

2016 CASQA ANNUAL REPORT

STORMWATER EVOLUTION: SOURCE TO RESOURCE



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MESSAGE FROM THE CASQA CHAIR

THANK YOU for helping make this year another successful one in stormwater management and for the California Stormwater Quality Association (CASQA). Our year began in January with our “Annual Federal and State Regulatory Program Update” meeting in San Diego. In March, we held our second general meeting in Oakland with the theme “Trash Amendments: When You Come to a Choice in Tracks – Take It.” In September, we convened in Paradise Point, San Diego, for our largest and most successful CASQA conference ever! Finally, in December, we held our first webcast-only general meeting on the topic of “Unfunded Mandate Test Claims: Status, Results, and Implications.” We collaborated successfully at both the state and national level, working with State Water Board staff on several projects for the Strategy to Optimize Resource Management of Storm Water (STORMS), and continued to help with the formation of the National Municipal Stormwater Alliance. I am very happy to report that CASQA is financially sound and stable, our membership is growing, and I am proud of the number of significant accomplishments in 2016 described in this annual report. The annual CASQA financial report is available to members on CASQA’s website at: www.casqa.org/news-library/member-library.

CASQA’s Vision and Strategic Plan for Managing Stormwater in the 21st Century

In early 2015, CASQA completed its “Vision and Strategic Actions for Managing Stormwater in the 21st Century,” which continued to serve as CASQA’s roadmap for objectives, projects, and actions during 2016. CASQA’s vision is to “manage stormwater as a vital component of California’s water resources, to support human and ecological needs, to protect water quality, and to restore our waterways.”

In early 2016, the CASQA Board of Directors formed a Vision Committee to ensure that CASQA’s annual objectives, projects, and activities were consistent with the Vision, and that Vision actions were being implemented or on track to be implemented. The Vision Committee helped to better align CASQA’s 2016 objectives with the Vision and developed several tools to track activities and measure progress. The Vision Committee also helped to coordinate CASQA’s participation

in the State Water Board’s STORMS projects, both as part of the STORMS Implementation Committee and on several projects that began during 2016.

The CASQA Vision document is available on CASQA’s website at www.casqa.org/news-library/public-documents. We plan to begin the first update of the document toward the end of 2017. Please let us know if you have any input.

Other CASQA Board Initiatives

The CASQA Board completed revisions to one of our “Policy and Procedures,” Grant Proposal Development, as part of efforts to continue to improve and refine our internal processes. These procedures ensure CASQA operates and provides the upmost degree of accountability and transparency to its membership and the public at large.

The roles and responsibilities of our Executive Program Committee (EPC) and subcommittees also continue to evolve as the field of stormwater management evolves and as

we determine the best use of our resources. Subcommittee chairmanships are continuing to rotate on a biannual basis, which has allowed greater participation by subcommittee members.

In addition to the Vision Committee described above, the Board also formed an Events Committee to better coordinate the topics and venues of the quarterly general membership meetings, special webinars, and the annual conference, and consider alternative formats that could reach more members. One of the alternative formats, a pilot “webcast-only” general meeting, was held in December 2016 and was very well attended. Responses to a post-webcast survey showed it was well received and provided insight on how this format can be improved.

In fall of 2016, the CASQA’s Board completed its annual Strategic Planning session leading to the development of its 2017 Objectives. These prioritized 2017 Objectives provided the basis for our on-time adoption of the 2017 Budget in November.

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CASQA’S VISION IS TO “MANAGE STORMWATER AS A VITAL COMPONENT OF CALIFORNIA’S WATER RESOURCES, TO SUPPORT HUMAN AND ECOLOGICAL NEEDS, TO PROTECT WATER QUALITY, AND TO RESTORE OUR WATERWAYS.”



CASQA Work Product Approvals

This past year the Board approved a number of work products including:

- **Industrial General Permit Training Program** – This new program included the development of the Learning Management System (LMS)-based Qualified Industrial Stormwater Practitioner (QISP) Training videos.
- **A Web-Based Portal for Statewide Coordination of Municipal Stormwater Program Effectiveness Assessment (PEA) Data and Information** – With the help of a Proposition 84 Stormwater Grant, CASQA developed this central repository for obtaining guidance, sharing data and information, and obtaining planning and assessment support.
- **Pesticides Subcommittee Annual Report and Effectiveness Assessment** – This annual report provides CASQA members with focused information on efforts to prevent pesticide pollution in urban waterways.
- **Estimated Urban Runoff Copper Reductions Resulting from Brake Pad Copper Use Restrictions Report** – This report was commissioned to develop scientific estimates of copper load reductions due to vehicle brake pad copper content reduction mandates to inform decision-making by CASQA, stormwater permittees, and water quality regulators related to management of copper as a water pollutant.

INADEQUACY OF FUNDING STORMWATER PROGRAMS (AND TMDL IMPLEMENTATION) BECOMES MORE APPARENT WITH EACH PASSING YEAR. THEREFORE, ASSISTING LOCAL AGENCIES WITH STORMWATER FUNDING IS ONE OF THE HIGHEST PRIORITY OBJECTIVES FOR CASQA.

Regulatory Initiatives

Below are a few of the significant regulatory initiatives in which CASQA has participated with the State Water Board unless otherwise noted. For a more complete list of regulatory initiatives in which CASQA participated in 2016, see [Appendix B](#).

- STORMS Stormwater Strategy
- Trash Amendments
- Municipal Permits Petitions
- Permit Fees
- Enforcement Policy
- Total Maximum Daily Loads (TMDL) incorporation into the Industrial General Permit (IGP)
- Construction General Permit (CGP) – U.S. Environmental Protection Agency (U.S. EPA)
- Phase II Remand – U.S. EPA
- Pesticides Registrations/Re-Evaluations – U.S. EPA, California Department of Pesticide Regulation (DPR)

- Brake Pad Regulations – California Department of Toxic Substances Control (DTSC)
- Unfunded Mandate Test Claim, Los Angeles – California Supreme Court

Industrial General Permit Implementation

On July 1, 2015, the new IGP became effective, replacing the 1997 permit. The new IGP requires industrial facilities with stormwater discharges that exceed certain pollutant limits to have QISPs on staff or engage by as early as July 1, 2016, for compliance assistance. In late 2015, the CASQA Board approved seed funding for CASQA to become the administrator of a new IGP Training Program to train and qualify individuals as QISPs. During 2016, CASQA developed a Trainer of Record (ToR) training and qualification program, qualifying 170 ToRs, and contracted with the Office of Water Programs at Sacramento State to

develop a QISP Online Training and Testing System that allows QISP candidates to take exams and portions of the training online. The system includes a public lookup tool and administrative features for registration and data management. A significant amount of work on this project was accomplished in a very short time frame, so that the training program could be available by May 1, 2016, allowing time for individuals to complete the training and testing before the IGP permit provision scheduled for July 1, 2016 triggered the need for QISPs. By the end of 2016, almost 900 individuals had become QISPs as part of this training program. The regulated public will certainly benefit from CASQA's ability to provide a consistent and high quality QISP training program.

Stormwater Funding

Inadequacy of funding stormwater programs (and TMDL implementation) becomes more apparent with each passing year. Therefore, assisting local agencies with stormwater funding is one of the highest priority objectives for CASQA. In 2015, CASQA joined with a diverse group of organizations, including the California State Association of Counties, League of California Cities, Association of California Water Agencies (ACWA), and environmental and business groups to form an informal "stormwater coalition" to explore ways to facilitate funding for local agencies' stormwater programs.

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MESSAGE FROM THE CASQA CHAIR (CONTINUED)

In 2016, CASQA provided information as requested and closely followed the stormwater coalition's filing of a constitutional amendment with the California State Attorney General. The constitutional amendment, if passed by the voters, would have provided a new optional funding system to finance stormwater, flood control, sewer, and water projects. An unfavorable clause in the Attorney General's "Title and Summary" of the proposed amendment and public polling results convinced the coalition not to pursue the amendment. Later in 2016, CASQA tracked state legislation proposed to address constitutional restrictions on funding stormwater. The legislation was held back but may be brought up in the new legislative session. CASQA will continue to be a resource and follow developments.

CASQA 12th Annual Conference

The 2016 CASQA Annual Conference was held September 12–14, 2016 at Paradise Point in San Diego. Once again the CASQA Annual Conference proved its reputation as

the premier forum for information, data and technical exchange, and networking on stormwater. We continued to break attendance records, with this conference attracting nearly 1,000 attendees over the 3-day conference. The Monday night networking event on the deck of the USS Midway was quite an amazing experience!

This year's conference theme, "*Stormwater Evolution: Source to Resource*," was a



perfect expression of the paradigm shift that many of us have experienced in our careers, from thinking about stormwater as a waste and source of pollutants to re-envisioning valuable uses for stormwater during the state's historic drought. This theme tied in well with the many workshops and technical sessions on watershed planning and green infrastructure. Other workshops and sessions helped us keep up with the latest techniques and approaches as well as improve the core elements of our programs.

Our keynote speaker this year was Mr. Andy Lipkis, founder of TreePeople and a practical visionary who has dedicated his life to healing the environment while improving the lives of individuals and communities. Mr. Lipkis' presentation, "*Stormwater Evolution: Collaboration 3.0 Inventing New Water*," discussed the need for integrated management of resources and inspired us to collaborate with multiple agencies and community members to implement projects that capture and use stormwater at the local and regional levels.

It's been my pleasure to be your Chair for the past year. I want to thank all our CASQA members, volunteers, Subcommittees, Executive Program Committee, and Directors for your dedication, hard work, and commitment this past year towards better stormwater management and stewardship. I look forward to another year of progress towards our objectives and vision for managing stormwater in the 21st century!



Jill Bicknell
CASQA Chair

photos: above by Chris Crompton; below © J. Kai Photo



ABOUT US: THE CASQA ORGANIZATION

The California Stormwater Quality Association is dedicated to developing and implementing effective stormwater quality management programs.

CASQA membership is comprised of stormwater practitioners, National Pollutant Discharge Elimination System (NPDES) Permit holders and parties engaged in the improvement of stormwater quality and employed by private corporations, municipalities, the state and federal governments.

ORGANIZATIONAL STRUCTURE

Board of Directors

The CASQA Directors (11 elected volunteers) provide the vision and direction for CASQA, manage its activities and affairs, and exercise the Association's corporate powers. The Board of Directors is responsible for: (1) adopting an annual budget, (2) adopting the annual dues schedule, and (3) adopting the policies and positions concerning regulations, legislation and litigation. Since 2002, the Board of Directors has guided CASQA

to become a widely recognized and well respected nonprofit, educational, scientific, and professional association.

Officers

Officers of the corporation are: Chair, Vice-Chair, Treasurer, Secretary, and Executive Program Coordinator. Officers are elected by the Board of Directors and serve two-year terms.

Executive Director

The CASQA Executive Director manages the day-to-day activities of CASQA, serves as the primary liaison with members, government agencies, and other organizations, and helps to set and achieve the vision for the future and growth of CASQA.

Committees of the Board of Directors

The Board of Directors creates committees that accomplish the goals of CASQA,

each consisting of two or more directors, and other persons that the directors may appoint. Standing board committees are: Audit, Awards, Bylaws Review, EPC, Finance, Membership, and Vision.

Audit oversees the annual audit of CASQA's finances and policies and procedures, and preparation of tax returns.

Awards advances the stormwater quality management profession by identifying and recognizing exemplary leadership, outstanding projects, activities, and contributions to the field of stormwater quality management.

Bylaws Review annually reviews the bylaws and makes recommendations for revisions as necessary to ensure smooth and efficient operation of CASQA.

Executive Program comprises no more than 27 members and directs the technical work of the association through subcommittees.

Finance manages CASQA's fiscal resources, proposes the annual operating budget, and oversees the membership invoices.

Membership retains existing members, outreaches to potential new members, and improves membership value.

Vision maintains the CASQA Vision, oversees development and achievement of annual objectives that support the Vision, and manages the relationship of the Vision to other organizations' strategies for stormwater (e.g., Water Boards' STORMS).

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Man-made residential Bridgeport Lake in Santa Clarita captures, stores, treats and recycles all onsite development stormwater runoff for irrigation purposes



Regional infiltration on the Santa Ana River

photos: above and bottom left: Bruce Phillips, PACE; bottom right: Orange County Water District



OTHER LEADERSHIP

Subcommittees of the Executive Program Committee

Fourteen subcommittees focus on different areas of stormwater management under the auspices of the EPC, chaired by the Vice Chair of CASQA. Composed of an all-volunteer membership, the subcommittees develop products, direct CASQA consultants and provide information to improve surface water resources in California.

The basic charter of each subcommittee is outlined in the summary that follows.

EPC Subcommittees Summary

Best Management Practices provides contemporary information on Best Management Practices (BMPs) and Low Impact Development (LID) based on scientific advances and practical tools through the CASQA web portals.

Conference serves to increase awareness and knowledge of stormwater quality management issues through developing the CASQA Annual Conference and associated workshops.

Construction identifies emerging issues, and tracks trends and regulatory requirements for construction stormwater dischargers and assists members with identifying possible solutions to evolving regulatory requirements.

Effectiveness Assessment provides input and guidance on stormwater program effectiveness assessments, including a standardized conceptual approach to evaluating municipal program elements.

Industrial ensures the issues and concerns of regulated industrial stormwater discharger members are represented in policies and regulations, including permitting and numeric effluent limits.

Legislation tracks stormwater related legislation in the United States Congress and in both the California Senate and Assembly, prepares quarterly legislative summaries for CASQA members, and prepares fact sheets on key legislation that can be used by members to educate their organizations about potential impact of proposed legislation.

Monitoring and Science improves scientific and technical basis of stormwater management programs by developing research and monitoring priorities, as well as seeking collaborators, partners, and grant funding for needed research.

Pesticides addresses pesticide uses that impact stormwater discharges, provides input to U.S. EPA and the California DPR to improve regulations, compiles relevant information, assists members with compliance strategies, and coordinates its activities with other agencies statewide.

Phase II seeks to educate and engage Phase II programs in stormwater management issues and provides a forum for information exchange and collaboration.

Policy and Permitting develops comments and testimony on state, U.S. EPA, and precedent-setting regional policies and permitting initiatives to promote the development of a statewide stormwater policy.

Public Information/Public Participation provides a forum for stormwater public outreach professionals to share ideas and assists in coordinating outreach efforts in California.

Training oversees the development and implementation of long-term sustainable training programs to meet the needs of California stormwater practitioners.

Watershed Management and Impaired Waters promotes the development and application of appropriate water quality standards through tracking and commenting on 303d listings and policy and implementation of TMDLs, facilitates source control, and provides guidance on hydro-modification management.

Website maintains the CASQA website as a stormwater management resource for members and the general public.

CASQA Representatives

CASQA encourages individuals to serve on committees and other groups to represent the interests of stormwater quality management and CASQA members.

Encinitas Union School District's exemplary Stormwater Pollution Prevention Plan (SWPPP) Intern Program recognized by CASQA



photos: above, Bruce Phillips, PACE; below, Bill Dean



2016 ORGANIZATIONAL STRUCTURE

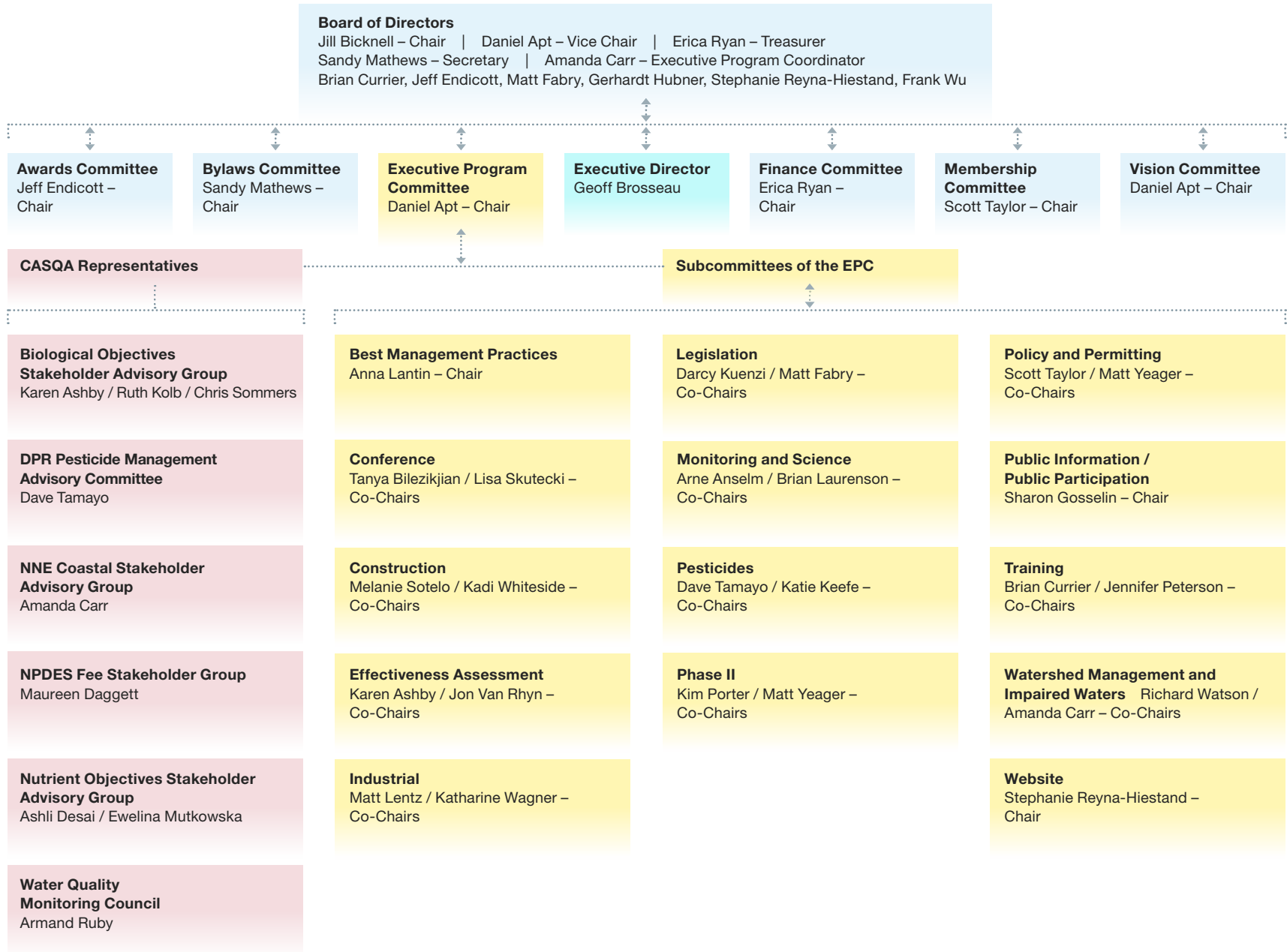


photo above, Kraemer Miller, Orange County Water District

SUBCOMMITTEE ACCOMPLISHMENTS

Following are brief reports from selected subcommittees of the EPC for 2016:

BMPs Subcommittee

Anna Lantin, Chair

The Best Management Practices Subcommittee continued to provide contemporary information for stormwater practitioners on BMPs, site design strategies, water quality and quantity measures through the CASQA BMP Online Handbooks and web portals. In 2016, the BMP Subcommittee focused on updates of the handbooks: (1) significant updates to the “New Development/Redevelopment Handbook” with state-of-the-art information on site design, low impact development, earthen-based solutions, and urban runoff volume control strategies, (2) annual updates to the “Construction BMP Online Handbook” focused on enhancements to the SWPPP template including a new templated specific to linear utility projects; (3) initiated additions and enhancements to the “Industrial and Commercial BMP Online Handbook” and tools to assist dischargers and business owners comply with the State Industrial General Permit; (4) technical workshops and sessions on BMPs and a special session on full capture trash compliance at the annual conference; (5) recommendations to the State Board on BMPs that could qualify as full capture consistent with the requirements of the Statewide Trash Policy. In early 2017, the updates to the BMP handbooks and web portal products will be available to CASQA members, MS4s, regulatory agencies, handbook subscribers, and other interested parties.

THE CASQA ANNUAL CONFERENCE CONTINUED TO DEMONSTRATE ITS VALUE AND BENEFITS, PROVING AGAIN THAT IT IS THE BEST CONFERENCE FOR INFORMATION, NETWORKING, SHARING IDEAS, AND LEARNING ABOUT STORMWATER.



Scenes from the 2016 CASQA Annual Conference

Conference Subcommittee

**Tanya Bilezikjian and Lisa Skutecki,
Co-Chairs**

The CASQA 12th Annual Conference was held in San Diego from September 12–14, 2016, at the Paradise Point resort on Mission Bay. This year the conference flew past its previous record and welcomed almost 1,000 attendees, making it the largest ever CASQA conference. The conference theme, “*Stormwater Evolution: Source to Resource*” provided the central nexus for all of our talks, focusing on stormwater as a resource, and reflecting the State Water Board’s STORMS program.

The CASQA Annual Conference continued to demonstrate its value and benefits, proving again that it is the best conference for information, networking, sharing ideas, and learning about stormwater. This year a new element was introduced, the CASQA Annual Conference Mobile App. The app provided a living, interactive information source for session locations, exhibitor and attendee contact information exchange, social media and photo posting, and allowed each attendee to customize his or her daily schedule.

The conference opened with the New Member and New Attendee Welcome Event on Sunday night. The Technical Workshops on Monday focused on some of the hottest topics in the stormwater field, and included Natural Treatment Systems, Stormwater Monitoring, Industrial General Permit, Bacteria TMDLs, and Approaches
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for Trash Capture and Compliance. Dozens of compelling posters were included in the 3rd annual Poster Session, and were on display throughout the conference. Monday wrapped up with a night aboard the aircraft carrier USS Midway for our Networking Event. Guests were treated to a tour of the ship, an opportunity to test their piloting skills in the flight simulators, and a deck stroll that included many of the planes that flew from the Midway during its decades of service.

Tuesday's plenary session began with a welcome address by the CASQA Chair, Jill Bicknell, followed by announcement of the CASQA Awards by our Awards Committee Chair, Jeff Endicott. The morning was rounded out by our inspiring keynote speaker, Andy Lipkis of TreePeople, as he gave an

impassioned and moving speech about sustainable cities, and how they can improve the lives of individuals and communities.

Seven concurrent technical sessions provided attendees with many options to meet their educational needs, with almost 100 compelling talks, panels, and forums on a wide range of topics – but all looking at the central theme of how we are starting to manage and think about stormwater: as a resource, not as a waste. The exhibit hall was always packed with attendees and exhibitors as they shared information, design tips, and new research.

A huge thanks to the Conference Subcommittee for their tremendous efforts to put on this amazing conference, and to all of the attendees who came to learn, enjoy, and participate!

Construction Subcommittee

*Melanie Sotelo and Kadi Whiteside,
Co-Chairs*

The Construction Subcommittee is an active forum for CASQA members and industry professionals to share information on Construction General Permit implementation challenges. The subcommittee works together to follow and understand changes in state and federal policy and regulations. In 2016, bi-monthly subcommittee meetings were well attended by CASQA members and industry professionals seeking to improve their understanding and knowledge of permit implementation. Subcommittee members provided review and input on draft construction permit language posted by U.S. EPA and is participating in review of the updates to the Construction BMP Handbook. Its members served in liaison roles not only to other CASQA subcommittees (BMP, Policy and Permitting, and Training) but to other external organizations with similar interests as well. Subcommittee members were instrumental in advocating and coordinating construction-focused sessions at the CASQA Annual Conference, including a construction technical track, a pre-conference workshop field tour, a CGP “Ask the Regulator” session, and forums for CGP Trainers of Record, Qualified SWPPP Practitioners, and Qualified SWPPP Developers. With the Draft CGP out on the not too distant horizon, the Construction Subcommittee is poised to lead the efforts on review and commenting.

Effectiveness Assessment Subcommittee

*Jon Van Rhyn, Karen Ashby, and
David Pohl, Co-Chairs*

The Effectiveness Assessment (EA) Subcommittee was successful in developing a number of assessment guidance and tools during 2016. The key accomplishments are listed as follows:

- **EA Web Portal Updates** – The EA Web Portal, which was established in 2015, provides a central repository for obtaining guidance, sharing data and information, and obtaining planning and assessment support. It houses all of the deliverables that have been completed by the EA subcommittee as well as other EA-based resources. During 2016 the committee continued to promote and incorporate new information on the website. It can be accessed using this link: www.casqa.org/effectiveness_assessment.
- **RFQ for Assistance with the Review and Evaluation of Source Contribution Tools and Methodologies (late 2016)** – The EA Subcommittee released a Request for Qualification (RFQ) seeking more detailed guidance to assist program managers in evaluating the pollutant and flow contributions of various source types (residences, commercial businesses, industrial businesses, construction sites, etc.). This project will be implemented during 2017. *(continued on next page)*



Conference keynote speaker, Andy Lipkis



San Leandro Creek floodwall construction



SUBCOMMITTEE ACCOMPLISHMENTS (CONTINUED)

- Webinar: “Lessons Learned from PEA Development and Implementation” (November 2016)** – This free webinar featured four case studies from Phase I, Phase II Traditional, and Phase II Non-Traditional stormwater communities as to how they have utilized effectiveness assessment within the context of their stormwater program. The primary focus of the webinar was lessons learned in with the assessments of Phase I and II programs. This webinar is available for viewing under the CASQA Stormwater Effectiveness Assessment section of the website. Almost 100 people participated.
- Webinar: “Stormwater Resource Plans - Guidelines” (November 2016)** – This free webinar was held for municipalities, agencies, and consultants that have prepared or are preparing Stormwater Resource Plans to discuss approaches to project integrated analysis and prioritization as it relates to quantitative metrics. As these metrics will be used to assess project prioritization and eventually project effectiveness, the approaches to determining these metrics that include annual pollutant load reduction and annual stormwater capture and beneficial use, are key to assessing projects for funding as well as achieved benefits following implementation. About 60 people participated in the webinar. The presentations are available under the CASQA Stormwater Effectiveness Assessment section of the website.

Industrial Subcommittee

Matt Lentz and Katharine Wagner, Co-Chairs

This year the Industrial Subcommittee focused on implementation challenges under the Industrial General Permit which became effective July 1, 2015. On July 1, 2016, many facilities entered “Level 1” under “exceedance action response” provisions of the permit, requiring special facility reviews and reporting. Many will enter the yet more demanding “Level 2” July 1, 2017 based on sampling in 2016–17, which has been the subject of ongoing discussions in the Subcommittee.

Meanwhile, subcommittee co-chairs organized the full-day Industrial General Permit workshop at the CASQA Annual Conference and other conference sessions, notably including a focus on the planned amendment of the permit to incorporate requirements based on 37 TMDLs. The subcommittee also developed comments on and tracked Regional Board proposals for the amendment. It also launched projects on atmospheric deposition, and work groups on volume reduction/infiltration, enforcement, and clarifications needed in other permit areas. Membership and monthly call participation remains high.

Legislation Subcommittee

Darcy Kuenzi and Matt Fabry, Co-Chairs

The Legislation Subcommittee tracks bills and educates members on legislative and regulatory issues related to stormwater. This year there were 49 bills that were proposed in the state legislature and 8 were signed by the Governor.

The CASQA Legislative Update is shared with other state organizations that have an interest in stormwater issues and have assisted in educating water leaders and elected officials throughout the state.

Monitoring and Science Subcommittee

Arne Anselm and Brian Laurenson, Co-Chairs

The Monitoring and Science Subcommittee hosted seminars on a variety of technical topics throughout the year, including the Environmental Science Technology Certification Program efforts to improve stormwater toxicity testing, analytical method advancements for pyrethroid pesticides, and a review of an investigation of the impact of natural total dissolved solids levels on benthic macroinvertebrate communities in the South Coast Region. The Monitoring and Science Subcommittee also managed a contract with the Southern California Coastal Water Research Project that evaluates statewide bioassessment data for spatial representativeness. A project report is expected in early 2017. The Monitoring and Science Subcommittee looks forward to more technical seminars in 2017 and to further coordinate with other subcommittees and the CASQA membership.

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Water quality sampling in Orange County

photos: above © J. Kai Photo; bottom, CC Public Works



SUBCOMMITTEE ACCOMPLISHMENTS (CONTINUED)

Pesticides Subcommittee

Dave Tamayo and Katie Keefe, Co-Chairs

The Pesticides Subcommittee continued to work closely with Water Board and California Department of Pesticide Regulation staff on developing the STORMS project (now entitled “Pesticide Amendments”) to address pesticides in urban runoff. These amendments are intended to reduce regulatory burdens on MS4s while improving the state’s ability to utilize pesticide regulations to prevent and mitigate urban water quality impacts. Final adoption of the Pesticide Amendments by the State Water Board is expected in 2017. A key goal is to structure the Pesticide Amendments so that pesticides in urban water bodies are generally

addressed through state pesticide regulatory action led by DPR, rather than costly and inefficient watershed-specific TMDLs. Significant progress has been made in developing the key areas to be addressed by the Pesticide Amendments, which include monitoring, a reasonable suite of BMP requirements for MS4s, and the roles and responsibilities of the water boards and DPR.

The subcommittee continued to support DPR’s efforts to evaluate and improve implementation of its pyrethroid application regulations, and adopt regulations to address fipronil impacts. Additionally, the subcommittee laid the scientific groundwork to support initiation of pesticide regulations to mitigate impacts of imidacloprid, an urban use pesticide that is emerging as a new problem for MS4s.

Our activities and accomplishments are documented in detail in the “Pesticides Subcommittee Annual Report and Effectiveness Assessment 2015–2016.” This report also serves as a compliance submittal for a number of MS4s, as it demonstrates CASQA’s extensive effort on their behalf to address pesticides.

Phase II Subcommittee

*Cathleen Garnand,
Kim Porter, and Matt Yeager, Co-Chairs*

Small Phase II Permittees were in full swing with Year 3 implementation of the Phase II Small MS4 General Permit. In addition to reviewing items for Year 3 and developing support for uploading the reports into the Stormwater Multiple Application and Report Tracking System, topics for the subcommittee members included PEA, Trash Amendment updates and presentations, Prop 1 Stormwater Resource Plan discussions, MS4 Audits and Regional Board issues, coordination for upcoming municipal operations training videos, and FAQ presentation and review from telecommunication industry regarding NPDES permit requirements for non-storm discharges from utility vault dewatering.

The Phase II Subcommittee’s monthly conference calls are very popular and continue to grow each year, typically with 30-40 participants and lively discussions. These calls provide a much-needed forum to discuss topics related to permit implementation. These regular meetings support both traditional (e.g. municipalities) and non-traditional (e.g. universities, institutions, etc.) by connecting members, sharing ideas, and presenting new tools. We tap into statewide issues and also learn what’s happening at the different Regional Boards. One of the goals of the subcommittee is to provide training opportunities. Working with the Training Subcommittee, conference workshops and webinars will be offered.

Watershed Management and Impaired Waters Subcommittee

*Richard Watson and Amanda Carr,
Co-Chairs*

In 2016, the Watershed Management and Impaired Waters Subcommittee continued work toward the goal of improving water quality through true source control. The subcommittee successfully engaged the State Water Board to take the lead on a petition to the DTSC to utilize its Safer Consumer Products Regulations to control zinc in tires. Working with the State Water Board will benefit the process tremendously, since state agencies get priority in the DTSC petition process. The subcommittee modified a project that had been previously approved by CASQA’s Board and EPC to provide technical support for the State Water Board in pursuing the petition. State Board staff met with the DTSC, got direction on how to proceed, and prepared an outline for the petition. In November, Richard Watson and Fred Krieger, representing the subcommittee, met with the Rubber Manufacturers Association, the International Zinc Association, and the State Water Board to discuss the zinc issue. Next steps for 2017 include responding to industry comments presented at the November meeting. The State Board will also modify the petition outline based on the CASQA comments prior to development and submission of the petition to the DTSC.

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photo above © J. Kat Photo; inset left © Maxim Evdokimov | Dreamstime.com



SUBCOMMITTEE ACCOMPLISHMENTS (CONTINUED)

The subcommittee continued work tracking implementation of SB 346. In January, the group approved and submitted to the CASQA Board a report entitled *Estimated Urban Runoff Copper Reductions Resulting from Brake Pad Copper Restrictions*, which was released by CASQA in April. As stated in its preface, the report was commissioned to develop scientific estimates of copper load reductions due to vehicle brake pad copper content reduction mandates to inform decision-making by CASQA, stormwater permittees, and water quality regulators related to management of copper as a water pollutant. In addition, the subcommittee received regular updates on similar copper reduction work in Washington State, as well as tracking the implementation process in California.

The subcommittee also continued its work tracking the status of numerous other issues that impact the regulated community. In December, the subcommittee submitted to the CASQA Board for approval a draft letter to U.S. EPA to urge the Agency to update the California Toxics Rule based on its own 2007 recommended water quality criteria for copper. The subcommittee's tracking of municipal permit renewals expanded to incorporate monitoring the role of the unfunded mandates decisions by the courts and the Commission on State Mandates and the impact on MS4 permits.

The subcommittee tracked the status of and challenges related to the State Water Board's

Trash Amendment. The group received updates about the amendments, and the work of the Trash Policy Advisory Committee, and members were solicited for comments as to what specific issues they would like to address with the State Board. Additional work included discussion and coordination related to the State Board's Biological Integrity Policy; the TMDL reopener process; work on the Bacteria TMDL reopener; the 303(d) listing process; the Proposed Newport Bay Copper TMDL; the U.S. EPA guidance memo regarding integrated lists; and continued coordination with the California Product Stewardship Council on opportunities for mutual support.

Website Subcommittee

Stephanie Reyna-Hiestand, Chair

The CASQA website is continually updated and is the go-to place for the most current CASQA information and stormwater resources. View the home page announcements (www.casqa.org) for information and links for upcoming events, significant reports and presentations, and current postings of Request for Proposals (RFPs) and RFQs.

In 2016 we further developed the QISP section of the website (www.casqa.org/resources/qisp-qualification), including an update for California IGP ToR to access the QISP Training Course Calendar now housed on the Office of Water Programs at Sacramento State (OWP) website.

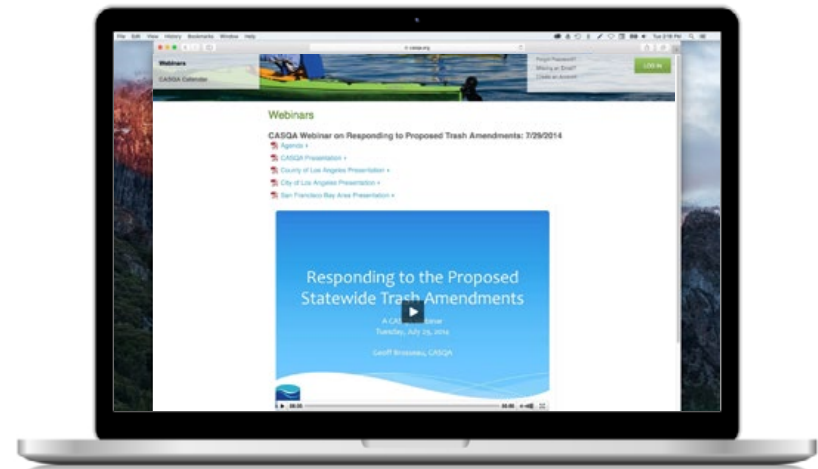
The Presentations page of the Stormwater Effectiveness Assessment section of the website (www.casqa.org/resources/stormwater-effectiveness-assessment/presentations) was updated with two webinars presented in November 2016: "Stormwater Resource Plans - Guidelines" and "Lessons Learned from Program Effectiveness Assessment Development and Implementation." Website visitors can view or download PDFs of the webinars.

In addition, a page for webinars was added under the Events section (www.casqa.org/events/webinars). These are webinars that are held separately from the quarterly meetings/webcasts, and that do not fall under another section of the website such as Stormwater Effectiveness Assessment. Currently posted

is the CASQA webinar, "Responding to Proposed Trash Amendments" (7/29/2014). Other webinars will be posted as needed.

We encourage CASQA members to utilize the Member Forum page under the News & Library section (www.casqa.org/news-library/member-forum/member-forum). This is a place for stormwater colleagues to ask questions and post topics for discussion.

Both CASQA members and non-members can visit the Public Documents page of the News & Library section (www.casqa.org/news-library/public-documents) for materials such as the CASQA annual reports and other documents. Posted in 2016 was the report, "Estimated Urban Runoff Copper Reductions Resulting from Brake Pad Copper Use Restrictions" (April 2016).



The Webinar, "Responding to Proposed Trash Amendments," currently posted under the Events section of CASQA's website

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THE YEAR AHEAD: INITIATIVES FOR 2017

The following describes some of the initiatives that CASQA, in collaboration with others, has planned for 2017 to help our members and make progress towards the principles described in the CASQA Vision.

CASQA's Vision and Strategic Planning

In late 2013, looking inwardly at the organization, CASQA established an ongoing strategic planning process to guide its decisions and efforts as it continues to grow and develop as an organization. CASQA's 3 core values are:

- Leadership
- Integrity (Credibility)
- Balance (Stewardship: Resources/Environment)

CASQA's 4 types of 10-year goals or guiding purposes are:

- Set/Pursue Stormwater Vision
- Influence/Advocate/Educate
- Implement/Facilitate Solutions
- Grow Membership/Develop Leaders

Additionally, in 2015 looking outwardly at the discipline of stormwater management, CASQA released its *Vision and Strategic Actions for Managing Stormwater in the 21st Century*. The purpose of the Vision and Strategic Actions is to address the primary issue for stormwater management: The lack of consensus on how best to meet the goals of the Clean Water Act for stormwater.

CASQA developed the Vision and Strategic Actions for CASQA, its members and the public to pursue a comprehensive plan for stormwater that will achieve the goals of the Clean Water Act and improve the efficiency and effectiveness of stormwater management. CASQA's vision statement is:

"Manage stormwater as a vital component of California's water resources, to support human and ecological needs, to protect water quality, and to restore our waterways."

Annually, the CASQA Board of Directors conducts a strategic planning exercise in which objectives with ties to the organization's 10-year goals and the Vision's strategic actions are developed for the coming year. The CASQA committees and subcommittees are then challenged to propose activities and projects for the new year that address the annual objectives and therefore advance CASQA's efforts to meet its 10-year goals and Vision for stormwater management.

Finally, every 2 years timed to coincide with the 2-year terms of incoming CASQA Chairs, CASQA conducts a review and update of its strategic plan and the Vision. The next review and update will be conducted later this year.

Some of the specific projects and activities that CASQA's EPC, subcommittees, and contractors will be involved in during 2017 include:

- Completing work to update the *New Development BMP Handbook* and convert it to a web portal format like the *Construction and Industrial Handbooks*



- Optimizing the mobility of all three online BMP Handbooks, including creating a mobile device app so they are as easy to access and use in the field as in the office
- Initiating two studies to assist in CGP implementation – one on runoff coefficients for gravel surfacing to support post-construction standards and another on use of polyacrylamide for sediment control
- Continuing to track and comment on the incorporation of TMDLs into the IGP
- Continuing to address the spatial dimensions of bioassessment data by developing and testing tools to evaluate spatial variability
- Continuing to track and comment on pesticide registration activities conducted by the U.S. EPA and the California DPR, to ensure pesticide evaluations include consideration of water quality impacts
- Completing work on short training videos on good housekeeping BMPs for municipalities
- Continuing to implement true source control when appropriate by providing technical support to the State Water Board's petition to DTSC regarding zinc in tires and watchdogging and promoting the implementation of the copper brake pad legislation

(continued on next page)

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Stormwater Funding

As described in the Message from the CASQA Chair, assisting local agencies with stormwater funding continues to be one of the highest priority objectives for CASQA. Each of the last few years, CASQA has addressed this priority by:

- Convening leading experts at CASQA quarterly meetings and annual conferences to provide the latest thinking and information on ways to address funding
- Promoting other organizations' similar events and information sources
- Collaborating on stormwater funding-related projects with other organizations (e.g., State Water Board, California Council for Environmental and Economic Balance (CCEEB), California Coastkeeper Alliance (CCKA), and Association of California Water Agencies) as part of the STORMS Program
- Acting as a resource to those organizations pursuing and advocating for systemic change in funding approval processes
- Providing factual information to those that would support such change

2017 is expected to be no different as CASQA plans to continue the efforts listed previously, plus:

- Release white papers on:
 - “Stormwater Funding Barriers and Opportunities”
 - “Use of Asset Management Principles to Support Integrated Stormwater Management Objectives”
- Develop a stormwater funding website portal

Collaboration with the State Water Board

State Water Board's Stormwater Strategy

In January 2016, the State Water Board adopted its *Strategy to Optimize Resource Management of Storm Water*. The Strategy's vision is that “stormwater is sustainably managed and utilized in California to support

water quality and water availability for human uses as well as the environment.”

The Strategy contains a mission statement, goals, objectives, and prioritized projects to implement the mission in 3 phases over a 12-year period and achieve the vision. CASQA provided input, comments and testimony throughout the Strategy development process to promote a statewide vision, mission, and projects that are compatible with CASQA's own *Vision and Strategic Actions for Managing Stormwater in the 21st Century* (January 2015).

At CASQA's suggestion, the State Water Board set up an Implementation Committee comprised of Water Board staff and core representatives from CASQA, CCKA, CCEEB, ACWA, and the California Association of Sanitation Agencies. The committee is “a coordinating and advisory body that provides a forum for information exchange, consideration of STORMS project challenges and improvements, and development of collective

feedback and recommendations to Water Board Staff and Management.” CASQA has been quite active in the committee's first year and looks forward to continuing to collaborate with the rest of the committee on these first phase projects:

- Promoting stormwater capture and use and identifying/eliminating barriers
 - Developing guidance for alternative compliance approaches for municipal stormwater permit receiving water limitations
 - Developing watershed-based compliance and management guidelines and tools
 - Eliminating barriers to funding stormwater programs
 - Establishing a statewide framework for urban pesticide reduction
 - Identifying opportunities for source control and pollution prevention
- (continued on next page)*



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State Water Board Initiatives

The State Water Board will likely be making substantial progress and moving forward in 2017 on a number of statewide plan/policy initiatives, including (in alphabetical order):

- Bacteria water quality objectives for ocean and inland surface waters
- Biostimulatory Substances/ Bio-Integrity project
- Construction General Permit reissuance, plus incorporation of TMDL implementation requirements
- Enforcement Policy Amendments
- Industrial General Permit Amendments – incorporation of TMDL implementation requirements
- Mercury water quality objectives and implementation plan
- Phase II Small Municipal Separate Storm Sewer System (MS4) Permit incorporation of TMDL implementation requirements
- Sediment quality objectives for enclosed bays and estuaries

- Toxicity Amendments to the Inland Surface Waters, Enclosed Bays, and Estuaries Plan
- Trash Amendments – implementation requirements and guidance

CASQA will continue to track, participate as official stormwater representatives on advisory groups, and otherwise engage with the State Water Board as these initiatives develop, and keep our members informed via the bi-weekly *CASQA NewsFlash*. CASQA invites your participation through the appropriate CASQA subcommittee or CASQA representative.

CASQA’s Annual Conference

The 2017 CASQA Annual Conference will be held at the Sacramento Convention Center/ Hyatt Regency Sacramento on September 25–27, 2017. As demonstrated by the 12th Annual Conference in San Diego in 2016, the CASQA Annual Conference is the best place for stormwater practitioners to keep up with the latest technical topics, exchange ideas, and network with others in the stormwater quality field. Planning for the conference has already begun; check the CASQA bi-weekly e-newsletters for abstract and award nomination submittal deadlines, registration deadlines, and other ways you can get involved.

All are welcome to participate in the Conference Subcommittee; the monthly call times are posted on the CASQA website in the CASQA calendar.

Member Involvement

For 2017, CASQA’s Board of Directors will be considering how the organization can better serve its members. One example is how CASQA engages its members throughout the year. Currently, CASQA holds three quarterly General Meetings in different parts of the state, in addition to the annual conference, which include presentations on various topics of interest. One change being considered is to replace one of the in-person General Meetings with a webcast-only meeting to reduce the cost and allow more members to attend.

One of the best ways for members to become involved in CASQA is by participating in one of our 14 subcommittees (see [page 7](#) of this Annual Report). The subcommittees oversee some of the most important technical, regulatory, and policy work of the organization, and are also a great forum in which to learn how other members are addressing permit compliance and program implementation challenges.

If you have additional ideas or suggestions on how CASQA can better serve its members, please feel free to contact me. I encourage everyone to make a resolution for 2017 to get more involved in your stormwater organization!

Jill Bicknell – CASQA Chair



The 2017 CASQA Annual Conference will be held on September 25–27 in Sacramento, CA

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APPENDIX A: BOARD OF DIRECTORS AND EXECUTIVE PROGRAM COMMITTEE

Board of Directors

Jill Bicknell – Chair
Santa Clara Valley Urban Runoff Pollution Prevention Program

Daniel Apt†† – Vice-Chair
Olaunu, LLC

Erica Ryan – Treasurer
San Diego Regional Water Quality Control Board

Amanda Carr* – Executive Program Coordinator
County of Orange

Sandy Mathews†† – Secretary
Larry Walker Associates

Brian Currier††
Office of Water Programs at Sacramento State

Jeff Endicott††
CASC Engineering and Consulting

Matt Fabry*
San Mateo Countywide Water Pollution Prevention Program

Gerhardt Hubner

Stephanie Reyna-Hiestand*
City of Tracy

Frank Wu
County of Los Angeles Department of Public Works

Geoff Brosseau
Executive Director

Executive Program Committee

Daniel Apt††
Vice Chair / EPC Chair
Olaunu, LLC

Anna Lantin†
BMPs Chair, *Michael Baker International*

Tanya Bilezikjian† / **Lisa Skutecki**†
Conference Co-Chairs
Michael Baker International / Brown & Caldwell

Melanie Sotelo† / **Kadi Whiteside**
Construction Co-Chairs,
CASC Engineering and Consulting / Southern California Edison

Jon Van Rhyn / **Karen Ashby**†
Effectiveness Assessment Co-Chairs
San Diego County / Larry Walker Associates

Matt Lentz† / **Katharine Wagner**†
Industrial Co-Chairs,
GSI Environmental / Attorney

Darcy Kuenzi / **Matt Fabry***
Legislation Co-Chairs,
Riverside County Flood Control and Water Conservation District / San Mateo Countywide Water Pollution Prevention Program

Arne Anselm / **Brian Laurenson**†
Monitoring and Science Co-Chairs
Ventura County Watershed Protection District / Larry Walker Associates

Dave Tamayo / **Katie Keefe**
Pesticides Co-Chair and Representative to DPR Pest Management Advisory Committee / Pesticides Co-Chair
County of Sacramento / City of Santa Maria

Kim Porter / **Matt Yeager**
Phase II Co-Chairs
Cal Poly San Luis Obispo / City of Hesperia

Scott Taylor† / **Matt Yeager**
Policy and Permitting Co-Chairs
Michael Baker International / City of Hesperia

Sharon Gosselin
Public Information / Public Participation Chair
Alameda Countywide Clean Water Program

Brian Currier†† / **Jennifer Peterson**†
Training Co-Chairs
Office of Water Programs at Sacramento State / NV5

Richard Watson† / **Amanda Carr***
Watershed Management and Impaired Waters Co-Chairs, *Richard Watson & Associates / County of Orange*

Stephanie Reyna-Hiestand*
Website Chair, *City of Tracy*

Maureen Daggett†
Fee Stakeholder Group Representative, *ECMS*

Matt Yeager / **Ruth Kolb**
Sediment Quality Advisory Committee Representative, *City of Hesperia / City of San Diego*

Amanda Carr*
Nutrient Numeric Endpoint Coastal Stakeholder Advisory Group Representative, *County of Orange*

Armand Ruby†
Water Quality Monitoring Council Representative
Armand Ruby Consulting

Ruth Kolb / **Chris Sommers**† / **Karen Ashby**†
Biological Objectives Stakeholder Advisory Group Representatives
City of San Diego / EOA, Inc. / Larry Walker Associates

Ewelina Mutkowska / **Ashli Desai**†
Nutrient Objectives Stakeholder Advisory Group Representatives
County of Ventura / Larry Walker Associates

Executive Program Committee At-Large Members

Paul Alva / **Mark Lombos**
Los Angeles County

Mark Grey† / **Kathryn Hubbard**†
Building Industry Association of Southern California

Mack Walker†
Larry Walker Associates

Kelly Moran†
TDC Environmental, LLC

Daniel Rourke
Fresno Metropolitan Flood Control District

Executive Program Committee Ex Officio Members

Richard Boon
County of Orange

Jeff Endicott††
CASC Engineering and Consulting

Lisa Austin†
Geosyntec Consultants

FOR MORE INFORMATION ON CASQA DIRECTORS, STAFF AND COMMITTEES, PLEASE VISIT OUR BOARD AND COMMITTEES PAGE ON THE CASQA WEBSITE.

Member affiliations listed in italics

*EPC members also on the Board of Directors (minimum 2 required)

†EPC members who are affiliate members (minimum of 1/3 of filled vacancies required)

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FOLLOWING IS A LIST OF THE 25 COMMENT LETTERS / BRIEFS, 3 TESTIMONIES, 3 MEMOS / REPORTS, AND 1 TRAINING VIDEO SERIES PROVIDED BY CASQA DURING 2016.

Comment letters and other materials are available to CASQA members on the CASQA website, or may be obtained by contacting us at info@CASQA.org.

Executive Director

September 15, 2016 – Comments to State Water Board on consideration of a proposed Resolution adopting emergency regulations revising the core regulatory fee schedules

Construction Subcommittee

May 26, 2016 – Comments to U.S. EPA on proposed 2017 Construction General Permit

Industrial Subcommittee

March 23, 2016 – Comments to Santa Ana Regional Water Board on Draft Toxics TMDL-specific permit language for IGP

March 31, 2016 – Comments to Los Angeles Regional Water Board on Proposed TMDL-specific IGP Requirements

March 31, 2016 – Comments to San Francisco Bay Regional Water Board on TMDL-specific IGP language for the Napa River Sediment TMDL and the Sonoma Creek TMDL

April 1, 2016 – Comments to San Diego Regional Water Board on Proposed TMDL-specific IGP Requirements

April 7, 2016 – Comments to Los Angeles Regional Water Board on Draft TMDL-Specific Industrial General Permit Requirements – Calleguas Creek Watershed, Oxnard Drain 3, Ventura County Harbor Beach Bacteria

April 14, 2016 – Comments to Los Angeles Regional Water Board on Draft TMDL-Specific Industrial General Permit Requirements – Ballona Creek and Marina del Rey Harbor Subwatersheds; Los Angeles County Coastal Streams Watershed; Machado Lake Subwatershed; & Dominguez Channel/Los Angeles Harbor Watershed

May 13, 2016 – Comments to Los Angeles Regional Water Board on Draft TMDL-Specific Industrial General Permit Requirements – Los Angeles Area Lakes (including Peck Road Park Lake, Echo Park Lake, and Puddingstone Reservoir) and Santa Monica Bay Watershed

Pesticides Subcommittee

March 7, 2016 – Comments to U.S. EPA on Diuron Registration Review, Case No. 0046

July 13, 2016 – Legal Memorandum: Accounting for the Costs of Stormwater Pollution Control Under Federal Pesticides Law

August 10, 2016 – CASQA Pesticides Subcommittee Annual Report and Effectiveness Assessment 2015-2016

September 12, 2016 – Comments to U.S. EPA regarding Lithium Hypochlorite Registration Review, Proposed Interim Decision, Case # 3084 (EPA-HQ-OPP-2013-0606)

November 16, 2016 – Comments to U.S. EPA regarding Proposed Interim Decision for copper compounds

December 2, 2016 – Request to U.S. EPA for Extension of the Comment Period for the Draft *Ecological Risk Assessment for the Pyrethroid Insecticides*

Phase II Subcommittee

March 21, 2016 – Comments to U.S. EPA on Small MS4 General Permit Partial Remand

Policy and Permitting Subcommittee

January 6, 2016 – Testimony to State Water Board on Storm Water Strategy (STORMS)

April 30, 2016 – Comments to State Water Board regarding SWRCB OCC File A-2455 (A thru M) (San Francisco Baykeeper petition of San Francisco Bay Area Municipal Regional Permit)

May 16, 2016 – Comments to State Water Board regarding SWRCB_OCC File A-2455 (A thru M) (dated May 2, 2016)

May 16, 2016 – Comments to State Water Board regarding SWRCB_OCC File A-2456 (A thru L)

June 17, 2016 – Comments to U.S. EPA on the EPA-USGS Technical Report: *Protecting Aquatic Life from Effects of Hydrologic Alteration*

July 19, 2016 – Comments to State Water Board on Southern California Stormwater Focus Group on Proposed Amendment for Biostimulatory Substances

July 25, 2016 – Comments to U.S. EPA on proposed Federal Rule: NPDES: Applications and Program Updates

September 30, 2016 – Amicus curiae letter to California Supreme Court in response to the State’s request for rehearing the Los Angeles unfunded mandates test claim

October 18, 2016 – Comments to State Water Board on Proposed Amendments to Water Quality Enforcement Policy

November 1, 2016 – Panel Presentation to State Water Board regarding STORMS

December 14, 2016 – Comments to San Diego Regional Water Board on Trash Investigative Order No. R9-2016-0205

Training Subcommittee

April 13, 2016 – *Industrial General Permit Training Program – Learning Management System (LMS)-based Qualified Industrial Stormwater Practitioner (QISP) Training* videos

Watershed Management and Impaired Waters Subcommittee

April 13, 2016 – *Estimated Urban Runoff Copper Reductions Resulting from Brake Pad Copper Use Restrictions* report

May 23, 2016 – Comments to DTSC via 45-day Comment Period on the Formal Draft Regulations for the California Brake Pad Law; DTSC Reference Number: R-2014-01

May 27, 2016 – Testimony to DTSC via Hearing on the Formal Draft Regulations for the California Brake Pad Law; DTSC Reference Number: R-2014-01

June 30, 2016 – Comments to DTSC on Revised Draft Brake Pad Regulations

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