

2007

# CASQA CONFERENCE

## CONFERENCE PROGRAM

**- STORMWATER MANAGEMENT -  
TOOLS FOR SUCCESS**

September 10-12, 2007

Hilton Hotel

Costa Mesa, California

[www.casqa.org](http://www.casqa.org)



### THANK YOU TO THE FOLLOWING CONFERENCE SPONSORS:

#### GOLD LEVEL:



#### SILVER LEVEL:

Bio Clean Environmental Services  
Brown and Caldwell  
California Watershed Engineering  
CH2M HILL  
EOA, Inc.  
Nautilus Environmental  
Psomas  
Roscoe Moss Company  
SCI Consulting Group  
Somach, Simmons & Dunn

#### **A SPECIAL THANK YOU TO THE FOLLOWING CASQA SUBCOMMITTEE MEMBERS WHO COORDINATED THIS YEAR'S CONFERENCE:**

Gene Estrada  
Conference Chair

Daniel Rourke  
Program Coordinator

Steve Stump  
Conference Treasurer

Bill Busath  
Accommodations Coordinator

Chris Crompton  
Promotions Coordinator

At Large:  
Jamie Aderhold  
Deborah Castillo

Jeff Endicott  
Awards Coordinator

Scott Taylor  
Pre-conference Workshop I Coordinator

Dan Bounds  
Carmel Brown

Karen Ashby  
Exhibitor/Sponsor Coordinator

Richard Watson  
Pre-conference Workshop II Coordinator

Kerry Schmitz  
Food & Beverage/ AV Coordinator

Dustin Bambic  
Pre-conference Workshop III Coordinator

Kevin McGillicuddy  
Moderator Coordinator

Geoff Brosseau  
CASQA Executive Director

**We hope to see you next year for the 4th Annual CASQA Conference!  
Go to [www.casqa.org](http://www.casqa.org) for 2008 Conference details coming soon.**



California Stormwater Quality Association  
P.O. Box 2105 - Menlo Park, CA 94026-2105  
Phone: (650) 366-1042, Fax: (650) 365-8678  
E-mail: [info@casqa.org](mailto:info@casqa.org)

**MONDAY, SEPTEMBER 10, 2007 - 8:30 AM – 4:45 PM**

The following three concurrent workshops are available to pre-registered attendees.

**Pre-Conference Workshop I: Construction Site Stormwater Quality (Emerald Bay -**

California is about to adopt a new statewide General Construction Permit that will include many new requirements for public and private construction projects. This workshop will include in-depth presentations by national experts on key new areas including erosion control, advanced treatment systems, and water sampling at construction sites.

**Pre-Conference Workshop II: Improving Water Quality Through Community Design & Low Impact Development (Laguna Beach)-**

Innovative community design and low impact development (LID) hold much promise for water quality improvement but also pose challenges for planners, engineers, and developers. This workshop will address these challenges and highlight success stories.

**Pre-Conference Workshop III: Bacteria from A—Z (Newport Beach)-**

Elevated bacteria levels and the challenge of identifying and controlling bacteria sources are problems faced by stormwater managers today. This workshop is intended to provide a better understanding of bacteria including an introduction to indicators and bacteria standards; various viewpoints on dealing with bacteria discharges; effective Best Management Practices (BMPs); and available source identification technologies.

**TUESDAY, SEPTEMBER 11, 2007 - 8:30 AM – 5:30 PM**

**Welcome Opening Remarks & Keynote, 8:30a-9:30a (Catalina Ballroom):**

**Terry Tamminen;** Author, lecturer, strategist

**All day, multi-track presentations, 9:40a-5:30p (Track A: Balboa Bay, Track B: Emerald Bay, Track C: Newport Beach, Track D: Laguna Beach):**

Covering the Conference Theme of Stormwater Management – Tools for Success: Research, Policy, Planning, Implementation, and Assessment (see Tuesday's track schedule on page 4 for details).

**Lunch & Awards Program, 12:00p-1:20p (Catalina Ballroom):** CASQA awards ceremony to honor outstanding contributions to stormwater quality management.

**Exhibits Open All Day, 8:00a-5:30p: Exhibitor Sponsored Reception in the evening from 5:30 pm – 7:00 pm inside the expo hall. (Pacific Ballroom)**

**WEDNESDAY, SEPTEMBER 12, 2007 - 8:30 AM – 3:45 PM**

**All day, multi-track presentations, 8:30a-3:45p (Track A: Balboa Bay, Track B: Emerald Bay, Track C: Newport Beach, Track D: Laguna Beach):**

Covering the Conference Theme of Stormwater Management – Tools for Success: Research, Policy, Planning, Implementation, and Assessment (see Wednesday's track schedule on page 5 for details).

**Luncheon & Keynote Speaker, 12:00p-1:05p (Catalina Ballroom): Bill Wiemuth;** Lecturer

**Exhibits Open All Day, 8:00a-3:00p (Pacific Ballroom)**

**Pre-Conference Workshop I: Construction Site Stormwater Quality (Emerald Bay)**

<u>Time</u>	<u>Topic/ Speaker(s)</u>
8:30a– 8:35a	Welcome Remarks- Scott Taylor
8:35a– 8:55a	I. Overview of the New Construction Permit- Scott Taylor, RBF
9:00a– 10:30a	II. Erosion Control- Dr. Harlow Landphair Discuss design, construction, operation & maintenance performance and cost for each of the following: A. RECPs B. Spray-on products C. Mulches D. Seeding/vegetation
10:30a– 10:45a	BREAK
10:45a– 12:00p	Erosion Control Cont'd...
12:00p– 1:00p	LUNCH
1:00p– 2:45p	III. Design of Advanced Treatment Systems- Robert Wright, WA State Dept. Ecology and Matt Hromatka, Clear Water Compliance Services A. Chemically Enhanced Sedimentation/Filtration 1. Overview 2. Design 3. Operation/Maintenance 4. Cost 5. Performance
2:45p– 3:00p	BREAK
3:00p– 3:45p	IV. Stormwater Sampling and the New Permit– Brian Laurenson, LWA A. Requirements B. Procedures/protocols C. Data interpretation D. Reporting
3:45p– 4:00p	V. Session Closing– Scott Taylor, RBF A. Topics for 2008 Conference B. CASQA Training Program

**Pre-Conference Workshop II: Improving Water Quality Through Community Design & Low Impact Development (Laguna Beach)**

<u>Time</u>	<u>Topic/ Speaker(s)</u>
8:30a– 8:40a	Welcome Remarks– Richard Watson, Richard Watson & Associates
8:40a– 9:30a	I. Thoughts on the Economics of Low Impact Development- Gary Wolff, State Water Resources Control Board
9:30a– 10:15a	II. The Landscape Has Changed– Innovative Approaches to Low Impact Development– Lisa Nisenson, Nisenson Consulting
10:15a– 10:30a	BREAK
10:30a– 11:15a	III. Integrating LID into Stormwater Quality Design Standards: A Collaborative Regional Approach– Dalia Fadl, County of Sacramento & Shannon Brown, ECORP Consulting
11:15a– 12:00p	IV. Emeryville–Blue and Green Design– Peter Schultze-Allen, City of Emeryville
12:00p– 1:15p	LUNCH

cont'd on next page...

1:15p– 2:00p	V. Low Impact Development for Compliance with NPDES Treatment and Hydrograph Modification Management Requirements in Contra Costa County- Tom Dalziel, Contra Costa Clean Water Program & Dan Cloak, Dan Cloak Environmental Consulting
2:00p– 2:45p	VI. Low Impact Development Retro-fitting Challenges in Urban Landscapes in Southern California– Drew Kleis, City of San Diego & David Pohl, Weston Solutions
2:45p– 3:00p	BREAK
3:00p– 3:50p	VII. Key Challenges to Implementing Low Impact Development– Panel Discussion/Q & A, Moderator: Neil Weinstein, Low Impact Development Center
3:50p– 4:00p	VIII. Topics for 2008 Conference/Closing Remarks– Richard Watson

**Pre-Conference Workshop III: Bacteria from A - Z (Newport Beach)**

<u>Time</u>	<u>Topic/ Speaker(s)</u>
8:30a– 9:15a	I. Introduction and Indicator Bacteria and Ecology (Why Are We Here?... and What Are Bacteria?) • Dustin Bambic, AMEC Earth and Environmental
9:15a– 10:30a	II. Water Quality Standards (Why Do I Care About Bacteria?) • California Bacteria Standards– Shakoora Azimi-Gaylon, SWRCB • Epidemiological Studies– Steve Weisberg (SCCWRP)
10:30a– 10:45a	BREAK
10:50a– 12:10p	III. Complying With Standards (Now That I Care, What Has To Be Done?) • Regulatory Perspective (approaches to TMDLs)- Renee DeShazo, LA RWQCB • Regulated Perspective (Wet Weather Conundrum)- Larry McKenney, RBF Consulting • Environmental Perspective (Protecting Human Health)- Mark Gold, Heal the Bay
12:10p– 1:00p	LUNCH
1:10p– 1:45p	IV. Changing the Standards (What If Caring Doesn't Seem Appropriate?) • Use Attainability Analyses– Dan Bounds, CDM
1:50p– 2:30p	V. Source Identification (Where Are They Coming From?) • Review of Microbial Source Tracking Methods– Paul Rochelle, MWD
2:30p– 2:45p	BREAK
2:50p– 3:45p	VI. BMPs (How Do I Get Rid of Them?) • Overview of Bacteria Control BMPs & Their Effectiveness– John Dorsey, Loyola Marymount University
3:50p– 4:45p	VII. Expert Panel (What Does It All Mean To Me, Specifically?) Steve Weisberg (SCCWRP) Shakoora Azimi-Gaylon (SWRCB) Renee DeShazo (LA RWQCB) Larry McKenney (RBF Consulting) Mark Gold (Heal the Bay) Dan Bounds (CDM) Paul Rochelle (MWD) John Dorsey (Loyola Marymount University)

**TUESDAY, SEPTEMBER 11TH — CONFERENCE AGENDA**

**8:30a- Welcome Remarks & Keynote Speaker** – Terry Tamminen; Author, lecturer, strategist.

TUES	Track A (ASBS – Policy)	Track B (In Stream Uses – Planning)	Track C (Bacteria – Research)	Track D (Assessment)
<b>9:40</b> <b>10:10</b>	A New Tool for Assessing Impacts to Areas of Special Biological Significance Bryn Evans - Weston Solutions, Inc	BMPs within Streams and Wetlands Jeremy Haas - RWQCB - San Diego	Quo Vadis Source Tracking? Towards Unifying Framework for Environmental Monitoring of Fecal Pollution Stefan Wuertz - UC Davis	CASQA – Municipal Program Effectiveness Guidance Daniel Rourke – Fresno Metro Flood Control District
<b>Break</b>	Track A (ASBS – Policy)	Track B (In Stream Uses – Planning)	Track C (Bacteria – Research)	Track D (Assessment)
<b>10:30</b> <b>11:00</b>	Case Study of the Possible Financial Impacts of Regulating Discharges into Areas of Special Biological Significance Nathan Schaefer - MACTEC, Eng.	Developing Storm Water Management Policy Using a Natural System Approach Timothy Lawrence - UC Davis	Advanced Bioretention System, Discussion of the Benefits, Mechanisms and Efficiencies for Bacteria Removal Mindy Ruby - Filterra	The Answer Sheet to an MS4 Audit: How to use EPA's MS4 Evaluation Guidance John Tinger - EPA Region 9
<b>11:10</b> <b>11:50</b>	Caltrans' Stream Sampling Efforts in Northern California Joshi Bhaskar - Caltrans	Advanced Recreational Use Survey Techniques: Unprecedented Levels of Data, Fraction of the Cost Dan Bounds - CDM	Bacteria Source Assessment and Identification Along the Los Angeles River using a Multi-tiered Approach Dustin Bambic - AMEC	Assessing Program Effectiveness Using a Sediment Quality Triad Approach Chris Sommers - EOA
<b>Lunch</b>	Track A (BMPs – Research)	Track B (LID – Implementation)	Track C (TMDL – Planning)	Track D (Assessment)
<b>1:30</b> <b>2:00</b>	Stormwater Quality Benefits of a Permeable Friction Course Michael Barrett - University of Texas, Austin	Dynamically Modeling the Performance of Best Management Practices Drew Ackerman - SCCWRP	LA River Bacteria TMDL Development – The Stakeholder Process Catherine Tyrrell - Pso-mas	WERF: Tools to Link BMP Systems Performance to Receiving Water Protection Jeff Moeller - WERF
<b>2:10</b> <b>2:40</b>	The Los Angeles Unified School District Stormwater Program Ken Susillo, Geosyntec Consultants & LAUSD	Enhanced Low Impact Development Designs for Stormwater Treatment Dan Cloak – Dan Cloak Env. Consulting	A Desktop Evaluation of Effectiveness of Alternative Methods to Control Discharges of Heavy Metals and PCBs to San Francisco Bay Peter Mangarella - Geosyntec	Linking Stormwater BMP Systems Performance to Receiving Water Protection to Improve BMP Selection and Design Christine Pomerooy - Colorado State
<b>2:50</b> <b>3:20</b>	Evaluation of High Performance Turf Reinforcement Mats in Field Applications Felicia Federico - Geosyntec	Lowest Impact Development Valikko Allen - CONTECH Stormwater Solutions, Inc.	Caltrans Compliance Measures: Ballona Creek Trash TMDL Daniel Apt - RBF Consulting	Monitoring the Effectiveness of Stormwater BMPs Nora Reyes - City of Oxnard
<b>Break</b>	Track A (BMPs – Research)	Track B (LID – Planning)	Track C (TMDL – Planning)	Track D (Hydromod – Planning)
<b>3:40</b> <b>4:10</b>	Runoff Relative to Proportional Length of Slope Toe Treatments Misty Scharif - CSU Sacramento	An Integrated Water Resources Approach to Stormwater Management for a Master Planned Community: Strategies, Benefits, & Key Findings from a Large Southern California Project Ken Susillo - Geosyntec	Use of Low Impact Development Techniques in an Urbanized Watershed to Meet an Integrated TMDL and Watershed Strategy in So. Cal. David Pohl - Weston Solutions, Inc.	Update on the Application of the Hydromodification Erosion Potential Methodology Gary Palhegyi - Geosyntec
<b>4:20</b> <b>4:50</b>	Pilot Study of Various Styles of Trash Capture Systems for Storm Water Runoff John Hunter - John L. Hunter and Associates	The Case for Flow Duration Modeling Fred MacGregor - Pacific Water Resources, Inc.	Implementation Strategies and Activity Prioritization Tools for TMDLs, Watershed Programs – Balancing Compliance Schedules with Available Resources and Data David Pohl - Weston Solutions, Inc.	Hydro-mod and Habitat Restoration Case Studies Dan Medina - CH2M HILL
<b>5:00</b> <b>5:30</b>	Trash in Urban Creeks - Sources, Pathways and Control Measures John Fusco - EOA	Using Benefit-Cost Analyses To Assess Low-Impact Development Ed MacMullan - EcoNorth-west	A Novel Passive Sampling Textile for Monitoring Organic Pollutants in the Aquatic Environment Jammie Aderhold, Pohl - Weston Solutions, Inc.	Applying the Hydromodification Methodology to Natural Channel Design Procedures in Southern California Gary Palhegyi - Geosyntec

**5:30p– 7:00p- Exhibitor Sponsored Reception** – to immediately follow the last track session. Appetizers and beverages provided. (Inside expo hall)

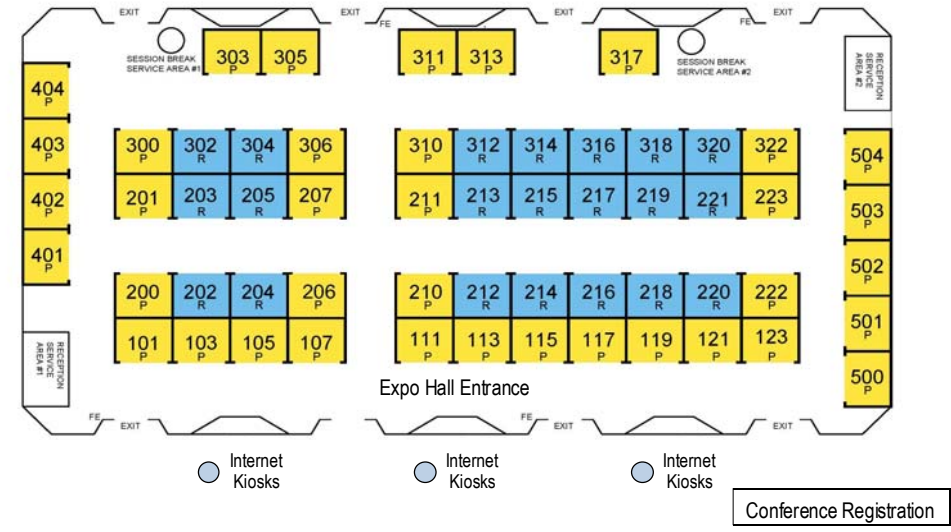


**WEDNESDAY, SEPTEMBER 12TH — CONFERENCE AGENDA**

Wed	Track A (Watershed – Planning)	Track B (Planning – BMP Design)	Track C (Multiple Use BMPs)	Track D (Pesticide – Policy)
8:30 9:00	City of Santa Monica Airport Watershed Management Plan <u>Catherine Lyrell - Psomas</u>	Precise Flow Calculation Method Using CASQA Basin Sizer Principles <u>Saad Merayan - CSU Sacramento</u> <u>Brian Currier - CSU Sacramento</u>	Residential Manmade Lake Communities Designed for Storm Water Treatment <u>Bruce Phillips - Pacific Advanced Civil Engineering</u>	Pesticides, Stormwater and the Regulatory Merry-Go-Round <u>Armand Ruby - Armand Ruby Consulting</u>
9:10 9:40	Recent Progress in the Development of a Large-Volume Selenium Treatment Process for an Urban Environment in Southern California <u>Robert Borch - Geosyntec</u>	A Web-Based Tool for Design of Stormwater Treatment Best Management Practices <u>Jeff Endicott - AEI-CASC Eng. Jill Bicknell - EOA</u>	Beyond Pollutants: Implementing Multi-Objective BMPs that Benefit the Community <u>Martina Keefe - Tetra Tech, Inc.</u>	Pesticide Compliance Strategies for Stormwater Programs: Opportunities for Statewide Cooperation <u>Dave Tamayo - County of Sacramento</u>
9:50 10:20	The Nitrogen and Selenium Management Program for the Newport Bay Watershed: An Alternative Compliance Approach to Waste Discharge Requirements <u>Karen Ashby - LWA</u>	Defining the 85th Percentile Storm - Rain Gage Analysis: <u>Richard Halmann - Montgomery Watson</u>	Multi-Benefit Stormwater Concept Implementation: <u>Malibu's Legacy Park Ken Susilo - Geosyntec</u>	EcoWise Certified – Recognition and Rewards for Professional IPM Practitioners <u>Ted Shapans - EcoWise Certified</u>
Break	Track A (Watershed – Planning)	Track B (Research – SW Pollutants)	Track C (Phase II – Planning)	Track D (Pesticide – Research)
10:40 11:10	Integrating Ambient and Targeted Compliance Monitoring for Comprehensive Watershed Assessment <u>Eric Stein - SCCWRP</u>	The Contribution of Brake Pad Emissions in the San Francisco Bay Watershed to Copper in Runoff to the Bay <u>Kristen Sinclair Rosselot - Process Profiles</u>	Non-Traditional Small MS4 Designees and the Phase II permit "How to Have the Perfect Marriage" <u>Kenya Streeter - AEI-CASC Consulting</u>	Shifting Pesticide Use - The Decline of Diazinon, The Emergence of Synthetic Pyrethroids, and Changes in Observed Toxicity in Storm Water Runoff <u>David Renfrew - Weston Solutions, Inc.</u>
11:20 11:50	The Upper Laguna Creek Collaborative: A Novel Approach to Protecting Water Quality & Habitat in a Rapidly Urbanizing Watershed <u>Carmel Brown and Kerry Schmitz</u>	Aerial Deposition of Trace Metal Within the City of San Diego <u>David Renfrew - Weston Solutions, Inc.</u>	Storm Water Management Plan for A Non-Traditional MS4 <u>Daniel Apt - RBF Consulting</u>	Toxicity Identification Evaluations (TIEs) Indicate Pyrethroids as the Causative Agents of Toxicity in Stormwater Samples from Chollas Creek, San Diego, California <u>Wendy Rose - Weston Solutions, Inc.</u>
Lunch	Track A (Implementation)	Track B (Research – SW Pollutants)	Track C (Implementation)	Track D (BMPs – Selection)
1:15 1:45	Relating Imperviousness and Land Use in Southern California <u>Drew Ackerman - SCCWRP</u>	Development of an Online CASQA Stormwater Research Database <u>Daniel Pankani - Geosyntec</u>	Further Assessment of the Impacts of Storm Water Infiltration – Findings of the Los Angeles Basin Water Augmentation Study <u>Suzanne Dallman - Los Angeles &amp; San Gabriel Rivers Watershed Council</u>	The SBPAT (Structural BMP Planning and Analysis Tool): Taking the Los Angeles County-Wide Structural BMP Prioritization Methodology to the Next Level <u>Ken Susilo - Geosyntec</u>
1:55 2:25	Taking the County by Storm: An Innovative Approach to the On-going development of Sacramento's Industrial Stormwater Inspection Program <u>John Lewis - Co. of Sacramento</u>	Evaluation of a Continuous Flow-through Technique for Analysis of Particle Size Distribution <u>Jeff Brown - SCCWRP</u>	Impacts to Surfacewater from Golf Courses in the San Francisco Bay Area <u>Mike Blankinship - Blankinship and Associates</u>	Seattle's Public Utilities - Asset Management Approach to BMP Selection for Capital Improvement Projects <u>Shelley Basketfield - Seattle Public Utilities</u>
2:35 3:05	Stormwater Compliance – Dewatering Practices <u>Hazem Gabr - So. Cal. Edison</u>	Impact of Stormwater on Estuaries of Southern California <u>Ken Schiff - SCCWRP</u>	Perovious Concrete as an Infiltration BMP <u>Andy Youngs - California Nevada Cement Association</u>	Will These Things Work? Standardized Criteria for Evaluating BMPs <u>Jeremiah Lehman - CONTECH Stormwater Solutions</u>
3:15 3:45	Stormwater Applications for Lift Stations <u>David Ehret - Romtec Utilities</u>	Sources and Patterns of Storm Water Pollutant Loading from Homogenous Land Use Types <u>Eric Stein - SCCWRP</u>	Stormwater Agencies Must Support "Extended Producer Responsibility" <u>Julie Weiss - City of Palo Alto</u>	GIS: A Tool for Decision Makers in Local Stormwater Revenue Bidding and Surveys <u>Thomas Brightbill - SCI Consulting</u>

**2007 CONFERENCE LAYOUT**

Pacific Ballroom— Banquet Level 2



**2007 CONFERENCE EXHIBITORS:**

Booth	Exhibitor	Booth	Exhibitor
207	AEI-CASC Consulting	123	Orange County Stormwater Program
107	BaySaver Technologies, Inc.	220	Orange County Vector Control District
317	Best Management Products, Inc.	117	Pacific Advanced Civil Engineers
300	Bio Clean Environmental Services	103	RBF
318	Brown and Caldwell	201	Reed & Graham, Inc.
200	CalCIMA	221	Revel Environmental Manufacturing, Inc.
313	Camp Dresser & McKee, Inc.	222	Rinker Materials
203	Clear Water Compliance Services	111	Roscoe Moss Company
113	Clearwater Solutions, Inc.	212	Safe Spray
206	CONTECH Stormwater Solutions	213	SCI Consulting Group
204	CPESC, Inc.	310	Shamrock Supply Company
402	Crystal Stream Technologies	217	Storm Trap
121	Earth Resource Foundation	210	Stormwater Magazine
115	Filterra	211	Teledyne Isco
304	Fresh Creek Technologies	214	Terra Novo
401	Geosyntec Consultants	320	The Water Boards
303/305	Invisible Structures, Inc.	314	Titus Industrial Group, Inc.
302	J2A Environmental	504	TRC
205	Jensen Precast	202	Triumph Geo-Synthetics, Inc.
105	KriStar Enterprises	306	URS Corporation
101	MACTEC Engineering and Consulting	500	Vali Cooper & Associates, Inc.
322	Modular Wetlands	311	Wastewater Diversion Systems, Inc.
216	Office of Water Programs, Sacramento State University	215	Weston Solutions
312	Orange County Coastkeeper	316	Windows-On-Our-Waters

