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

Conference Program

The CASQA 2006 Conference offers a full program of training workshops, presentations and exhibits for holders of municipal, industrial and construction NPDES stormwater permits. Attendees will gain a better understanding of stormwater technologies, regulations, programs, and community impacts.

Stemwater
Treatment,
Operations,
Research, and
Management

**A SPECIAL THANK YOU TO THE FOLLOWING CASQA SUBCOMMITTEE
MEMBERS WHO PLANNED THIS YEARS CONFERENCE:**

Kevin McGillicuddy
Conference Chair

Bill Busath
Accommodations Coordinator

Jeff Endicott
Awards Coordinator

Karen Ashby
Exhibitor/Sponsor Coordinator

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Program Coordinator
Pre-conference Workshop I Coordinator

Chris Crompton
Promotions Coordinator

Scott Taylor
Pre-conference Workshop II Coordinator

Richard Watson
Pre-conference Workshop III Coordinator

Geoff Brosseau
CASQA Executive Director

Steve Stump
Conference Treasurer

We hope to see you next year for the 3rd Annual CASQA Conference!
Go to www.casqa.org for 2007 Conference details soon.



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**CASQA 2ND ANNUAL CONFERENCE
- CONFERENCE OVERVIEW -**

MONDAY, SEPTEMBER 25, 2006 - 8:30 AM – 4:30 PM

Pre-Conference Workshop I: Municipal Stormwater Program Effectiveness – New Tools for Assessing Progress This workshop will be based on the upcoming CASQA Program Effectiveness Guidance Document and will provide tools for assessing stormwater programs with respect to achieving both programmatic goals (i.e., raising awareness, changing behavior) and environmental goals (i.e., reducing pollutant discharges, improving environmental conditions). It is intended for stormwater program managers, consultants supporting stormwater programs and stormwater regulatory agencies. (see detailed schedule next page)

Pre-Conference Workshop II: Engineering of BMPs – Getting Down to the Details New development and redevelopment projects require the systematic planning and implementation of site design, source control and treatment control BMPs. Many critical water quality technical decisions are made at the earliest stages of drainage system design. This workshop is intended for engineers and developers and will provide the latest scientific and engineering tools for assessing site conditions and applying an appropriate suite of BMPs. (see detailed schedule next page)

Pre-Conference Workshop III: Planning for Improvements in Water Quality – What Planners Can Do Planners are in the front line in shaping and implementing community vision, which increasingly includes integrating water quality considerations into general plan, CEQA and site planning documents. This workshop is intended for municipal planners, planning consultants and developers and will provide tools for assessing water quality in planning documents and implementing BMP requirements into new development and redevelopment. (see detailed schedule on page 3)

TUESDAY, SEPTEMBER 26, 2006 - 8:30 AM – 5:30 PM

Opening Keynote: Pamela Creedon, Executive Officer, Central Valley Regional Water Quality Control Board.

All day, multi-track presentations: covering the themes of Stormwater Treatment, Operations, Research, and Management (STORM) (see Tuesday's program agenda on page 4 for details).

Awards Luncheon: CASQA awards ceremony to honor outstanding contributions to stormwater quality management.

Exhibits: Open all day- **Exhibitor Sponsored Reception from 5:30 pm – 7:00 pm.**

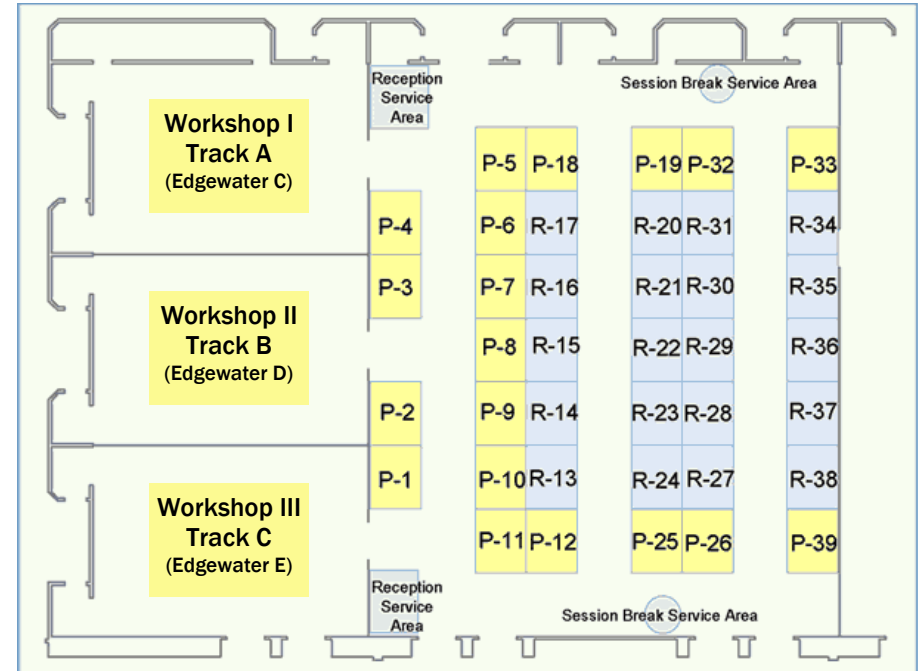
WEDNESDAY, SEPTEMBER 27, 2006 - 8:30 AM – 3:15 PM

All day, multi-track presentations: covering the themes of Stormwater Treatment, Operations, Research, and Management (STORM) (see Wednesday's program agenda on page 5 for details).

Luncheon & Keynote Speaker: Damon Diessner, Assistant Director, Utilities Department, City of Bellevue, Washington.

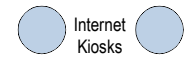
Exhibits: Open 8:00 am-3:00 pm.

**CASQA CONFERENCE
LAYOUT**



**Track D
(Conference Plaza,
Suite #302)**

Conference Registration



Internet Kiosks

Exhibit Hall Hours:
Tuesday 8:00am-5:00pm
Wednesday 8:00am-3:00pm

2006 CASQA CONFERENCE EXHIBITORS:

Space #	Company Name	Space #	Company Name
P-1	Roscoe Moss Company	P-18	CrystalStream Technologies
P-2	Brown and Caldwell	P-19	Fresh Creek Technologies, Inc.
P-3/ P-4	Attitude Technology, Inc.	R-20	Pavestone Company
P-5	CDM	R-21	California Water Boards
P-6	Sacramento Stormwater Quality Partnership	R-22	Safe Spray
P-7	CDS Technologies, Inc.	R-23	Reed & Graham Geosynthetics
P-8	Filterra	R-24	RBF
P-9	KriStar Enterprises, Inc.	P-25	AEI-CASC Consulting
P-10	CONTECH Stormwater Solutions	P-26	Revel Environmental Manufacturing, Inc.
P-11	Bio Clean Environmental Services	R-27	BaySaver Technologies, Inc.
P-12	MACTEC Engineering & Consulting	R-28	Jensen Precast
R-13	Clearwater Solutions, Inc.	R-29	Rinker Materials/Stormceptor
R-14	Paradigm Engineering, Ltd.	R-30	Rain for Rent
R-15	SCI Consulting Group	P-32	CULTEC, Inc.
R-16	Concrete Promotion Council of Northern CA	P-33	GeoSyntec Consultants
R-17	URS Corporation	R-38	Earth Saver Erosion Control Products
		P-39	StormTrap

WEDNESDAY, SEPTEMBER 27TH — CONFERENCE AGENDA

	Track A (Management) (Edgewater C) Environmental/Social Marketing 101 - Changing Behaviors to Protect Water Quality Deborah Castillo, City of San Diego Michele Stress, County of San Diego	Track B (Research) (Edgewater D) Analysis of Compost Treatment to Establish Native Shrubs and Improve Water Quality Brent Hallock, Cal Poly	Track C (Operations) (Edgewater E) Development of Sacramento County's Commercial/Industrial Stormwater Compliance Inspection Program - What We've Learned So Far! John Lewis, County of Sacramento	Track D (Treatment) (Conf. Plaza #302) Updates to Basin Sizer: Calculating Water Quality Flows using California Stormwater Quality Association Methodology Scott Meyer, CSU-Sacramento
8:30 9:05	The Power of People: Supporting Watershed Stewardship Wendy Shapiro, The Watershed Project	A Strategy for Minimizing Herbicides in Stormwater Runoff Thomas Young, UC Davis	Sacramento County's Commercial/Industrial Stormwater Compliance Inspection Program - The Nuts and Bolts of Our Field Inspections! Ken Ballard, County of Sacramento	Moonlight Beach Ultraviolet Treatment Facility- Effectiveness Treatment Katherine Weldon and Paul Hartman, City of Encinitas
9:15 9:50	Track A (Management) No Need to Re-invent the Wheel: An overview of the City of Stockton's Stormwater Outreach Program Susan Mora-Loyko, City of Stockton	Track B (Research) Is Stormwater Impairing Steelhead? Assessing Sediment Impacts on Aquatic Life Uses in Two Northern California Creeks Paul Randall, EOA	Track C (Operations) Sweep Before You "Treat" Roger Sutherland, Pacific Water Resources	Track D (Treatment) Risk-based Recreational Water Assessment Gretel Roberts, Pacifica Consulting
Break	Your Stormwater Toolbox for Public Outreach. An overview of the State's Erase the Waste Campaign and all that CASQA has to offer Phase 2 programs Stephanie Reyna, City of Tracy Tom Mays, California State Water Resources Control Board	Critical Assessment of Stormwater Treatment and Control Selection Issues-Implications and Recommendations for Design Standards Eric Strecker, GeoSyntec Consultants	Stormwater Management at Sea World: A Model of Compliance in America's Finest City Nancy Gardiner and Lisa Skutecki, Brown and Caldwell	Advanced Bioretention System, Discussion of the Benefits, Mechanisms and Efficiencies Larry Coffman, Americast
10:10 10:50	Luncheon & Keynote Speaker: Damon Diessner, Assistant Director, Utilities Department, City of Bellevue, Washington (Room: Edgewater A)	Urban Retrofit Nutrient and Selenium Best Management Practice Evaluation - Warner Channel Evaluation Eric Strecker, GeoSyntec Consultants	Stormwater Demonstration Sites in the San Francisco Watershed - Retrofits for Existing Properties Katie Plat, San Francisco Water Creek Watershed Council	A Review of Treatment Control Technologies Used to Reduce Microorganisms in Stormwater Chris Sommers, EOA
11:40 – 12:45	Quantitative Microbial Source Tracking Using Bacteroides and Human Virus Monitoring in Calleguas Creek Watershed Stefan Wuertz, UC Davis	Meeting Copper TMDL Targets – Is It Possible? Kristine Cornelle, LWA	Evaluation of Simulated BMPs in An Urbanized Southern California Watershed Drew Ackerman, SCCWRP	Critical Factors in the Design and Performance of Integrated Management Practices for Low Impact Development Roger James, Water Resources Management
1:00 1:30	A New Tool to Quantify Sources of Microbial Contamination and Develop Pathogen Reduction Strategies Stefan Wuertz, UC Davis	Copper Air Deposition - Its Source (Brake Pads) and Real Solutions Kelly Moran, TDC Environmental	Activated Alumina Filters: Turbidity and Nutrient Removal in Full-Scale Pilots at Lake Tahoe Dipen Patel, CSU-Sacramento	Effectiveness Assessment of A Proprietary Media Filter Treatment System at Legion Park Pumping Station in Stockton, California Rachel Terpstra, LWA
1:40 2:10	A System-Wide, Mass Balance Approach to Assessing MS4 Effectiveness Vaikko Allen, Contech Stormwater Solutions			
2:20 3:10				

**MONDAY, SEPTEMBER 25TH
PRE-CONFERENCE WORKSHOP AGENDA'S**

Pre-Conference Workshop I: Municipal Stormwater Program Effectiveness – New Tools for Assessing Progress (Room: Edgewater C)

<u>Time</u>	<u>Speaker(s)</u>	<u>Topic</u>
8:30 – 9:15	Betsy Elzufon, LWA Chris Sommers, EOA, Inc.	Municipal Stormwater Effectiveness White Paper and Guidance Manual.
9:15 – 9:45	Karen Ashby, LWA	The Role of Municipal Stormwater Effectiveness in the CASQA Roadmap
Case examples -		
9:45 – 10:15	Dr. Bob Meadows, Lake Research Partners	Attitude and Behavioral Change in Response to Public Outreach Campaign - Orange County Stormwater Program
10:15 – 10:30	Break	
10:30 – 11:00	Bill Busath, City of Sacramento	Municipal Program Measurement – Training Assessment and Field Audits
11:00 – 11:30	Margaret Zittle, City of Palo Alto	Commercial and Industrial Stormwater Inspections
11:30 – 12:00	Mike Broadwater, Vali Cooper & Associates	Construction Training and Inspection Programs
12:00 – 1:15	Lunch (Room: Edgewater A)	
Case examples -		
1:15 – 1:45	Jon Van Rhyn, San Diego County	Approaches to Assessing Load Reduction from Nonstructural Source Controls
1:45 – 2:15	Brock Bernstein, Consultant	Assessing Changes in Loadings/ Concentrations/Receiving Waters Including Various Statistical Techniques
2:15 – 2:45	Karen Hauptly, Orange County RDMD	Reducing Nitrogen Loads and Algal Biomass: The Newport Bay Experience
2:45 – 3:15	Geoff Brosseau, CASQA	Case Examples and Lessons Learned From True Source Control
3:15 – 3:30	Break	
3:30 – 4:30	Panel and Questions 1) John Tinger, USEPA 2) John Robertus, RWQCB 3) Betsy Elzufon 4) Jon Van Rhyn	Regulatory Perspectives and Panel Discussions

Pre-Conference Workshop II: Engineering of BMPs– Getting Down to the Details (Room: Edgewater D)

<u>Time</u>	<u>Speaker(s)</u>	<u>Topic</u>
8:30 – 8:35	Scott Taylor, RBF	Welcome/Opening Remarks
8:35 – 8:55	Jill Bicknell, SCVURPPP	Regulatory Changes and BMP Design
9:00 – 9:30	Jeff Endicott, AEI-CASC	BMP Selection with a Water Quality Objective
9:35 – 10:30	Tom Richman, Catalyst	Low Impact Development, How to Really Implement It

10:30 – 10:45	Break	
10:45 - 11:40	Eric Strecker, GeoSyntec	Unit Process & Unit Operation BMP Selection & Design
11:40 - 12:00	Scott Myer, CSUS	Basin Sizer– A Tool for Treatment Parameters
12:00 - 1:15	Lunch (Room: Edgewater A)	
1:15 - 2:05	Tom Cahill, Cahill Assoc.	Design of Infiltration BMPs (Including Permeable Pavements)
2:10 - 3:00	Ron Rovanseck, PACE	Use of Water Quality Features for Storm Water Quality Mitigation
3:00 - 3:15	Break	
3:15 - 3:45	Anna Lantin, RBF	Design for Non-Proprietary Filters
3:45 - 4:00	Session Closing	Topics for Future Workshops/CASQA

Pre-Conference Workshop III: Planning for Improvements in Water Quality– What Planners Can Do (Room: Edgewater E)

Time	Speaker(s)	Topic
8:30 – 8:45	Richard Watson, RWA	Welcome/Opening Remarks
8:45 – 9:35	Celeste Cantú, State Water Board	It's Up to You, Planners
9:35 – 10:30	Clark Anderson, Loc. Gov. Comm	Planning for Water Protection–The Ahwahnee Water Principles
10:30 – 10:45	Break	
10:45 – 11:25	Tom Cahill, Cahill Associates	Sustainable Site Design and Infiltration Technologies
11:25 – 12:00	Tom Richman, Catalyst	LEED for Neighborhood Development and Neighborhood Design
12:00 – 1:15	Lunch (Room: Edgewater A)	
1:15 – 1:50	Gerald Greene, City of Downey	Finding Your City's Rosetta Stone
1:50 – 2:30	David Pomaville, FMFCD	Sharing and Cooperating to Improve Water Quality
2:30 – 3:00	Planning Commissioner Panel	Planning Commissioner Perspective
3:00 – 3:15	Break	
3:15 – 3:45	Panel Discussion	What Can Planners Really Do?
3:45 – 4:00	Session Closing	Topics for Future Workshops/CASQA Training Program

TUESDAY, SEPTEMBER 26TH — CONFERENCE AGENDA

8:30am **Opening Keynote: Pamela Creedon**, Executive Officer, Central Valley Regional Water Quality Control Board (Room: Edgewater A)

Times	Track A (Management) (Edgewater C)	Track B (Research) (Edgewater D)	Track C (Research) (Edgewater E)	Track D (Management) (Conf. Plaza #302)
9:40 10:20	Dispelling the Pipe Dream - Why Numerical Limits on Stormwater are Unnecessary, Unwise and Unenforceable in California Jason Booth, Dongell Lawrence Finney Claypool LLP	Targeting the Pollutants: How Stormwater Monitoring and Management Must Change to Meet the MEP Standard Armand Ruby, Armand Ruby Consulting	Feasibility Studies of Chemically-Enhanced Sedimentation to Meet Turbidity and Phosphorus Limits at Lake Tahoe John Johnston, CSU-Sacramento	Project Pollutants and Pollutants of Concern- Knowing the Difference Makes a Difference Jeff Endicott, AEI-CASC Consulting
Break	Track A (Management) The ABCs of ASBS Stewardship Nathan Schaedler, MACTEC Engineering and Consulting	Track B (Research) A Systematic Approach to Evaluating Beneficial Use Condition and Stormwater Impacts on Receiving Waters Chris Sommers, EOA	Track C (Research) Relationship Between Bioassessment (BI) and Measures of Environmental Condition Brock Bernstein, Consultant	Track D (Management) Assessing the Impacts of Stormwater Infiltration: The Los Angeles Basin Water Augmentation Study Suzanne Dallman, Los Angeles & San Gabriel Watershed Council
11:10 11:45	Protection of Areas of Special Biological Significance (ASBS): Will Traditional BMPs Meet Ocean Plan Standards? Anna Lantin, RBF Consulting	The Bay Area Hydrology Model – A Tool for Analyzing Hydromodification Effects of Development Projects and Sizing Solutions Jill Bicknell, EOA	Assessment of Water Quality Loadings from Natural Landscapes Eric Stein Southern California Coastal Water Research Project	Infiltration in the Urban Environment: Successes Earned and Lessons Learned in the City of Downey Gerry Greene, City of Downey
11:45 - 1:15	Awards Luncheon: CASQA awards ceremony to honor outstanding contributions to stormwater quality management (Edgewater A)			
1:30 2:00	Dry Weather Discharge Diversion Feasibility to the Sanitary Sewer in the City of Stockton Gorman Lau, LWA	CASQA Research Priorities and Relevant Stormwater Research Linda Garcia, Riverside County	A Novel Approach to Assessing Municipal Stormwater Impacts in the Context of all Watershed Influences Lucy Buchan, EOA	Establishing Treatment Performance Goals in California: A Proposed Methodology Gary Minton, Resource Planning Associates
2:10 2:40	Reducing Santa Monica's Stormwater Pollution Problem Lawrence Magura, Black and Veatch	Methodology To Estimate Load Reductions for Lake Tahoe Marc Leisenring, GeoSyntec Consultants	A Proactive Approach to Addressing Trash within the San Francisco Bay Area John Fusco, EOA	Los Angeles County-Wide Structural BMP Prioritization Methodology Brandon Steets and Ker Susilo, GeoSyntec Consultants
2:50 3:10	Baloted and Non-Baloted Approaches to Revenue Sources for Stormwater Management John Bliss, SCI Consulting	Ambient Bacterial Indicator Levels and BMPs: Results of Watershed-Scale Monitoring Brock Bernstein, Consultant	Sources of Dissolved and Particle-Bound Contaminants in Highway Stormwater Peter Green, UC Davis	CalSWIM: California Sustainable Wetland/Watershed Information Manager Stanley Grant, UC Irvine
Break	Track A (Management) Understanding and Managing Particulate Associated Pollutants in the Context of the Clean Water Act, Endangered Species Act, and CERCLA Peter Margarella, GeoSyntec Consultants	Track B (Research) Evaluation of Recreational Uses and Bacteria Water Quality Objectives in the Santa Ana River Watershed Dan Bounds, CDM- Chicago	Track C (Research) Comparison of Polymer Coagulation Efficiency for Stormwater Treatment, Including an Evaluation of Streaming Current Detector-Based Monitoring and Control Rebecca Mirsky, Boise State University	Track D (Management) Stormwater Permits: The Next Big Stick in the Spoke of Progress Aiko Osugi, Foley & Lardner Attorneys at Law
3:40 4:20				
4:30 5:30	Designation to Implementation - A Non-Traditional Small MS4's Journey into Stormwater Management Jeff Endicott, AEI-CASC Consulting	Development of a Protocol for Risk Assessment of Separate System Microorganism Chris Sommers, EOA	Calibration Method for a Stormwater Runoff Model Michael K Stenstrom, UCLA	An Approach to Industrial Stormwater Benchmark Sandy Mathews, Lawrence Livermore National Laboratory

5:30pm **Exhibitor Sponsored Reception** to immediately follow the last Track session. Come enjoy beverages and hors d'oeuvres with your colleagues! (Inside Expo Hall)