CASQA 2020: envision the future

CASQA 2020 Virtual Conference
September 15–16, 2020

Program

www.casqa.org
Improving the quality of California waters is our passion

Watershed Management • TMDLs • Source Tracking • Engineering • Modeling
“Vision without action is merely a dream. Action without vision just passes the time. Vision with action can change the world.”

**JOEL A. BARKER**

**Leadership is one of the core components of who we are as CASQA.** Therefore, CASQA has opted to lead through these challenges by providing certainty in these uncertain times. Part of CASQA’s mission is to educate, and this virtual platform will maximize access and opportunities for learning together in 2020. We have developed an outstanding conference experience, albeit a new one, by migrating our typical conference components into an interactive online environment. The conference includes the exceptional content and program that we are known for, a showcase for sponsors and exhibitors, as well as networking opportunities. We are excited to introduce our innovative new format. As always, we are #CASQAtogether.

**CASQA’s Vision Statement** recognizes Sustainable Stormwater Management as a vital component of California’s water resources. Stewardship of our stormwater resources must balance human and ecological needs including protecting water quality, enhancing and restoring waterways, and providing an additional source for water supply. With this in mind, we ask you to **envision the future** of stormwater. In the conference, we will explore ways to incorporate sustainable solutions for our water quality challenges, integrate the best science and technologies to ensure future generations can enjoy our waters, provide equity by engaging in all communities, drive consensus building with multi-benefit solutions, and explore funding for the future we envision.
The CASQA Annual Conference offers in-depth learning opportunities and discussions on a wide range of stormwater and water management topics, with a focus around the conference theme, “CASQA 2020: envision the future.”

The live-streamed, interactive conference kicks off with a Plenary Session featuring the announcement of CASQA Awardees and a keynote address (see sidebar). This will be followed by concurrent technical presentations, training workshops, panels, forums, and roundtable discussions by leading stormwater practitioners. Attendees can also visit the Exhibit Hall to interface with exhibitors while exploring goods, services, and innovative ideas, and connect with fellow attendees through the virtual networking events.

Conference registration includes on-demand access to recorded presentations through the end of 2020.

Keynote Speaker

Congressman Scott Peters
Plenary Session
Tuesday, September 15

Congressman Scott Peters serves California’s 52nd Congressional district, which includes the cities of Coronado, Poway, and most of northern San Diego. First elected in 2012, he currently serves on the House Committee on the Budget and the House Energy and Commerce Committee, where he advocates for investment in basic scientific research, supports the military’s goals to enhance their energy security, and fights for commonsense healthcare reforms that work for families and small business owners.

Scott Peters is a civic leader who has made improving the quality of life in San Diego his life’s work. As a Member of Congress, Scott’s emphasis has been promoting and expanding San Diego’s innovation ecosystem, advocating for San Diego’s pivotal role as a partner in the national defense, and making government work again. Ranked the 4th most independent Democrat in Congress by the National Journal, Scott Peters understands that business problems have bipartisan solutions, and is never afraid to work across party lines to build consensus and get things done.

Congressman Peters has a long history of championing innovative solutions to water resource challenges in San Diego County. He will provide a lawmaker’s perspective on advancing stormwater as a resource and providing federal funding for stormwater infrastructure in California.

Highlights

- Two day conference – September 15 and 16, 2020
- Live-streamed presentations including Q&A with the presenters
- All presentations available on-demand to conference registrants after the live event through the end of 2020, providing the maximum flexibility to view the live stream as well as access the recorded content later
- Virtual Exhibit Hall
  - Attendees can speak live one-to-one with a representative or make an appointment for a later date/time
  - Included will be an exhibitor-sponsored prize drawing for attendees who visit a set number of exhibit spaces
- Networking opportunities – all registrants are welcome to join us
  - Welcome Reception
    Monday, September 14, 5:00 p.m. – 7:00 p.m.
    Please join us for the Welcome Reception. This is a great way to break the ice in a speed-dating format before the official start of the conference.
  - Tuesday Evening Reception
    Tuesday, September 15, 5:00 p.m. – 7:00 p.m.
    This is a unique opportunity to socialize after a day of presentations and enjoy stormwater-themed games with fellow conference attendees.

Conference Portal Access

Be on the lookout for an email with log-in instructions to enter the conference event portal. (Be sure to check your junk mailbox.)
Every day the City of San Diego's Storm Water Division works to keep our communities safe from flooding and protects our waterways from pollution.

Visit ThinkBlue.org for more information on how you can prevent pollution in San Diego’s creeks, rivers, bays and beaches.
The 2020 Technical Program comprises nine conference thematic technical presentation and discussion sessions with 88 oral presentations, 13 panels, 2 forums, 1 roundtable, 4 training workshops, and a poster session in the 14 tracks listed on the following page.
Conference Tracks

CASQA Awardees  The mission of the CASQA Awards Program is to advance the stormwater management profession by identifying and recognizing exemplary leadership, outstanding projects, activities, and contributions to the field of stormwater management. This track will include presentations from CASQA Awardees.

Construction and Post-Fire Response  This track will focus on proven strategies to resolve construction issues: innovative best management practices (BMPs) and controls; challenges and solutions to site management; implementing cost controls; resolving monitoring and sampling issues; and dealing with the challenges of linear utilities and overhead best management programs. Additionally, this track will explore innovative post-wildfire response using techniques in assessment, aerial mapping, outreach, mitigation, funding, contracting, and monitoring.

Data Management, GIS / GIS Tools, and Modeling  This track will focus on data management and visualization, stormwater geographic information systems (GIS), data collection tracking, advances in watershed planning and modeling. It will focus on the future and how tools from other industries may be used in the stormwater arena.

Emerging Contaminants  This track focuses on emerging contaminants: what we know or don’t know or need to learn, upcoming regulatory changes that may impact the stormwater community, and new advances in science that allow us to measure or characterize both human and environmental risk related to emerging contaminants.

Equity  This panel will focus on how we identify the connections between the business of water management and its direct and indirect impact on vulnerable communities. Included will be discussions of current programs, lessons learned, and how to bring equity considerations into all aspects of our work in the stormwater communities.

Funding and Financing  This track will address stormwater program infrastructure funding and financing, both public and private, and asset management. Integration of stormwater needs into existing funding and financing mechanisms, such as capitalization and scheduling for replacing aging infrastructure, will be a focus.

Industrial  This track will highlight all things industrial, such as pollutant source assessments, exceedance response action levels, monitoring, Total Maximum Daily Loads (TMDLs), how municipalities are modifying their programs to implement SB205, and Clean Water Act citizen lawsuits.

Legislation, Policy, Permitting, Legal  This track will provide a forum for updates from regulators, discussions of future policy and legislative initiatives, examples of innovative ways that regulatory obligations can be met, and updates from legal experts.

Monitoring and TMDL Implementation  This track will highlight two topics that are closely related, monitoring and TMDL implementation. Innovations in monitoring methods and monitoring program development will be explored for a range of monitoring situations, including TMDL compliance monitoring. The track will also explore the science that goes into developing TMDLs and TMDL alternatives, the challenges of complying with TMDL-based requirements, and ways in which parties to a TMDL can come together to work on implementation.

Municipal Program Implementation  This track will focus on the challenges and solutions to implementing a municipal stormwater program for both Phase I and Phase II agencies and cover emerging issues for municipalities such as planning activities for permit compliance, post-fire stormwater management response, permanent post-construction BMPs, monitoring program challenges and unique solutions, and transient encampments.

Outreach and Education  This track will share experiences creating and implementing innovative stormwater outreach campaigns, building community to foster a sense of stewardship, using social media as an outreach tool, reaching school-age children with programs in/out of the classroom, and measuring effectiveness.

Resiliency and Sustainability  This track will look at sustainable practices, legal requirements, opportunities for collaboration, and programs that connect stormwater and other environmental sectors. Important topics such as water supply, water rights, groundwater recharge, Sustainable Groundwater Management Act (SGMA) planning, energy, watershed management, resiliency planning, and climate change will be discussed.

Stormwater Infrastructure and Natural Waterways  This track will highlight examples of physical infrastructure for improving stormwater runoff quality, protecting natural channels from hydromodification, preventing flood impacts to property, recharging groundwater supplies, permanent post-construction BMPs, and harvesting rainwater. It will focus on pilot studies, design lessons learned, operation and maintenance challenges/solutions, and adaptability after installation.

Trash  This track will incorporate topics relevant to the Trash Amendments, such as full trash capture BMP implementation, monitoring methods, reporting, and demonstrating compliance under Track 2. Related topics will include source identification, effective and sustainable solutions, data comparability, micro-debris, and relationships between trash and other potential pollutants.

Access the Online Agenda
For further details, the online conference agenda provides an up-to-date hourly view of the program, speakers, and panelists.
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Agricultural Water Quality Management • Groundwater

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![LARRY WALKER ASSOCIATES](image)

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![WOODARD & CURRAN](image)

![CDM Smith](image)

![AbTech](image)

TRACK SPONSORS

Track: Equity

![Brown and Caldwell](image)

Track: Legislation, Policy, Permitting, Legal

![RWG](image)

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![CDM Smith](image)

Track: Municipal Program Implementation

![TETRA TECH](image)

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![CleanWay](image)

Track: Stormwater Infrastructure and Natural Waterways

**Exhibitors** (for more information, see page 22)

- AbTech Industries
- ADS/BaySaver
- Bio Clean
- Citygreen
- City of San Diego (Host Program Sponsor)
- CleanWay Environmental Partners, Inc.
- Clear Water Services, LLC
- CloudCompli
- Contech Engineered Solutions, LLC
- Downstream Services, Inc.
- EnviroPod
- Filtrex International
- Frog Creek Partners
- Frog Environmental
- Jensen Water Resources
- METER Group, Inc.
- Oldcastle Infrastructure
- PACE Advanced Water Engineering
- Porous Technologies, LLC
- Revel Environmental Manufacturing, Inc.
- SCI Consulting Group
- StormTrap
- Stormwater Biochar, LLC
- StormwaterRx LLC
- United Storm Water, Inc.
- WaterTectonics
- Advanced Media Works, Inc.
The CASQA annual awards recognize outstanding projects, activities, and people in the stormwater management profession. To learn more about CASQA's 2020 awardees, look for the blue ribbons in the conference program.

OUTSTANDING BMP IMPLEMENTATION PROJECT OR PROGRAM

Brasada Estates Project
Brasada Homes Land, LLC

The Brasada Estates Project is a 273-acre residential and open space development located in the foothills of the San Gabriel Mountains in San Dimas, California. As an active construction site that recently completed the mass grading phase, it is being recognized for its outstanding temporary stormwater BMP implementation. This Risk Level 2 Project commenced its grading phase in April 2017, facing what would be the two rainiest seasons of the decade. The most intense challenge was realized during the period from December 2018 to the beginning of March 2019, when 20 inches of rain fell over a period of just three months. Protecting sensitive environmental areas was a major goal of the Project and 160 acres of land will remain as permanent open space and habitat conservation area after completion.

1. Rainfall retention on site through micro-retention basins
2. Erosion control blankets and fiber roll deployed on a series of steep, stepped slopes
3. Aerial view – Drones were used early on to identify potential sources of pollutants

OUTSTANDING BMP IMPLEMENTATION PROJECT OR PROGRAM

Turner Court LID Implementation and Demonstration Project
Alameda County Flood Control and Water Conservation District

The project is a demonstration and educational showcase for low-impact development (LID) – green infrastructure (GI) stormwater treatment facilities. The site is also a Bay Friendly-Rated project that incorporates Bay Friendly landscaping and site development features that reduce water usage and stormwater runoff, reduce waste to landfills, nurture soils to create drought resistant landscapes suited to the local environment, protect water and air quality by minimizing the use of synthetic pesticides, and reduce the use of fertilizers. The purpose of the project was to retrofit the two existing parking lots and add different, innovative types of LID features for demonstration and educational purposes to the community and contractors.

1. Educational sign developed for bioretention tree well feature
2. Newly-constructed bioretention area
3. Newly-installed rainwater harvest tank

Photos and illustrations courtesy of the respective awardees
OUTSTANDING SUSTAINABLE STORMWATER PROJECT OR PROGRAM

Living Arroyos
City of Livermore, City of Pleasanton, Livermore Area Recreation & Park District and Zone 7 Water Agency

Living Arroyos is a multi-agency partnership created in 2013 to enhance and maintain the Tri-Valley’s urban streams and streamside habitats. Living Arroyos’ partner members are Zone 7 Water Agency (Zone 7), the City of Livermore, City of Pleasanton, and Livermore Area Recreation and Park District (LARPD). The Living Arroyos program is unique because it goes beyond the once or twice a year creek clean-up events that have been traditionally used to involve the public in stream-related issues. The program aims to create “watershed ambassadors” who are connected to the arroyos in their own backyards and have a greater understanding of local water management issues that impact local streams. Watershed ambassadors are nurtured through three programs that are under the umbrella of Living Arroyos: • Internship Program • Volunteer Workdays • Adopt a Creek Spot Program

OUTSTANDING SUSTAINABLE STORMWATER PROJECT OR PROGRAM

Green Infrastructure Grant Program
San Francisco Public Utilities Commission

The San Francisco Public Utilities Commission’s (SFPUC) Green Infrastructure (GI) Grant Program is designed to encourage San Francisco property owners to design, build, and maintain performance-based green stormwater infrastructure. GI features can include permeable pavement, rainwater harvesting, rain gardens and vegetated roofs. The program is part of the SFPUC’s goal to remove 1B gallons of stormwater by 2050 through GI. The program was launched in February 2019 and is ongoing.

• $6.4M in funding was made available for first 2 years
• The maximum grant award is $765,000 per acre of impervious surface managed, up to $2 million per site.

OUTSTANDING SERVICE AWARDEES

Congratulations to the 2020 CASQA Outstanding Service Awardees

Daniel Apt
Lisa Austin
Tanya Bilezikian
Brian Currier
Sharon Gosselin
Kristina Hysler
Lisa Skutecki
Dave Tamayo
Matt Yeager
STORMWATER MANAGEMENT SIMPLIFIED

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Giving new life to California

Water, like life, in all forms is precious. Together, we are helping communities to create sustainable water supplies for the future. From stormwater capture to urban greening, we’re making the future brighter for everyone.
### MONDAY

5:00p–7:00p  **WELCOME RECEPTION** (Networking Events)  All conference registrants are welcome to join us virtually! This is a great way to break the ice in a speed dating format before the official start of the conference.

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### TUESDAY

#### 8:45a to 10:00a
**PLENARY SESSION**  
(Main Hall)

- **WELCOME AND OPENING REMARKS:** Amanda Carr, Chair – CASQA Board of Directors
- **HOST PROGRAM WELCOME:** Kris McFadden, Director - City of San Diego Transportation & Storm Water Department
- **OUTSTANDING SERVICE AWARDS ANNOUNCEMENT:** Amanda Carr
- **CONFERENCE SCHOLARSHIP PROGRAM AWARD ANNOUNCEMENT:** Amanda Carr
- **EXHIBITOR 15-YEAR AWARDS ANNOUNCEMENT:** Karen Ashby, Exhibitor Coordinator
- **CASQA AWARDS ANNOUNCEMENT:** Jamison Crosby, Chair – CASQA Awards Committee
- **KEYNOTE ADDRESS:** (Introduction by Amanda Carr)  Congressman Scott Peters

10:00a–10:30a  **BREAK AND EXHIBITOR FOCUS**  
(Exhibit Hall)

10:00a–5:00p  **EXHIBIT HALL OPEN**  
(Exhibit Hall)  Enter the Exhibitor Prize Drawing by visiting at least 10 booths and filling out their virtual badge scans by 4:00 PM on Wednesday, September 16.

10:00a–5:00p  **POSTER SESSION**  
(Poster Hall)

#### SESSION 1

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<td>Integrating Community</td>
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<td>Panel (90 minutes)</td>
<td>Systems Approach to Multi-Benefit</td>
<td>Caruthers Park Stormwater and Urban</td>
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<td>Speakers / Panelists: Amy Kizyasan</td>
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<td>Speakers / Panelists:</td>
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<td>Caruthers Park Stormwater and Urban Runoff Capture Project: Achieving Stormwater Harvest and Use Water Quality Compliance in Los Angeles County Chris Jensen Tetra Tech, Inc.</td>
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<td>State Water Resources Control Board</td>
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<td>Todd Snyder County of San Diego Amanda Booth</td>
<td>Lisa Duba</td>
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<td>Rich Muhi Central Valley Regional Water Quality Control Board</td>
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<td>Performance Measures for Annual WQIP Reporting: Good Metrics Increase Focus, Credit and Tracking Chad Poul Environmental Incentives</td>
<td>Can Laboratory Column Studies Really Predict Field-Scale BMP Performance? A Comparison of 10 Years of Field-Scale Performance Data With Original Bench-Scale Test Results</td>
<td>Bob Pitt University of Alabama</td>
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<td>Erica Ryan San Diego Regional Water Quality Control Board</td>
<td>Rising Waters: University-Agency Partnerships for Innovative Water Quality Solutions Claudia Lake Sonoma State University, Center for Environmental Inquiry</td>
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<td>11:00a to 11:30a</td>
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12:00p–1:30p  **LUNCH BREAK**
### SESSION 2

**Track: Construction and Post-Fire Response**

ROOM 1

- **Stormwater Discharge Sampling on LUP Projects: Solutions for Effective Sheet Flow Sampling**
  - Joseph McCadden
  - ETC

- **Training Workshop (2 hours)**
  - Showcasing Innovative Outreach and Education Efforts in the Virtual World
  - Jennifer Kaiser
  - Vallejo Flood & Wastewater District
  - Speakers / Panelists:
    - Mary Kelly
    - Kristina Hysler
    - Wood Environment & Infrastructure Solutions

- **Panel (60 minutes)**
  - Envision the Future – Funding is the Fuel to Get Us There
  - Moderator: Richard Watson
  - Speakers / Panelists:
    - Matt Fray
    - Los Angeles County
    - Jim Base
    - City of Alameda
    - Drew Kleis
    - City of San Diego
    - Jerry Bradshaw
    - SCI Consulting Group

- **Let's Talk More Trash: The Results from Phase II of a Scalable Trash Capture Study**
  - Jim Harry
  - City of San Diego

- **Training Workshop (2 hours)**
  - Moving the Needle – An Interactive Workshop on How to Make Your Stormwater Program Politically Relevant
  - Moderator: Jason Drew
  - NCE

- **Multi-Benefit Treatment System Sizing Procedure for Full-Capture Trash Compliance**
  - Brian Currier
  - Office of Water Programs at Sacramento State

**Track: Outreach and Education**

ROOM 2

- **Developing a Risk Assessment for a Linear Utility Construction Project: Making the Best Decisions for CPQ Compliance and Cost Effectiveness**
  - Kadi Whiteside
  - Southern California Edison

- **Tracking and Outreach Programs at LUP**
  - Lisa Skutecki
  - Brown and Caldwell

- **Visual Communications, Part II: Communication Strategies for Outreach Programs**
  - James Sanderson

**Track: Funding and Financing**

ROOM 3

- **ETIC**
  - Joseph McCadden

- **Economics of Stormwater Capture and Its Multiple Benefits**
  - Sarah Diringer
  - Pacific Institute

- **Envisioning No Trash and No Mosquitoes – Working Together for a Better Tomorrow**
  - Jennifer Henke
  - Mosquito and Vector Control Association of California

- **Training Workshop (2 hours)**
  - Methods to Quantify Stormwater Capture
  - Jennifer Henke
  - Mosquito and Vector Control Association of California

- **Making for Watershed Empowering Decision-Makers of Governments of San Mateo County**
  - Kristina Hysler
  - Mary Kelly and Associates

### SESSION 3

**Track: Construction and Post-Fire Response**

ROOM 1

- **Using Construction Storm Water as a Resource – What We Learned From the 2019-2020 Rainy Season**
  - Kelly Doyle
  - Rick Engineering Company

- **Training Workshop (2 hours) – continued**
  - Economics of Stormwater Capture and Its Multiple Benefits
  - Sarah Diringer
  - Pacific Institute

- **Evaluating Potential Methods to Quantify Stormwater Capture**
  - Sahand Rastegarpour
  - State Water Resources Control Board

- **Leveraging Federal Stormwater Infrastructure Projects: Lessons Learned from ARRA Stimulus of 2009**
  - Hawkeye Sheene
  - Shene Consulting

- **Spruce Street Channel: Lessons for Coordinating Wetland Permitting, Design, Grants, and Property Lines**
  - Elisa Marrone
  - City of Escondido

**Track: Outreach and Education**

ROOM 2

- **Caltrans’ New Water Pollution Control Manager Certification Requirements**
  - Hamid Haskim
  - Caltrans

- **Leveraging Federal Stormwater Infrastructure Projects: Lessons for Coordinating Wetland Permitting, Design, Grants, and Property Lines**
  - Hawkeye Sheene
  - Shene Consulting

- **Out of the Box Approach and Paradigm Shift to the Trash Policy**
  - Douglas Dowden
  - Independent Consultant

- **Spruce Street Channel: Lessons for Coordinating Wetland Permitting, Design, Grants, and Property Lines**
  - Elisa Marrone
  - City of Escondido

**Track: Funding and Financing**

ROOM 3

- **Evaluating Potential Methods to Quantify Stormwater Capture**
  - Sahand Rastegarpour
  - State Water Resources Control Board

- **Evaluating Potential Methods to Quantify Stormwater Capture**
  - Sahand Rastegarpour
  - State Water Resources Control Board

- **Funding is the Fuel to Envision the Future – Panel**
  - Reid Bogert
  - Rick Engineering Company
  - City/County Association of Governments of California

- **City of San Diego**
  - Jim Harry
  - City of San Diego

**Track: Trash**

ROOM 4

- **Training Workshop (2 hours)**
  - Moving the Needle – An Interactive Workshop on How to Make Your Stormwater Program Politically Relevant
  - Moderator: Jason Drew
  - NCE

- **Multi-Benefit Treatment System Sizing Procedure for Full-Capture Trash Compliance**
  - Brian Currier
  - Office of Water Programs at Sacramento State

- **Spruce Street Channel: Lessons for Coordinating Wetland Permitting, Design, Grants, and Property Lines**
  - Elisa Marrone
  - City of Escondido

**Track: Municipal Program Implementation**

ROOM 5

- **2020 CASQA Awardees: Outstanding Sustainable Stormwater Project or Program: Living Arroyos**
  - Steven Aguiar
  - City of Livermore

- **Beyond Design Storms: Sizing Stormwater BMPs to Maximize Multiple Benefits in Los Angeles County**
  - TJ Moon
  - Los Angeles County

**Track: Stormwater Infrastructure and Natural Waterways**

ROOM 6

- **Multiple Objectives of Restoring Natural Waterways**
  - Reid Bogert
  - Rick Engineering Company
  - City/County Association of Governments of California

- **Beyond Design Storms: Sizing Stormwater BMPs to Maximize Multiple Benefits in Los Angeles County**
  - TJ Moon
  - Los Angeles County

**Track: CASQA Awardees**

ROOM 7

- **Los Peñasquitos Lagoon Restoration: Restoring Natural Processes to Address Multiple Objectives of Water Quality, Water Resource, Restoration and Flood Management**
  - David Pohl
  - Burns & McDonnell

- **Empowering Decision-Making for Watershed Management – Launch of the Los Angeles County Watershed Management System (WEMS)**
  - TJ Moon
  - Los Angeles County

- **Spruce Street Channel: Lessons for Coordinating Wetland Permitting, Design, Grants, and Property Lines**
  - Elisa Marrone
  - City of Escondido

- **2020 CASQA Awardees: Outstanding Sustainable Stormwater Project or Program: Living Arroyos**
  - Steven Aguiar
  - City of Livermore
INDUSTRY-LEADING PROVIDERS OF STORMWATER AND WATERSHED SOLUTIONS FOR CURRENT AND FUTURE GENERATIONS

- Green Stormwater Infrastructure Planning, Design, and Design-Build Delivery
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- Construction NPDES Compliance (CGP)
- Litigation/Expert Witness Support
- Alternative Compliance Programs
- Public-Private-Partnerships, Pay-for-Performance, and Alternative Delivery
- Targeted and Innovative Source Controls
- Triple Bottom Line, Environmental and Sustainability Management Systems

5:00p–7:00p TUESDAY EVENING RECEPTION (Networking Events) A unique opportunity to socialize after a day of presentations and enjoy stormwater-themed games with fellow conference attendees.
## Wednesday, September 16

**8:00a–8:30a**  EXHIBITOR FOCUS  ([Exhibit Hall](http://example.com))

**8:00a–5:00p**  EXHIBIT HALL OPEN  ([Exhibit Hall](http://example.com)) Enter the Exhibitor Prize Drawing by visiting at least 10 booths and filling out their virtual badge scans by 4:00 PM on Wednesday, September 16.

**8:00a–5:00p**  POSTER SESSION  ([Poster Hall](http://example.com))

### SESSION 5

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<tr>
<td>8:30a to 9:00a</td>
<td>Panel (90 minutes) Envisioning the Future of Post-Fire Response and Funding  &lt;br&gt; Moderator: Mike Harding Independent Environmental Consultant  &lt;br&gt; Speakers / Panelists: Miguel Parames and Kathleen Harrison, Geosyntec Consultants, Inc.  &lt;br&gt; Robert Leeper  &lt;br&gt; Leeper Aerial  &lt;br&gt; Ivan Holler  &lt;br&gt; City of Murrieta</td>
<td>Panel (90 minutes) The California Water Quality Monitoring Council – Better Science by Collaboration  &lt;br&gt; Moderator: Grant Sharp  &lt;br&gt; County of Orange  &lt;br&gt; Speakers / Panelists: Nicholas Martorano, Paul Harr, Anna Holder, and Karen Black  &lt;br&gt; State Water Resources Control Board  &lt;br&gt; Eric Stein  &lt;br&gt; Southern California Coastal Water Research Project  &lt;br&gt; Dalia Fadl  &lt;br&gt; City of Rancho Cordova  &lt;br&gt; Kaitlyn Kalua, California Coastkeeper Alliance  &lt;br&gt; Alisha Wenzel  &lt;br&gt; Central Valley Regional Water Quality Control Board</td>
<td>Vendor Roundtable (90 minutes) Advanced Treatment for Industrial Stormwater  &lt;br&gt; Moderator: Sean Porter  &lt;br&gt; Apex  &lt;br&gt; Speakers / Panelists: Stacey Grosvener  &lt;br&gt; Evoqua Water Technologies  &lt;br&gt; Kristine Sommer  &lt;br&gt; Clear Water Services  &lt;br&gt; Matt Mahoney  &lt;br&gt; Clear Creek Systems</td>
<td>Panel (90 minutes) Stormwater Harvesting in California: A Panel of Experts Discuss their Experiences, Challenges and the Path Forward  &lt;br&gt; Moderators: Chad Helme  &lt;br&gt; Craftwater Engineering, Inc.  &lt;br&gt; David Pohl  &lt;br&gt; Burns &amp; McDonnell</td>
<td>Innovative Project Delivery Practices Successfully Pioneered by the Los Angeles Green Stormwater Infrastructure Program  &lt;br&gt; Ken Susilo  &lt;br&gt; Geosyntec Consultants, Inc.</td>
<td>Building a Living Model – Quantifying Stormwater Capture and Pollutant Load Reduction Directly from a Water Quality Asset Inventory  &lt;br&gt; Eric Rademacher  &lt;br&gt; County of Orange</td>
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<td>9:00a to 9:30a</td>
<td>BMP Information for Private Property Rebates and Incentives Programs In Southern California  &lt;br&gt; Jamie Milani  &lt;br&gt; County of San Diego</td>
<td>Green Streets in San Diego – A Virtual Tour of Completed Green Streets Projects in the San Diego Region  &lt;br&gt; Shavger Rekani  &lt;br&gt; Rick Engineering Company</td>
<td>Adaptive Management of Municipal Street Sweeping and Catch Basin Cleaning Operations in the Digital Age  &lt;br&gt; Bethany Bezak  &lt;br&gt; City of San Diego</td>
<td>The Win-Win-Win Scenario for Paso Robles’ Stormwater Program, Regulators, and Developers. Off-Site Alternative Compliance Plan and Stormwater Project Financing on the Central Coast  &lt;br&gt; David LaCaro  &lt;br&gt; City of Paso Robles</td>
<td>Unincorporated Los Angeles County Green Streets Master Plan: Evaluating Green Street Alternatives and Lessons Learned From Preliminary Design  &lt;br&gt; Russ Vadenais  &lt;br&gt; CDM Smith</td>
<td>Going Digital: Utilizing Technology to Prioritize and Cost Effectively Maintain Stormwater Infrastructure  &lt;br&gt; Bethany Bezak  &lt;br&gt; City of San Diego</td>
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### Follow the CASQA Conference on Social Media: #CASQAtogether

- twitter.com/CASQA_org
- linkedin.com/company/california-stormwater-quality-association

**10:00a–10:30a**  BREAK AND EXHIBITOR FOCUS  ([Exhibit Hall](http://example.com))
<table>
<thead>
<tr>
<th>SESSION 6</th>
<th>Track: Construction and Post-Fire Response</th>
<th>Track: Monitoring and TMDL Implementation</th>
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<th>Track: Municipal Program Implementation</th>
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<td>10:30a to 11:00a</td>
<td>Panel (60 minutes) Changing the Paradigm of Stormwater Management and Compliance on Construction Sites – Removing the Stigma Through Teamwork</td>
<td>A Watershed Event for the Middle Santa Ana River Watershed: Quantitatively Parsing Fecal Bacteria Loads Between MS4 and Non-MS4 Sources</td>
<td>Structural BMP Implementation and Bypass: How Big Does My Capture and Treatment System Need to Be and Do I Still Have to Sample Bypass to Comply With the IGP?</td>
<td>Protecting Groundwater from Impacts Associated with Enhanced Infiltration of Urban Runoff – Thoughts and Ideas</td>
<td>Envisioning the Future of BMP Inventory Management and Inspection Programs</td>
<td>Development of a System to Track and Visualize the Benefits of Green Infrastructure in San Mateo County</td>
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<td>Speakers / Panelists: Chris Nichols Pardee Homes Douglas Dowden Independent Consultant Kim Aldrich Lenner</td>
<td>Steven Wolosoff CDM Smith</td>
<td>David Rentfrew NV5, Inc.</td>
<td>Christopher Beegan State Water Resources Control Board</td>
<td>Cynthia Mallett City of San Clemente</td>
<td>Matthew Fabry City/County Association of Governments of San Mateo County</td>
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<td>Kenneth Schiff Southern California Coastal Water Research Project (SCCWRP)</td>
<td>Ron Hayes KERAMIDA, Inc.</td>
<td>Jacob Peterson PACE Advanced Water Engineering</td>
<td>Maggie McCormick City of San Diego</td>
<td>Nicholas Tecco University of Minnesota</td>
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12:00p–1:30p LUNCH BREAK

### Earn Professional Development Credits

Professional Development Verification forms are available by clicking ‘Continuing Education’ in the menu bar of the CASQA 2020 Virtual Conference portal.

#### 2020 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 Storm Water Quality (CPSWQ)
- California Water Environment Association (CWEA)
- Minimum Continuing Legal Education (MCLE)
- Professional Engineers (PE)

![Click here to learn more.](external-url)
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<tr>
<td>ROOM 1</td>
<td>Use of Remote Sensing Technologies to Monitor Revegetation at Remote Construction Sites and Wildfire Burn Areas</td>
<td>San Luis Rey Wet Weather Bacteria Source Identification Study, Phases I and II</td>
<td>Utilizing Stormwater Basins to Satisfy Permit Requirements</td>
<td>Building the Stormwater Harvesting Roadmap in San Diego</td>
<td>Training Workshop (2 hours) Sustainable Streets Master Planning Workshop – Integrating Stormwater into Transportation Investments</td>
<td>Panel (60 minutes) The State and Future of Stormwater, a National Perspective</td>
</tr>
<tr>
<td>ROOM 2</td>
<td>Water Quality of Coastal Watersheds Following the Woolsey Wildfire: Surface Water Quality of Pollutants of Concern Before and After Fire, and Mitigating the Impact of Wildfires Through Stormwater Management Techniques</td>
<td>Use of Advanced Analytical Tools to Identify Dry Weather MS4 Flows in South Orange County</td>
<td>IGP Case Studies on Treatment and Treatment Avoidance</td>
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<td>Development of a Stream Restoration and Protection Prioritization Tool</td>
<td>Vicki Kalkirtz City of San Diego</td>
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- Stormwater Best Management Practices (BMPs)
- Stormwater Management Design/Flood Mitigation
- Stormwater Sampling and Analysis
- Auto-sampling Equipment, Flow Monitoring, Long Term Data Logging
- Data Assessment and Annual Report Preparation
- Erosion Control Plans/Compliance Assessments
- Hydrologic Modeling
- Laboratory Support, Planning, Review, Data Assessment and Validation
- Commercial/Industrial Inspections
- Construction Inspections and BMP
- Weather Forecasting, Tracking, and Rainfall Assessments for Stormwater Compliance

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## SESSION 8

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<tr>
<td>1</td>
<td>Training Workshop (2 hours)</td>
<td>PFAS in Stormwater: What We’ve Learned and the Path Forward</td>
<td>No Smoking Gun? How Do We Address Chronic but Low-Level Fecal Contamination? (A Case Study)</td>
<td>Using IGP Enforcement Trends to Steer Clear of Violations</td>
<td>Port of Long Beach Recycled Water and Stormwater Harvesting Feasibility Study – Conserving Potable Water and Protecting Water Quality</td>
<td>Training Workshop (2 hours) – continued</td>
<td>Engagement for People’s Sake – Phasing and Dynamic Outreach for Sustainable Street Master Planning in San Mateo County</td>
<td>ArcGIS Online Tools for Virtually Communicating, Collaborating and Managing Data for Watershed Management Planning</td>
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<td></td>
<td>Brandon Steels Geosyntec Consultants, Inc.</td>
<td>Michelle Mattson and Lisa Kammer Weston Solutions, Inc.</td>
<td>Edward Burns Wood Environment &amp; Infrastructure Solutions</td>
<td>Christine Tolchin County of San Diego</td>
<td>Ed Othmer Stantec</td>
<td>Reid Bogert City/County Association of Governments of San Mateo County</td>
<td>The Future of City Inspections Using Mobile GIS and Smart Form Surveys</td>
<td>Joyce Goode CASC Engineering and Consulting</td>
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<tr>
<td>2</td>
<td>PCBs TMDL Load Reduction Accounting for Source Control Measures</td>
<td>Southern California Wildfire, Harmful Algal Bloom, and Fish Kill in Lake Elsinore, CA</td>
<td>Water Balance Modeling to Demonstrate On-Site Compliance Option Criteria</td>
<td>Optimizing Best Management Practices and Sustainability with an Integrated Drainage Plan – County of San Diego, California</td>
<td>Tijuana River Valley Needs and Opportunities Assessment: Strategies to Improve Water Quality</td>
<td>Embracing the Future of Stormwater Engagement – In Real Time</td>
<td>Digital Transformation is Revolutionizing Stormwater Programs: How to Be Ready for Changes Ahead</td>
<td>Michelle Tanner 2NDNATURE</td>
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3:35p–4:00p BREAK AND EXHIBITOR FOCUS (Exhibit Hall)

## SESSION 9

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3:35p–4:00p BREAK AND EXHIBITOR FOCUS (Exhibit Hall)

THANK YOU FOR JOINING US. See You October 25–27, 2021 at the Sacramento Convention Center!
CASQA is pleased to include a poster session at the conference, adapted to the online format.

**Oral Presentation + Poster Presentation**

**Stormwater Discharge Sampling on LUP Projects: Solutions for Effective Sheet Flow Sampling**
Joseph McCadden, ETIC

**Water Quality of Coastal Watersheds Following the Woolsey Wildfire: Surface Water Quality of Pollutants of Concern Before and After Fire, and Mitigating the Impact of Wildfires Through Stormwater Management Techniques**
Sophia Barron, Michael Baker International

**Structural BMP Implementation and Bypass: How Big Does My Capture and Treat System Need to Be and Do I Still Have to Sample Bypass to Comply With the IGP?**
David Rentfrew, NV5, Inc.

**Industrial Facilities Research and MS4 Review**
Christine Tolchin, County of San Diego

**Green Streets in San Diego - A Virtual Tour of Completed Green Streets Projects in the San Diego Region**
Shavger Rekani, Rick Engineering Company

**Unincorporated Los Angeles County Green Streets Master Plan: Evaluating Green Street Alternatives and Lessons Learned From Preliminary Design**
Russ Vadensai, CDM Smith

**Poster Presentation**

**2020 CASQA Awardee: Outstanding Sustainable Stormwater Project or Program: San Francisco Public Utilities Commission Green Infrastructure Grant Program**
Sarah Bloom, San Francisco Public Utilities Commission

**Proposition 50 Chollas Creek Runoff Reduction and Groundwater Recharge BMPs in the San Diego Bay Watershed: Operation and Maintenance Challenges and Solutions, and Lessons Learned from the Porous Asphalt and Bioswale BMP Pilot Study**
Jeanne BenVau, Michael Baker International

**A Study to Identify the Most Suitable Remote Sensing Technology to Estimate Urban Irrigation and Assess the Conservation Potential for Southern California**
Mehek Gupta, NV5, Inc.

**Integrated Strategies to Reducing RV Waste Disposal Pollution**
Joey Schmitt, Action Research

**A Community Based Social Marketing Approach to Changing Stormwater Behavior in San Diego**
Chelsea McGimpsey, County of San Diego

**GIS Applications in Sustainable Stormwater Management**
Michelle Hallack, NV5, Inc.

**Using Emotional Connections With Audiences to Create a Successful Digital Marketing Campaign**
Angie Lee, SGA Marketing

**Where’s My BMP and Where Do I Click? Using Online Tools for Property Owners in Annual O&M Verification of Structural BMPs**
Gladys Gonzalez, County of San Diego

**An Environmentally Relevant Approach for Stormwater Toxicity Testing Compliance Monitoring**
Chris Stransky, Wood Environment & Infrastructure

**Tools of the Trade and Making the Call During the Wet Weather Season**
Garth Engelhorn, NV5, Inc.

**Scholarship Program Poster Presentation**

**2020 CASQA Conference Scholarship Awardee: City of Palo Alto Stormwater Measures Rebate Program Revitalization**
Avery Morgan, Intern at City of Palo Alto

**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 has been 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!

➢ Learn more about who we are and what we do.

➢ Become a Friend of CASQA.
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CASQA is proud to feature the following exhibitors. Note the virtual booths are open for browsing at any time. If you would like to interact directly with a booth representative, please refer to the Exhibit Hall hours below. You may also be able to book an appointment with an exhibitor representative at a time convenient for you.

### Exhibit Hall Hours

**Tuesday, September 15**
- Exhibit Hall Open: 10:00 am – 5:00 pm
- Break and Exhibitor Focus: 10:00 am – 10:30 am
- Break and Exhibitor Focus: 3:35 pm – 4:00 pm

**Wednesday, September 16**
- Exhibit Hall Open: 8:00 am – 5:00 pm
- Break and Exhibitor Focus: 10:00 am – 10:30 am
- Break and Exhibitor Focus: 3:35 pm – 4:00 pm

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<tr>
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<th>Contact Person</th>
<th>Address</th>
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<th>Website</th>
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<tbody>
<tr>
<td>AbTech Industries</td>
<td>Adrianna Lash</td>
<td>4110 N. Scottsdale Rd.</td>
<td>(928) 308-0769</td>
<td>abtechindustries.com</td>
</tr>
<tr>
<td>City of San Diego (Host Program Sponsor)</td>
<td>Anthony Santacroce</td>
<td>Mail Station 4, 202 W. C St.</td>
<td>(619) 602-2805</td>
<td>sandiego.gov/thinkblue</td>
</tr>
<tr>
<td>Contech Engineered Solutions, LLC</td>
<td>Jill Black</td>
<td>9025 Centre Pointe Drive</td>
<td>(800) 338-1122</td>
<td>conteches.com</td>
</tr>
<tr>
<td>ADS/BaySaver</td>
<td>Jim Ficker</td>
<td>11311 NE 99th Circle</td>
<td>(503) 956-1031</td>
<td>ads-pipe.com</td>
</tr>
<tr>
<td>Bio Clean</td>
<td>Sean Hasan</td>
<td>5796 Armada Drive, Suite 250</td>
<td>(855) 566-3938</td>
<td>biocleanenvironmental.com</td>
</tr>
<tr>
<td>CleanWay Environmental Partners, Inc.</td>
<td>Alison Stephens</td>
<td>PO Box 30087</td>
<td>(601) 23-1373</td>
<td>cleanwayusa.com</td>
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<tr>
<td>Downstream Services, Inc.</td>
<td>Mary Sullivan</td>
<td>2855 Progress Place</td>
<td>(760) 746-2544</td>
<td>downstreamservices.com</td>
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<tr>
<td>Citygreen</td>
<td>Ben Gooden</td>
<td>5450 West 83rd Street</td>
<td>(888) 999-3990</td>
<td>citygreen.com</td>
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<td>CloudCompli</td>
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<td>3339 Harness Dr.</td>
<td>(209) 200-7841</td>
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<td>Clear Water Services, LLC</td>
<td>Kristine Sommer</td>
<td>2525 West Casino Rd., Ste. 7A</td>
<td>(661) 878-1450</td>
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<td>Company Name</td>
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<td>Frog Creek Partners</td>
<td>Brian Deurloo, 800 W. Yellowstone Hwy., Casper, WY 82601, (307) 797-7720, frogcreek.partners</td>
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<td>Frog Environmental</td>
<td>Terry Balog, 24426 S. Main St. #701, Carson, CA 90745, (310) 241-0866, frogenv.com</td>
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<td>Jensen Water Resources</td>
<td>Walt Stein, 521 Dunn Circle, Sparks, NV 89431, (775) 440-2025, jensencast.com/water-resources</td>
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<td>Oldcastle Infrastructure</td>
<td>Xianyu Zhang, 7000 Central Parkway, Suite 800, Atlanta, GA 30328, (323) 430-3138, oldcastleinfrastructure.com</td>
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<td>PACE Advanced Water Engineering</td>
<td>Michelle Holton, 17520 Newhope St., Suite 200, Fountain Valley, CA 92708, (714) 481-7300, pacewater.com</td>
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<td>Porous Technologies, LLC</td>
<td>Will Harris, Western Region Sales Manager, 34428 Yuccaipa Blvd., Yucaipa, CA 92399, (909) 654-0869, stormcrete.com</td>
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<td>Bob Marchant, 960 B Detroit Ave., Concord, CA 94518, (688) 526-4736, remfilters.com</td>
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<td>John Bliss, 4743 Mangels Blvd., Fairfield, CA 94534, (707) 430-4300, sci-cg.com</td>
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<td>StormTrap</td>
<td>Charlie Carter, Territory Manager, 1287 Windham Parkway, Romeoville, IL 60446, (615) 941-4549, stormtrap.com</td>
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<td>Ryan Holman, 6628 SE 68th Ave., Portland, OR 97206, (503) 789-6760, stormwaterbiochar.com</td>
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<td>Chris Fromme, Regional Manager, Southwest, 8912 NE Alderwood Rd., Portland, OR 97220, (800) 680-3543, stormwaterx.com</td>
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<td>Lydia Perry / Daniel Perry, Jr., 14000 E. Valley Blvd., Industry, CA 91746, (626) 890-7078, unitedstormwater.com</td>
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<td>TJ Mothersbaugh, 6300 Merrill Creek Parkway, Suite C-100, Everett, WA 98203, (425) 349-4200, watertectonics.com</td>
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<tr>
<td>Advanced Media Works, Inc.</td>
<td>Jason Lawrence, 22431 Antonio Parkway, Suite B160-268, Rancho Santa Margarita, CA 92688, (714) 235-4677, advancedmediaworks.com</td>
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</tbody>
</table>

Exhibitor Prize Drawing

To be entered into the Exhibitor Prize Drawing visit at least 10 booths and fill out their virtual badge scans by 4:00 PM on Wednesday, September 16. The live drawing will be held in the Main Hall at 5:05 PM that day.
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