dam  
Lunch Provided

Join us before the official start of StormCon for a field trip and tour of the Truckee River Floodplain Restoration project and surrounding areas. The tour will kick off with a stop at the Lakewood Restoration Project & Recreational Trailhead where attendees will learn about the ongoing restoration project while also discussing maintenance and resiliency over time. Attendees will learn about the project's goals, ecosystem benefits, using restoration as a tool for flood risk reduction, and more. The tour will then continue with stops at a scenic overlook and the McCarran Ranch Preserve where attendees will enjoy lunch and free time to walk the nature trail.

*\*Separate registration required.*

**Total # of Tour Guests:** 50

**REGISTER HERE**





# KAYAKING AND HIKING TOURS

**TUESDAY, AUGUST 27, 2024**

**1:00 PM - 4:00 PM**

**MEET AT REGISTRATION AT 1:00 PM**

## Private Guided Kayaking Tour

**Registration Price:** \$300

**Tour Location:** Sand Harbor

A two-and-a-half-hour private guided kayak tour including professional instruction. Guests will be paired up and paddle in double kayaks. Participants are responsible for providing their own towels. Bottled water will be provided.

**Total # of Tour Guests:** 50

**REGISTER HERE**



**MEET AT REGISTRATION AT 1:00 PM**

## Private Guided Natural History Hiking Tour

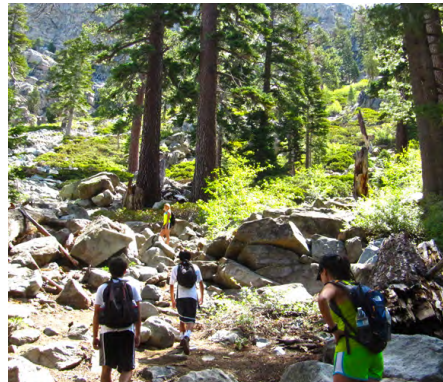
**Registration Price:** \$275

**Tour Location:** South Shore

A two to three hour easy/moderate, private, guided, natural history hiking tour including a CPR & First Aid Certified Professional. The typical distance of the hike can range between 3 - 6 miles and take up to three hours. A day pack is recommended to bring for personal items. Bottled water will be provided.

**Total # of Tour Guests:** 50

**REGISTER HERE**



## RENO BALLROOM

### **Extreme Weather and Climate Change Impacts to National Critical Infrastructure**

Our keynote session will feature a national overview of the changes occurring in the upper atmosphere triggering intensity and longevity shifts in weather patterns at the surface. From this presentation, attendees will be able to understand the cascading weather events threatening water safety and security as well as the supporting critical infrastructure and operators in each region across the US.

Analyzing recent climate trends over the past 120 years shows strong evidence of growing weather threats to various critical infrastructure sectors as longer lasting heat domes, changes in our winter weather, heavier rainfall events, expansive wildfires, sea level rise, and stronger, more frequent tropical cyclones are occurring nationally against aging infrastructure. As many parts of the water sector were built to climatological standards from the mid to late 1900s, weather events can cause more damage than normal from the increasing intensity and prevalence. Drought conditions have expanded nationally as heat domes and shifts in the rainfall stability have caused surface water levels to drop and reliance on groundwater has reduced what were accessible backup reserves, presenting a concern for water security. In this presentation, attendees will be provided with studies, statistics, and solutions taken from impacted areas and available best practices being advocated across numerous sectors. All of the concepts, statistics, and graphics will be applicable across the U.S. for impacts to consider not just to major waterways, infrastructure, ecological stability, or societal implications, but the subsequent impacts to supply chain and resiliency of multiple sectors, all interlinked, in whole.



### **Sunny Wescott**

Sunny Wescott is a Federal Emergency Response Official Chief Meteorologist with the Department of Homeland Security (DHS) Cybersecurity and Infrastructure Security Agency (CISA) specializing in national extreme weather hazards and climatological studies for impacts to public and private sector key resources.

Wescott has degrees in Homeland Security Management, Public Safety Administration, and Atmospheric Sciences and is a member of the American Meteorological Society (AMS) and the International Association of Emergency Managers. During her time in the US Air Force as a Lead Meteorologist, Wescott trained on continental and oceanic weather as the Top Forecaster for her support region and is considered a subject matter expert for multiple climatological events

such as drought, wildfires, tropical cyclones, and more. Since 2018, Wescott has been providing support to various working groups across the federal government including the Resilient Power Working Group, CISA's Extreme Weather Working Group, the National Disaster Resiliency Council, the Climate Security Council, the National Drought Resiliency Partnership and more.

While previous roles within CISA focused on working with emergency response operations for telecommunications, critical infrastructure, and executive briefing support which integrated her background of operational forecasting from her military experience, Wescott's current role with CISA's Infrastructure Security Division, Assistant Chief of Staff office, enables Extreme Weather Outreach by providing focused reports for regions and critical infrastructure operators before, during, and after disasters.

# PANEL DISCUSSION

WEDNESDAY, AUGUST 28, 2024

3:30 PM - 4:30 PM

RENO BALLROOM

## Tackling Microplastics Across the Country

Microplastics have been observed around the globe, and in this panel, three industry professionals will share how they are mitigating this contaminant in their communities. From a local perspective, attendees will learn about work being done around Lake Tahoe, where microplastics have been observed. This has raised concerns from the scientific and management communities in the Tahoe Basin on how to address microplastic pollution in Lake Tahoe. From groups turning scientific information into management priorities to research studies highlighting pervasiveness of plastic pollution in Lake Tahoe, this panel will share ideas on observing and mitigating microplastics in bodies of water.

From there, the panel will travel to the Midwest and hear how the city of Springfield, Missouri, is handling the evolution of microplastics, especially as they relate to stormwater. From collecting stormwater samples to evaluating the efficacy of SCMs, the city is implementing various avenues of research to tackle microplastics. Join the panelists to learn how you can manage and mitigate microplastics in your community.



**Monica Arienzo, PhD, Associate Research Professor in the Division of Hydrologic Sciences at the Desert Research Institute**

In her research, Arienzo uses chemical tools to understand how humans impact the environment. After years of studying caves in the Bahamas and ice cores from Antarctica, now she studies microplastics found in snowy peaks, downstream lakes and rivers, and to drinking water taps around the world.



**Katie Senft, Staff Research Associate, UC Davis Tahoe Environmental Research Center**

During the past 14 years, Senft has worked on various projects from monitoring water quality and nearshore algae growth to researching a new and novel approach to restore the lake's clarity by removing the invasive mysis shrimp. The ability to observe the lake on an intimate level has inspired Senft's most recent work focusing on microplastics in Lake Tahoe.



**Sarah Wilkerson, CESSWI, Senior Stormwater Specialist, City of Springfield, MO**

Wilkerson has worked with the City of Springfield, Missouri for 13 years. In her current role, she oversees several programmatic aspects of the city's MS4 program, including municipal good housekeeping, industrial and high-risk runoff, and post-construction. She holds degrees in Biology and Environmental Science.

# CITY OF SPARKS NORTH TRUCKEE DRAIN WATERSHED BASIN TOUR

THURSDAY, AUGUST 29, 2024

2:30 PM - 5:30 PM

MEET AT REGISTRATION AT 2:30 PM

**Registration Price:** \$100

**Tour Locations:** North Truckee Drain Outfall, Sparks Marina, Spanish Springs Dam, Recreational Park & Fishery

Join us following the StormCon education sessions on Thursday for a tour of the North Truckee Drain System in Sparks County. In 2018, the City of Sparks completed the realignment of the North Truckee Drain, which is a tributary to the Truckee River. The scope of the project was to relocate the North Truckee Drain tributary confluence with the Truckee River and the goal was to relocate the confluence downstream of the Steamboat Creek to alleviate backwater effect on the North Truckee Drain, Sparks Industrial area, and the Steamboat Creek flood plains. This tour will include multiple stops, featuring the Sparks Marina, the Spanish Springs Dam and a proposed Recreational Park and Fishery Site.

**Total # of Tour Guests:** 50

[REGISTER HERE](#)



# CONFERENCE PROGRAM

## MONDAY, AUGUST 26

8:00 AM - 4:30 PM

CISEC Certification Course

[REGISTER HERE](#)

Certified Designer of Sediment and Erosion Certification

[REGISTER HERE](#)

## TUESDAY, AUGUST 27

8:00 AM - 4:30 PM

CISEC Certification Course

[REGISTER HERE](#)

Certified Designer of Sediment and Erosion Certification

[REGISTER HERE](#)

10:30 AM - 3:00 PM

Truckee River Floodplain Restoration Tour

12:45 PM - 2:15 PM

NMSA Public Meeting

1:00 PM - 4:00 PM

Kayaking and Hiking Tours

## WEDNESDAY, AUGUST 28

8:00 AM - 9:30 AM

Opening Keynote

10:15 AM - 11:00 AM

Optimizing Stormwater Basin Inspections in the City of Reno: Harnessing the Power of ESRI and GIS Technologies

Protecting Watersheds through Erosion Control Methods

Applying Site-Specific Bench-Scale Testing to Characterize Stormwater Pollutants and Improve Advanced Filtration Systems

Implementation of the Stormwater Testing and Evaluation for Products and Practices (STEPP) Program

11:00 AM - 11:45 AM

From Storms to Supply: Creating Frameworks to Integrate Stormwater Capture into Water Supply Planning

Lower Las Vegas Wash Stabilization: An Erosion Control and Flood Mitigation Program for Infrastructure Protection

The Future of Assessing SCM Maintenance and Long-Term Compliance

National Legal and Stormwater Policy

1:00 PM - 1:45 PM

Potential Impacts of Climate Change on Stormwater Quality Management in Lake Tahoe

Sediment Control Treatment Alternatives to Sediment Basins in Restricted-Space Locations

PFAS: What to do Before You Do It

Applied Innovations for MS4 Programs

1:45 PM - 2:30 PM

Why We Don't Infiltrate: A Regional Approach to Managing Stormwater in the Las Vegas Valley

Phosphorus and TSS Reduction Utilizing Existing Infrastructure

Using Polyacrylamide (PAM) to Achieve MS4 and TMDL Compliance

EPA Town Hall

3:30 PM - 4:30 PM

Panel Discussion: Tackling Microplastics Across the Country

## THURSDAY, AUGUST 29

8:00 AM - 8:45 AM

Urban Forestry, Thriving Trees in Urban Stormwater Systems

Lower Rio Grande Valley Texas Pollutant Discharge Elimination System Stormwater Task Force – An MS4 Coalition of 33 local governments Sharing 1 Storm Water Management Program

Moosa Creek Ecosystem Restoration Reduces Flooding

Regional Nature-based Solutions to Stormwater Management

8:45 AM - 9:30 AM

Performance-Based Plant Selection: Developing a Bioretention Plant Selection Tool

How to Turn E. coli Data into an Illicit Discharge Investigation

Modeling of Urban Flooding in Response to Extreme Rainfall Events

Swale Longevity Study: I'm Not Old, I Still Feel Swale

10:30 AM - 11:15 AM

Overcoming Subsurface Challenges: Implementing Green Infrastructure in NYC's Right of Way

How WIFIA Financing Accelerated Stormwater Infrastructure Investments in Fort Lauderdale, FL

Balancing Water Below Sea Level

RFP Budgets to Completion

11:15 AM - 12:00 PM

Basin Instincts: Green Infrastructure Program Management and Municipal Permit Compliance

Collecting and Managing Data for Tahoe's Regional Stormwater Monitoring Program: A 10-year Retrospective

Empirical Model for Estimating Upstream Water Levels at a Tide Gate Control During Coincident Rainfall and High Tide Events

Dude, Where's my Parking Space? Retrofitting Neighborhood-Scale Green Stormwater Infrastructure

1:00 PM - 1:45 PM

Detroit's First Green Decade – A Review of the City of Detroit's Stormwater Management Efforts

Viewing the Regulatory Landscape for Approvals of Proprietary Manufactured Treatment Devices for Stormwater Quality

Unprecedented Times: A Perspective on How Under-designed and Underdeveloped Stormwater Systems are Affected by Unprecedented Storm Events

Managing Stormwater with Drones – A Pilot Project

1:45 PM - 2:30 PM

Disaster Recovery & Hazard Mitigation Funding and Stormwater Parks

Public Facing Stormwater Mapping

Results from a National Assessment of Urban Stormwater Runoff Potential

You Can't Perform What You Don't Know: Industrial Stormwater Management Overview

2:30 PM - 5:30 PM

City of Sparks North Truckee Drain Watershed Basin Tour

# CONFERENCE PROGRAM

WEDNESDAY, AUGUST 28, 2024

10:15 AM – 11:00 AM

## Track - BMP Monitoring - Carson 1-2

### Optimizing Stormwater Basin Inspections in the City of Reno: Harnessing the Power of ESRI and GIS Technologies

In January 2023, the City of Reno Utility Services Department introduced its Storm Water Basin Inspection (SWBI) Program. This presentation offers an overview and live demonstration of the SWBI Survey123 tool, including automated report generation, inspection and enforcement process and compliance tracking. Lessons learned from the program development will also be presented. The program's inception marked a shift that leverages cutting-edge ESRI and GIS technologies at every stage, including Survey 123, ArcGIS Enterprise Dashboard, and Portal. This overhaul streamlines the identification and rectification of noncompliant basins with a more efficient and effective system. With the completion of over 150 field inspections and mapping of 270 stormwater basins, the City of Reno is actively working with property owners to rectify noncompliant basins.

*Speakers: David Lake and Norm Nash - City of Reno*

## Track - Erosion Control - Carson 3-4

### Protecting Watersheds through Erosion Control Methods

Sediment loss through erosion is one of the leading causes of water pollution. Soil erosion from water is a natural process that can be dealt with if you are using the correct erosion control methods. This presentation will cover several different methods of temporary and permanent erosion control, including how to select the correct solution for different situations. In the presentation, attendees will look at the differences between sediment control and erosion control and the most common pollutants that are targeted. There will be several project sites and case studies to review.

*Speaker: Mike Everhart - Everett J Prescott INC*

## Track - Industrial Stormwater Management - Crystal 1-2

### Applying Site-Specific Bench-Scale Testing to Characterize Stormwater Pollutants and Improve Advanced Filtration Systems

In November 2018, the California State Water Resources Control Board amended the Industrial General Permit for Stormwater Discharges, integrating 36 Total Daily Maximum Loads (TMDLs). Since July 2020, this has led to numerous industrial sites in California undergoing the Exceedance Response Action (ERA) process, facing stricter TMDL Numeric Action Levels (TNALs) and Numeric Effluent Limits (NELs). Consequently, these sites are contemplating significant investments in advanced stormwater treatment to meet these new standards and return to baseline status, thereby avoiding mandatory penalties for NEL exceedances. This study by GSI Environmental (GSI) showcases how scientific methods are employed to identify and analyze stormwater pollutants, aiding facilities in developing strategies to achieve compliance and revert from ERA Level 1 or 2 to Baseline status. Additionally, a key aspect of the study involves experimental bench-scale testing. The study highlights the importance of understanding stormwater pollutant characteristics and exploring comprehensive compliance strategies. This involves installing both passive and active treatment systems, adopting adaptive management techniques, and applying scientific approaches to optimize stormwater treatment performance.

*Speaker: Chris Hsu, Blake Van Drimlen, EIT, and Nate Hasal, EIT - GSI Environmental*

## Track - NMSA - Crystal 3-4

### Implementation of the Stormwater Testing and Evaluation for Products and Practices (STEPP) Program

This session will provide information on the recent launch of NMSA's Stormwater Testing and Evaluation for Products and Practices (STEPP) program and the ongoing and rollout of this program. In addition, the session will include details regarding the testing standards being developed via ASTM, recent updates for the STEPP program, upcoming activities and anticipated goals, and the initial testing for trash removal devices.

*Speakers: Jay Holtz - Old Castle Infrastructure, Seth Brown - National Municipal Stormwater Alliance, and Greg Williams - StormTrap*

# CONFERENCE PROGRAM

WEDNESDAY, AUGUST 28, 2024

11:00 AM – 11:45 AM

## Track - BMP Monitoring - Carson 1-2

### From Storms to Supply: Creating Frameworks to Integrate Stormwater Capture into Water Supply Planning

This session shares lessons learned from a national project designed to create frameworks and tools to assist utilities in integrating stormwater capture and use (SCU) into their water supply planning. It is estimated that systematic SCU could meet more than half of municipal and industrial water needs in the nation's urban areas, about the same amount of supply achievable through wastewater recycling. This session will focus on SCU for water supply augmentation where a primary objective includes augmenting use of existing supplies through potable and/or non-potable applications. We will also consider opportunities to pursue SCU in water-rich regions that may be motivated by other challenges. Tapping stormwater to augment water supplies may seem a simple and logical goal, but the practical reality is that a considerable array of challenges must be overcome. Water utilities need pragmatic guidance for considering SCU and then integrating stormwater into water supply planning in a way that meets the needs of multiple parties while also meeting complex regulatory obligations within available funding resources. To be useful to busy water professionals, this guidance must be presented through easy-to-apply frameworks, tools and resources.

**Speakers:** *Shannon Spurlock - Pacific Institute, Dave Smith - Water Innovation Services, and Seth Brown - National Municipal Stormwater Alliance*

## Track - Erosion Control - Carson 3-4

### Lower Las Vegas Wash Stabilization: An Erosion Control and Flood Mitigation Program for Infrastructure Protection

The Lower Las Vegas Wash (Wash) is the ultimate 4-mile drainage segment of the Las Vegas Wash, which connects the Las Vegas Metropolitan area eastward to the Lake Mead reservoir. Lake Mead water surface elevation has been lowering over the past decades, increasingly exposing the Wash bottom with an unstable slope. This has significantly intensified erosion along the Wash, transferring an estimated 800 tons of sediments to Lake Mead daily. Increasingly impervious urban areas, climate change, and tropical storms are expected to further intensify erosion. To stabilize the Wash, the Southern Nevada Water Authority has initiated a program to design and implement additional erosion control measures along the Wash to prevent erosion against the 100-year design flow. This multi-disciplinary program includes hydrology, hydraulics, geotechnical and structural elements, permitting, sediment, water quality, etc. This presentation provides an overview of the program, challenges encountered, and proposed solutions.

**Speakers:** *Masih Bari and Matthew Wilkinson - AtkinsRéalis and Anita Marquez - Southern Nevada Water Authority*

## Track - Industrial Stormwater Management - Crystal 1-2

### The Future of Assessing SCM Maintenance and Long-Term Compliance

Post construction stormwater control measures (SCMs) are installed with the intention of meeting a specific water quality benefit over the life cycle of the SCM. Long term field monitoring studies exist for commonly deployed SCMs; however, differences in monitoring protocols, site variables, analytical methods and other parameters can dramatically influence performance and longevity assessments. Ideally, standard testing protocols would comparably quantify the operation and maintenance demands of various SCMs in a way that would allow designers and regulators to anticipate their life cycle cost projections. This presentation will compare existing lab and field test protocols to assess SCM maintenance intervals including the New Jersey DEP laboratory filter protocol, Washington's Technology Assessment Protocol - Ecology (TAPE), and Oregon DOT's Stormwater Technology Testing Center (STTC). Two new options will also be presented - one of which is a high precision, low frequency protocol that utilizes synthetic stormwater in a lab setting to more accurately mimic the long-term field response of SCMs. The second is a high frequency, low precision data collection effort that utilizes a widespread maintenance indicator sensor deployment to generate a database of operational records.

**Speaker:** *Jeremiah Lehman - CONTECH Engineered Solutions*

## Track - NMSA - Crystal 3-4

### National Legal and Stormwater Policy

This session will provide an overview of the legal and policy landscape in the stormwater sector at the national level. Legal issues will include the County of Maui v. Hawai'i Wildlife Fund case, PFAS/PCB Class action lawsuits, and recent and upcoming Supreme Court of the United States (SCOTUS) rulings and cases. Policy issues of focus will include emerging contaminants, Clean Water State Revolving Fund (CWSRF) assistance for stormwater programs, the Waters of the U.S. rulemaking, EPA's MS4/Census rulemaking, and the recent Clean Watersheds Needs Survey.

**Speakers:** *Michael Trapp - AtkinsRealis and Seth Brown - National Municipal Stormwater Alliance*

# CONFERENCE PROGRAM

WEDNESDAY, AUGUST 28, 2024

1:00 PM – 1:45 PM

## Track - BMP Monitoring - Carson 1-2

### Potential Impacts of Climate Change on Stormwater Quality Management in Lake Tahoe

Lake Tahoe has been designated an impaired water body under the Clean Water Act due to decades of documented clarity loss. This designation led to the development of the Tahoe Total Maximum Daily Load (TMDL) and the implementation of stormwater best management practices (BMPs) and green infrastructure to reduce fine sediment particle and nutrient loads to the lake. Research was conducted to evaluate how BMPs sized for the current 1-inch design storm may be impacted by a changing climate. Projected temperature and precipitation from a locally downscaled global climate model were applied to the Pollutant Load Reduction Model (PLRM), an existing stormwater planning and TMDL crediting tool. Changes in runoff volumes, rates and volumetric percent capture for BMPs located in three different areas of the Tahoe Basin were evaluated for current conditions and a near future period (2030-2060). The study found that within the next 30 years the duration of seasonal snowpack will be reduced, and the annual runoff volumes are expected to increase by 30-40%. This presentation will describe the approach and findings from this study along with recommendations for designing BMPs that will be more resilient to the effects of climate change and more effective at reducing fine sediment particles and nutrients.

**Speakers:** *Marc Leisenring - Geosyntec Consultants, Alan Heyvaert - Desert Research Institute and Andrea Buxton - Tahoe Resource Conservation District*

## Track - Erosion Control - Carson 3-4

### Sediment Control Treatment Alternatives to Sediment Basins in Restricted-Space Locations

Erosion and sediment control plans are an essential part of the design process for civil and environmental engineers working with land-development construction projects. The design must incorporate both erosion and sediment controls that are proven effective, considering the site-specific soil types and particle size distributions, as well as the physical attributes of the project site. As part of the erosion and sediment control design package, engineered sediment ponds are an effective sediment control measure in the design engineer's best management practices (BMP) arsenal. However, the design of these ponds often requires a basin with a large surface area, especially for sites with clay soils, resulting in runoff with a high particle size number of colloidal-sized particles. This presentation focuses on alternatives to implementing sediment ponds/basins in construction area locations where there is limited areal space. Such locations of restricted space include downtown, urban locations and linear projects, such as pipeline construction sites. Examples of both passive and active treatment alternatives will be discussed along with specific design information to be used by engineers for application. The efficacy of both non-proprietary and proprietary sediment-control alternatives will be presented, including available field performance data relative to suspended solids and/or turbidity reduction.

**Speaker:** *Kevin Wolfe, Ph.D., P.E., BC.WRE - Friendly Environment*





# CONFERENCE PROGRAM

WEDNESDAY, AUGUST 28, 2024

1:00 PM – 1:45 PM

Track - Industrial Stormwater Management - Crystal 1-2

## PFAS: What to do Before You Do It

With the publication by the U.S. EPA of new regulations governing limits on PFAS for drinking water; municipalities and engineering companies may be facing a daunting task on how best to proceed in understanding the various commercial technologies available for managing PFAS in their source waters. There is no single technology or media that is best for all situations as each site represents unique issues and thus demands a unique solution. Understanding the current technologies for managing PFAS in source waters will allow a municipality or other groups the ability to make an informed decision as to what treatment method will best meet their individual needs. This presentation will provide a road map of steps to take before deciding on a specific course of action and technology to be employed for PFAS management. We will explore the various commercialized technologies, and their pros and cons. We will then delve deeper into the various media that may be employed for PFAS management, the relative media costs under different conditions, and disposal options. This will allow a stakeholder to build a PFAS treatment system effectively, economically, and most of all safely, while remaining compliant with these new regulations.

*Speaker: Phil Farina - Clear Creek Systems*

Track - NMSA - Crystal 3-4

## Applied Innovations for MS4 Programs

This session will provide an overview of practitioner-ready innovative tools and approaches from universities and leading-edge thinkers around the country. Attendees can expect to learn about tools, methods and studies that will improve the performance of their MS4 program while also reducing risk and cost.

*Speakers: Scott Meyer - Office of Water Programs, California State University, Sacramento, Brian Currier, P.E. - Office of Water Programs, California State University, Sacramento, and Trey Shanks - Freese and Nichols*

## EXHIBIT HALL GIVEAWAY

### DON'T MISS YOUR CHANCE TO WIN!

A variety of prizes will be given away including a number of gift cards and exciting items! Your chance to win is higher than ever this year!

### MUST BE PRESENT TO WIN!

*Visit the StormCon booth #241 for more information on how to enter!*



# CONFERENCE PROGRAM

WEDNESDAY, AUGUST 28, 2024

1:45 PM – 2:30 PM

## Track - BMP Monitoring - Carson 1-2

### Why We Don't Infiltrate: A Regional Approach to Managing Stormwater in the Las Vegas Valley

Incorporating on-site infiltration best management practices emphasizes using natural processes and green infrastructure to address stormwater quality and quantity problems. These approaches encourage on-site infiltration to reduce the number of pollutants that reach receiving water from stormwater. Infiltration is also used to replenish local groundwater supplies, but stormwater management in the arid West presents unique challenges. This presentation will explore why infiltration is not suitable or encouraged in the Las Vegas Valley – the driest large MS4 community in the nation. Following a discussion of the unique hydrologic and geologic features of the Las Vegas Valley that make infiltration unsuitable, the presentation will explore how the Las Vegas Valley municipal stormwater permittees have developed a regional approach to post-construction requirements, and how that approach benefits water quality. More specifically, the presentation will discuss stormwater quality features in regional detention basins, and requirements for BMPs in large parking lots and other new development projects.

*Speakers: John Tennert - Clark County Regional Flood Control District and Angela MacKinnon, P.E., PMP - Brown and Caldwell*

## Track - Erosion Control - Carson 3-4

### Phosphorus and TSS Reduction Utilizing Existing Infrastructure

50 years of nutrient loading are pushing downstream receiving waters into an unhealthy state where algae blooms and fish kills are becoming more prevalent. Finding new ways to remove phosphorus is key to improving the overall health of lakes and protecting aquatic habitat. In Ontario, Canada, the Lake Simcoe Region Conservation Authority (LSRCA) is responsible for managing the health of Lake Simcoe. Creating the Lake Simcoe Protection Plan, which has identified the negative effects of phosphorus and implemented a first-of-its-kind offsetting fee for its reduction, the LSRCA is encouraging developers to reach a Net Zero standard. New technologies leveraging physicochemical processes like flocculation provide hope for achieving meaningful water quality protection. Novel low-carbon ways to passively introduce flocculants to optimize existing SWMFs have been developed. The Town of Innisfil, Ontario, Canada, sought to assess the use of advanced sedimentation technologies (ASTs) to reduce sediment and nutrient loading rates flowing into Lake Simcoe, which will be explained in this session.

*Speaker: Brad Griko - Clearflow Group US Inc.*

## Track - Industrial Stormwater Management - Crystal 1-2

### Using Polyacrylamide (PAM) to Achieve MS4 and TMDL Compliance

Flocculants such as anionic polyacrylamides (PAMs) are used to enhance existing and traditional BMPs when they are unable to meet discharge and regulatory requirements for sediment, metals and nutrient concentrations in stormwater runoff. This presentation will discuss anionic type polymer-based treatment systems that are safely and effectively used in construction, development and stormwater treatment systems. These PAM treatment systems include active, semi-active, as well as passive treatment set ups that have shown >90% turbidity reductions. Proper selection, application, usage, maintenance and troubleshooting of these systems will be discussed and illustrated. Treatment of a stormwater pond in Marquette, Michigan, that utilized an active, portable, pipe flocculant system will be highlighted as an example. This presentation will highlight the adaptability and effectiveness of PAM treatment systems and participants will gain applicable knowledge of PAM log treatment systems and how they may be applied for specific water quality problems.

*Speaker: Brian Free - Applied Polymer Systems*

## Track - NMSA - Crystal 3-4

### EPA Town Hall

This session will follow a non-traditional format that will consist of discussing some of the most vexing problems facing stormwater programs and asking for feedback from panelists on these findings. The session will seek robust attendee participation with the audience through Q&A. This session will be designed to be a useful listening session for the U.S. EPA stormwater staff to hear from MS4 permittees and associated professionals.

*Moderated by: Jamie Houle, PhD - University of New Hampshire Stormwater Center*

*Speakers: Rachel Urban - U.S. EPA, Office of Water and Lisa Biddle - U.S. EPA, Office of Water*

# CONFERENCE PROGRAM

THURSDAY, AUGUST 29, 2024

8:00 AM – 8:45 AM

## Track - Green Infrastructure - Carson 1-2

### Urban Forestry, Thriving Trees in Urban Stormwater Systems

Urban tree canopies allow us to interact with nature, which develops a broader interest in wildlife and conservation, while providing us health benefits. From reducing temperatures, noise and stormwater runoff, to improving air quality and mental health, trees provide many benefits to humans. But as with any ecosystem, trees need a hospitable place to take root. This session will focus on how tree roots' function and how we have long forgotten about the needs of those roots. The audience will be introduced to a study conducted on tree health under soil-different conditions. Armed with an understanding of the benefits of highly vegetated communities, coupled with an appreciation for the evolution of tree cells, attendees will learn about combining tree survivability and stormwater management. Through a technical discussion, the presentation will look at what trees need to survive. Firstly, we will discuss what makes for rich, well-composed soil, look at ways to introduce air and water to the soil, and look at design concepts, as well as real world projects. These examples will highlight the capabilities of trees in urban environments.

*Speaker: Jason Bailey - Ferguson Waterworks*

## Track - Programs, Permits, & Compliance - Carson 3-4

### Lower Rio Grande Valley Texas Pollutant Discharge Elimination System Stormwater Task Force - An MS4 Coalition of 33 local governments Sharing 1 Storm Water Management Program

In 1998, a coalition of 13 Lower Rio Grande Valley (LRGV) local governments joined to form the LRGV TPDES (Texas Pollutant Discharge Elimination System) Stormwater Task Force (Task Force) in a joint effort to develop a regional approach to comply with the TPDES Phase II Municipal Separate Stormwater Sewer System (MS4) rules. The Task Force developed a regional stormwater management plan (SWMP) adopted by the membership. Today, the Task Force comprises 23 MS4 local governments sharing one regional SWMP and ten (10) more members. The primary goal of the Task Force project in 1998 was to develop and implement a regional SWMP to comply with Phase II regulations. This session will cover how the Task Force has evolved since then, including updating its mission to include stormwater quality management approaches to address broader water quality and watershed issues; transitioning to RATES/RGV; and becoming a non-profit organization in 2022.

*Speaker: Augusto Gonzalez - Cameron County, TX/Task Force*

## Track - Flood Modeling & Mitigation - Crystal 1-2

### Moosa Creek Ecosystem Restoration Reduces Flooding

Burns & McDonnell partnered with Marine Corps Air Station (MCAS) Camp Pendleton and the U.S. Fish and Wildlife Service (USFWS) to plan and construct the Moosa Creek Riparian Restoration Project, which restored an out-of-use golf course, creating a protected natural riparian habitat. The work supported overall environmental and flight safety improvements at MCAS Camp Pendleton. The project entailed grading the project site to manage storm flows and flood flows in the Moosa Creek floodplain, while balancing the ability to restore vegetation. Burns & McDonnell performed hydraulic modeling for Moosa Creek using HEC-RAS to support the design and permitting process as well as verify water surface elevations to support plant growth. The modeling was challenging because the area is considered a high sedimentation area and the existing regulatory model elevations varied from surveyed elevations by as much as seven feet. In coordination with San Diego County Flood Control, it was decided to obtain a Letter of Map Revision (LOMR) to produce a model that matched the current site conditions. The presentation will explore how the project remained during major storm events.

*Speaker: Richard Besancon - Burns & McDonnell Engineering Company, Inc*

## Track - Transportation & Construction Stormwater - Crystal 3-4

### Regional Nature-based Solutions to Stormwater Management

In this session, strategies to make nature-based solutions successful, as well as several initiatives and projects, will be highlighted. An approach to offsetting water quality impacts associated with interstate highway improvements across Tampa Bay will be highlighted. Tampa Bay is impaired for nitrogen and plagued by poor tidal circulation and flushing associated with a causeway built across the bay in the 1930s. Rather than typical ponds or linear water quality features, a new cut through the causeway to improve tidal circulation was studied, modeled, permitted, constructed, and monitored for two years post-construction. A first-of-its kind water quality bank was established for highway projects. An internal client audit indicated the approach saved \$100M over traditional approaches and has resulted in larger than expected improvement in water quality, ecological uplift and habitat improvement that does not occur with linear approaches to water quality. The project has spurred a statewide guidance manual to nature-based solutions and similar projects elsewhere.

*Speaker: Shayne Paynter - Atkinsrealis*

# CONFERENCE PROGRAM

THURSDAY, AUGUST 29, 2024

8:45 AM – 9:30 AM

## Track - Green Infrastructure - Carson 1-2

### Performance-Based Plant Selection: Developing a Bioretention Plant Selection Tool

In 2021, a multidisciplinary team of stormwater professionals was awarded a grant through the Green Infrastructure Leadership Exchange to complete a first phase towards building a Bioretention Plant Selection Tool (BPST) framework. Biohabitats, a values-based consulting firm with a focus on ecological restoration and sustainable design, was hired to survey stormwater professionals, conduct a literature review of plant functions as they pertain to bioretention performance, and develop an outline of how stormwater practitioners could evolve plant selection to optimize the values that plants provide. This presentation will introduce research concerning the functions plants provide in bioretention and how shifting to performance-based plant selection can advance the implementation of bioretention, optimize stormwater treatment goals, and create cost-efficient installations. The presenter will discuss the creation of a BPST, which is envisioned as a freely available, democratic tool that will help bridge the gap in technical expertise between regulatory agencies and the design community with smaller municipalities or community groups.

**Speaker:** *Ted Shriro - City of Springfield*

## Track - Programs, Permits, & Compliance - Carson 3-4

### How to Turn E. coli Data into an Illicit Discharge Investigation

In Washington D.C., there are many entities that track E. coli levels. Within the Department of Energy and Environment (DOEE), there is the Water Quality Division, there are nonprofits with citizen scientists monitoring programs and USGS has monitoring stations. So, yes, we know that there are many places where we sample and track E. coli, but then what? This presentation will describe how DOEE's Illicit Discharge team took all that data, compiled it, and incorporated a nutrient source tracking element to its illicit discharge program. This small-team, low-budget initiative has been productive in narrowing down where the E. coli is entering the streams by identifying the actual outfall source. This presentation will discuss components and methods used in an investigation of Pinehurst Branch, a tributary of Rock Creek. While reviewing E. coli data, it was determined that Pinehurst had consistent high levels. The team took a systematic approach to first evaluate all the outfalls in the watershed and conducted dry weather monitoring with booms, then narrowed further down by conducting a simple coliform/ E. coli snap test. In this subset, two outfalls were identified with positive results for the presence of coliform/ E. coli. The district's experience can be shared to help others facilitate programs that must be creative with funding and resources that do not involve contract vehicles.

**Speaker:** *Mary Polacek - DOEE*



***“Conference sessions were very informative. Speakers were excellent. Length of presentations was also very good. The networking sessions were perfect for interacting with other attendees.”***

**- 2023 ATTENDEE**

# CONFERENCE PROGRAM

THURSDAY, AUGUST 29, 2024

8:45 AM – 9:30 AM

## Track - Flood Modeling & Mitigation - Crystal 1-2

### Modeling of Urban Flooding in Response to Extreme Rainfall Events

The city of Baltimore is situated on the banks of the Chesapeake Bay, and while the location offers a beautiful view, it also has its share of challenges, including increasing threat of pluvial flooding. The city of Baltimore is currently facing a growing threat of pluvial flooding due to a combination of factors such as increased urbanization, changes in climate patterns, aging drainage infrastructure and clogged drains. In this session, a study focusing on the Cherry Hill community, a diverse community that is home to around 8,000 residents located along the southern shores of Baltimore City, will be explored. The community is already facing significant challenges, including poverty, lack of social and economic opportunities, and a growing threat of pluvial flooding. To address this issue, the study used the City Catchment Analysis Tool (CityCAT), a hydrodynamic flood model that will be used to simulate pluvial flooding and provide insights into flood depths and major flow paths along the streets of Cherry Hill. The results of the study will be validated with real storm events that hit the community using 311, 911, and X reports. The study's goal is to provide valuable insights into the problem of pluvial flooding, which can be used to inform future infrastructure planning and development.

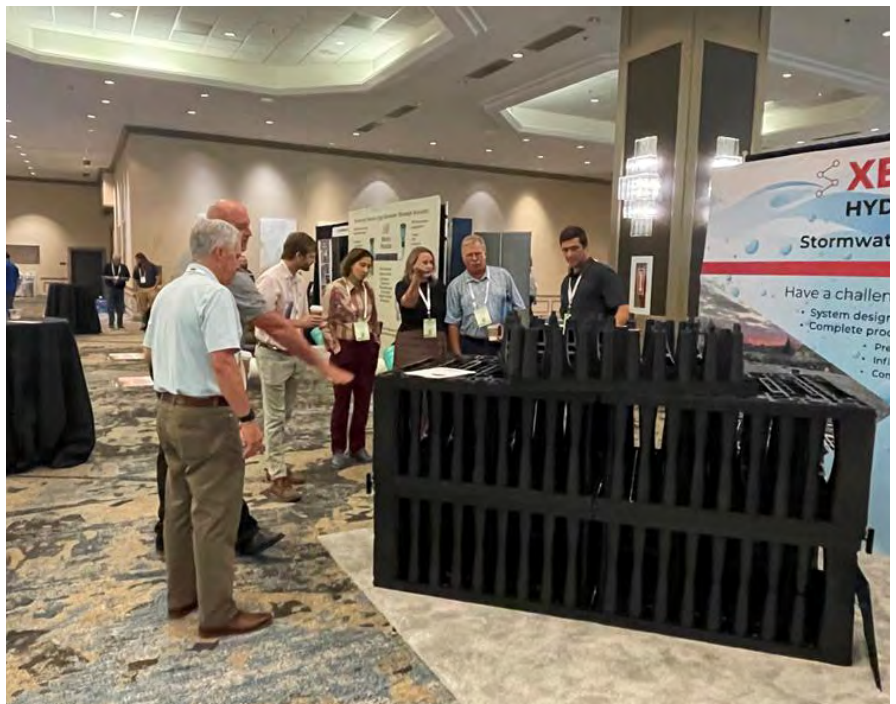
**Speaker:** *Julia Atayi - Morgan State University*

## Track - Transportation & Construction Stormwater - Crystal 3-4

### Swale Longevity Study: I'm Not Old, I Still Feel Swale

The Washington State Department of Transportation (WSDOT) is responsible for maintaining more than 7,000 miles of highway, 48 rest areas, 24 maintenance facilities, and 19 ferry terminals. Biofiltration swales are one of the primary BMPs that WSDOT uses to treat stormwater runoff from the many highways and facilities throughout the state. The question is, how long can these swales last and still perform the intended treatment for which they were designed? The WSDOT Highway Runoff Manual (HRM) states that the effective life of a biofiltration swale is 5-20 years. For this study, WSDOT is monitoring two biofiltration swales beyond their effective age, each with different construction and highway location designs. Both swales are in Western Washington and have been monitored for over two years to determine their effectiveness for total suspended solids (TSS) removal. Data collected from this study may allow WSDOT to adjust its maintenance and replacement schedule of biofiltration swales, as well as help inform potential future swale longevity studies. If these swales are currently still functioning, should their effective lifespan be extended? Can these older swales be retrofitted to gain even more pollutant removal in the future?

**Speakers:** *Kevin Brandhorst and Chris Gustafson - Washington State Department of Transportation*



# CONFERENCE PROGRAM

THURSDAY, AUGUST 29, 2024

10:30 AM – 11:15 AM

## Track - Green Infrastructure - Carson 1-2

### Overcoming Subsurface Challenges: Implementing Green Infrastructure in NYC's Right of Way

New York's Department of Environmental Protection's Right-of-Way Green Infrastructure (ROWGI) initiative is one of the largest programs in the world. This presentation will discuss how, in collaboration with the Department of Design and Construction (DDC), the DEP has developed standard specifications for construction of ROW GI throughout NYC. The NYC DEP GI Standard Designs contain six asset types with unique features and additional elements to be used when needed. A few of the specifications this presentation will discuss are Clean Open Graded Stone, Concrete Elements, Stormwater Inlet for GI Assets, High Density Polyethylene (HDPE) Pipe, and HDPE Stormwater Chambers. Throughout DEP's experience of constructing more than 10,000 ROW GI assets, updates to specifications such as Plant Establishment and Steel Tree Guards, were essential to improving the lifetime and durability of the green infrastructure. In summary, this presentation will discuss the standard specifications for the right-of-way green infrastructure program at NYC DEP and how those specifications have changed over time to successfully implement the largest GI program in the country.

*Speakers: Tony Li and George Papasmiris - NYC Department of Environmental Protection*

## Track - Programs, Permits, & Compliance - Carson 3-4

### How WIFIA Financing Accelerated Stormwater Infrastructure Investments in Fort Lauderdale, FL

In this session, speakers will provide an overview of the Water Infrastructure Finance and Innovation Act (WIFIA) program and describe WIFIA's water infrastructure-related eligibilities and priorities, including stormwater projects and climate resiliency projects. Additionally, speakers will discuss the benefits of WIFIA financing, including long repayment terms, project bundling, and flexible repayment structures. Finally, speakers will describe, through the case study described below, how the WIFIA program can provide critical funding for stormwater infrastructure upgrades. In 2023, the City of Fort Lauderdale, Florida, received a \$120 million WIFIA loan to finance seven crucial stormwater infrastructure projects that will benefit entire neighborhoods. The projects encompass a wide range of stormwater infrastructure improvements, including the replacement and installation of storm pipes, exfiltration trenches, swales, water quality structures, pump stations, tidal valves, permeable pavers, created wetlands, canal/creek maintenance and sea walls. These improvements will help manage stormwater in the city's most flood-prone neighborhoods, based on the historical flooding documentation. WIFIA financing will save the city approximately \$26 million over the life of the loan.

*Speakers: Mary Fasano - U.S. EPA and Rares Petrica - City of Fort Lauderdale*

## Track - Flood Modeling & Mitigation - Crystal 1-2

### Balancing Water Below Sea Level

The City of New Orleans and neighboring Jefferson Parish (County) are uniquely challenged by managing stormwater in a below sea level environment while having some of the highest rainfall rates in the country. The system of levees and floodwalls designed to protect the region from hurricane storm surge creates a "bowl-effect" which traps stormwater in urban areas. Historically these flood-prone areas have managed flood risk using gray infrastructure systems of pipes, engineered canals and pump stations to "drain the bowl." This presentation explores the efforts by Jefferson Parish and the City of New Orleans to evaluate integrated gray and green infrastructure strategies within two adjacent neighborhoods separated by the 17th Street Canal, which was one of the failure points to cause historic flooding in the City of New Orleans during Hurricane Katrina. In Jefferson Parish, speakers explore strategies in the Bucktown neighborhood, a historic fishing village turned mixed-used residential and commercial neighborhood undergoing significant investment and revitalization. In the City of New Orleans, speakers focus on the West End neighborhood, now recovered from the surge-based flooding of Hurricane Katrina but still challenged by an aging, undersized interior drainage system. For both projects, the team will describe the data collection, flood modeling, evaluation of project alternatives for reducing flood risk, and benefit-cost analysis for gray and green alternatives.

*Speakers: Andrew Woodroff, P.E. and Patrick Stiegman, P.E., CFM - Digital Engineering and Imaging, Inc*

## Track - Transportation & Construction Stormwater - Crystal 3-4

### RFP Budgets to Completion

This will be a presentation focusing on how costs can escalate on a project between the RFP phase of bidding and project completion. This presentation will outline the following items to serve as a thought experiment for future LRPs, contractors and Inspectors and SWPPP writers: Understanding what impacts scheduling delays can have on compliance with SWPPP; permitting delays, record rains, and supply chain issues; conflict resolution of permit compliance language and real site conditions (safety conditions and sampling opportunities); real-world compliance expenses over the project's completion cycles; contractor discussion of financials of time and money spent in BMP installation, repairs and meetings, and more.

*Speaker: Matthew Renaud - NV5*

# CONFERENCE PROGRAM

THURSDAY, AUGUST 29, 2024

11:15 AM – 12:00 PM

## Track - Green Infrastructure - Carson 1-2

### **Basin Instincts: Green Infrastructure Program Management and Municipal Permit Compliance**

To address post-development pollutant sources, municipalities require developers to incorporate green infrastructure into site designs. Green infrastructure provides assurances that new development and significant redevelopment does not contribute to storm water pollution. Situated at the terminus of a watershed that receives runoff from five nearby cities, the City of Carlsbad has earned a reputation for being one of the most compliance progressive cities in San Diego County. The city is required to develop and implement a compliance program for all privately owned green infrastructure. The most common type of green infrastructure in Carlsbad is bioretention basins, which make up over 54% of the city's inventory of privately owned structures. The purpose of this presentation will be to take a critical look at Carlsbad's Green Infrastructure Program implementation, compliance implications, and remedies municipalities should consider when green infrastructure is removed or modified. Attendees will gain a better understanding of municipal compliance, the development process, site design, inspections, enforcement and program management. By exploring the municipal perspective and interactions with the green infrastructure community, the goal is to demonstrate how project planning, interdepartmental coordination, and leveraging storm water as a resource can be a transformative process for both the municipality and community.

*Speaker: Shawnetta Grandberry - City of Carlsbad*

## Track - Programs, Permits, & Compliance - Carson 3-4

### **Collecting and Managing Data for Tahoe's Regional Stormwater Monitoring Program: A 10-year Retrospective**

The Lake Tahoe TMDL Program is designed to reverse lake clarity loss by reducing fine sediment particle (FSP) and nutrient loading to Lake Tahoe. Stormwater discharges from the urbanized areas of the Tahoe Basin are believed to be the primary contributors of these loads. As such, an important element of the TMDL is to track and report progress towards meeting load reduction targets from urban stormwater. The Regional Stormwater Monitoring Program (RSWMP), managed by the Tahoe Resource Conservation District (Tahoe RCD), provides long-term monitoring and reporting of urban stormwater quality and quantity at several representative locations around the Lake. The large quantity of data produced by this monitoring program, which began in 2013, is stored and summarized by the RSWMP Data Management System (DMS). This presentation will summarize the monitoring approaches, data collection challenges, data management techniques, and status and trends from this 10-year monitoring program. The presentation will conclude with a discussion of the complex relationship between stormwater quality and lake clarity and how future improvements may be impacted by a changing climate.

*Speaker: Andrea Buxton - Tahoe Resource Conservation District, Alan Heyvaert, PhD - Desert Research Institute and Marc Leisenring - Geosyntec Consultants*

## Track - Flood Modeling & Mitigation - Crystal 1-2

### **Empirical Model for Estimating Upstream Water Levels at a Tide Gate Control During Coincident Rainfall and High Tide Events**

In this presentation, speakers will describe an empirical model developed to assist in making mitigation response decisions at a tide gate control for a community in Fairfax County, Virginia. Speakers will illustrate the application of the model to a recent event. The county's New Alexandria tide gate, built in 1994, is on an unnamed tidal creek in the Belle Haven watershed, draining to the Potomac River. The tide gate protects the 44-acre drainage area it serves from high tides and tidal surges from downstream up to about 7.5 feet. With increasingly high upstream water levels, there was a need to obtain estimates of upstream levels for forecasted high tide and rainfall conditions to make timely decisions on the deployment of mobile pumps at the tide gate. The empirical model described here is being utilized in the interim to guide deployment of mobile pumps. Speakers will present examples of how the model is used from recent storm events where the rainfall coincided with high tide.

*Speakers: Madeleine Alwine and Dipmani Kumar - Fairfax County Government*

# CONFERENCE PROGRAM

THURSDAY, AUGUST 29, 2024

11:15 AM – 12:00 PM

Track - Transportation & Construction Stormwater - Crystal 3-4

## Dude, Where's my Parking Space? Retrofitting Neighborhood-Scale Green Stormwater Infrastructure

The Pueblo Alto and Mile-Hi neighborhoods in Albuquerque, New Mexico, face recurring flooding that has persisted for decades. Constructed in the 1950s and 1960s, these neighborhoods have experienced flooding due to undersized storm drain infrastructure and high volumes of runoff from upstream areas. The City of Albuquerque (CABQ) has invested in construction of various traditional drainage improvement projects, but flooding continues. Beginning with a study phase in 2021, CABQ is developing a combined green/gray stormwater infrastructure project, the Pueblo Alto/Mile Hi Green Stormwater Infrastructure (GSI) Pilot Project, to mitigate flooding issues. The project includes modeling of existing and post-project conditions, using a sophisticated two-dimensional (2D) combined hydrologic and hydraulic analysis, including rain-on-grid methodology, to represent surface runoff and storm drain flows. This will be the first large-scale GSI project implemented by CABQ. Currently in the design phase, the education, outreach, and coordination activities by the project team continue.

**Speakers:** *Vincent Steiner - Bohannon Huston Inc. and Shellie Eaton - City of Albuquerque*



***"This was my first year, and I enjoyed the sessions and learning what other communities are doing."***

**- 2023 ATTENDEE**



# CONFERENCE PROGRAM

THURSDAY, AUGUST 29, 2024

1:00 PM – 1:45 PM

Track - Green Infrastructure - Carson 1-2

## Detroit's First Green Decade – A Review of the City of Detroit's Stormwater Management Efforts

Over the past decade, the City of Detroit has made significant strides in enhancing its stormwater management efforts to mitigate combined sewer overflows (CSO) and reduce the risk of flooding. During this period, the city faced many challenges underscored by economic changes and aging infrastructure and climate change. A proactive strategy undertaken by the Detroit Water and Sewerage Department (DWSD) since 2013 was the adaptation of a comprehensive Green Stormwater Infrastructure (GSI) strategy to meet the regulatory requirements of the NPDES permit. This session examines the existing strategies and future goals of DWSD's GSI portfolio. The most recent project will provide stormwater management for more than 200 acres. While DWSD has surpassed the GSI spend mandate, the challenges associated with urban stormwater management persist, therefore DWSD is actively strategizing for future large-scale stormwater management solutions to meet regional and local goals including CSO reduction and flooding mitigation. DWSD's GSI portfolio, with its current successes, forms the foundation for future endeavors in large-scale stormwater management.

*Speaker: Barry Brown and Anna Timmis - Detroit Water and Sewerage Department*

Track - Programs, Permits, & Compliance - Carson 3-4

## Viewing the Regulatory Landscape for Approvals of Proprietary Manufactured Treatment Devices for Stormwater Quality

The implementation of post-construction, permanent proprietary manufactured treatment devices (MTDs) has matured significantly over the past 25 years. Water quality treatment standards for site developments commonly specify an amount of pollutant to be removed by stormwater control measures (SCMs) with a treatment goal of 80% TSS removal. Some states apply their MTD approval standards statewide while other states allow local authorities having jurisdiction (AHJs) to apply their own MTD approval standards. Furthermore, some states only provide a narrative standard for stormwater management and offer no guidance for MTD approvals. A series of maps will illustrate the geographic distribution of MTD approval standards according to: (a) statewide approval programs in 10 states, (b) select AHJs that administer their own MTD approval programs and the basis for those approvals, and (c) 12 states with narrative standards in their stormwater manuals. Statewide MTD approvals rely either on laboratory-testing or field-testing protocols that include the New Jersey Department of Environmental Protection (NJDEP) laboratory test, the NJDEP TARP Tier II field test (inactive), the Washington State Department of Ecology TAPE field test, or the California Water Resources Control Board approval process specifically for Trash Treatment Control Devices that target particles  $\geq 5$  mm (5,000 microns). A map will also illustrate the distribution of 10 states that include an MTD approval provision that addresses phosphorus removal. An example pertaining to MTD model sizing resulting from different particle size distributions (PSDs) between laboratory- and field-testing will be explored.

*Speakers: Mark Miller - AquaShield, Inc.*



# CONFERENCE PROGRAM

THURSDAY, AUGUST 29, 2024

1:00 PM – 1:45 PM

## Track - Flood Modeling & Mitigation - Crystal 1-2

### Unprecedented Times: A Perspective on How Under-designed and Underdeveloped Stormwater Systems are Affected by Unprecedented Storm Events

Parts of the Southeastern United States have recently witnessed the impacts of frequent, unprecedented rainfall events coupled with stormwater drainage systems which do not provide the necessary capacity and conveyance to handle them. Case studies, such as the 2010 and 2021 Tennessee floods, provide snapshots of how truly unprecedented significant rainfall events and floods can be. Design engineers and land developers have challenges when selecting the appropriate stormwater management best practices. An understanding of the probabilistic risk of extreme storm events is necessary to formulate decisions about the level of service of stormwater facilities and conveyances that are appropriately conservative. Revisions to stormwater manuals, the adoption of prudent planning and design policies, and an incorporation of data from the upcoming publication of NOAA Atlas 15 are tools that communities can use to protect life and property from low-probability and high-impact storm events. Although policy and design decisions will never eliminate the risk of an extreme storm event, careful planning in both the private sector and public forum will aid in the future resiliency needed within stormwater systems to protect lives and recover more quickly.

**Speakers:** *Justin DeAngelis - Envista Forensics and Aaron Rogge, P.E. - CDM Smith*

## Track - Transportation & Construction Stormwater - Crystal 3-4

### Managing Stormwater with Drones – A Pilot Project

In 2023, the Northwest Seaport Alliance's Water Quality team implemented an environmental drone program with a focus on stormwater management. This project's purpose is to implement drones to assist with permit-regulated inspections and environmental mapping, modeling and monitoring needs. Incorporating the use of a drone into this work has proved useful in assisting with nearly all inspections of site conditions and stormwater assets required by the various NPDES permits held by the Port of Tacoma. Examples of these inspections include IDDE and outfall inspections; ditch assessments; source control inspections; spill tracing and investigation; pre- and post-construction BMP inspections and monitoring; and derelict vessel monitoring. The driving cause to implement the drone program was to promote inspector safety in dangerous areas. The ability to preprogram flight paths and use artificial intelligence to activate obstacle avoidance also promotes the safety of the equipment and eliminates human error while flying in critical and/or sensitive areas such as an industrial site or port terminal. This presentation will explore key benefits of drones, including the real-time, up-to-date, high-resolution data and the ability to fully integrate the imagery into a GIS system.

**Speaker:** *Ben Nield, MPA - The Northwest Seaport Alliance*



# CONFERENCE PROGRAM

THURSDAY, AUGUST 29, 2024

1:45 PM – 2:30 PM

## Track - Green Infrastructure - Carson 1-2

### Disaster Recovery & Hazard Mitigation Funding and Stormwater Parks

The Federal Emergency Management Agency's (FEMA) Building Resilient Infrastructure and Communities (BRIC) grant program prioritizes funding for projects that incorporate nature-based solutions (NbS). One of the most scalable and adaptable NbS practices are stormwater parks. This presentation will provide an overview of what stormwater parks are, including the functions and benefits; and how to identify opportunities for them. Jacobs has worked with local government agencies, such as the Port of San Francisco, to secure BRIC funding for the use of NbS. A short-listed grant for the Port's waterfront resilience program included living seawalls, enhancing public recreation and access of the waterfront. The approach for scoping a successful BRIC grant project and developing the funding application, including the benefit-cost analysis, for NbS will be discussed. Additional stormwater parks (floodable spaces) that have been designed and built for communities across the U.S. and internationally to address natural disaster and flooding impacts will be presented, including parks from Sidmouth, U.K. and Asheville, NC. This presentation will highlight how stormwater park designs may be submitted by communities for disaster recovery and mitigation funding for construction.

*Speakers: Jason Bernagros and Dustin Atchison - Jacobs*

## Track - Programs, Permits, & Compliance - Carson 3-4

### Public Facing Stormwater Mapping

More and more stormwater managers transparently manage their stormwater systems through web-based mapping tools. Here in Washington State, teams are putting together a Web Map that includes as many public facing stormwater system feature services as they can find. At the Washington State Department of Ecology, teams use web-based mapping tools to help manage their stormwater retrofit grant program. At the Department of Ecology, teams rely on public facing stormwater mapping data. The information they gather helps better understand the value of existing infrastructure to help guide retrofitting and maintenance priorities. Through simple overlay analysis, professionals can evaluate the relative stormwater management influence on receiving waters and/or groundwater. What teams learn informs coordination with internal and external partners. The web map is useful to the grant program and to many internal partners here at Ecology: NPDES MS4 permit managers, spill responders, TMDL permit managers, the Toxics Cleanup Program, and Shorelines Program. In this presentation, speakers will share how this effort has improved the understanding of municipal stormwater systems and the need for a more comprehensive dataset.

*Speaker: David Mora and Rachel Yonemura - Department of Ecology, Washington State*



Join the Stormwater Solutions' team for lunch on the final day of the conference as we recognize our 2024 Top Projects' winners. Each year, SWS invites industry

professionals to nominate the stormwater and erosion control projects they deem most remarkable and innovative for recognition in the print magazine and online at [www.stormwater.com](http://www.stormwater.com). During lunch, you will be able to hear a brief summary of each project and congratulate this year's winners.



# CONFERENCE PROGRAM

THURSDAY, AUGUST 29, 2024

1:45 PM – 2:30 PM

## Track - Flood Modeling & Mitigation - Crystal 1-2

### Results from a National Assessment of Urban Stormwater Runoff Potential

Urban stormwater runoff capture has received heightened interest from municipal water providers in the water-scarce western United States. This presentation will focus on the modeling approach and tools used and a discussion of volumetric estimates of stormwater runoff across geographies. The presentation will have four components: 1) A description of the TELR model mechanics and inputs; 2) Volumetric stormwater runoff estimates at the national level, disaggregated across multiple spatial scales; 3) The appropriate context by which to view these results and discuss key considerations in interpreting the estimates for specific geographies; and 4) An examination and discussion of the results in a policy context, using case examples. Major themes of this discussion will include non-water supply drivers for urban stormwater runoff capture, potential co-benefits, and recommendations for future analyses and policy action. This presentation will cover the methodology and results of a national-scale assessment of volumetric urban stormwater runoff potential in urban areas of the United States. The presentation will cover results for a range of spatial scales, highlighting specific areas with compelling cases for further consideration of stormwater capture as a water supply strategy.

**Speaker:** *Bruk Berhanu - Pacific Institute*

## Track - Transportation & Construction Stormwater - Crystal 3-4

### You Can't Perform What You Don't Know: Industrial Stormwater Management Overview

With the rise of industrial stormwater permits being required and enforced across the country, more and more companies and industries are falling under regulatory oversight. This presentation covers the basics of industrial stormwater management under what is often called the Multi-Sector General Permit or the Industrial Stormwater Permit. We will discuss the major components and requirements for all sites and glance at a few distinct industries for an example of how each sector of the permit is designated with necessary control measures aimed at reducing the discharge of potential pollutants from each unique industrial process.

**Speaker:** *Brad Flack - StormwaterONE*



# EXHIBITING INFORMATION

## WHO SHOULD EXHIBIT?

### TYPES OF JOB FUNCTIONS

- Federal, State, & Local Agencies
- Consultants
- Engineers
- Designers
- Industry Associations
- Educational Institutions
- Sweeper Manufacturers
- Software Providers
- Stormwater Equipment Manufacturers
- Storage/Detention Systems Distributors

### PROVIDERS OF THESE PRODUCTS OR SERVICES:

- Sealants
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- Oil/Water Separator Systems
- Pipes/Valves
- Liners
- CSO Systems
- Skimmers
- Flood-Control Systems
- Vacuum Equipment

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## TO BOOK EXHIBIT SPACE OR A SPONSORSHIP, CONTACT:

### Wendy Posey

Sales Account Executive

E: [wposey@endeavorb2b.com](mailto:wposey@endeavorb2b.com)

P: (847) 391-1055

### Larry Scott

Event Sales Associate

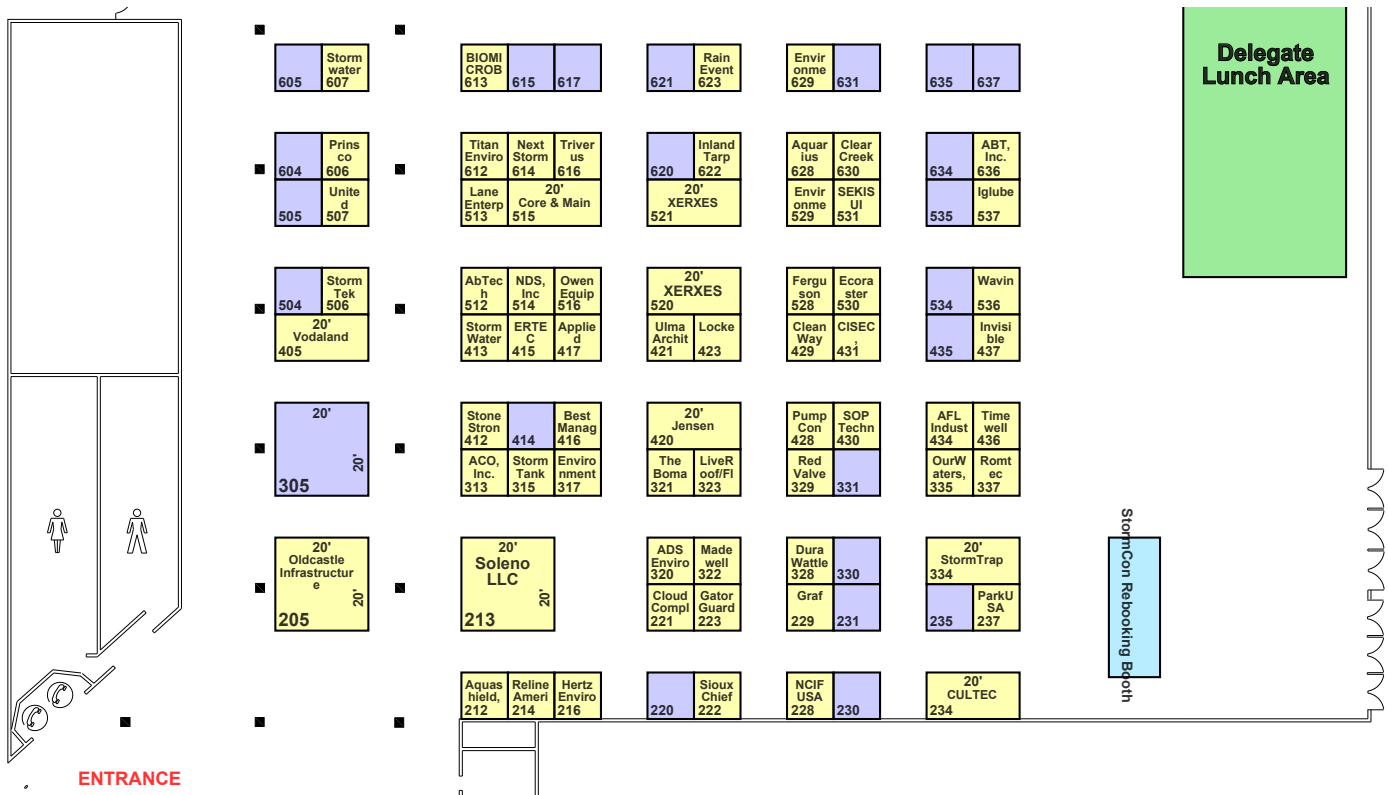
E: [lscott@endeavorb2b.com](mailto:lscott@endeavorb2b.com)

P: (480) 893-9911



# FLOORPLAN AND EXHIBITOR LIST

\*Floorplan as of 4/30; to book your space contact Wendy Posey or Larry Scott.



Company	Booth
ABT Inc	636
AbTech Industries Inc	512
ACO Inc	313
ADS Environmental Services	320
AFL Industries a Division of RGF Environmental Group Inc	434
Applied Polymer Systems	417
Aquarius Systems	628
Aquashield Inc	212
Best Management Products	416
BIOMICROBICS	613
CISEC Inc. / Ecopliant Environmental	431
CleanWay Environmental Partners Inc	429
Clear Creek System	630
CloudCompli	221
Core & Main	515
CULTEC	234
DuraWattle	328
Ecoraster North America	530
Environmental Composites Inc	317
Environmental Protection Services LLC	529
ERTEC ENVIRONMENTAL SYSTEMS LLC	415
Ferguson Waterworks	528
Gator Guard Environmental Products Inc	223
Graf	229
Hertz Environmental	216
Iglube	537
Inland Tarp & Liner	622
Invisible Structures	437
Jensen Precast	420
Lane Enterprises	513
LiveRoof / Florasource Ltd	323
Locke	423
Madewell Products Corporation	322
NCIF USA Corp.	228
NDS Inc	514
Next Stormwater Solutions	614
Oldcastle Infrastructure	205
OurWaters LLC	335
Owen Equipment	516
ParkUSA	237
Prinsco	606
PumpCon International Inc	428
Rain Event Tracker	623
Rain Guardian Pretreatment Chambers	530
Red Valve Company	329
Reline America Inc	214
Romtec Utilities	337
SEKISUI CHEMICAL CO. LTD	531
Sioux Chief Manufacturing	222
Soleno LLC	213
SOP Technologies	430
Stone Strong LLC	412
Storm Water Systems	413
Stormcrete Precast Porous Concrete Panels	530
StormTank	315
StormTek	506
StormTrap	334
Stormwater Permit Coordinating Committee (SWPCC)	607
The Bomanite Company	321
Timewell Drainage Products	436
Titan Environmental USA	612
Triverus	616
Ulma Architectural Solutions	421
United Storm Water	507
U.S. Environmental Protection Agency	629
Vodaland	405
Wavin	536
XERXES	520,521

# HOTEL INFORMATION

To make your hotel reservation, contact the official housing company of StormCon 2024 or [click here](#). Discounted rates are only available through our official housing company and cannot be guaranteed after July 27, 2024, or until the conference room blocks are filled.

OFFICIAL EVENT HOTEL

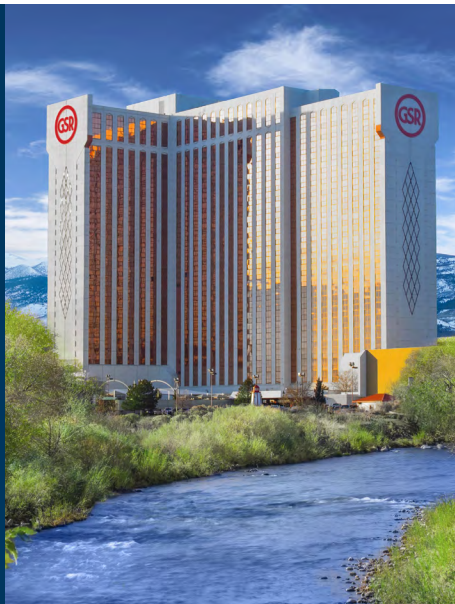
## GRAND SIERRA HOTEL & CASINO

2500 E 2ND STREET,  
RENO, NV 89595

\$119 – Single

*\*Applicable taxes and fees will be added to room rates – currently 17.46% room tax and tourism PID fee, 0.9% state cost recovery fee*

<https://www.stormcon.com/sc24/hotel-info>



### AREA AIRPORTS

## RENO-TAHOE INTERNATIONAL AIRPORT (RNO)

Airport Phone: (775) 328-6400

Hotel Distance: 1.8 miles

Airport Transportation:

- Uber – Approximately \$20
- Taxi – Approximately \$20
- This hotel **does** offer a shuttle service. It runs daily from 4:30am – 12:15am (every 30 minutes). Shuttle leaves GSR at the top (:00) and bottom (:30) of the hour. They drop off and pick up at the Main Entrance of GSR and outside the D doors north of baggage claim at the airport.

## HOTEL PARKING

- On-Site Parking – \$30 Daily (plus tax per night)
- Valet is open 24/7 for full service at the porte-cochere
- Electric Car Charging Stations

## DEPOSIT INFORMATION

The credit card used to guarantee your reservation will not be charged in advance unless you cancel your reservation 72 hours or less prior to your confirmed arrival date.

## CANCELLATION INFORMATION

Reservations must be canceled more than 72 hours prior to the confirmed arrival date to avoid a charge of one night's room & tax.

## HOW TO RESERVE:

Phone: 800-501-2651

Web: [Click here to book your hotel room!](#)

*\*If you choose to call and make your reservation, you must let them know that you are booking your stay for the StormCon conference to get the discounted rate.*

**\*\*In an effort to ensure that all conference registrants get a hotel reservation at the host hotel, all hotel reservations without an accompanying conference registration will be dropped by July 1, 2024.**

# THANK YOU SPONSORS!

## 2024 SUPPORTING ORGANIZATIONS



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- Exhibit Hall Aisle Signage
- Hotel Key Card

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- Ice Cream Social
- Craft Brew Tasting

### NETWORKING:

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- Networking Receptions
- Breakfast Club Presentation
- Coffee Breaks
- Bus Tour

### DIGITAL MARKETING:

- Online Registration / Priority Pass
- Pre & Post Show Emails

For more information on sponsorship opportunities, please contact:

### Wendy Posey

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E: wposey@endeavorb2b.com  
P: (847) 391-1055

### Larry Scott

Event Sales Associate  
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