

# Inspiring Solutions Together

**CASQA 2024  
Annual Conference**

October 21-23, 2024

**SAFE Credit Union  
Convention Center**  
Sacramento, CA



**California Stormwater Quality Association**  
*Dedicated to the Advancement of Stormwater Quality Management, Science and Regulation*

**REGISTER NOW**

Join us!

We look forward to seeing you October 21-23, 2024, in Sacramento for our 20th Annual Conference.

Register by September 9th for the best pricing. Late fees apply starting September 10th.



# CASQA 2024 Annual Conference

## Contents

- 3 Introduction
- 5 Sacramento
- 7 Agenda-at-a-Glance
- 8 Technical Tracks & Field Tour
- 10 Plenary Session
- 10 Keynote Address
- 10 Capstone Session
- 11 Agenda: Sunday – Monday
  - Registration
  - Welcome Happy Hour
  - Plenary Session
  - Field Tour
- 13 Agenda: Monday (continued)
  - Technical Program
  - Poster Session
  - Networking Event
- 16 Agenda: Tuesday
  - Technical Program
  - Poster Session
  - Exhibitor Reception
- 20 Agenda: Wednesday
  - Technical Program
  - Poster Session
  - Exhibitor Prize Drawing
  - Capstone Session
- 21 Poster Presentations
- 22 Sponsors & Exhibitors
- 23 Attendee Registration
- 24 Sponsorship, Exhibiting, & Advertising
- 25 Hotel & Travel
- 26 CASQA Membership & Support

## Inspiring Solutions Together

Over the past twenty years, CASQA has created a space where the preeminent thought leaders in California gather to share ideas, engage in community, and drive forward the evolution of sustainable stormwater management. Our theme for CASQA 2024, *Inspiring Solutions Together*, captures the core qualities that make CASQA and our annual conference exceptional. We inspire each other. We focus on solutions. And we do this critically important work together.

We invite you to be part of this collective experience, where your knowledge, expertise, and passion can contribute to shaping the next wave of stormwater solutions in California and beyond. Together, we can inspire change and make a lasting impact.

## Highlights

- In-depth multi-track educational program addressing a wide range of current stormwater topics
- Plenary Session including the CASQA Award presentations and Keynote Address
- Capstone Session with a discussion featuring an exceptional lineup of California stormwater and water management leaders
- Field Tour (limited to 48 participants)
- Exhibitors offering consulting and professional services, public education and outreach, legal services, stormwater capture, pollution prevention, and treatment best management practices
- Multiple networking opportunities with fellow attendees including local, state, and federal decision makers, stormwater program coordinators, contractors, consultants, engineers, lawyers, scientists, and planners
- Post-conference access to the session recordings included with a Full Conference Pass





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# Sacramento

Courtesy of SAFE Credit Union Convention Center



## SAFE Credit Union Convention Center

This state-of-the-art convention center located across from the State Capitol reopened in the spring of 2021 after a stunning renovation and expansion.

[SAFE Credit Union Convention Center](#)

1401 K St  
Sacramento, CA 95814

## Things To Do in Sacramento

Located at the confluence of the Sacramento and American Rivers and known as the City of Trees, Sacramento is the capital of the Golden State of California as well as the capital of America's [Farm-to-Fork](#) movement, linking local farms and restaurants. The area blends the past of the [Old Sacramento Waterfront](#) historic district with the present-day revitalized Downtown Commons known as [DOCO](#). Come early or stay after the conference to take advantage of nearby [attractions and activities](#) for all ages. Sacramento enjoys average temperatures in October of 79°F high / 53°F low.

Courtesy of SAFE Credit Union Convention Center

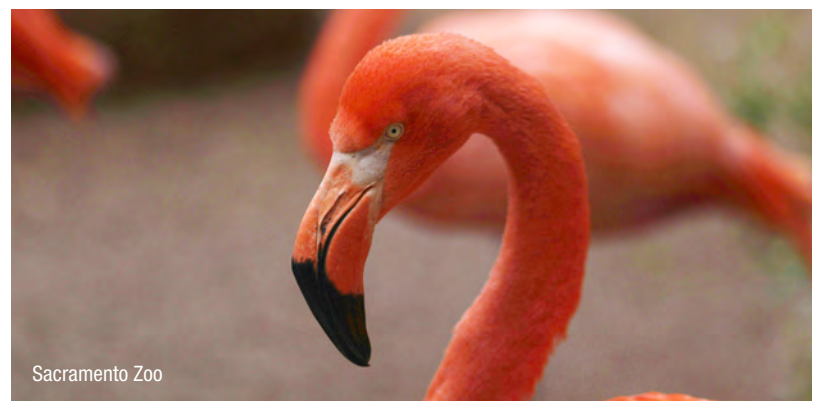


## Visit Sacramento Badge Pass

Scan or click to access a collection of Sacramento attractions, retailers, and options for your evening dining that offer deals and discounts.



Courtesy W K scalgirl, [unsplash.com](#)



Photographer: Hannah Tu, [unsplash.com](#)

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# Agenda-at-a-Glance

For complete details see the Agenda on pages 11 – 21.

Locations are in the SAFE Credit Union Convention Center unless stated as Offsite.

## SUNDAY OCTOBER 20

### Conference Early Check-In & Welcome Happy Hour

4pm - 6pm | West Lobby, Level 1

A chance to beat the Monday morning rush by checking in early at the conference and to greet fellow attendees before heading out to dinner (cash bar)

## MONDAY OCTOBER 21

### Plenary Session

8:30am - 10:30am | Ballroom A1, Level 2

Opening Remarks, CASQA Award presentations, Keynote Address

### Field Tour

11:00am - 4:00pm | Offsite: SacSewer EchoWater Resource Recovery Facility

Limited to 48 participants and by ticket only (tickets are not available onsite)

### Multi-Track Technical Sessions

11:00am - 4:55pm | Ballrooms A2-A11 & Meeting Room 1, Level 2

### Exhibit Hall & Poster Display

11:55am - 6:00pm | Exhibit Hall A, Level 1

### Networking Event

6:00pm - 9:00pm | Offsite: Punch Bowl Social - 500 J St, Suite 100, Sacramento

Limited to individuals 21 and older and by ticket only (tickets are not available onsite); bus transportation provided (dinner, cash bar)

## TUESDAY OCTOBER 22

### Exhibit Hall & Poster Display

8:00am - 7:00pm | Exhibit Hall A, Level 1

### Multi-Track Technical Sessions

8:30am - 4:55pm | Ballrooms A2-A11 & Meeting Room 1, Level 2

### Exhibitor Reception

5:00 pm - 7:00pm | Exhibit Hall A, Level 1

Exhibitors and conference attendees (appetizers, cash bar)

## WEDNESDAY OCTOBER 23

### Exhibit Hall & Poster Display

8:00am - 11:15am | Exhibit Hall A, Level 1

### Multi-Track Technical Sessions

8:30am - 12:10pm | Ballrooms A2-A11 & Meeting Room 1, Level 2

### Exhibitor-Sponsored Prize Drawing

10:30am - 11:15am | Exhibit Hall A, Level 1

To enter the drawing attendees must visit 10 exhibit booths and drop off their completed drawing card at the CASQA registration desk by 9:00am Wednesday (must be present to win)

### Capstone Session

1:30pm - 2:30pm | Ballroom A1, Level 2

All-attendee event with a discussion dedicated to advancing the State's Water Supply Strategy featuring California stormwater and water management thought leaders.



# Technical Tracks & Field Tour

## BMP and Control Measure Effectiveness Assessment

This track will focus on structural and non-structural BMP performance assessment methods, tools, and guidance for treatment and source control practices. Assessment methods may include performance monitoring, effective operation and maintenance practices, data-gap analyses, special studies, or other novel approaches.

## Climate Change, Resiliency, and Sustainability

This track will look at climate resiliency, sustainable practices, and legal requirements and opportunities. Topics include climate change adaptation and mitigation, water supply, water rights, groundwater recharge, energy, watershed management, integrating climate resiliency with green stormwater infrastructure, and wildfire planning.

## Construction General Permit

This track will focus on the 2022 Construction General Permit and will include discussions on stormwater related construction challenges including: innovative BMPs and controls; Total Maximum Daily Load (TMDL) implementation; passive treatment; challenges and solutions to site management; implementing cost controls; resolving monitoring and sampling issues; navigating the different challenges of linear underground and overhead projects; and other implementation experiences.

## Equity and Environmental Justice

This track will focus on the connections between the business of water management and its direct and indirect impact on underserved communities and will include: discussions of current programs; lessons learned; effective engagement of underserved communities; and how to bring diversity, equity, and inclusion into all aspects of our work in stormwater management.

## Funding

This track will feature approaches to funding and financing stormwater programs and infrastructure. This track also includes asset management - tracking for capitalization, schedule for replacing aging infrastructure, and its role in full stormwater program integration.

## Green Infrastructure and Nature-Based Solutions Design and Maintenance

This track will highlight innovations in the design and maintenance of green infrastructure and nature-based solutions that improve water quality, protect natural waterways, prevent flood impacts, recharge groundwater supplies, and/or capture stormwater. Topics will focus on

planning efforts, pilot studies, design lessons learned, operation and maintenance challenges / solutions, and adaptive management strategies after installation.

## Industrial General Permit

This track will cover various aspects of the Industrial General Permit such as pollutant source assessments, monitoring and reporting, Exceedance Response Action requirements, BMPs, TMDLs, water quality based corrective actions, compliance options, permit participation initiatives, and Clean Water Act citizen lawsuits.

## Modeling and Data Tools

This track will focus on modeling of all types, including hydrologic, water quality, and geographic information systems (GIS). Innovative data collection, visualization, assessment tools, and quantification methods and metrics will be presented, including how data tools from other industries may be repurposed for use in the stormwater arena.

## Monitoring and Special Studies

This track will highlight innovations in monitoring methodologies or monitoring programs and the development and implementation of special studies such as those investigating pollutant source, fate, and transport, including how monitoring results can be used to inform stormwater management.

## Municipal Programs

This track will focus on the challenges and solutions faced while implementing a municipal stormwater program for Phase I and Phase II agencies. The track will address emerging issues for municipalities such as workforce development, monitoring program challenges, unsheltered communities, cost reporting, and asset management.

## Outreach, Engagement, and Education

This track will share ideas for creating and implementing innovative stormwater outreach projects/programs that are designed to educate the community about stormwater as a resource and what we can do to protect local waterbodies and watersheds. Projects/programs can include efforts such as media campaigns, social media strategies, educational programs for youth, rebate programs, engaging with underserved communities, and measuring the effectiveness of outreach and education activities in increasing awareness and changing behavior.

## Policy, Permitting, and Legislation

This track will include discussions of policy and legislative initiatives and their impacts on stormwater, updates from regulators and legal experts, opportunities for leveraging partnerships, and examples and case studies

of legislative engagement and innovative ways that regulatory obligations can be met. This track includes new regulatory requirements and developments around the new commercial, industrial, and institutional (CII) Permit.

## Pollutants of Concern and True Source Control

This track will focus on priority pollutants, contaminants of emerging concern, and true source control activities, including regulatory opportunities and constraints, new scientific advancements, and management methods. The topics could include bacteria, current use pesticides, trash, biointegrity and biostimulatory substances, microplastics, PFAS, copper, zinc, PCBs, and other constituents of concern.

## Stormwater Capture and One Water Collaborations

Stormwater capture protects our water resources while providing investments in communities, flood control, green infrastructure, street beautification, sanitation, water conservation, and groundwater recharge. This track focuses on how stormwater capture builds partnerships across entities including water districts, wastewater agencies, municipalities, businesses, community development organizations, industrial entities, schools, and Phase II Non-Traditional permittees. This track includes successes and lessons learned from existing and developing One Water programs.

## Field Tour

**Offsite:** Mon, Oct 21, 11am – 4pm

Limited to 48 participants and by ticket only (\$30). Tickets may only be purchased online when registering for the conference; not available onsite.

### **Tour Location:** [SacSewer EchoWater Resource Recovery Facility](#)

A significant portion of Downtown Sacramento drains to a combined sewer and stormwater system that eventually drains to the SacSewer EchoWater Resource Recovery Facility. This facility provides tertiary treatment for 1.6 million customers through the Sacramento region and, by 2027, a portion of that water will be diverted to supply up to 50,000 acre-feet (roughly 16 billion gallons) of drought-resistant recycled water each year and bring other benefits to the region. Although the facility is primarily a wastewater treatment plant, the infrastructure available on site can handle up to 60 million gallons per day from the City's combined sewer system. Note that this tour is separate from the City of Sacramento's Combined Sewer System facilities.





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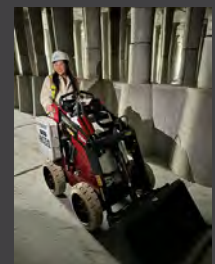


## MANAGING STORMWATER UNDERGROUND



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- Easy to install
- Safer to enter
- Easy to access & maintain
- HS20 & seismic design



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# Plenary Session

The Plenary Session opens the conference on Monday including the Keynote Address and CASQA Award presentations, which recognize individuals, projects, and programs that are exemplary examples of advancing sustainable stormwater management.



Photographer: Melissa Jacobs



## Keynote Address: Letitia Grenier

**Director – Water Policy Center and Senior Fellow  
Public Policy Institute of California (PPIC)**

Letitia Grenier is director of the PPIC Water Policy Center, where she is also a senior fellow. She previously directed the Resilient Landscapes Program of the San Francisco Estuary Institute, where she served as a resource for local and national media; advised government and agency staff; and worked with partners to conserve California's living resources by developing landscape-scale, collaborative, science-based visions and solutions. She was also the 2020 PPIC CalTrout Ecosystem Fellow and an adjunct fellow with the PPIC Water Policy Center. Throughout her career, she has worked as a proponent and leader of science-based

management. In 2019 and 2015, she served as the science lead for the State of the Estuary Report, and she was also the science lead for the 2015 update to the Baylands Ecosystem Habitat Goals, heading a team of over 200 environmental scientists, managers, and regulators to develop recommendations for restoring and maintaining the health of the Bay's tidal wetlands in the face of rising sea levels and other stressors. She completed her PhD at University of California, Berkeley, where her research concentrated on the ecology of the Bay-Delta estuary system.

# Capstone Session

The Capstone Session is one of the premier conference events, where visionary leaders come together to engage in transformative discussions that impact the future of sustainable stormwater management. This year, the Capstone Session is dedicated to advancing the ambitious goals of the State's Water Supply Strategy. This all-attendee event will feature an exceptional lineup of thought leaders and promises to be a powerful conclusion to the conference, leaving participants inspired and empowered to drive change.



**Anna Caballero**  
Senator – 14th District  
California State Senate



**Joaquin Esquivel**  
Chair  
California State Water  
Resources Control Board



**Karla Nemeth**  
Director  
California Department  
of Water Resources  
Governor Newsom's Advisor  
on the State's water priorities



**Karen Cowan**  
Executive Director  
CASQA



# Agenda

Locations are in the SAFE Credit Union Convention Center unless stated as Offsite.

## SUN OCT 20

4:00p - 6:00p **CONFERENCE SERVICES**

**LOCATION:** WEST LOBBY, LEVEL 1  
Beat the Monday morning rush by checking in at the CASQA Registration Desk on Sunday.

4:00p - 6:00p **WELCOME HAPPY HOUR**

**LOCATION:** WEST LOBBY, LEVEL 1  
An opportunity to break the ice before the official start of the conference (cash bar).

## MON OCT 21

7:30a - 8:30a **COFFEE AND REFRESHMENTS** **LOCATION:** BALLROOM A1 FOYER, LEVEL 2 WEST

7:30a - 5:30p **CONFERENCE SERVICES** **LOCATION:** WEST LOBBY, LEVEL 1

8:30a - 10:30a **PLENARY SESSION** **LOCATION:** BALLROOM A1, LEVEL 2 WEST

**WELCOME AND OPENING REMARKS**

Rob Carson  
*Chair, CASQA Board of Directors*  
  
Karen Cowan  
*Executive Director, CASQA*

**CASQA AWARDS**

BOARD OF DIRECTORS AND EXECUTIVE PROGRAM COMMITTEE RECOGNITION  
OUTSTANDING SERVICE  
EXHIBITOR RECOGNITION  
OUTSTANDING STORMWATER PROGRAMS AND PROJECTS  
GEOFF BROUSSEAU LEADERSHIP AWARD

**KEYNOTE**

Letitia Grenier  
*Director – Water Policy Center and Senior Fellow,  
Public Policy Institute of California (PPIC)*

10:30a - 11:00a **BREAK** **LOCATION:** BALLROOM A1 FOYER, LEVEL 2 WEST

8:00a - 4:00p **FIELD TOUR** **LOCATION:** OFFSITE - SacSewer EchoWater Resource Recovery Facility  
Limited to 48 participants by pre-paid ticket (lunch included); tickets are not available onsite.



Photographer [Melissa Jacobs](#).

# Networking Event

## **Punch Bowl Social** Monday, Oct 21, 6 – 9pm

A unique opportunity to socialize after hours, enjoy food and entertainment, and continue the stormwater discussion (dinner; cash bar). One ticket is included with a Full Conference Pass.

Add-on ticket for a 1-Day Conference Pass or attendee guest can be purchased online until Fri Oct 11, 5pm PT (\$200).

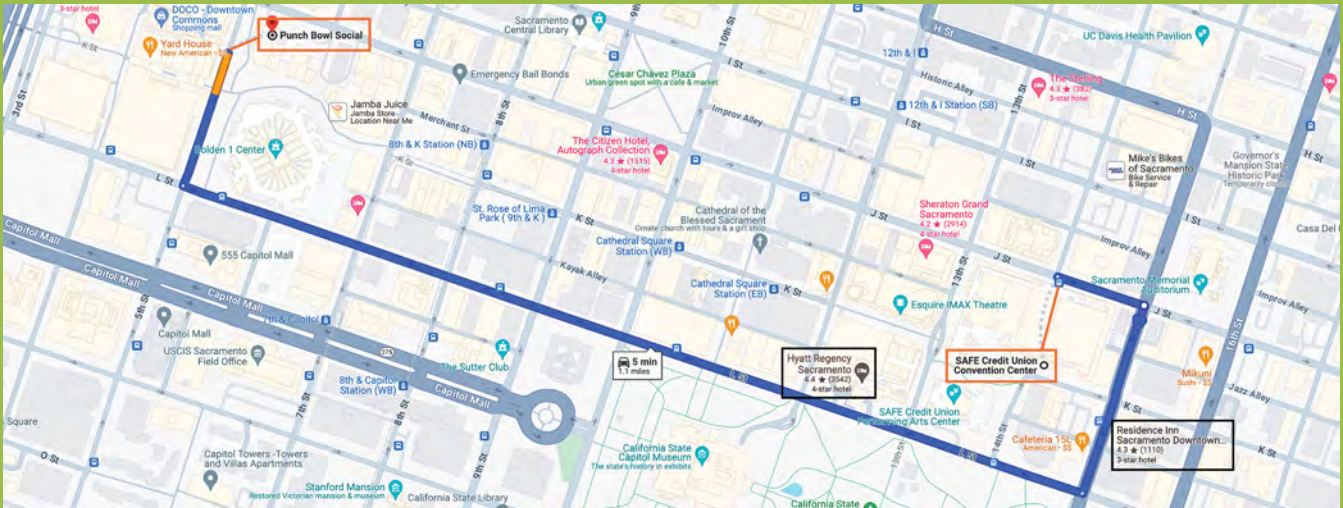
*Tickets are not available onsite.*

*Limited to individuals 21 and older.*

*Bus pick-up/drop-off: SAFE Credit Union Convention Center.*



Courtesy of carclean.com



Courtesy of google.com/maps

# Earn Professional Development Credits

Professional Development Verification forms are available at Conference Services.

## **2024 Participating Organizations** (pending approval of the conference program):

- Certified Erosion, Sediment and Stormwater Inspector (CESSWI)
- Certified Inspector Sediment and Erosion Control (CISEC)
- Certified Professional in Erosion and Sediment Control (CPESC)
- Certified Professional in Industrial Stormwater Management (CPISM)
- Certified Professional in Municipal Stormwater Management (CPMSM)
- Certified Professional in Stormwater Inspection (CPSWI)
- Certified Professional in Stormwater Quality (CPSWQ)
- California Water Environment Association (CWEA)
- Professional Engineers (PE)



Photographer: Rand Larson

[LEARN MORE](#)



# MON OCT 21 CONTINUED

SESSION <b>1</b>	TRACK: Modeling and Data Tools	TRACK: Funding	TRACK: Municipal Programs	TRACK: Monitoring and Special Studies	TRACK: Stormwater Capture and One Water Collaborations	TRACK: BMP and Control Measure Effectiveness Assessment	TRACK: Construction General Permit
ROOM	BALLROOM A2, LEVEL 2 WEST	BALLROOM A3-A4, LEVEL 2 WEST	BALLROOM A5-A6, LEVEL 2 WEST	BALLROOM A7, LEVEL 2 WEST	BALLROOM A8-A9, LEVEL 2 WEST	BALLROOM A10-A11, LEVEL 2 WEST	MEETING ROOM 1, LEVEL 2 WEST
MODERATOR	Jian Peng Orange County Public Works	David Smith Water Innovation Services	Rob Carson County of Marin	Bonnie de Berry EOA, Inc.	Maureen Kerner Office of Water Programs at Sacramento State	Tony Hancock Black & Veatch	Joseph Draper CASQA
11:00a - 11:25a	<i>Dynamic GIS Suitability Model for Identifying Regional BMP Opportunities</i>  Tony Howze PACE Advanced Water Engineering	<b>PANEL</b> <i>Stormwater Funding Options and Strategies- What Are the Currently Available Puzzle Pieces?</i>  Panelists: Jennifer Toney State Water Resources Control Board	<i>Small Municipal Separate Storm Sewer System (MS4) General Permit Reissuance</i>  Paul Levy State Water Resources Control Board	<i>Use of LiDAR Data Collection as an Effective Tool for Tracking and Identifying Streams Vulnerable to Erosion for Restorative Action</i>  Jesse Aragon Orange County Public Works	<i>From Storms to Supply: Creating Frameworks to Integrate Stormwater Capture into Water Supply Planning</i>  Shannon Spurlock Pacific Institute	<i>What's Really in Your Bioretention System? A Survey of Specification Compliance and Impacts of Media QAQC</i>  Craig Fairbaugh Contech Engineered Solutions	<b>PANEL</b> <i>QSDs, QSPs, and ToRs – Discussion on the 2009 and 2022 CGPs</i>  Panelists: Brandon Roosenboom State Water Resources Control Board Sandy Mathews Larry Walker Associates
11:30a - 11:55a	<i>Put Street Sweeping on the Map: Optimize Effort and Track Water Quality Improvement With Stormwater GIS</i>  Gary Conley 2NDNATURE Software, Inc	Melissa Boudrye California Governor's Office of Emergency Services  Mike Dietl U.S. Bureau of Reclamation  Elizabeth Borowiec U.S. EPA, Region 9		<i>Evaluation of Phosphorous Loading To Support Water Supply Protection and Control Algae in Lake Cachuma</i>  Jared Ervin Geosyntec Consultants	<i>Developing a OneWatershed Framework in San Mateo County</i>  Reid Bogert City/County Association of Governments of San Mateo County	<i>Media Cation Exchange Capacity (CEC) as a Predictor of Cu Sorption in Biofiltration</i>  Danhui Xin Southern California Coastal Water Research Project	Kadi Whiteside Southern California Edison  Andrew Sidor Michael Baker International

11:55a - 1:30p	<b>LUNCH</b>	<b>LOCATION:</b> BALLROOM A1, LEVEL 2 WEST					
11:55a - 6:00p	<b>EXHIBIT HALL OPEN</b>	<b>LOCATION:</b> EXHIBIT HALL A, LEVEL 1 WEST					
11:55a - 6:00p	<b>POSTER SESSION</b>	<b>LOCATION:</b> EXHIBIT HALL A, LEVEL 1 WEST					

SESSION <b>2</b>	TRACK: Modeling and Data Tools	TRACK: Funding	TRACK: Municipal Programs	TRACK: Monitoring and Special Studies	TRACK: Stormwater Capture and One Water Collaborations	TRACK: BMP and Control Measure Effectiveness Assessment	TRACK: Construction General Permit
ROOM	BALLROOM A2, LEVEL 2 WEST	BALLROOM A3-A4, LEVEL 2 WEST	BALLROOM A5-A6, LEVEL 2 WEST	BALLROOM A7, LEVEL 2 WEST	BALLROOM A8-A9, LEVEL 2 WEST	BALLROOM A10-A11, LEVEL 2 WEST	MEETING ROOM 1, LEVEL 2 WEST
MODERATOR	Jian Peng Orange County Public Works	Daniel Apt Olauanu	Sandy Mathews Larry Walker Associates	Bonnie de Berry EOA, Inc.	Maureen Kerner Office of Water Programs at Sacramento State	Tony Hancock Black & Veatch	Kyla Wood Applied Polymer Systems, Inc.
1:30p - 1:55p	<i>Novel Approaches To Support for Large-Scale Regional Hydrology and Water Quality Watershed Modeling: Lessons Learned Through Sensitivity and Uncertainty Analyses</i>  John Riverson Paradigm Environmental	<b>PANEL</b> <i>Assembling the Puzzle- Developing Comprehensive Strategies for Local Stormwater Program Funding</i>  Panelists: Reid Bogert City/County Association of Governments of San Mateo County	<i>Building on a Successful Private Property Incentives Program: Treating Impervious Surface on HOA Land</i>  Grant Sharp Orange County Public Works	<i>Stormwater Outfall and Receiving Water Trash Monitoring To Verify Trash Reductions From MS4s</i>  Paul Randall EOA, Inc.	<i>OASIS Water Resource Center</i>  Laura Rocha Moulton Niguel Water District	<i>Quantifying the Microplastic Removal Efficacy of Bioretention Sand Filtration</i>  Hassan Davani San Diego State University	<b>TRAINING WORKSHOP (SESSIONS 2-3)</b> <i>Passive Treatment Technologies</i>  Speakers: Brian Free and Kyla Wood Applied Polymer Systems, Inc. Matthew Renaud NV5
2:00p - 2:25p	<i>Leveraging NASA Data Products and Tools for Stormwater Management</i>  Gurjot Kohli Stantec	Craig Foster City of Santa Ana  Heidi Niggemeyer City of Salinas  Kenneth Johansson California Department of Transportation	<i>Results of a Private Property Incentive Program: Proof It Makes an Impact and Brings New Funding</i>  Scott Norris County of San Diego	<i>Assessing the Ecological Impact of Instream Diversions in the North Coast</i>  Jacob Morgan Paradigm Environmental	<i>Stormwater to Potable – a Blended US/International Perspective on Stormwater Recycling</i>  Julia Schmitt Carollo Engineers	<i>Measuring Runoff Water Quality Improvement From Street Sweeping in Southern California</i>  Elizabeth Fassman-Beck Southern California Coastal Water Research Project	

# MON OCT 21 CONTINUED

SESSION <b>3</b>	TRACK: Modeling and Data Tools	TRACK: Monitoring and Special Studies	TRACK: Municipal Programs	TRACK: Equity and Environmental Justice	TRACK: Stormwater Capture and One Water Collaborations	TRACK: BMP and Control Measure Effectiveness Assessment	TRACK: Construction General Permit
ROOM	BALLROOM A2, LEVEL 2 WEST	BALLROOM A3-A4, LEVEL 2 WEST	BALLROOM A5-A6, LEVEL 2 WEST	BALLROOM A7, LEVEL 2 WEST	BALLROOM A8-A9, LEVEL 2 WEST	BALLROOM A10-A11, LEVEL 2 WEST	MEETING ROOM 1, LEVEL 2 WEST
MODERATOR	Geremew Amenu Los Angeles County Public Works	Garth Engelhorn NV5	Lori Pettegrew Geosyntec Consultants	Leneyde Chavez Carollo Engineers	Jim Rasmus Stantec	Lisa Austin Geosyntec Consultants	Kyla Wood Applied Polymer Systems, Inc.
2:35p - 3:00p	<i>High Resolution Calculation of Annual Mass Loads and Associated Error for Urban Runoff Discharge – Comparison of Deterministic, Stochastic, and Simplified Methods</i> Brian Laurenson Larry Walker Associates	<i>The San Diego River Investigative Order: A Synthesis of Research into Sources of Human Fecal Pollution</i> Ken Schiff Southern California Coastal Water Research Project	<i>Five Keys to Building Effective Regional Training Programs: Lessons From the Pacific Northwest</i> Rebecca Dugopolski Herrera Environmental Consultants	<i>Safe, Clean Water Program – Equity in Stormwater Investments</i> Mike Antos Stantec	<i>Socioeconomic Value of Urban Stormwater</i> Joseph Draper CASQA	<i>The Hydraulics of Flow Through Trash Screens: Are We Doing the Hole Thing Wrong?</i> Julia Watson EnviroPod	<b>TRAINING WORKSHOP</b> continued
3:05p - 3:30p	<i>Can Distributed Green Infrastructure Be Used To Meet Flood Mitigation Targets?</i> Caroline Burger Carollo Engineers	<i>Estimating Wastewater Exfiltration From Sanitary Sewers and Fecal Loading to Urban Stormwater</i> John Griffith Southern California Coastal Water Research Project	<i>Plan Checkers, the LID Sizing Tool Now Does Trash!</i> Scott Meyer Office of Water Programs at Sacramento State	<i>Community Engagement and Sustainability Analysis To Enhance Resiliency Against Compound Flooding</i> Hassan Davani San Diego State University	<i>Optimized Funding Success- City of LA's Multi-Benefit Stormwater Capture Projects</i> Sunshine Saucedo Carollo Engineers	<i>Unboxing: The BMP Evaluation Framework</i> Rachel Biller Los Angeles County Public Works	

3:30p - 4:00p **BREAK AND EXHIBITOR FOCUS** LOCATION: EXHIBIT HALL A, LEVEL 1 WEST

SESSION <b>4</b>	TRACK: Modeling and Data Tools	TRACK: Monitoring and Special Studies	TRACK: Municipal Programs		TRACK: Stormwater Capture and One Water Collaborations	TRACK: BMP and Control Measure Effectiveness Assessment	TRACK: Construction General Permit
ROOM	BALLROOM A2, LEVEL 2 WEST	BALLROOM A3-A4, LEVEL 2 WEST	BALLROOM A5-A6, LEVEL 2 WEST		BALLROOM A8-A9, LEVEL 2 WEST	BALLROOM A10-A11, LEVEL 2 WEST	MEETING ROOM 1, LEVEL 2 WEST
MODERATOR	Geremew Amenu Los Angeles County Public Works	Garth Engelhorn NV5	Lori Pettegrew Geosyntec Consultants		Chad Praul Environmental Incentives	Lisa Austin Geosyntec Consultants	Stacy Sinclair Flatiron West, Inc.
4:00p - 4:25p	<i>Tracking Real Time Rainwater and Runoff Capture – Planning and Tracking Tool for Stormwater Programs</i> Paul Caswell Hazen and Sawyer	<i>Pathogen Monitoring and Source Detection in the Petaluma River Watershed</i> Alisa Keenan Permit Sonoma	<i>Innovative Alternative Compliance for Enhanced Stormwater Management</i> Stuart Kuhn Hoch Consulting		<b>PANEL</b> <i>Private Property Incentive Programs: Why Are Agencies Investing Now?</i> Panelists: Scott Norris County of San Diego Grant Sharp Orange County Public Works Tia Flemming California Water Efficiency Partnership	<i>Turbidity as a Performance Indicator for Monitoring BMPs</i> Page Jordan U.S. EPA Office of Research and Development	<i>Passive Treatment: The Role of a Consultant and Promising Findings</i> Kaena Meyer Emerald Site Services, Inc.
4:30p - 4:55p	<i>Effectively Communicating a Complex Model: Lessons From the San Luis Rey Reasonable Assurance Demonstration</i> Ruth de la Rosa County of San Diego	<i>Collaborative Bacteria Monitoring and Public Outreach Messaging on Recreational Beneficial Uses in the Lower American River</i> Alisha Wenzel Central Valley Regional Water Quality Control Board	<i>Mapping Our Future: Collaborative Efforts in Updating San Diego County's MS4 Inventory</i> Andrew Thies Rick Engineering Company			<i>Sediment Removal and Recovery in Fabric Wrapped Chamber Systems</i> Vaikko Allen Contech Engineered Solutions	<i>The Essential Role of Performance Testing in Passive Treatment</i> Kyla Wood Applied Polymer Systems, Inc.

4:55p - 6:00p **EXHIBITOR FOCUS** LOCATION: EXHIBIT HALL A, LEVEL 1 WEST

6:00p - 9:00p **NETWORKING EVENT** OFFSITE LOCATION: PUNCH BOWL SOCIAL (500 J ST, SUITE 100, SACRAMENTO)  
Socialize after hours, enjoy food and entertainment, and continue the stormwater discussion (dinner; cash bar).  
One ticket is included with a Full Conference Pass. Add-on ticket for a 1-Day Conference Pass or attendee guest can be purchased (\$200) online until 5pm PT Oct.11. Tickets are not available onsite. Bus pick-up/drop-off: SAFE Credit Union Convention Center.





# What's your stormwater issue?



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Design with community in mind  
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GOLD STORMWATER STEWARD ^

# TUE OCT 22

7:30a - 8:30a	<b>COFFEE AND REFRESHMENTS</b>	LOCATION: EXHIBIT HALL A, LEVEL 1 WEST
7:30a - 5:30p	<b>CONFERENCE SERVICES</b>	LOCATION: WEST LOBBY, LEVEL 1
8:00a - 5:00p	<b>POSTER SESSION</b>	LOCATION: EXHIBIT HALL A, LEVEL 1 WEST
8:00a - 7:00p	<b>EXHIBIT HALL OPEN</b>	LOCATION: EXHIBIT HALL A, LEVEL 1 WEST

SESSION <b>5</b>	TRACK: Modeling and Data Tools	TRACK: Policy, Permitting, and Legislation	TRACK: Municipal Programs	TRACK: Outreach, Engagement, and Education	TRACK: Stormwater Capture and One Water Collaborations	TRACK: BMP and Control Measure Effectiveness Assessment	TRACK: Pollutants of Concern and True Source Control
ROOM	BALLROOM A2, LEVEL 2 WEST	BALLROOM A3-A4, LEVEL 2 WEST	BALLROOM A5-A6, LEVEL 2 WEST	BALLROOM A7, LEVEL 2 WEST	BALLROOM A8-A9, LEVEL 2 WEST	BALLROOM A10-A11, LEVEL 2 WEST	MEETING ROOM 1, LEVEL 2 WEST
MODERATOR	Yige Yang Paradigm Environmental	Dianne Franks SunGrid Solutions	Danielle Moss City of Davis	Ewelina Mutkowska CASQA	Dakota Keene Office of Water Programs at Sacramento State	Cory Jones CValdo Corporation	Roshan Christoph Sage Environmental
8:30a - 8:55a	<i>Modeling the Complexities of Water Supply, Water Demand, Instream Flows, and Sustainable Water Management in the Shasta River Watershed</i>  John Riverson Paradigm Environmental	<i>What's Next for the State Board: A BrainSTORMSng Session</i>  Amanda Magee State Water Resources Control Board	<i>The State of Gravel: Ubiquitous, Confusing, or Both</i>  Bill Flores HDR Engineering, Inc.	<i>Rain Ready California</i>  Joseph Draper CASQA	<i>Storm to Shade: Tucson's Innovative Green Infrastructure Program as a Hub for Effective Partnerships</i>  James MacAdam Tucson Water	<i>A Review of Long-Term Monitoring Data From Bioretention Stormwater BMPs</i>  Ron Rovanssek PACE Advanced Water Engineering	<i>PFAS in Stormwater: What We Know 5.0</i>  Brandon Steets Geosyntec Consultants
9:00a - 9:25a	<i>A Case Study on Complex Groundwater-Surface Water Modeling for Instream Flow Establishment and Algae TMDL Modification</i>  Al Preston Geosyntec Consultants	<i>Introduction to the STORMS Urban Stormwater Infiltration Policy</i>  Kelly Rodman State Water Resources Control Board	<i>Designing Trash Capture for O&amp;M (Instead of Checking a Box)</i>  Bryan Mahoney City of Sacramento Department of Utilities	<i>Practical Ideas and Solutions for Merging Brands: Embracing the Rain Ready California Initiative Locally</i>  Jeanette Huddleston Sacramento County Department of Water Resources	<i>From Watershed Plan to Community-Focused Capture Implementation: Building Stormwater Solutions That Cultivate Partnerships for Enduring Infrastructure Investments</i>  Brianna Martin County of San Diego	<i>From Risk to Resolution: A Collaborative and Comprehensive BMP Evaluation Effort for Bacteria Reduction in Newport Bay Watershed</i>  Stella Shao GSI Environmental Inc.	<i>Overview of Current Data of PFAS in Stormwater With a Focus on the Developed Annual Runoff Model To Estimate the Annual Mass Discharge of PFOS in Stormwater</i>  Mehak Gupta GSI Environmental Inc.

SESSION <b>6</b>	TRACK: Modeling and Data Tools	TRACK: Policy, Permitting, and Legislation	TRACK: Municipal Programs	TRACK: Outreach, Engagement, and Education	TRACK: Stormwater Capture and One Water Collaborations	TRACK: Green Infrastructure and Nature-Based Solutions Design and Maintenance	TRACK: Pollutants of Concern and True Source Control
ROOM	BALLROOM A2, LEVEL 2 WEST	BALLROOM A3-A4, LEVEL 2 WEST	BALLROOM A5-A6, LEVEL 2 WEST	BALLROOM A7, LEVEL 2 WEST	BALLROOM A8-A9, LEVEL 2 WEST	BALLROOM A10-A11, LEVEL 2 WEST	MEETING ROOM 1, LEVEL 2 WEST
MODERATOR	Yige Yang Paradigm Environmental	Tess Dunham Kahn, Soares & Conway	April Mendez Greenprint Partners	Danielle Peltier Michael Baker International	Dakota Keene Office of Water Programs at Sacramento State	Paul Caswell Hazen & Sawyer	Mehran Ebrahimi GSI Environmental Inc.
9:35a - 10:00a	<i>Transforming Stormwater Planning: An IDEA To Promote Sustainable and Climate Resilient Watersheds</i>  Ali Tasdighi Paradigm Environmental	<b>PANEL</b> <i>Stormwater Regulation in a Post Chevron Doctrine World: Implications and Consequences</i>  Panelists: Michael Lauffer (invited) State Water Resources Control Board	<b>PANEL</b> <i>Centering Community and Collaboration in Stormwater Program Design</i>  Panelists: Vicki Estrada Groundwork San Diego	<b>TRAINING WORKSHOP</b> <i>Leveraging AI in Media</i>  Danielle Peltier Michael Baker International	<i>Francisco Park Stormwater Reutilization</i>  Cody Anderson Sherwood Design Engineers	<i>Integrating Safe Routes to School and Green Streets Pilot Program in San Mateo County</i>  Reid Bogert City/County Association of Governments of San Mateo County	<b>TRAINING WORKSHOP</b> <i>PFAS in Stormwater: Coming to a Permit Near You</i>  Speakers: Jian Peng Orange County Public Works
10:05a - 10:30a	<i>A Decision Support System for Safe Clean Water Implementation: Modernization of Stormwater Project Planning, Data Management, and Administrative Reporting</i>  Paige Bistromowitz LA Sanitation & Environment	Shawn Haggerty (invited) Best Best & Krieger LLP	David Gibson State Water Resources Control Board  Lisa Sasso Milwaukee Metropolitan Sewerage District		<i>The One Water Approach in Action at the MacArthur Lake Stormwater Capture Project in Downtown LA</i>  Inge Wiersema Carollo Engineers	<i>Municipal Stormwater Retrofits: The Unique Planning, Design, Construction, Budgeting and Maintenance Challenges</i>  Rob Woodman Ferguson Waterworks	Wayne Rosenbaum The Environmental Law Group, LLP  Brandon Steets Geosyntec Consultants



# TUE OCT 22 CONTINUED

10:30a - 11:00a

## BREAK AND EXHIBITOR FOCUS

LOCATION: EXHIBIT HALL A, LEVEL 1 WEST

SESSION <b>7</b>	TRACK: Modeling and Data Tools	TRACK: Industrial General Permit	TRACK: Municipal Programs	TRACK: Outreach, Engagement, and Education	TRACK: Stormwater Capture and One Water Collaborations	TRACK: Green Infrastructure and Nature-Based Solutions Design and Maintenance	TRACK: Pollutants of Concern and True Source Control
ROOM	BALLROOM A2, LEVEL 2 WEST	BALLROOM A3-A4, LEVEL 2 WEST	BALLROOM A5-A6, LEVEL 2 WEST	BALLROOM A7, LEVEL 2 WEST	BALLROOM A8-A9, LEVEL 2 WEST	BALLROOM A10-A11, LEVEL 2 WEST	MEETING ROOM 1, LEVEL 2 WEST
MODERATOR	Ken Schiff Southern California Coastal Water Research Project	Patrick Otsuji State Water Resources Control Board	Sandy Mathews Larry Walker Associates	Nicole Wilson Larry Walker Associates	Jim Rasmus Stantec	Stephanie Gaines County of San Diego	Roshan Christoph Sage Environmental
11:00a - 11:25a	<i>A Pilot Crediting and Trading System To Support the Feasibility for a Fee-in-Lieu Program in Unincorporated Los Angeles County</i> Jalaine Verdiner Los Angeles County Public Works	<b>PANEL</b> <i>Industrial General Permit Reissuance</i> Panelists: Salvador Chaparro State Water Resources Control Board Cabe Silverhame State Water Resources Control Board	<i>Enhancing Municipal Data Management To Strengthen Stormwater Compliance Efforts</i> Brittany Perkins City of Oceanside	<i>Project Clean Water: Empowering Communities for Trash-Free Watersheds</i> Paige Copenhagen County of San Diego	<b>PANEL</b> <i>Water Supply Perspectives on Urban Stormwater Capture and Use in Northern California</i> Panelists: Jose Alarcon California Department of Water Resources	<i>Design and Monitoring of a Novel Regional Bioretention System Employing Phosphorus Optimized Treatment Media</i> Dylan Ahearn Herrera Environmental Consultants	<i>6PPD-Quinone – When the Rubber Meets the Road</i> Cayla Whiteside Kennedy Jenks Consultants
11:30a - 11:55a	<i>Demonstration of the Parcel Benefit Calculator To Quantify the Water Quality Benefits of the County of San Diego Waterscape Rebate Program</i> Scott Norris County of San Diego	Pushpa Zachariah, State Water Resources Control Board		<i>Enhancing Public Education and Outreach With Maps</i> Krista McDonald 2NDNATURE Software, Inc	Taylor Nokhoudian San Francisco Public Utilities Commission Reid Bogert City/County Association of Governments of San Mateo County Kirsten Struve Santa Clara Valley Water District	<i>Sizing the Hybrid: Optimizing Retention With Mix Volume- and Flow-Based Treatment Trains</i> Joshua Gualco California Department of Transportation	<i>Targeted Treatment for a Toxic Tire Chemical (6PPD-Q)</i> Carly Greuell King County Water and Land Resources Division

11:55a - 1:30p

## LUNCH

LOCATION: BALLROOM A1, LEVEL 2 WEST

SESSION <b>8</b>	TRACK: Monitoring and Special Studies	TRACK: Industrial General Permit	TRACK: Municipal Programs	TRACK: Outreach, Engagement, and Education	TRACK: Stormwater Capture and One Water Collaborations	TRACK: Green Infrastructure and Nature-Based Solutions Design and Maintenance	TRACK: Pollutants of Concern and True Source Control
ROOM	BALLROOM A2, LEVEL 2 WEST	BALLROOM A3-A4, LEVEL 2 WEST	BALLROOM A5-A6, LEVEL 2 WEST	BALLROOM A7, LEVEL 2 WEST	BALLROOM A8-A9, LEVEL 2 WEST	BALLROOM A10-A11, LEVEL 2 WEST	MEETING ROOM 1, LEVEL 2 WEST
MODERATOR	Abigail Suter Riverside Flood Control & Water Conservation District	Mehran Ebrahimi GSI Environmental Inc.	Rob Carson County of Marin	Nicole Wilson Larry Walker Associates	Jeff Mosher Santa Ana Watershed Project Authority	Stephanie Gaines County of San Diego	Vicki Kalkirtz City of San Diego
1:30p - 1:55p	<i>Street Sweeping's Role in Achieving Full Capture System Equivalency Targets in California – Development of Local Metrics in the City of Stockton</i> Caleb Klotzle Larry Walker Associates	<b>TRAINING WORKSHOP (SESSIONS 8-9)</b> <i>Site Assessments, Monitoring, and the ERA Merry-Go-Round</i> Speakers: Sandy Mathews Larry Walker Associates Nancy Gardiner Haley & Aldrich, Inc.	<i>Stormwater Infrastructure: Inventory Management Based on Inspector Feedback</i> Kenneth Russell Santos City of San Diego	<i>Green Infrastructure Co-Benefit Enhancement Through Community Engagement</i> Diana Teran LimnoTech	<i>Transforming Water Management at San Diego Airport: A Model for Inspiring Solutions Together</i> Katie Altobello-Czescik San Diego County Regional Airport Authority	<i>Initial Assessment of 10 Green Street Projects</i> Stephanie Gaines County of San Diego	<b>PANEL</b> <i>Regulatory Collaboration to Protect Stormwater through True Source Control</i> Panelists: Amanda Magee State Water Resources Control Board
2:00p - 2:25p	<i>The Caltrans Trash Characterization and Migration Study – Results From Three-Years of Trash Monitoring in Stormwater Discharges</i> Joshua Gualco California Department of Transportation	Matthew Hillyard GSI Environmental Inc. Elliott Ripley Ashworth Leiningner Group Jodie Crandell Keramida	<i>From Management Program to Meaningful Projects – How Pasadena Created an Implementable Pathway To Progress Towards MS4 Compliance</i> Dawn Petschauer City of Pasadena	<i>Community Climate Resilience: Combining Innovative Technologies with Meeting Community Needs</i> Lauren Roth Venu 3Rwater	<i>One Love: Public/Private Entities Join Together To Embrace One Water Through Stormwater Recharge</i> Shawn Kenney Woodard & Curran	<i>Central Jefferson: Rethinking Alley Networks for Stormwater Capture</i> Alex Aguirre Tetra Tech	Nan Singhasemanon Department of Pesticide Regulation <b>TBD</b> Department of Toxic Substances Control (Invited)

# TUE OCT 22 CONTINUED

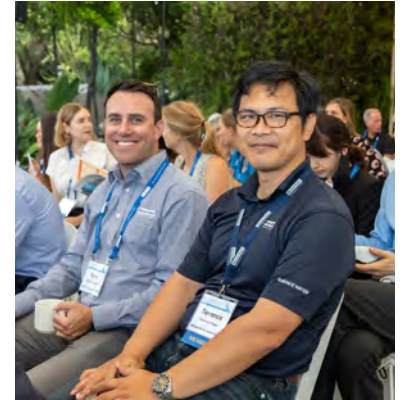
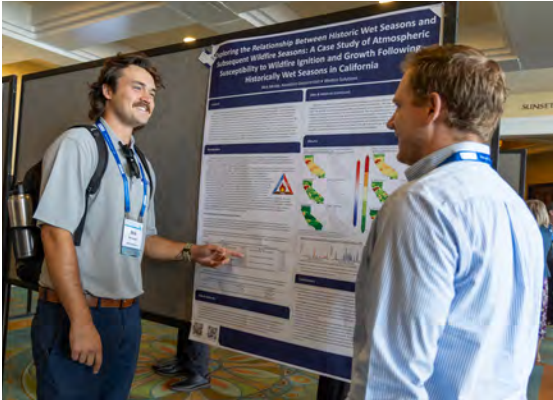
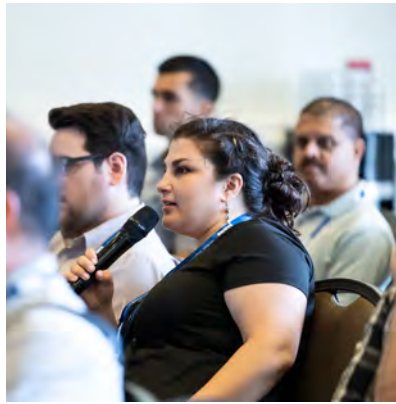
SESSION <b>9</b>	TRACK: Monitoring and Special Studies	TRACK: Industrial General Permit	TRACK: Municipal Programs	TRACK: Outreach, Engagement, and Education	TRACK: Stormwater Capture and One Water Collaborations	TRACK: Climate Change, Resiliency, and Sustainability	TRACK: Pollutants of Concern and True Source Control
ROOM	BALLROOM A2, LEVEL 2 WEST	BALLROOM A3-A4, LEVEL 2 WEST	BALLROOM A5-A6, LEVEL 2 WEST	BALLROOM A7, LEVEL 2 WEST	BALLROOM A8-A9, LEVEL 2 WEST	BALLROOM A10-A11, LEVEL 2 WEST	MEETING ROOM 1, LEVEL 2 WEST
MODERATOR	Abigail Suter Riverside Flood Control & Water Conservation District	Mehran Ebrahimi GSI Environmental Inc.	Vanessa Thulsiraj Michael Baker International	Paige Copenhaver County of San Diego	Shannon Spurlock Pacific Institute	David Pohl Burns & McDonnell	Brian Currier Office of Water Programs at Sacramento State
2:35p - 3:00p	<i>Is It Safe To Swim? Relatively Affordable and Approachable Beach Recreation Risk Assessment in Santa Barbara, CA</i>  Jill Murray City of Santa Barbara Creeks Division	<b>TRAINING WORKSHOP</b> continued	<b>PANEL</b> <i>Addressing Human Waste Sources in the South Orange County Watershed</i>  Panelists: Cindy Rivers Orange County Public Works Niki Beach City of San Clemente	<i>Creating Connection- an Innovative Approach to Municipal Separate Storm Sewer System (MS4) Objectives Through Partnership With the Office of Economic Development</i>  Kelli Fry Sacramento County Office of Economic Development	<b>PANEL</b> <i>Rethinking Stormwater Management: Addressing Modern Water Challenges in the Western United States Through Policy Innovation</i>  Panelists: Nicole Beck 2NDNATURE Software, Inc	<i>Lahaina Post-Wildfire BMP Implementation and Lessons Learned</i>  Yvana Hrovat Haley & Aldrich, Inc.	<i>Bacteria Summit 2022 Followup-Tools for Implementation</i>  Ashli Desai Larry Walker Associates
3:05p - 3:30p	<i>Linking Indicators of Fecal Contamination to Human Health Risk in Southern California Stormwater</i>  Joshua Steele Southern California Coastal Water Research Project			<i>County of San Diego Septic Rebate Program: Outreach Successes and Program Improvements</i>  Kate Molton D-Max Engineering, Inc.	Amanda Magee State Water Resources Control Board Shannon Spurlock Pacific Institute	<i>Don't Let Your BMPs Go Up in Smoke: How To Plan for Increased Wildfires</i>  Brenda Stevens WSP	<i>Prioritizing Human Health: Tackling Bacteria Through a Risk-Based Lens</i>  Dawn Petschauer City of Pasadena

3:30p - 4:00p **BREAK AND EXHIBITOR FOCUS** LOCATION: EXHIBIT HALL A, LEVEL 1 WEST

SESSION <b>10</b>	TRACK: Monitoring and Special Studies	TRACK: Industrial General Permit	TRACK: Municipal Programs	TRACK: Outreach, Engagement, and Education	TRACK: Stormwater Capture and One Water Collaborations	TRACK: Climate Change, Resiliency, and Sustainability	TRACK: Pollutants of Concern and True Source Control
ROOM	BALLROOM A2, LEVEL 2 WEST	BALLROOM A3-A4, LEVEL 2 WEST	BALLROOM A5-A6, LEVEL 2 WEST	BALLROOM A7, LEVEL 2 WEST	BALLROOM A8-A9, LEVEL 2 WEST	BALLROOM A10-A11, LEVEL 2 WEST	MEETING ROOM 1, LEVEL 2 WEST
MODERATOR	Dylan Ahearn Herrera Environmental Consultants	Matthew Lentz GSI Environmental Inc.	Erin Maker City of Carpinteria	Paige Copenhaver County of San Diego	Jeff Mosher Santa Ana Watershed Project Authority	David Pohl Burns & McDonnell	Brian Currier Office of Water Programs at Sacramento State
4:00p - 4:25p	<i>Lost in the Field – 6PPD-Q Stormwater Treatment Effectiveness and Equipment Impacts on Recovery</i>  Timothy Clark Herrera Environmental Consultants	<i>IGP Design Storm Standards Comparative Analysis</i>  Matthew Hillyard GSI Environmental Inc.	<i>Community-Based Public-Private Partnerships: Insights From Milwaukee's Fresh Coast Green Communities Program</i>  April Mendez Greenprint Partners	<i>From Static to Dynamic: Planning Public Education in a Changing World</i>  Christy Suppes County of Orange	<i>Evaluating Low Impact Developments (LIDs) for Stormwater Diversion and Groundwater Recharge</i>  Craig Ulrich Lawrence Berkeley National Laboratory	<i>Is San Diego Ready for the Next Atmospheric River? - Designing San Diego's Pump Station Network with Resiliency in Mind</i>  Ed Othmer Stantec	<i>A Group Effort – a Full Trash Capture Installation Case Study in Hayward</i>  Caitlin Tharp Schaaf & Wheeler
4:30p - 4:55p	<i>Characteristics of 6PPD-Q in Highway Stormwater Runoff</i>  Bhaskar Joshi California Department of Transportation	<i>Application of AI and ChatGPT: Data Mining on SMARTS and In-Depth IGP Data Analysis for Stormwater Management</i>  Becky Chen GSI Environmental Inc.	<i>The Devil in the Details: From a 100% Synthetic Pesticide Ban to an Integrated Pest Management Plan</i>  Cristina Goulart Town of Windsor	<i>A Participatory Science Approach to the Trash Amendments</i>  Julian Fulton California State University Sacramento	<i>Capturing the Multi-Benefit Value of Rainwater Capture Incentive Programs for Water Supply Resilience</i>  Jeffrey Odefey One Water Econ		<i>Trash Compliance Tracking via a Cloud-Based Data Management System</i>  Chris Sommers EOA, Inc.

5:00p - 7:00p **EXHIBITOR RECEPTION** LOCATION: EXHIBIT HALL A, LEVEL 1 WEST  
Exhibitors and conference attendees always enjoy a chance to interface in this cordial and relaxed environment (appetizers; cash bar).





Scenes from the 2023 Annual Conference in San Diego (Photo Credit: [Melissa Jacobs](#))

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# WED OCT 23

7:30a - 8:30a	<b>COFFEE AND REFRESHMENTS</b>	LOCATION: EXHIBIT HALL A, LEVEL 1 WEST
7:30a - 2:30p	<b>CONFERENCE SERVICES</b>	LOCATION: WEST LOBBY, LEVEL 1
8:00a - 11:15a	<b>EXHIBIT HALL OPEN</b>	LOCATION: EXHIBIT HALL A, LEVEL 1 WEST
8:00a - 11:15a	<b>POSTER SESSION</b>	LOCATION: EXHIBIT HALL A, LEVEL 1 WEST

SESSION <b>11</b>	TRACK: Monitoring and Special Studies	TRACK: Industrial General Permit	TRACK: Policy, Permitting, and Legislation	TRACK: Pollutants of Concern and True Source Control	TRACK: Green Infrastructure and Nature-Based Solutions Design and Maintenance	TRACK: Climate Change, Resiliency, and Sustainability	TRACK: Funding
ROOM	BALLROOM A2 , LEVEL 2 WEST	BALLROOM A3-A4, LEVEL 2 WEST	BALLROOM A5-A6, LEVEL 2 WEST	BALLROOM A7, LEVEL 2 WEST	BALLROOM A8-A9, LEVEL 2 WEST	BALLROOM A10-A11, LEVEL 2 WEST	MEETING ROOM 1, LEVEL 2 WEST
MODERATOR	Jill Murray City of Santa Barbara	Mehran Ebrahimi GSI Environmental Inc.	Hawkeye Sheene Carollo Engineers	Arthur Deicke Environmental Pollution Solutions	Michelle Hoalton PACE Advanced Water Engineering	Andrea Crumpacker Stantec	Kelly Westover Stantec
8:30a - 8:55a	<i>Navigating Recreational Water Quality Data in San Diego Bay: What Do the Numbers Mean?</i>  Annabelle Burruss Port of San Diego	<b>PANEL</b> <i>Challenges and Opportunities With Commercial, Industrial, &amp; Institutional (CII) Permit Option 1</i>  Panelists: Andrew Choi Los Angeles Regional Water Quality Control Board	<i>Amplify Your Voice: How to Engage in Legislative Advocacy</i>  Karen Cowan CASQA	<i>The Nation's First Citywide Single-Use Plastic Bottle Ban in South Lake Tahoe</i>  Sara Letton City of South Lake Tahoe	<i>Protecting Sensitive Estuary Through Green Energy Powered Innovative Trash Interceptor</i>  David Pohl Burns & McDonnell Engineering	<i>Planning for the Future: The Intersection of Water Supply, RNHA Housing Needs and Regional Stormwater Capture</i>  Ian Adam Fusco Engineering, Inc.	<i>Caltrans Stormwater Coop Funding Opportunities</i>  Anand Maganti California Department of Transportation
9:00a - 9:25a	<i>A Dry Weather HF183 Retrospective: Findings and Implications of a Multi-Year, Multi-Watershed Dry Weather MS4 Outfall Screening Program in San Diego County</i>  Emily Kochert County of San Diego	Wayne Rosenbaum The Environmental Law Group, LLP  Richard Watson Richard Watson & Associates, Inc.  Jason Marechal Kimley-Horn	<i>A Forever Problem: PFAS Chains in Our Storm Drains</i>  Anya Kwan Best Best & Krieger LLP	<i>Source Control- Town of Truckee Single-Use Foodware Reduction Ordinances</i>  Melanie Conti City of Truckee	<i>Developing and Implementing Natural Treatment Basins in the Arroyo Seco</i>  Courtney Semlow Craftwater Engineering, Inc.	<i>Multibenefit Land Repurposing for Sustainable Groundwater Management</i>  Max Dugan Geosyntec Consultants	

SESSION <b>12</b>		TRACK: Industrial General Permit	TRACK: Policy, Permitting, and Legislation	TRACK: Pollutants of Concern and True Source Control	TRACK: Green Infrastructure and Nature-Based Solutions Design and Maintenance	TRACK: Climate Change, Resiliency, and Sustainability	TRACK: Funding
ROOM		BALLROOM A3-A4, LEVEL 2 WEST	BALLROOM A5-A6, LEVEL 2 WEST	BALLROOM A7, LEVEL 2 WEST	BALLROOM A8-A9, LEVEL 2 WEST	BALLROOM A10-A11, LEVEL 2 WEST	MEETING ROOM 1, LEVEL 2 WEST
MODERATOR		Matthew Lentz GSI Environmental Inc.	Michelle Mattson NV5	Chris Sommers EOA, Inc.	Michelle Hoalton PACE Advanced Water Engineering	Andrea Crumpacker Stantec	Kelly Westover Stantec
9:35a - 10:00a		<i>Implementation and Monitoring of a Stormwater Treatment System for Carlie Transportation</i>  John Mandelin Clear Creek Systems, Inc.	<i>Standardized Cost Reporting in Municipal Stormwater Permits, A Policy Update</i>  Nabiul Afrooz State Water Resources Control Board	<i>Transforming the Terrain: A Comprehensive Strategy for Tackling PCB Contamination in Urban Watersheds</i>  Michele Mancuso Contra Costa County Watershed Program	<i>The Bowtie Demonstration Project</i>  Jonathan Abelson Stantec	<i>Waterfront Resilience: Vision to Implementation in San Mateo County</i>  Eric Zickler Lotus Water Engineering	<i>Searching for the Money Tree – Funding the Santa Rosa Storm Drain Master Plan and Planning for Future Financing</i>  Millicent Cowley-Crawford Woodard & Curran
10:05a - 10:30a		<i>The Zinc Conundrum: An In-Depth Look at the Characteristics of Zinc in Stormwater for Treatability</i>  Nate Hasal GSI Environmental Inc.	<i>The Proposed Commercial, Industrial, and Institutional (CII) Stormwater Permit: Potential Impacts and Solutions From Real-World Case Studies</i>  Chris Hsu GSI Environmental Inc.	<i>Addressing Trash Generation on Private Parcels</i>  Kristin Kerr EOA, Inc.		<i>Adapting Stormwater Infrastructure to Changing Precipitation Patterns: Lessons in Urban Flood Resilience</i>  Dan Christian Tetra Tech	<i>Stormwater Credit Think Tank – First Year Accomplishments and Products</i>  Chris Crompton Michael Baker International



# WED OCT 23 CONTINUED

10:30a - 11:15a

## BREAK, PRIZE DRAWING

LOCATION: EXHIBIT HALL A, LEVEL 1 WEST

Exhibitor Prize Drawing\*

Winners will be announced by the Platinum Stormwater Steward (Bancroft Construction Services). (\*Must be present to win)

SESSION <b>13</b>		TRACK: Industrial General Permit	TRACK: Policy, Permitting, and Legislation	TRACK: Pollutants of Concern and True Source Control	TRACK: Green Infrastructure and Nature-Based Solutions Design and Maintenance	TRACK: Climate Change, Resiliency, and Sustainability	TRACK: Funding
ROOM		BALLROOM A3-A4, LEVEL 2 WEST	BALLROOM A5-A6, LEVEL 2 WEST	BALLROOM A7, LEVEL 2 WEST	BALLROOM A8-A9, LEVEL 2 WEST	BALLROOM A10-A11, LEVEL 2 WEST	MEETING ROOM 1, LEVEL 2 WEST
MODERATOR		Mehran Ebrahimi GSI Environmental Inc.	Michelle Mattson NV5	Chris Sommers EOA, Inc.	Paul Caswell Hazen and Sawyer	Summer Bundy Stantec	Hawkeye Sheene Carollo Engineers
11:15a - 11:40a		<b>PANEL</b> <i>IGP Regulatory Enforcement Priorities</i> Panelists: <b>TBD</b>	<i>Water Quality Compliance during Wet Weather: Lessons and Recommendations</i> Susan Paulsen Exponent	<i>True Source Control Basics: California Challenges and Successes</i> Peter Schultze-Allen EOA, Inc.	<i>National Green Infrastructure Approaches – A Community Perspective</i> Nicholas Watkins CDM Smith	<i>Green Stormwater Infrastructure: A “Cool” Solution for Urban Heat</i> Jason Wright Tetra Tech	<i>Lessons Learned From the City of Rancho Cordova’s Prop 218 Rate Increase Project</i> Dalia Fadl City of Rancho Cordova
11:45a - 12:10p			<i>California Water Plan Update 2023 and the Urban Stormwater Runoff Resource Management Strategy</i> Jose Alarcon California Department of Water Resources	<i>Collaborative Efforts to Address Emergency Firefighting Discharges: A Case Study from the Bay Area Municipal Stormwater Collaborative</i> Nicole Wilson Larry Walker Associates	<i>Perspectives From the Gulf States on Overcoming Technical, Regulatory, and Financial Barriers to Implementing Green Stormwater Infrastructure (GSI) in California</i> Cristiane Surbeck GSI Environmental Inc.	<i>Ensuring Critical Water Availability Across Diverse Watersheds – Comparing Hydrological Modeling Configurations and Calibration Between the Navarro River, Napa River, and Butte Creek Watersheds</i> Benjamin Bowes Paradigm Environmental	<i>A Portal Into the Progress and Benefits of Los Angeles County’s Safe, Clean Water Program</i> Kirk Allen Los Angeles County Public Works

12:10p - 1:30p

## LUNCH

LOCATION: BALLROOM A1, LEVEL 2 WEST

1:30p - 2:30p

## CAPSTONE SESSION

LOCATION: BALLROOM A1, LEVEL 2 WEST

**A DISCUSSION DEDICATED TO ADVANCING THE STATE’S WATER SUPPLY STRATEGY FEATURING CALIFORNIA STORMWATER AND WATER MANAGEMENT LEADERS**

(Capstone Session Sponsor: DUDEK)

### SPEAKERS

Anna Caballero - *Senator - 14th District*, California State Senate  
 Joaquin Esquivel - *Chair*, California State Water Resources Control Board  
 Karla Nemeth - *Director*, California Department of Water Resources; *Governor Newsom’s Advisor on the State’s water priorities*  
 Karen Cowan - *Executive Director*, CASQA

# Poster Presentations

Posters will be displayed throughout the conference in the Exhibit Hall.

The poster authors will be on hand to answer questions during breaks when available.

Accumulation of Contaminants in Filter Media of Rain Gardens in Urban Watersheds

*Jennifer Dougherty,  
San Francisco Estuary Institute*

Light-Weight, Low-Cost Innovative Automated Sampler for Remote Water Quality Monitoring

*Kayli Paterson, San Francisco Estuary Institute*

Stormwater Run-Off Coefficient Analysis

*Kayla Gacosta, GSI Environmental Inc.*

An Evaluation Tool for Estimating Permeable Paver Benefits Under Various Conditions

*Joaquin Fraga Hernandez,  
California State University, Sacramento*

Roots of Resilience: Engaging Communities in Green Infrastructure – Mapleview Street Biofiltration and Channel Restoration Project

*Bella Colpo, County of San Diego*

Synergy and Collaborative Solutions Yields Results – Active Treatment Systems & Expansive Projects

*Jason Hills, Aqua Poppy Inc.*

# Sponsors & Exhibitors

CASQA would like to thank our sponsors, exhibitors, and advertisers for supporting the 2024 Conference. Sponsorships are still available.

SPONSORS		
<b>PLATINUM STORMWATER STEWARD</b> 	<b>HOST PROGRAM</b> 	
<b>CONFERENCE APP</b> 	<b>GOLD STORMWATER STEWARDS</b>    	
<b>CAPSTONE SESSION</b> 	  	
<b>FIELD TOUR</b> 	<b>NETWORKING EVENT</b>    	<b>EXHIBITOR RECEPTION</b>   

TRACK							
Climate Change, Resiliency, and Sustainability	Green Infrastructure and Nature-Based Solutions Design and Maintenance	Modeling and Data Tools	Monitoring and Special Studies	Municipal Programs	Policy, Permitting, and Legislation	Pollutants of Concern and True Source Control	Stormwater Capture and One Water Collaborations
							

## EXHIBITORS

### Super Premium

- Advanced Drainage Systems, Inc.
- California Filtration Specialists, LLC.
- CloudCompli, Inc.
- Contech Engineered Solutions
- Downstream Services, Inc.
- Jensen Precast
- Oldcastle Infrastructure
- Pre-Con Products

### Premium

- 2NDNATURE Software Inc.
- ABT, Inc. Permavoid
- ACO, Inc.
- Apex Companies, LLC
- Applied Polymer Systems, Inc.

- AquaShield, Inc.
- Clear Creek Systems, Inc.
- DeepRoot Green Infrastructure
- Emerald Site Services
- EnviroCert International
- Enviropod, Inc.
- Ferguson Waterworks
- FODS, LLC
- GEO4 Services Inc.
- Gullywasher Stormwater Filters
- Layfield Geosynthetics
- LSC Environmental Products
- NPDESPro
- Ocean Blue Environmental Services, Inc.
- PACE Advanced Water Engineering

- Porous Technologies, LLC
- Sacramento Stormwater Quality Partnership
- Soil Retention Products, Inc.
- SSEC / Selby's Soil Erosion Control
- StormTrap
- Stormwater Biochar, LLC
- Titan Environmental
- Trihydro Corporation
- WaterTectonics

### Regular

- AbTech Industries
- Active Treatment Systems, Inc.
- Aqua Poppy
- Arctos Erosion Control
- CleanWay USA

- Clear Water Services6
- Core & Main Geosynthetics9
- Ecopliant Environmental, Inc.
- ERTEC Environmental Systems
- Faircloth Skimmer
- Greenstone Supply
- H2O Molecular
- Lane Enterprises LLC
- NV5
- Pervious Products, Inc.
- Profile Products
- Storm Water Inspection & Maintenance Services (SWIMS)
- Stormwater Pros, LLC
- TRUEGRID Pavers by Airlite Plastics Co.
- United Storm Water, Inc.



# Attendee Registration

Category	Early Fee (ends Sep 9)	Late Fee (starts Sep 10)
<b>Full Conference Pass</b>		
<ul style="list-style-type: none"> <li>Includes the Networking Event on Monday evening</li> <li>Includes post-conference access to session recordings</li> </ul>		
<b>CASQA Member</b>		
> General Attendee or Supporting Speaker	\$850	\$950
> Primary Speaker/Panelist	\$765	\$865
> Poster Presenter	\$810	\$910
<b>Non-Member</b>		
> General Attendee or Supporting Speaker	\$1,025	\$1,150
> Primary Speaker/Panelist	\$940	\$1,065
> Poster Presenter	\$985	\$1,110
<b>Student</b>		
> Full-time students only. Current student I.D. required when registering.	\$265	\$265

<b>1-Day Conference Pass (choice of Mon, Tue, or Wed)</b>		
<ul style="list-style-type: none"> <li>Does not include the Networking Event on Monday evening</li> <li>Does not include post-conference access to session recordings</li> </ul>		
<b>CASQA Member</b>		
> General Attendee or Supporting Speaker	\$515	\$615
> Primary Speaker/Panelist	\$430	\$530
> Poster Presenter	\$475	\$575
<b>Non-Member</b>		
> General Attendee or Supporting Speaker	\$690	\$815
> Primary Speaker/Panelist	\$605	\$730
> Poster Presenter	\$650	\$775
<b>Student</b>		
> Full-time students only. Current student I.D. required when registering.	\$90	\$90

Add-Ons	Fee
<b>FIELD TOUR (Monday 11am-4pm)</b>	\$30
<ul style="list-style-type: none"> <li>Limited to 48 participants</li> <li><a href="#">Tour details</a></li> <li>Tickets not available onsite</li> <li>No refunds, but ticket may be given to another attendee</li> </ul>	SOLD OUT
<b>Networking Event (Monday Evening) (dinner; cash bar)</b>	\$200
Location: Punch Bowl Social <ul style="list-style-type: none"> <li>One ticket is included with a Full Conference Pass</li> <li>Add-on ticket for a 1-Day Conference Pass or attendee guest</li> <li>Tickets not available onsite</li> <li>Limited to individuals 21 and older</li> </ul>	

## Registration Deadlines

- Early registration ends: Mon, Sep 9 PT
- Registration closes: Fri, Oct 11 at 5pm PT
- Networking Event ticket sales closes: Fri, Oct 11 at 5pm PT

[CLICK TO REGISTER NOW](#)

Payment by credit card only.

## Speakers, Panelists, and Poster Presenters

All speakers and panelists must attend in person. We are not offering an option to participate virtually. CASQA offers a reduced conference fee for eligible speakers, panelists, and poster presenters, as well as the CASQA Member discount. The following applies:

### Technical Presentation:

- The primary speaker is eligible for the speaker discount (the presentation is limited to one primary speaker).
- Supporting speakers who are not also a primary speaker or panelist in another session, are not eligible for the speaker discount and must pay the General Attendee fee.

### Panel or Training Workshop:

All speakers or panelists are eligible for the speaker discount.

### Poster Presenters:

Poster presenters who are not also a primary speaker or panelist receive a \$40 discount off the General Attendee fee.

### No-Charge Speaker, Panelist, Poster Presenter Option:

(For this option contact the CASQA Events Manager, [amy.porter@casqa.org](mailto:amy.porter@casqa.org))

- There is no charge for speakers or panelists attending only the session in which they are participating, or for poster presenters attending only to put up/take down their poster.
- Meals are not included in the no-charge option.
- If you plan to attend another session, or lunch, but no other conference days, then you must purchase a 1-Day Conference Pass for that day.
- No-charge speakers, panelists, and poster presenters do not need to officially register, but must still check in at the CASQA Conference Registration Desk to pick up their packet and badge.

## Refund Policy

- Refunds are allowed for all attendee registration categories; there are no refunds for exhibit space purchases
- A substitution of an attendee is allowed without charge
- A 25% administrative fee will be assessed for a refund
- **Deadline:** Refunds will only be given for cancellations made by 5pm PT on Friday, October 11, 2024

# Sponsorship, Exhibiting, & Advertising

The CASQA Annual Conference is the premier California stormwater conference with help from the support of our sponsors, exhibitors, and advertisers. There is no better way to outreach to your potential clients or promote your organization's activities, while supporting the leading organization dedicated to advancing the field of stormwater management. We invite you to consider the opportunities below to find the scenario that is suitable to your organization.

## Sponsorship

[CLICK TO PURCHASE BY SEP 20, 5PM PT](#)

Category	Rate	Availability	Benefits (full details on CASQA website)
<b>Platinum Stormwater Steward</b>	\$6,500	<i>SOLD OUT</i>	—
<b>Host Program</b>	\$6,000	<i>SOLD OUT</i>	—
<b>Gold Stormwater Steward</b>	\$4,000	<i>SOLD OUT</i>	—
<b>Municipal Stormwater Steward</b> Limited to municipal programs (MS4s)	\$3,000	Unlimited	<ul style="list-style-type: none"> <li>• 1 Full Conference pass</li> <li>• Verbal recognition during lunch</li> <li>• Half page ad in Registration Brochure &amp; Conference Program</li> <li>• Logo placement in multiple locations</li> <li>• Link to organization website</li> </ul>
<b>Conference App*</b>	\$4,000	<i>SOLD OUT</i>	—
<b>Capstone Session*</b>	\$2,000	<i>SOLD OUT</i>	—
<b>Track*</b>	\$1,500	8 <i>SOLD</i> 6 available	<ul style="list-style-type: none"> <li>• Verbal recognition during technical sessions for selected track</li> <li>• Logo placement in multiple locations</li> <li>• Link to organization website</li> </ul>
<b>Field Tour*</b>	\$1,000	1 <i>SOLD</i> 1 available	<ul style="list-style-type: none"> <li>• Sign recognition at bus pick-up/drop-off</li> <li>• Verbal recognition during field tour</li> <li>• Logo placement in multiple locations</li> <li>• Link to organization website</li> </ul>
<b>Welcome Happy Hour*</b> (Sunday evening)	\$500	Unlimited	<ul style="list-style-type: none"> <li>• Sign recognition at the event</li> <li>• Logo placement in multiple locations</li> <li>• Link to organization website</li> </ul>
<b>Networking Event*</b> (Monday evening)	\$2,500	4 <i>SOLD</i> 1 available	<ul style="list-style-type: none"> <li>• Quarter page ad in Registration Brochure &amp; Conference Program</li> <li>• Sign recognition at the event</li> <li>• 10 drink tickets for the Networking Event</li> <li>• Logo placement in multiple locations</li> <li>• Link to organization website</li> </ul>
<b>Exhibitor Reception*</b> (Tuesday evening)	\$750	3 <i>SOLD</i> 2 available	<ul style="list-style-type: none"> <li>• Sign recognition at the event</li> <li>• 10 drink tickets for the Exhibitor Reception</li> <li>• Logo placement in multiple locations</li> <li>• Link to organization website</li> </ul>

\* Does not include a conference pass

## Exhibiting

[CLICK TO PURCHASE BY AUG 30, 5PM PT](#)

Category	Fee / Availability
<b>Super Premium</b>	\$3,760 Member / \$4,260 Non-Member / <i>SOLD OUT</i>
<b>Premium</b>	\$2,760 Member / \$3,260 Non-Member / <i>SOLD OUT</i>
<b>Regular</b>	\$2,535 Member / \$3,035 Non-Member / 16 remaining
<b>Add'l Exhibitor Pass</b> Restrictions apply	\$600 Member / \$600 Non-Member Includes Exhibit Hall admission + lunch (Mon, Tue, Wed)

## Advertising

[CLICK TO PURCHASE BY AUG 28, 5PM PT](#)

Ad Size	Rates	Width x Height	With Bleeds
<b>Full Page (no bleeds)</b>	\$800**	7.5" x 9.75"	—
<b>Full Page (w/ bleeds)</b>	\$800**	8.5" x 11"	8.75" x 11.25"
<b>Half Page</b>	\$500**	7.5" x 4.75"	—
<b>Quarter Page</b>	\$300**	3.625" x 4.75"	—

\*\*Rates above are for advertisers that are not conference sponsors



# Hotel & Travel



## Major Airports and Transportation

### [Sacramento International Airport \(SMF\)](#)

- 11 miles / 15 minutes from downtown Sacramento and the convention center
- Taxis, shuttles, and ride-sharing services available at all airport terminal curbsides

### [Amtrak – Sacramento Valley Station](#)

- One mile from the convention center



## Hotel Rates: General Attendees

Click below to find detailed information about hotel rates, registration, directions, and parking for the conference hotels.

[HOTEL INFO](#)

## Hotel Rates: State of California Employed Attendees

**Eligibility:** State of California employees only; the rate is not available to city, county, or other local government employees.

There are a limited number of government rate rooms available on Oct 20, 21, and 22 only. Your request does not guarantee availability of a government rate room.

For more information and the steps to apply, visit the Hotel and Travel section on the CASQA website.

[LEARN MORE](#)



# Join CASQA

CASQA is a nonprofit corporation that advances sustainable stormwater management protective of California water resources. With well over 2,000 members, our membership is comprised of a diverse range of stormwater quality management organizations and individuals, including cities, counties, special districts, federal agencies, state agencies, ports, universities and school districts, wastewater agencies, water suppliers, industries, and consulting firms throughout the state. Collectively, CASQA represents over 34 million people in California.



California Stormwater  
Quality Association

Membership is open to all organizations and individuals who are interested in advancing sustainable stormwater management. Join now to be a part of the collective voice and support CASQA's Vision for Sustainable Stormwater Management. In addition to supporting CASQA's program and goals, members also receive exclusive access to several subcommittees (Phase II, Non-traditional Phase II, Construction, Industrial, Policy and Permitting, Legislation), access to CASQA's Seminar Series, weekly educational resources via the Bi-weekly Member Update and Water Quality NewsFlash, discounts to CASQA events, advertising rights on CASQA's Job Board, and much more.

BECOME A MEMBER

## Friends of CASQA

Are you #CASQAtogether? Do you support the work of CASQA and our mission for sustainable stormwater management? If so, we invite you to become a Friend of CASQA.

Friends of CASQA was established to provide an avenue for individuals to show their support and contribute to our programs. As CASQA is a nonprofit organization, your \$100 contribution is tax deductible. We will include a year-to-date listing of our Friends of CASQA in the Annual Conference program and a calendar-year listing in the Annual Report.

Join your friends and colleagues who have already contributed. We are always grateful for the support of our stormwater community and look forward to welcoming you as a Friend of CASQA!

### Details:

- \$100 (applies to the current calendar year)
- For individuals only; no organizations
- Names will be listed here:
  - › CASQA website
  - › CASQA Annual Conference Program (year-to-date)
  - › CASQA Annual Report (calendar-year)

### Thank you to our current 2024 Friends of CASQA!

Brian Currier  
Cathleen Garnand  
Ewelina Mutkowska  
Joseph Draper  
Karen Cowan

Megan Otto  
Richard Watson  
Rob Carson  
Sharon Gosselin

BECOME A FRIEND OF CASQA



CASQA is proud to be an Environmental Partner with [1% for the Planet](#), a global network that connects businesses and environmental organizations working together to support people and the planet. Started in 2002 by Yvon Chouinard, founder of Patagonia, and Craig Mathews, founder of Blue Ribbon Flies, 1% for the Planet provides businesses with expertise in environmental giving, credibility consumers trust, and the accountability to follow through. Each year, businesses give 1% of their annual sales directly to vetted environmental partners. To-date the members of 1% for the Planet have given hundreds of millions of dollars to environmental partners.

Learn more about [1% for the Planet membership for your business](#).

View [CASQA's 1% for the Planet partnership profile](#).



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