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Photo by Laura Marie Anthony

Host Program Sponsor
For the first time, the California Stormwater Quality Association (CASQA) Annual Conference will be held in downtown Sacramento, just a few steps away from the historic State Capitol Building. The 2017 conference theme reflects the location at the heart of California government. Building bridges for communication and collaboration is vital to successfully managing the quality and quantity of the stormwater resource in California.

Stormwater receives pollutants from ubiquitous sources, the types of potential pollutants regulated are continuously increasing, and the ability of an agency to control or treat many of the pollutants does not exist at the local level. However, controls do exist or can be created through partnerships with State level agencies such as the State Water Resources Control Board, Department of Pesticide Regulation, and Department of Toxic Substances Control. The conference will bridge the typical gaps between agencies by bringing those agencies together to both learn from successful efforts and discuss new efforts to address issues that cut across organizational, regulatory, and technical boundaries.

As evident from the recent historic drought, water in all its forms is a precious and finite resource subject to competing priorities for public supply, flood safety, groundwater protection, agricultural allocation, and habitat preservation. Since major decisions on water are made in Sacramento, the CASQA conference will be looking at the broader issues of water management, of which urban stormwater is an important and growing component. The conference will highlight integrated and innovative water planning processes, including the experiences of national and international partners, and the ways in which urban stormwater can become a greater resource.

CASQA is the largest professional association dedicated to stormwater quality issues. For almost 30 years, CASQA has assisted municipalities, special districts, businesses, the state of California, and the United States Environmental Protection Agency (U.S. EPA) in developing and implementing effective stormwater quality management programs in response to municipal, industrial, and construction National Pollutant Discharge Elimination System (NPDES) stormwater permit requirements.

JOIN CASQA

CASQA is a non-profit professional member association dedicated to the advancement of stormwater quality management through collaboration, education, implementation guidance, regulatory review, and scientific assessment. Regular or affiliate membership in CASQA is open to organizations and individuals in the stormwater field, whether holders of NPDES permits or not.

If you are not currently a member, by joining now, you can receive substantial reductions on the 2017 conference as well as receiving all the other benefits of membership (newsletters, downloadable products, quarterly meeting discounts, etc.).

CASQA membership provides substantial benefits even if you are based outside California.
IN-DEPTH TRAINING WORKSHOPS  Monday, September 25, 2017

The 2017 Training Workshops include seven half-day and three full-day training workshops, as well as one full-day field tour. Attendee registration includes two half-day training workshops, one full-day training workshop, or the full-day field tour. Webcast registration includes the half-day and full-day training workshops, but does not include the full-day field tour. Viewers may “channel surf” between the training workshops.

For full Training Workshop overview descriptions, please visit our website: www.casqa.org/events/annual-conference/conference-programs/training-workshops

FULL DAY

Field Tour: A Stroll through Sacramento (limited number of participants) Tour Sacramento stormwater treatment and low impact development sites.

Industrial: Implementation and Upcoming Challenges With the second full year of the new Industrial General Permit (IGP) officially complete, this training workshop will focus on challenging aspects of compliance with the IGP, as well as lessons learned. Regulators, industry representatives, attorneys, and stormwater practitioners will address: Case studies and compliance strategies; Exceedance Response Action (ERA) Level 1 & 2 questions / comments / clarifications; Total Maximum Daily Load (TMDL)-specific permit requirements; and, Best Management Practices (BMP) effectiveness on a variety of pollutants of concern.

International Low Impact Development The training workshop is intended to bring together practitioners from different countries to engage with CASQA in a discussion of Low Impact Development (LID) approaches and related initiatives (Sponge City, green infrastructure, sustainable development, etc.). The workshop will look at common values shared, innovative approaches, research being undertaken, engineering standards being applied, and assessments of effectiveness.

Watershed-Based Permits: Working Together for a Healthy Watershed This training workshop will review and discuss the current state of watershed based stormwater programs, challenges uncovered through planning and early implementation, and important lessons learned. It will explore perspectives on watershed planning outside of the stormwater arena, focusing on future opportunities with new and existing partners, such as water agencies and wastewater agencies.

HALF DAY – MORNING

BMP/Trash Design: Lessons Learned from Trash and BMP Design This training workshop will focus on the selection and design of specific BMPs to meet various regulatory requirements, such as the trash amendments, water quality, and hydromodification.

Financing: Bridging the Great Funding Divide This training workshop presents ideas on the current municipal funding situation and what can be done to solve the funding challenges. The causes of the funding divide will be dissected and current attempts to bridge the divide will be analyzed. The workshop will examine several possible funding sources.

Legal: There’s a Lot Going on in Water Quality Law! This training workshop will provide an update on Municipal Separate Storm Sewer System (MS4) proceedings pending before the Commission on State Mandates and related appellate decisions, MS4 permit challenges currently before the State Water Board, and a panel discussion on national water quality policy under the current Presidential administration, including the waters of the U.S. rule and changes at the U.S. EPA.

HALF DAY – AFTERNOON

Construction: Construction Sampling – From Forecasting through Data Submittal (limited to 70 participants) This training workshop will provide a forum for the presentation and discussion of sampling methodologies and techniques to meet regulatory requirements of the Construction General Permit for pH and turbidity.

Monitoring: Plan Twice, Measure Once: Theory, Art, and Science of Flow Monitoring This training workshop will explore ways to collect better flow data. Attendees will have the opportunity to review and evaluate their understanding of different flow regimes and “develop” wet and dry weather programs to address various study questions. This workshop will explore different MS4 and receiving water sites, flow monitoring protocols, monitoring equipment and other factors that may impact measured flow.

Outreach: Reaching Politicians, Residents, and Stakeholders: How to Create Engagement and Support for Your Program This training workshop is focused on the various aspects of communicating your message. It will cover changing behavior through Community Based Social Marketing; effective strategies for implementing online marketing; developing a strategic Pollutant - Source - Solution matrix to develop your public education strategy, and creating engaging public campaigns.

Sustainable Stormwater Management: Eureka! California’s New Gold: Stormwater Capture and Use This training workshop will provide an understanding and current status of stormwater capture and use in California, including examples of projects at different scales. Conducive site-specific conditions for stormwater capture and use (e.g., utilizing existing infrastructure, finding sites in proximity to recharge areas, and having partnerships with other agencies) will be discussed.

The International Low Impact Development training workshop is being held in cooperation with the World Future Council.

World Future Council
**TRACK DESCRIPTIONS**

The conference program will feature two full days of concurrent session presentations (September 26 and 27). Each of the major tracks for the concurrent session presentations is outlined below and is described in more detail on the CASQA website.

**Collecting, Managing, and Using Data**

Data is an important basis for managing stormwater programs and is even more important as we build bridges to other environmental sectors and agencies. This track will focus on innovative ways analytical, spatial, programmatic, and infrastructure data is gathered, stored, and considered for stormwater managers to use data effectively.

**Key topic areas:** • Monitoring • GIS and infrastructure • Asset management data • Implementation tracking • Open data • Emerging data management techniques • Effectiveness evaluation

**Construction**

Construction stormwater compliance by its nature builds bridges as it impacts all water sectors. This track will focus on proven and innovative strategies to resolve construction issues and maintain compliance.

**Invited Panels/Forums:** • QSD/QSP Forum • Regulatory Panel • Trainer of Record Forum: Construction General Permit

**Key topic areas:** • Site management and cost control • Construction issues and resolutions • Innovative use of BMPs and controls • Monitoring and sampling • Linear utilities and overhead project BMP implementation • Case studies

**Industrial**

Strategic approaches for industrial stormwater management and innovative treatment are key supports for bridging stormwater compliance issues at industrial facilities and will be covered in this track.

**Key topic areas:** • Pollutants of concern/pollutant source assessment • Strategic approaches to compliance • Innovative BMP design/treatment • Exceedance Response Action Levels 1 and 2 • Monitoring • TMDLs • CWA citizen suits

**Municipal Programs**

This track will focus on the challenges and solutions in implementing a municipal stormwater program and opportunities to build bridges between municipal stormwater programs and other environmental sectors and agencies.

**Key topic areas:** • Phase II traditional programs • Inspection / enforcement • New development / redevelopment • Outreach / participation / involvement • Funding • Maintenance • Program effectiveness evaluation / adaptive management • Emerging regulations • Green infrastructure / retrofit planning and implementation • Inter-agency / Intra-agency coordination

**Strategy to Optimize Resource Management of Storm Water (STORMS)**

**Invited Panel**

Core Implementation Committee representatives and State Water Board Staff will provide updates and panel discussion on STORMS.

**Stormwater BMP Implementation**

Stormwater BMPs provide the physical infrastructure connecting all water issues, ranging from improving stormwater quality, protecting natural channels from hydromodification, preventing flood impacts to property, recharging groundwater, to providing the opportunities for rainwater harvesting. This track will focus on all forms of stormwater treatment, BMP design considerations, effectiveness assessment, and adaptability.

**Key topic areas:** • BMP design / treatment / maintenance / adaptive management • LID / green infrastructure • Quantity control • Stormwater capture and use • Effectiveness evaluation and adaptability

**Stormwater Science and Planning**

The stormwater community builds bridges to other water and environmental sectors through forward-thinking science and planning. This track will include consideration of early planning issues and emerging science and technologies.

**Key topic areas:** • Emerging science and technologies • TMDLs • Pollutants of concern • Trash • Watershed management planning and funding • Modeling • Reasonable assurance analysis • Alternative compliance • Intra-agency permitting and coordination / funding • CEQA / NEPA / addressing stormwater early in the planning process

**Sustainability**

Sustainable practices build the basis for the interconnections of all water. This track will look at the sustainable practices, legal requirements, and programs that build the bridges between stormwater and other environmental sectors and highlight ongoing efforts and where further integration may take us in the future.

**Key topic areas:** • Recycled water / stormwater • Water supply • Water rights • Integrated regional water management plans • Stormwater resources plans • Groundwater recharge / Sustainable Groundwater Management Act planning • Adaptability / climate change • Asset management • Cross-agency / media collaboration approaches • Social, economic, and environmental equity
Thinking of water in new ways

Delivering clean water reliably for generations to come means getting creative.

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Join the dialogue at bc1Water.com
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<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>4:00p–7:00p</td>
<td>REGISTRATION DESK AND CONFERENCE SERVICES (Convention Center West Lobby)</td>
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<tr>
<td>5:00p–6:00p</td>
<td>NEW MEMBER–NEW ATTENDEE EVENT – Time to be confirmed (Hyatt Regency Capitol View Room - 15th Floor)</td>
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**MONDAY**

<table>
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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>7:30a–5:30p</td>
<td>REGISTRATION DESK AND CONFERENCE SERVICES (Convention Center West Lobby)</td>
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<tr>
<td>10:00a–5:00p</td>
<td>POSTER SESSION (Convention Center 2nd Floor Landing)</td>
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<tr>
<td>12:00p–6:00p</td>
<td>EXHIBIT HALL OPEN (Convention Center Hall E and West Lobby)</td>
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### OFF-SITE FIELD TOUR

**Field Tour**

A Stroll through Sacramento  
Moderator: Melanie Sotelo, CASC Engineering and Consulting, Inc.  
Tour Sacramento stormwater treatment and low impact development sites.  
(Takes place offsite; Limited number of participants)

### TRAINING WORKSHOPS

#### Legal

- **There's a Lot Going on in Water Quality Law!**
  - **MORNING**
    - **Room:** Convention Center 103–105
  - **MODERATOR:** Ryan Baron, Best Best & Krieger LLP
  - **FACULTY:**
    - Matt Lentz, GSI Environmental, Inc.
    - Chris Crompton, County of Orange
    - Paul Hartman, Larry Walker Associates
    - Raina Dwivedi, Tetra Tech

#### Industrial Implementation and Upcoming Challenges

- **FULL DAY**
  - **Room:** Convention Center 202
  - **MODERATOR:**
    - Welcome/Opening Remarks
    - State Update: Alternative Compliance, Unfunded Mandates and Other Proceedings Speakers TBD  
    - Speaker TBD
    - Overview Chris Crompton, County of Orange
    - LID/Green Infrastructure Around the World A Multi-Continent Overview Daniel Apt, Olaunu
    - LID in the International BMP Database Eric Streecker, Geosyntec Consultants
    - LID Manuals and Guidance Speaker TBD
    - Introduction Working Together for a Healthy Watershed Paul Hartman, Larry Walker Associates
    - Watershed Planning and Collaboration Watershed Management: Going Beyond the “Iterative Process” in Orange County Richard Boon, County of Orange
    - Watershed-Based Implementation Watershed Implementation – Experiences in Los Angeles County Paul Alva, County of Orange

#### International Low Impact Development

- **FULL DAY**
  - **Room:** Convention Center 203
  - **MODERATOR:**
    - Introduction Jeremy Laurin, Pacific Gas & Electric Company; Matt Lentz, GSI Environmental, Inc.
    - Stormwater Sampling – Don't Underestimate the Value of a Good Sample Hans Kramer, Terraphase Engineering, Inc.
    - Planning for the TMDL Permit Re-Opener Speaker TBD

#### Watershed-Based Permits

- **FULL DAY**
  - **Room:** Convention Center 204
  - **MODERATOR:**
    - Overview Chris Crompton, County of Orange
    - LID/Green Infrastructure
    - LID in the International BMP Database
    - LID Manuals and Guidance
    - Introduction Working Together for a Healthy Watershed Paul Hartman, Larry Walker Associates
    - Watershed Planning and Collaboration Watershed Management: Going Beyond the “Iterative Process” in Orange County Richard Boon, County of Orange
    - Watershed-Based Implementation Watershed Implementation – Experiences in Los Angeles County Paul Alva, County of Orange

#### BMP / Trash Design

- **FULL DAY**
  - **Room:** Hyatt Regency – Regency Ballroom D & E
  - **MODERATOR:**

#### Financing

- **FULL DAY**
  - **Room:** Hyatt Regency – Regency Ballroom F
  - **MODERATOR:**

Note: Agenda is provisional and subject to change
<table>
<thead>
<tr>
<th>TRAINING WORKSHOPS</th>
<th>Legal</th>
<th>Industrial Implementation and Upcoming Challenges</th>
<th>International Low Impact Development</th>
<th>Watershed-Based Permits</th>
<th>BMP / Trash Design</th>
<th>Financing</th>
</tr>
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<tbody>
<tr>
<td>MORNING Room: Convention Center 103–105</td>
<td>There’s a Lot Going on in Water Quality Law!</td>
<td>FULL DAY Room: Convention Center 202</td>
<td>Training workshop held in cooperation with the World Future Council</td>
<td>FULL DAY Room: Convention Center 203</td>
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<td>MORNING Room: Hyatt Regency – Regency Ballroom D &amp; E</td>
</tr>
<tr>
<td>MODERATOR</td>
<td>Ryan Baron</td>
<td>Matt Lentz</td>
<td>Chris Crompton</td>
<td>Paul Hartman</td>
<td>Raina Dwivedi</td>
<td>Richard Watson</td>
</tr>
</tbody>
</table>

**10:30a–12:00p**
- Federal Update: U.S. EPA and WOTUS Policy
  - Speakers TBD
- ERA Overview and Key Components
  - ERA Level 2 Action Plan
  - Speaker TBD
- Non-Industrial Source
  - Demonstration Interactive Scenario
  - Jared Ervin, Geosyntec Consultants
- China Sponge City Focus
  - Zhang Linwei, Ministry of Housing and Urban Development of the People’s Republic of China (invited)
  - Zhang Yingxia, China Water Information Network (invited)
  - Jia Haifeng, Tsinghua University (invited)
  - John Lenth, Herrera (invited)
- Watershed-Based MS4
  - Permitting
  - Watershed-Based MS4 Permits – Experiences in the Los Angeles Region and a Look Ahead
  - Renee Purdy, Los Angeles Regional Water Quality Control Board
  - Panel Discussion: Watershed-Based MS4 Permits – Perspectives from the Regulated Community and the Regulators
  - Richard Boon, County of Orange
  - Paul Alva, Los Angeles County
  - Renee Purdy, Los Angeles Regional Water Quality Control Board
  - Laurie Walsh, San Diego Regional Water Quality Control Board
- Coastal Community BMP Implementation: Challenges and Lessons Learned
  - Christy Villa, H Hoch Consulting
  - Presentation and Panel Discussion: Engineering Regional BMPs: Lessons Learned & Navigating Compliance
  - Oliver Galang and Merrill Taylor, Tetra Tech
  - Kristen Ruffell, Sanitation Districts of Los Angeles County
  - Panel Discussion: Stakeholder Expectations / Recent Developments – Business, Cities, and Environmental Groups
    - Erin Evans-Fudem, League of California Cities
    - Mike Lewis, Los Angeles County Business Federation (BizFed)
    - Bruce Reznik, Los Angeles Waterkeeper
  - Panel Discussion: Los Angeles County Water Resilience Program
    - Leslie Friedman Johnson, Conservation & Natural Resources Group
    - Mark Pestrella, Los Angeles County Department of Public Works

**12:00p–1:30p**
- EXHIBITOR FOCUS (Convention Center Hall E and West Lobby) AND LUNCH (Convention Center Hall C)

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**CONTINUING EDUCATION CREDITS**

Professional development credits can be earned for in-person attendance and webcast viewing.

**2017 Participating Organizations** (pending approval of the conference program)

- American Institute of Certified Planners (AICP)
- Certified Inspector Sediment and Erosion Control (CISEC)
- Certified Erosion, Sediment and Stormwater Inspector (CESSWI)
- Certified Municipal Separate Storm Sewer System Specialist (CMS4S)
- Certified Professional in Erosion and Sediment Control (CPESC)
- Certified Professional in Storm Water Quality (CPSWQ)
- California Water Environment Association (CWEA)
- Minimum Continuing Legal Education (MCLE)
- Professional Engineers (PE)
## CASQA TRAINING WORKSHOPS AGENDA

**Monday, September 25 (continued)**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
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<tbody>
<tr>
<td><strong>FULL DAY</strong></td>
<td><strong>Panel Discussion:</strong> The Art Versus the Math of Flow&lt;br&gt;<strong>Moderators:</strong> Sara Huber, Weston Solutions, Inc.</td>
<td>Room: Hyatt Regency – Regency Ballroom D &amp; E</td>
</tr>
<tr>
<td><strong>AFTERNOON</strong></td>
<td>**Defensible Data Collection Begins with Proper Monitoring&lt;br&gt;Station Siting, Design, and Installation, and Requires Ongoing Adjustment&lt;br&gt;<strong>Moderators:</strong> Tommy Wells, FMF Pandion</td>
<td>Room: Convention Center 103–105</td>
</tr>
<tr>
<td>1:30p–3:00p</td>
<td><strong>Panel Discussion:</strong> The Art Versus the Math of Flow&lt;br&gt;<strong>Moderators:</strong> Sara Huber, Weston Solutions, Inc.</td>
<td>Room: Hyatt Regency – Regency Ballroom F</td>
</tr>
<tr>
<td>3:00p–3:30p</td>
<td>**STORMS Capture &amp; Use – Water Rights&lt;br&gt;<strong>Moderators:</strong> Deborah Wortham, Best Best &amp; Krieger</td>
<td>Room: Regency Ballroom E</td>
</tr>
<tr>
<td><strong>AFTERNOON</strong></td>
<td>**Overview of Workshop, Context, and History&lt;br&gt;<strong>Moderators:</strong> Daniel Apt, Olaunu; Lisa Skutecki, Brown and Caldwell</td>
<td>Room: Regency Ballroom D &amp; E</td>
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<td>Room: Convention Center 203</td>
</tr>
<tr>
<td>1:30p–3:00p</td>
<td>**Sampling Techniques&lt;br&gt;<strong>Moderators:</strong> Lucy Cortez-Johnson and Melanie Sotelo, CASC Engineering and Consulting, Inc.</td>
<td>Room: Convention Center 204</td>
</tr>
<tr>
<td>3:00p–3:30p</td>
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### Training Workshops

<table>
<thead>
<tr>
<th>Time</th>
<th>Workshop</th>
<th>Location</th>
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<tbody>
<tr>
<td><strong>AFTERNOON</strong></td>
<td><strong>WORKSHOPS</strong>&lt;br&gt;<strong>MODERATOR:</strong> Sara Huber, Weston Solutions, Inc.</td>
<td>Room: Convention Center Hall D</td>
</tr>
<tr>
<td>1:30p–3:00p</td>
<td><strong>TRAINING</strong>&lt;br&gt;<strong>MONITORING</strong>&lt;br&gt;Plan Twice, Measure Once: Theory, Art, and Science of Flow Monitoring</td>
<td>Room: Convention Center 103–105</td>
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<tr>
<td><strong>AFTERNOON</strong></td>
<td><strong>CONSTRUCTION</strong>&lt;br&gt;Construction Sampling – From Forecasting through Data Submittal (limited to 70 participants)</td>
<td>Room: Convention Center 203</td>
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<tr>
<td><strong>AFTERNOON</strong></td>
<td><strong>INDUSTRIAL</strong>&lt;br&gt;Implementation and Upcoming Challenges</td>
<td>Room: Convention Center 204</td>
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<tr>
<td><strong>AFTERNOON</strong></td>
<td><strong>INTERNATIONAL</strong>&lt;br&gt;Low Impact Development</td>
<td>Room: Convention Center 204</td>
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<tr>
<td><strong>AFTERNOON</strong></td>
<td><strong>WATERSHED-BASED</strong>&lt;br&gt;Permits</td>
<td>Room: Convention Center 204</td>
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<tr>
<td><strong>AFTERNOON</strong></td>
<td><strong>SUSTAINABLE</strong>&lt;br&gt;Stormwater Management</td>
<td>Room: Convention Center 204</td>
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<tr>
<td><strong>AFTERNOON</strong></td>
<td><strong>OUTREACH</strong>&lt;br&gt;Reachers Politicians, Residents, and Stakeholders: How to Create Engagement and Support for Your Program</td>
<td>Room: Convention Center 204</td>
</tr>
<tr>
<td>3:00p–3:30p</td>
<td><strong>BREAK AND EXHIBITOR FOCUS</strong> (Convention Center E and West Lobby)</td>
<td>Room: Convention Center Hall E and West Lobby</td>
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</table>
### CASQA Training Workshops Agenda

**Monday, September 25 (continued)**

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<tr>
<td>3:30p–5:00p</td>
<td>Lessons Learned from the Field–Monitoring Station Siting and Planning Exercise(s)</td>
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<tr>
<td></td>
<td>- Sampling Techniques (continued)</td>
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<td></td>
<td>- Lucy Cortez-Johnson and Melanie Sotelo, CASC Engineering and Consulting, Inc.</td>
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<tr>
<td></td>
<td>- Data Reporting - Field Data Recording - SMARTS Submittal - Exceedances Kati Whiteside, Southern California Edison; Lucy Cortez-Johnson, CASC Engineering and Consulting, Inc.</td>
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<td></td>
<td>- Data Analysis by the Water Board - Common Mistakes Encountered During Data–Submittals - Data Submittal Tips Russell Hansen, State Water Resources Control Board</td>
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<tr>
<td></td>
<td>- Q&amp;A</td>
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<tr>
<td>5:00p–6:00p</td>
<td>EXHIBITOR FOCUS (Convention Center Hall E and West Lobby)</td>
</tr>
<tr>
<td>6:00p–10:00p</td>
<td>NETWORKING EVENT – Time to be confirmed (Off-site: Cafeteria 15L Restaurant)</td>
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<tr>
<td></td>
<td>Included with 3-Day Full Conference Pass; can be purchased as an add-on option to 2-Day and 1-Day Conference Passes, and for attendee guests ($70)</td>
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</tbody>
</table>
Technical excellence in stormwater

In every challenging environment and sensitive situation, we see solutions. Using advanced science and practical approaches, we provide cost-efficient solutions for our clients’ stormwater management and green infrastructure challenges. From planning and policy through construction and program management, we are committed to innovative excellence in serving communities and industrial/commercial customers around the world.

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We Make a Difference

Delivering innovative planning and engineering solutions for sustainable stormwater management, water quality and restoration

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TUESDAY

7:30a–5:30p REGISTRATION DESK AND CONFERENCE SERVICES (Convention Center West Lobby)

8:00a–5:00p POSTER SESSION (Convention Center 2nd Floor Landing)

8:00a–7:30p EXHIBIT HALL OPEN (Convention Center Hall E and West Lobby)

8:30a–9:55a PLENARY SESSION - WELCOME AND OPENING REMARKS: Jill Bicknell, Chair, CASQA; CASQA AWARDS: Jeff Endicott, Chair, Awards Committee; EXHIBITOR AWARDS: Karen Ashby, Exhibitor Coordinator; KEYNOTE ADDRESS: TBD (Convention Center Hall C)

9:55a–10:20a BREAK AND EXHIBITOR FOCUS (Convention Center Hall E and West Lobby)

<table>
<thead>
<tr>
<th>SESSION 1</th>
<th>Industrial Planning for Industrial Stormwater Compliance</th>
<th>Construction Collaboration in Construction</th>
<th>Municipal Programs Trash Management</th>
<th>Stormwater Science and Planning Science to Guide Implementation</th>
<th>Stormwater BMP Implementation Implementing LID and Green Infrastructure</th>
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<tr>
<td>TRACK A</td>
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<td>TRACK C</td>
<td>ROOM: Convention Center 202</td>
<td>TRACK E Room: Convention Center 204</td>
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<tr>
<td>TRACK B</td>
<td>Room: Convention Center 103–105</td>
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<td>TRACK D</td>
<td>Room: Convention Center 203</td>
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MODERATOR
Craig Fish
Lawrence Livermore National Laboratory
Kadi Whiteside
Southern California Edison
Steve Herrera
Herrera Engineering Consultants, Inc.
Aaron Poresky
Geosyntec Consultants
Gina Yamout
Alta Environmental

10:20a–10:50a
Industrial and Municipal Stormwater Compliance from Challenges to Opportunities – The Industrial General Permit and the Municipal Watershed Planning Nexus
David Rentrew
Alta Environmental

10:55a–11:25a
Potential Impact of TMDLs on Industrial Dischargers: From Regulatory Background to Strategic Planning for Compliance
Chris (Meng-Horng) Hsu
GSI Environmental

11:30a–12:00p
Avoiding Level 1 and 2 ERA – It All Starts with a Pollutant Source Assessment
Laila Khaled Nasr
Geosyntec Consultants

12:00p–1:15p LUNCH (Convention Center Hall C)

1:15p–1:35p EXHIBITOR FOCUS (Convention Center Hall E and West Lobby)
**CASQA TECHNICAL PROGRAM AGENDA**  
**Tuesday, September 26 (continued)**

| SESSION | TRACK A  
|---------|-------------------------------------------------|
| **Industrial**  
Avoiding the ERA Process and Clean Water Act Citizen Suits | **Collecting, Managing, and Using Data**  
Building Bridges through Tools and Technologies to Integrate and Share Data for Decision-Making and Collaboration | **Municipal Programs**  
Public Outreach | **Sustainability**  
CASQA Award Winners! | **Stormwater BMP Implementation**  
Implementing Innovative BMPs |
| **TRACK B**  
Room: Convention Center Hall D | **TRACK C**  
Room: Convention Center 103–105 | **TRACK D**  
Room: Convention Center 202 | **TRACK E**  
Room: Convention Center 203 | |
| MODERATOR | Paul Costa  
The Boeing Company | Sheri Dister  
Weston Solutions, Inc. | Jonathan Meronek  
SCS Engineers | Stephanie Gaines  
County of San Diego | Tony Hancock  
Brown and Caldwell |
| 1:35p–2:05p | | | | | |
| What is BAT/BCT? (Best Available Technology/Best Control Technology)? | Advances in Real-Time Stormwater Data Acquisition, Management, and Analysis in the Tahoe Basin | Caltrans’ Protect Every Drop Stormwater Public Education and Awareness Campaign | 2017 CASQA Award Winner – Outstanding Retrofit Sustainable Stormwater Project | 2017 CASQA Award Winner – Outstanding Industrial Stormwater BMP Project |
| Laura Carpenter  
Brown and Caldwell | Alan Heyvaert  
Desert Research Institute | Ana Serrano  
California Department of Transportation | Los Amigos Park Stormwater Harvesting and Direct Use Demonstration | West Hylebos Pier Log Yard |
| | | | Vík Bapna  
CWE | Ross Dunning  
Kennedy Janks Consultants |
| 2:10p–2:40p | | | | | |
| Public and Private Enforcement of the Industrial General Permit | Fighting Urban Stream Syndrome in South OC through Integration of Water Use and Water Quality Data | Storytelling: Making Your Audience the Lead in Protecting Clean Water | 2017 CASQA Award Winner – Outstanding Regional Sustainable Stormwater Project | Integrating Surface Water Quality Improvements into Coastal Restoration – An Urban Retrofit BMP Case Study |
| Wayne Rosenbaum  
Environmental Law Group LLP | Grant Sharp  
County of Orange | Stephen Groner  
SGA Marketing | Gobernadora Multipurpose Basin | Steve Gruber  
Burns & McDonnell Engineering |
| | | | Bruce Phillips  
PACE Advanced Water Engineering | |
| 2:45p–3:15p | | | | | |
| Ed Othmer  
Stantec | Rolf Schottle  
Amec Foster Wheeler | Ann Joseph  
Ann Joseph Consulting | Broadway Neighborhood Stormwater Greenway Project | Brad Sumrall  
Weston Solutions, Inc. |
| | | | Wing Tam  
City of Los Angeles | Mark Hanna  
Geosyntec Consultants |

**CONFERENCE MOBILE APP** *(available in iTunes and Google Play in August, 2017)*

Attendees with Apple iOS or Android devices can personalize their conference experience with our CASQA Annual Conference mobile app. Here are just some of the many features:

- Bookmark presentations and events in the conference agenda to create a personalized schedule, which can be exported to the native calendar on your smartphone or digital tablet.
- Preview Training Workshop agendas, Technical Program abstracts, and speaker bios.
- Find meeting rooms, exhibitor booths, and event locations via the interactive conference maps.
- Message other attendees directly, easily access individual message threads, and share contact information to stay connected after the conference.
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<th>COLLECTING, MANAGING, AND USING DATA</th>
<th>MUNICIPAL PROGRAMS</th>
<th>SUSTAINABILITY</th>
<th>STORMWATER BMP IMPLEMENTATION</th>
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<td>Industrial Stormwater Treatment and Case Studies</td>
<td>Advances in Monitoring and Assessment Techniques</td>
<td>Implementing Green Infrastructure</td>
<td>Stormwater as a Resource</td>
<td>Implementing BMPs for Challenging Water Quality</td>
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<tr>
<td></td>
<td>Tim Bauters</td>
<td>Garth Engelhorn</td>
<td>Merrill Taylor</td>
<td>Lisa Skutecki</td>
<td>Richard Watson</td>
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<td></td>
<td>Kathryn Hubbard</td>
<td>Thomas Arthur</td>
<td>Scott Durbin</td>
<td>Stephanie Gaines</td>
<td>Brandon Steets</td>
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<td>Haley &amp; Aldrich</td>
<td>Amec Foster Wheeler</td>
<td>Lotus Water</td>
<td>County of San Diego</td>
<td>Geosyntec Consultants</td>
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<td>Nathan Holloway</td>
<td>Bruce Phillips</td>
<td>Wing Tam</td>
<td>Eric Zickler</td>
<td>Kelly Havens</td>
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<td>Clear Water Services</td>
<td>PACE Advanced Water Engineering</td>
<td>City of Los Angeles</td>
<td>Lotus Water</td>
<td>Geosyntec Consultants</td>
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WWW.STORMWATERCONFERENCE.COM
### CASQA TECHNICAL PROGRAM AGENDA  Wednesday, September 27

#### WEDNESDAY

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<td>7:30a–3:00p</td>
<td>REGISTRATION DESK AND CONFERENCE SERVICES (Convention Center West Lobby)</td>
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<tr>
<td>8:00a–8:35a</td>
<td>EXHIBITOR FOCUS (Convention Center Hall E and West Lobby)</td>
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<tr>
<td>8:00a–12:00p</td>
<td>EXHIBIT HALL OPEN (Convention Center Hall E and West Lobby)</td>
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<tr>
<td>8:00a–8:35a</td>
<td>EXHIBITOR FOCUS (Convention Center Hall E and West Lobby)</td>
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<tr>
<td>8:00a–1:20p</td>
<td>POSTER SESSION (Convention Center 2nd Floor Landing)</td>
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#### SESSION 4

**Industrial Demonstrating Compliance through the ERA Process**
- **TRACK A**
  - Room: Convention Center Hall D
  - Moderator: Lori Pettegrew
  - Farallon Consulting

**Construction Data Download**
- **TRACK B**
  - Room: Convention Center 203
  - Moderator: Sandra Mathews
  - Larry Walker Associates

**Municipal Programs Watershed Planning**
- **TRACK C**
  - Room: Convention Center 103–105
  - Moderator: James Scanlin
  - Alameda Countywide Clean Water Program

**Sustainability Assessment Tools**
- **TRACK D**
  - Room: Convention Center 202
  - Moderator: Lisa Skutecki
  - Brown and Caldwell

**Stormwater BMP Implementation Benefits of Green Infrastructure Implementation**
- **TRACK E**
  - Room: Convention Center 204
  - Moderator: Jacqueline McMillen
  - Alta Environmental

**Stormwater Science and Planning Bacteria and Pathogens**
- **TRACK F**
  - Room: Hyatt Regency – Regency Ballroom A & B
  - Moderator: Vicki Kalikertz
  - City of San Jose

**Collecting, Managing, and Using Data Advances in Assessment and Reporting Tools**
- **TRACK G**
  - Room: Hyatt Regency – Regency Ballroom C
  - Moderator: Michelle Mattson
  - Winston Solutions, Inc.

#### MODERATOR

- **Lori Pettegrew**
  - Farallon Consulting

- **Sandy Mathews**
  - Larry Walker Associates

- **James Scanlin**
  - Alameda Countywide Clean Water Program

- **Lisa Skutecki**
  - Brown and Caldwell

- **Jacqueline McMillen**
  - Alta Environmental

- **Vicki Kalikertz**
  - City of San Jose

- **Michelle Mattson**
  - Winston Solutions, Inc.

#### 8:35a–9:05a

**Demonstrating Compliance with Level 2 ERA Process Using a Combination of Volume and Flow-Based Treatment Control BMPs**
- **Patrick Galvin**
  - Geosyntec Consultants

**More Data, More Problems?**
- **Dave Mercier**
  - Michael Baker International

**Balancing Permit Requirements, TMDLs, and the Nexus between Green Infrastructure Plans and Stormwater Resources Plans for the San Francisco Bay Area: City of Dublin Case Study**
- **Shannon Young**
  - City of Dublin

**Envision Tools Help Public Agencies Meet Sustainability Goals**
- **Suzanne Wilkins**
  - COM Smith, Inc.

**The Martha Gardens Green Alleys Pilot Project: A Successful Collaboration of City and State to Improve Water Quality**
- **Carol Boland**
  - City of San Jose

**Two Perspectives on the Cost Benefit Analysis for San Diego Regional Bacteria TMDLs**
- **Todd Snyder**
  - County of San Diego

**A Fistful of Projects: A Cloud-Based System for BMP Tracking and Visualization**
- **Dustin Bambic**
  - Paradigm Environmental

#### 9:10a–9:40a

**Demonstrating Natural Background in Stormwater**
- **David Dixon**
  - Roux Associates, Inc.

**Regulatory Panel: Construction (invited panel)**
- **Julia Dyer**
  - Central Coast Regional Water Quality Control Board

**Debra Mahnke and Richard Muhl**
- **Central Valley Regional Water Quality Control Board**

**South Orange County Water Quality Improvement Plan (WOIP): A Roadmap for Watershed Rehabilitation**
- **Richard Boon**
  - County of Orange

**Stormwater Recharge and Managed Aquifer Recharge: Finding the Link between Improving Groundwater Resources and Stormwater Water Quality Improvement**
- **Laura Foglia**
  - Larry Walker Associates

**Fill 3 Needs with 1 BMP—Integrating Flood Control, Construction and Post Construction Water Quality Strategies at San Diego Airport**
- **Jarrod Miller**
  - WSP | Parsons Brinckerhoff

**A Sea Change Ahead for Bacteria TMDL Implementation**
- **Brandon Steels**
  - Geosyntec Consultants

**Improving the Statistical Soundness of Monitoring Programs**
- **Eric Boillens**
  - CloudCompli

#### 9:45a–10:15a

**Infiltration at Industrial Sites Overcoming Institutional Barriers**
- **Timothy Simpson**
  - CSI Environmental, Inc.

**Michelle Rembaum-Fox**
- **San Francisco Bay Regional Water Quality Control Board**

**Mona Dougherty**
- **North Coast Regional Water Quality Control Board**

**Russell Hansen**
- **State Water Resources Control Board**

**Out on a Limb but in Front of the Line: Preparing the First Stormwater Resource Plan in the San Francisco Bay Area**
- **Matt Fabry**
  - San Mateo Countywide Water Pollution Prevention Program

**A Watershed Scale Life Cycle Assessment Framework for Stormwater Management**
- **Hasan Tavakol-Davani**
  - Geosyntec Consultants

**Green Streets and Creek Rehabilitation to Transform a Dense Urban Neighborhood**
- **Brianne Martin**
  - D-Max Engineering, Inc.

**Evaluation of Various Filter Media in Removing Human Pathogens from Stormwater (title to be confirmed)**
- **Nabiu Aftoz**
  - Stanford University

**A Pragmatic Approach to Measuring Stormwater Program Effectiveness**
- **Nicole Beck**
  - 2NDNATURE

#### 10:15a–11:00a

**BREAK, EXHIBITOR FOCUS AND PRIZE DRAWING (Convention Center Hall E and West Lobby)**
### SESSION 5

**Industrial Regulatory Panel: Expectations for ERA Level 2 and the TMDL Reopener**

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<tr>
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<th>ROOM: Convention Center Hall D</th>
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<tr>
<td>MODERATOR</td>
<td>Jeremy Laurin Pacific Gas &amp; Electric Company</td>
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**Construction OSD/OSP Forum: Strategies for Compliance**

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<th>TRACK B</th>
<th>ROOM: Convention Center 103–105</th>
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<tbody>
<tr>
<td>MODERATOR</td>
<td>Melanie Sotelo and Joyce Goode CASC Engineering and Consulting, Inc.</td>
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**Municipal Programs Beyond Outreach**

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<tr>
<td>MODERATOR</td>
<td>Jason Drew NCE</td>
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**STORMS Panel**

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<tr>
<td>MODERATOR</td>
<td>Annalisa Khara State Water Resources Control Board</td>
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**Stormwater BMP Implementation**

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<th>TRACK E</th>
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<tr>
<td>MODERATOR</td>
<td>Nicole West LSA</td>
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**Stormwater Science and Planning**

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<tr>
<th>TRACK F</th>
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<tbody>
<tr>
<td>MODERATOR</td>
<td>Brendan Ferry El Dorado County</td>
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**Collecting, Managing, and Using Data Monitoring Design**

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<tr>
<td>MODERATOR</td>
<td>Garth Englehorn Alta Environmental</td>
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11:00a–11:30a

**Statewide Stormwater Industrial General Permit – Level 2 Expectations**

| MODERATOR | Vicki Kalkirtz City of San Diego |

**OSD/OSP Forum: Strategies for Compliance (invited panel)**

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<thead>
<tr>
<th>Water Agency</th>
<th>Source through Collaboration and Communication</th>
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<tr>
<td>Ronald Hansen &amp; Laurel Wardship State Water Resources Control Board</td>
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<td>Sandy Mathews Associate State Water Resources Control Board</td>
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**Using Customized Communication, Feedback, and Simplified Messages to Support Annual Operation and Maintenance Verification of Residential Structural Best Management Practices (Structural BMPs)**

| Jennifer Tabanico Action Research |

**Strategy to Optimize Resource Management of Storm Water (STORMS) Panel (invited panel)**

| Jeffrey Albrecht, Matthew Freese, Chris Beegan, and Elizabeth Payne State Water Resources Control Board |
| Sean Rottwell California Coastalkeeper Alliance |

**Adam Borchard Association of California Water Agencies**

**The Tiger Team Approach: Addressing High Priority Bacteria Sources through Collaboration and Communication**

| Darcy Ebertler, Amec Foster Wheeler |

**Hollenbeck Park Lake Rehabilitation and Stormwater Management**

| Wilfred Hsu CH2M |

**Multi-Objective Analysis of Stormwater Infrastructure Retrofits Using Genetic Algorithms: Two Case Studies**

| Marc Leisering Geosyntec Consultants |

**Assessing Stream Health to Prioritize Water Quality Improvements in Large Watersheds**

| Eric Mosolgo City of San Diego |

**Bridging the Stormwater Management Gap: Integrated Watershed Master Planning for Water Quality, Flood Control, and Environmental Restoration**

| Alicia Gilbreath San Francisco Estuary Institute |

11:35a–12:05p

**Coming Soon: Total Maximum Daily Loads and the Statewide Storm Water Industrial General Permit**

| Shuka Rastegarpour State Water Resources Control Board |

**The Science of the Statewide Stormwater Industrial General Permit (invited panel)**

| Tanya Blizekjian Michael Baker International |

**The Tiger Team Approach: Addressing High Priority Bacteria Sources through Collaboration and Communication**

| Jennifer Tabanico Action Research |

**Hollenbeck Park Lake Rehabilitation and Stormwater Management**

| Wilfred Hsu CH2M |

**Multi-Objective Analysis of Stormwater Infrastructure Retrofits Using Genetic Algorithms: Two Case Studies**

| Marc Leisering Geosyntec Consultants |

**Assessing Stream Health to Prioritize Water Quality Improvements in Large Watersheds**

| Eric Mosolgo City of San Diego |

12:05p–1:20p LUNCH (Convention Center Hall C)

### SESSION 6

**Stormwater Science and Planning**

**STORMS Panel**

**Stormwater Science and Planning**

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<tr>
<td>MODERATOR</td>
<td>Vada Yoon Tetra Tech</td>
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**Stormwater Science and Planning**

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<tr>
<td>MODERATOR</td>
<td>Jon Konnan EOA, Inc.</td>
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**Stormwater Science and Planning**

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<tr>
<td>MODERATOR</td>
<td>Laura Prickett Horizon Water and Environment</td>
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**Stormwater Science and Planning**

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<tr>
<td>MODERATOR</td>
<td>Vaikko Allen Contech Engineered Solutions</td>
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**Stormwater Science and Planning**

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<td>Marc Leisering Geosyntec Consultants</td>
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**Stormwater Science and Planning**

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<tr>
<td>MODERATOR</td>
<td>Jacob Rollins City of San Diego</td>
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**Screening Causal Assessment to Support Development of Biological Objectives and Prioritizing Implementation Actions**

| Vicki Kalkirtz City of San Diego |
| Alternative Delivery of Water Projects in California—How Do We Build It? |
| Elizabeth Cousins Nossaman LLP |

**Sustainable Planning of Hydrology—Investigating the Balance of Water Demand, Water Supplies, and Instream Flows**

| John Riverson Paradigm Environmental |

**Green Infrastructure Typical Details and Specifications for San Francisco – Review of the Development Process and 3 Years of Lessons Learned**

| Ken Kortkamp San Francisco Public Utilities Commission |

**A Success Story: Transitioning from Permit Approprehension to Municipal Load Reductions**

| Robert Larsen Lahontan Regional Water Quality Control Board |

**GIS and Asset Management, an Effective Stormwater Planning Tool**

| Eric Friedlander City of South Lake Tahoe |

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**GIS and Asset Management, an Effective Stormwater Planning Tool**

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<td>Room: Convention Center 203</td>
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<td><strong>Stormwater BMP Implementation</strong></td>
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<td>More Benefits of Green Infrastructure Implementation</td>
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<td>TRACK E</td>
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<td>Room: Convention Center 204</td>
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<tr>
<td><strong>Stormwater Science and Planning</strong></td>
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<td>TMDL Implementation in the Lake Tahoe Watershed</td>
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<td>Asset Management and GIS Applications</td>
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<td>TRACK G</td>
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### 1:55p–2:25p
- **Science Supporting the Nutrients/Biostimulatory and Biointegrity Policy for Wadeable Streams: Relevance for Stormwater**
  - Martha Sutula
  - Southern California Coastal Water Research Project
- **Stormwater Program Funding Portfolio Management**
  - Jeremy Sokulsky
  - Brandt Water Technologies
- **Bridging the Stormwater Capture Gaps**
  - Norris Brandt
  - Brandt Water Technologies
- **Low Cost Integrated Delivery Urban Green Infrastructure Case Study: University Park Neighborhood Rain Gardens Pilot Study**
  - Adam Questad
  - Geosyntec Consultants
- **The Sierra Tract Water Quality Improvement Project: A Long, Bumpy, and Collaborative Path to Effective Stormwater Management in South Lake Tahoe**
  - Stefan Schuster
  - CDM Smith, Inc.
- **Bridge the Gap Between Your Organizational Needs and Regulatory Needs through Integrated Asset Management**
  - Terrence Chen
  - Michael Baker International

### 2:30p–3:00p
- **State and Regional Biomonitoring Programs as the Bridge to Support Local Stormwater Compliance and Management**
  - Eric Stein
  - Southern California Coastal Water Research Project
- **Creating a Water Quality Credit Generating Facility and Accounting Program for MSA Permit Compliance Flexibility: Results of a Case Study Analysis in Orange County, CA**
  - Mark Grey
  - Construction Industry Coalition on Water Quality
- **Following the Path of a Raindrop through the City of San Francisco’s Policy Development Process: Informing Stormwater Policy with Inter-Agency Coordination and Technical Support**
  - Sarah Minick
  - San Francisco Public Utilities Commission
- **Optimization of Design and Operation of Torrance Airport Storm Water Infiltration Project**
  - Samuel Darkwah
  - Carollo Engineers
- **The Impact of Pavement Degradation on Stormwater Runoff from Local Roads. Emerging Science of Pavement as a Best Management Practice?**
  - Russell Wigart
  - El Dorado County
- **Asset Management for Living Things**
  - Mike Adamow
  - San Francisco Public Utilities Commission

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**Bridge/brj/noun. Something that is intended to form a connector between two things.**

For 25 years, CASC has helped bridge Stormwater Regulations with Solutions that are Practical, Efficient, and Sustainable.

www.cascinc.com
CASQA is pleased to include a poster session at the Annual Conference again this year. The posters will be displayed in the Convention Center 2nd Floor Landing all days. The poster authors will be available to answer questions at the Monday morning break and during other breaks as available.

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<tr>
<th>Title</th>
<th>Author/Institution</th>
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<td>Effect of Burn Severity on Dissolved Organic Carbon in Disturbed Watersheds Following the 2016 Roblar Fire</td>
<td>Aviad Mirhosseini, Geosyntec Consultants</td>
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<td>Silva Cell Applications for Stormwater Management: Performance Findings and Technical Guidance</td>
<td>Shawn Freedberg, DeepRoot</td>
</tr>
<tr>
<td>Navigating Selection of a Track in the Statewide Trash Amendment</td>
<td>Melanie Sotelo, CASC Engineering and Consulting, Inc.</td>
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<td>Biofiltration Of Parking Lot Stormwater Runoff Using an Engineered Bioswale on the Butte College Main Campus</td>
<td>Michael Matiasek, Butte College</td>
</tr>
<tr>
<td>MS4 Permittee Options and the Potential Costs Associated with the Statewide Trash Amendments</td>
<td>Edmond Suher, CASC Engineering and Consulting, Inc.</td>
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<tr>
<td>Effectiveness of California’s Surface Water Regulations at Lowering Pyrethroid Concentrations in Surface Waters</td>
<td>Robert Budd, California Department of Pesticide Regulation</td>
</tr>
<tr>
<td>Improving MS4 Program Implementation through Integrative Assessments</td>
<td>Theodore Von Bitner, Amec Foster Wheeler</td>
</tr>
<tr>
<td>How Wet Was It? Putting the Drought-Ending 2017 Water Year Rains into Perspective</td>
<td>Jeffrey Endicott, CASC Engineering and Consulting, Inc.</td>
</tr>
<tr>
<td>Pesticide Mass Loadings Out of a Constructed Water Quality Treatment Pond in Folsom, CA During Rainstorm Events</td>
<td>Michael Ensminger, California Environmental Protection Agency</td>
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<td>* Collection, Interpretation, and Dissemination of Bacteria Data: Maximizing Resources for Meaningful Outcomes from Studies at La Jolla Cove and Children’s Pool Beaches, San Diego, California</td>
<td>Rolf Schottle, Amec Foster Wheeler</td>
</tr>
<tr>
<td>† Bridging the Sediment Information Gap: A Technique for Predicting Suspended Sediment Yield from Maximum Storm Discharge</td>
<td>Alex Messina, Amec Foster Wheeler</td>
</tr>
<tr>
<td>* Using Customized Communication, Feedback, and Simplified Messages to Support Annual Operation and Maintenance Verification of Residential Structural Best Management Practices (Structural BMPs)</td>
<td>Jennifer Tabanico, Action Research</td>
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<tr>
<td>* Integrating Surface Water Quality Improvements Into Coastal Restoration – An Urban Retrofit BMP Case Study</td>
<td>Steve Gruber, Burns &amp; McDonnell Engineering</td>
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<td>* The Martha Gardens Green Alleys Pilot Project: A Successful Collaboration of City and State to Improve Water Quality</td>
<td>Carol Boland, City of San Jose</td>
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<td>* Envision Tools Help Public Agencies Meet Sustainability Goals</td>
<td>Suzanne Wilkins, CDM Smith</td>
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<td>* Stormwater Recharge and Managed Aquifer Recharge: Finding the Link Between Improving Groundwater Resources and Stormwater Water Quality Improvement</td>
<td>Laura Foglia, Larry Walker Associates</td>
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<tr>
<td>* A Watershed Scale Life Cycle Assessment Framework for Stormwater Management</td>
<td>Hassan Tavakol-Davani, Geosyntec Consultants</td>
</tr>
<tr>
<td>* Poster + oral presentation</td>
<td>† Poster + alternate presentation</td>
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* Poster + oral presentation
† Poster + alternate presentation
<table>
<thead>
<tr>
<th>Collecting, Managing, and Using Data</th>
<th>Municipal Programs</th>
<th>Stormwater Science and Planning</th>
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<td><strong>Advances in Assessment and Reporting Tools</strong>&lt;br&gt;How Comparable is your Toxicity Testing?&lt;br&gt;Ken Schiff, Southern California Coastal Water Research Project</td>
<td><strong>Beyond Outreach</strong>&lt;br&gt;Watershed Friendly Garden Workshops in Ventura County&lt;br&gt;David Laak, Ventura County Watershed Protection District</td>
<td><strong>Bacteria and Pathogens</strong>&lt;br&gt;Advances in Microbial Source Tracking for Bacteria TMDLs&lt;br&gt;Tony Hancock, Brown and Caldwell</td>
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<td><strong>Advances In Monitoring and Assessment Techniques</strong>&lt;br&gt;Influencing Water and Stormwater Resource Decisions with Data – Time to Let Actions Do the Talking&lt;br&gt;Grant Sharp, County of Orange</td>
<td><strong>Financing Alternatives</strong>&lt;br&gt;Funding Your Stormwater Program on Layaway&lt;br&gt;Pablo Perez, MBS</td>
<td><strong>Planning BMPs to Achieve Multiple Benefits</strong>&lt;br&gt;Addressing Flooding Issues and Meeting Trash Reduction Requirements within the San Francisco Bay&lt;br&gt;Laura Larsen, Michael Baker International</td>
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<td><strong>Asset Management and GIS Applications</strong>&lt;br&gt;Achieving a Fit Stormwater Program Using Science-Based Software&lt;br&gt;Gregor Patosh, 2NATURE, LLC.</td>
<td><strong>Trash Management</strong>&lt;br&gt;Considerations in the Preparation of a Trash Monitoring and Reporting Plan for Engineered Channels in the City of Los Angeles&lt;br&gt;Donna Chen, City of Los Angeles (Retired)</td>
<td><strong>Science to Guide Implementation</strong>&lt;br&gt;The Urban Pesticides Amendments Proposed by the State Water Resources Control Board (State Board): History, Outline, Benefits, and Tools for Compliance&lt;br&gt;Dave Tamayo, County of Sacramento</td>
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<td><strong>Monitoring Design</strong>&lt;br&gt;Bridging the Sediment Information Gap: A Technique for Predicting Suspended Sediment Yield from Maximum Storm Discharge&lt;br&gt;Alex Messina, Apec Foster Wheeler</td>
<td><strong>Stormwater BMP Implementation</strong></td>
<td><strong>Stormwater Management for Biological Endpoints</strong>&lt;br&gt;The Urban Pesticides Amendments Proposed by the State Water Resources Control Board (State Board): History, Outline, Benefits, and Tools for Compliance&lt;br&gt;Dave Tamayo, County of Sacramento</td>
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<td><strong>Construction</strong></td>
<td><strong>Benefits of Green Infrastructure Implementation</strong>&lt;br&gt;How You Doin’ Green Infrastructure? GI Monitoring in SF&lt;br&gt;Polly Perkins, San Francisco Public Utilities Commission</td>
<td><strong>Sustainability</strong>&lt;br&gt;<strong>Assessment Tools</strong>&lt;br&gt;Leveraging Existing Watershed Planning to Meet SWRP Requirements&lt;br&gt;Jason Burke, City of South Lake Tahoe</td>
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<td><strong>Collaboration in Construction</strong>&lt;br&gt;The Bottom-Seal is the Thing: Bottom Sealed Filter Barrier Technology for Containment of Stormwater Derived Sediments and Associated Contaminants in Surface Waters&lt;br&gt;Marvin Sachse, Brash Industries</td>
<td><strong>Implementing BMPs for Challenging Water Quality</strong>&lt;br&gt;Planning Advanced Regional Municipal Stormwater Capture and Reuse System – Long Beach Municipal Urban Stormwater Treatment (LB-MUST)&lt;br&gt;Bruce Phillips, PACE Advanced Water Engineering</td>
<td><strong>Stormwater as a Resource</strong>&lt;br&gt;Overview of Groundwater Recharge Projects and Sustainability Benefits in Southern California&lt;br&gt;Bill Leever, Brown and Caldwell</td>
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<td><strong>Industrial</strong></td>
<td><strong>Implementing Innovative BMPs</strong>&lt;br&gt;Building Connections with the Sanitary Sewer for Stormwater Compliance&lt;br&gt;Kristen Ruffell, Sanitation Districts of Los Angeles County</td>
<td><strong>Implementing LID and Green Infrastructure</strong>&lt;br&gt;Improving LID Tools: Technical Updates to Bioretention and Permeable Paving&lt;br&gt;David Smith, Interlocking Concrete Pavement Institute&lt;br&gt;<strong>Unique Aspects Associated with Green Infrastructure Implementation</strong>&lt;br&gt;Protecting the Beach &amp; Beneficial Use of Stormwater: Santa Monica CBI Project&lt;br&gt;Oliver Galang, Tetra Tech</td>
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INDIVIDUAL ATTENDEE

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<tr>
<th>General Registration</th>
<th>CASQA Member</th>
<th>Non-Member</th>
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</thead>
<tbody>
<tr>
<td>3-Day Full Conference Pass: Monday, Tuesday, Wednesday</td>
<td>$600</td>
<td>$685</td>
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<td>2-Day Conference Pass: your choice of two days</td>
<td>$400</td>
<td>$510</td>
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<td>1-Day Conference Pass: your choice of one day</td>
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<th>Speaker and Poster Presenter Registrations</th>
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<th>Poster Presenter</th>
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<td>3-Day Full Conference Pass: Monday, Tuesday, Wednesday</td>
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<td>2-Day Conference Pass: your choice of two days</td>
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<td>$405</td>
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<tr>
<td>1-Day Conference Pass: your choice of one day</td>
<td>$225</td>
<td>$265</td>
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* The Full Conference Pass includes the Networking Event on Monday evening.

SPEAKER AND POSTER PRESENTER RATE ELIGIBILITY

CASQA offers a reduced conference rate for eligible speakers and poster presenters as described below.

- The primary speaker (1) for each Technical Program track presentation is eligible
- Panelists for a Technical Program track presentation are eligible
- Alternate presentation speakers for each session are eligible
- Training Workshop speakers are eligible
- Supporting speakers are not eligible and must pay the full Member or Non-Member attendee rate
- Poster presenters who are not also presenting orally and are not alternate presentation speakers receive a $50 discount off the Member general attendee rate, whether or not a CASQA member
- Speaker and Poster Presenter rates apply to both Members and Non-Members
- There is no charge for speakers attending only the session or a half-day of the training workshop in which they are speaking
- There is no charge for poster-only presenters who will only be attending the morning break on Monday

TRAINING WORKSHOPS WEBCAST
(SEPTEMBER 25 AND 26 ONLY)

Morning training workshop webcasts will run from 8:30 a.m.–12:00 p.m. and afternoon webcasts from 1:35 p.m.–5:00 p.m. (Pacific Time). Individual, Small Group, and Large Group Webcast licenses allow you to switch between training workshops during the broadcast, giving unlimited access to all training workshops that are included in the webcast. Webcast registrations include the Plenary Session with Keynote Address on Tuesday, September 26 from 8:30 a.m.–9:55 a.m. The off-site Field Tour and Technical Program on Tuesday and Wednesday are not included.

<table>
<thead>
<tr>
<th>Webcast Registration</th>
<th>Individual</th>
<th>Small Group (2-3 viewers)</th>
<th>Large Group (4-10 viewers)</th>
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<td>CASQA Member</td>
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<td>CASQA Member</td>
<td>Non-Member</td>
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<tr>
<td>Training Workshops</td>
<td>$170</td>
<td>$235</td>
<td>$415</td>
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MONDAY EVENING NETWORKING EVENT AT CAFETERIA 15L RESTAURANT
(SEPTEMBER 25 ONLY)

Our seventh annual Monday evening Networking Event will be held at nearby Cafeteria 15L, Sacramento’s favorite comfort-cool and eclectic urban restaurant. This is a unique opportunity to socialize after hours, enjoy food and entertainment, and continue the stormwater discussion. This event is included with a 3-Day Full Conference Pass. Tickets can be purchased as an add-on option for $70 when registering online for a 1-Day or a 2-Day Conference Pass and for guests of attendees. Dinner is included.

PAYMENT OF REGISTRATION FEES

Online registration is available at www.StormwaterConference.com under the Registration section. General Attendees and Webcast may register online until 5:00 p.m. on Tuesday, September 19, 2017. Speakers and Poster Presenters must register by 5:00 p.m. on Monday, August 28, 2017. Payment is by credit card only.
The Annual Conference offers a number of opportunities for companies and organizations to provide support while gaining added visibility at the Conference and through the extended reach of the training workshop webcasts.

We invite you to consider the sponsorship and advertising opportunities available so that you may find the level or event that is suitable to you. Several options remain as outlined below (subject to availability; see website for full list of benefits):

**SPONSORSHIPS**

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<td><strong>PREMIUM</strong> Host Program</td>
<td>Limited to one (1)</td>
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<tr>
<td><strong>PREMIUM</strong> Platinum Stormwater Steward</td>
<td>Limited to one (1)</td>
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<tr>
<td><strong>PREMIUM</strong> Gold Stormwater Steward</td>
<td>Limited to five (5)</td>
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<td><strong>SPECIALTY</strong> Silver Stormwater Steward</td>
<td>Unlimited availability</td>
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<tr>
<td><strong>EVENT</strong> Lunch Sponsor</td>
<td>Limited to three (3)</td>
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<tr>
<td><strong>EVENT</strong> Break Sponsor</td>
<td>Limited to five (5)</td>
</tr>
<tr>
<td><strong>EVENT</strong> Networking Event Sponsor at Cafeteria 15L (September 26)</td>
<td>Unlimited availability</td>
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<th>Advertisement Sizes</th>
<th>Specifications</th>
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<tr>
<td><strong>ALL SIZES</strong></td>
<td>Color printed in the CASQA Conference Program distributed to all attendees and posted on the CASQA website</td>
</tr>
<tr>
<td></td>
<td>Preferred format PDF (TIFF or JPEG acceptable), minimum 300 dpi resolution with CMYK color format</td>
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<tr>
<td><strong>FULL-PAGE</strong> $800*</td>
<td>Two options for sizing below: with page margins OR full page bleed</td>
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<tr>
<td></td>
<td>Dimensions: 10” high x 7.5” wide; OR</td>
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<tr>
<td></td>
<td>Full page with bleed: 11” high x 8.5” wide (plus 1/8” bleed on all sides for total dimensions of 11.25” high x 8.75” wide)</td>
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<td><strong>HALF-PAGE</strong> $500*</td>
<td>Dimensions: 4.68” high x 7.5” wide</td>
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<tr>
<td><strong>QUARTER-PAGE</strong> $300*</td>
<td>Dimensions: 4.9” high x 3.45” wide</td>
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*Sponsors will be acknowledged for their contribution to the 2017 CASQA conference as described above. CASQA website recognition will be provided until December 31, 2017.

**ADVERTISING**

Advertising can also be purchased in the Conference Program provided to all conference attendees. **Artwork is due by August 15, 2017.**

*Sponsors will be acknowledged for their contribution to the 2017 CASQA conference as described above. CASQA website recognition will be provided until December 31, 2017.*
THANK YOU TO OUR SPONSORS, ADVERTISERS, AND EXHIBITORS

CASQA would like to thank the following sponsors, advertisers, and exhibitors for supporting the 13th Annual Conference.

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- EnviroCert International, Inc.
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- Golder Associates, Inc.
- Heavyweight Sediment Control Solutions – WTB, Inc.
- HYDRA TMDL
- LSC Environmental Products
- PAC/Advanced Water Engineering
- Pat Chem Laboratories
- Porous Technologies, LLC
- Precon Products
- Prinsco
- Pure Filter Solutions, LLC
- Rotondo Environmental Solutions
- Sacramento Stormwater Quality Partnership (SSQP)
- SCI Consulting Group
- Soil Retention
- StormTrap
- StormwaterRx, LLC
- Storm Water Systems
- Sunmark Environmental
- WaterTectonics
- XERXES Corporation

Regular Exhibitors
- ABT, Inc.
- CAL-Storm Compliance, Inc.
- CBI Systems
- CIF Composites, Inc.
- dat Mobile Solutions, Inc.
- Earthavers Erosion Control, LLC
- ERTEC Environmental Systems
- LaMotte
- Mosquito and Vector Control Association of California
- Outpak Washout
- Revel Environmental Manufacturing, Inc. (REM)
- Source Molecular Corporation
- StormTree
- Storm Water Inspection & Maintenance Services, Inc. (SWIMS)
- Stormwater Magazine
- Precon Products
- Prinsco
- Pure Filter Solutions, LLC
- Rotondo Environmental Solutions
- Sacramento Stormwater Quality Partnership (SSQP)
- SCI Consulting Group
- Soil Retention
- StormTrap
- StormwaterRx, LLC
- Storm Water Systems
- Sunmark Environmental
- WaterTectonics
- XERXES Corporation

SPONSORSHIP AND ADVERTISING OPPORTUNITIES
- For more information on sponsorship and advertising, please contact Matt Lentz, mqlentz@gsi-net.com or phone (949) 574-7097. Please ask about Monday Evening Networking Event opportunities.
- To register online with a credit card, go to www.StormwaterConference.com.

EXHIBITING OPPORTUNITIES
- Exhibit booths are sold out for this year’s Conference. Contact Karen Ashby, KarenA@LWA.com or phone (530) 753-6400 x232 about exhibiting at the 2018 CASQA Annual Conference in Riverside from October 15-17, 2018.

ADDITIONAL CONFERENCE INFORMATION
Please contact CASQA by email at info@casqa.org or leave a message at (650) 366-1042 for specific accommodation requests or questions.

The latest agenda and conference information will be posted online at www.StormwaterConference.com.

HOTEL AND TRAVEL
Our host hotel is the Hyatt Regency, Sacramento located at 1209 L St., Sacramento, CA 95814. The special conference hotel rates are $179.00 per night single or double (excluding taxes). Hotel reservations can be made using the General Attendee room block link at www.StormwaterConference.com on the Hotel and Travel page (preferred) or by calling (916) 443-1234 (reference the California Stormwater Quality Association General Attendee room block). The rate cutoff date is Monday, September 4, 2017. After this date, or earlier if the room block is filled, rates will no longer be guaranteed. Conference rates will be in effect 3 days before and after the conference, subject to availability. A limited number of State of California or federal employee rate rooms are available; contact Amy Porter at info@casqa.org for information on availability.

View of the Capitol from the hotel