



*Greetings and thank you for participating in CASQA's inaugural conference and exposition, featuring presentations and trainings covering the full gamut of the conference theme – Stormwater, Treatment, Operations, Research, and Management.*

The California Stormwater Quality Association is unique among associations in two important ways:

CASQA is the only statewide association in the country dedicated to the advancement of stormwater quality management, science, and regulation.

CASQA is an association of multiple interest groups – including government, science, industry, development, and construction – all with the common goal of advancing the stormwater quality profession.

As a result of these unique qualities, CASQA has been the “place” for stormwater quality information in California since it was founded in 1989 as the Stormwater Quality Task Force. Back then, the State looked to us for help in designing and implementing the new stormwater regulations recently mandated by Congress in the 1987 Clean Water Act amendments. Through the administrative procedures of the State Water Resources Control Board, the Stormwater Quality Task Force was formally commissioned as the principal advisor to the State on stormwater quality program issues.

Starting in the 1990s and continuing into the 2000s, local governments, businesses, and other organizations learned about stormwater quality management – designing, funding, implementing, and evaluating their stormwater quality programs along the way. And the “Task Force” meetings on the second Friday of a month were the place to be for stormwater professionals in California. During the ensuing years, the Task Force evolved into a more formal organization – the California Stormwater Quality Association. And it worked hard to increase the network of professionals it created and to receive and make more information available to more people, more easily. The location of the general meetings was switched from Sacramento to rotating between northern and southern California, and their frequency was reduced first to every-other-month and then to the current once-a-quarter frequency so subcommittees and ad hoc work groups could spend more time on the details of managing stormwater quality. That evolution brings us to this time and this place for CASQA's first comprehensive stormwater quality conference. We hope you enjoy the diverse agenda and that the information exchange is valuable to you and your work.

Again, thanks for being part of CASQA's inaugural conference!



Executive Director

# CASQA Conference 2005

## Pre-Conference Workshop 1

Monday

8:30 AM – 4:00 PM

Lake Silverwood Room

### **Managing Runoff to Protect Natural Streams – The Latest Developments on Investigation and Management of Hydromodification**

Special Technical Workshop Co-sponsored by CASQA, Stormwater Monitoring Coalition and USC Sea Grant

The process of urbanization has the potential to affect stream courses by altering watershed hydrology. The result is that as a watershed develops, a larger percentage of rainfall becomes runoff during any given storm. In addition, runoff reaches the stream channel much more efficiently, so that the peak discharge rates for floods are higher for an equivalent rainfall than they were prior to development. This process has been termed hydromodification

Hydromodification results in adverse effects to stream habitat and water supply, and stream erosion can threaten infrastructure, homes and businesses. In response to these effects state and local agencies are developing standards and management approaches to control and /or mitigate the effects of hydromodification on natural and semi-natural stream courses.

This technical workshop will provide an overview of the key technical and management issues associated with hydromodification. The results of three studies recently completed in California (two in southern California, one in northern California) will be summarized and state and local agency representatives will discuss how they are addressing hydromodification issues. Speakers will include national and local experts, regulators, and managers. The session will conclude with a panel discussion on key technical issues, management needs, and future directions of hydromodification research and management tool development.

Hydromodification is one of the most critical emerging issues in stormwater regulation and management. If you are involved with regulation, management, modeling, or analysis of stream flow and stormwater issues, you will benefit from this session. It is especially relevant for planners, engineers, and developers involved in development/redevelopment.

# CASQA Conference 2005

## HYDROMODIFICATION WORKSHOP AGENDA

Lake Silverwood Room

8:30 A.M. – 8:40 A.M.

### **Welcome and Opening Remarks**

Chris Crompton  
*SMC Chair*

8:40 A.M. – 9:15 A.M.

### **Introduction to Hydromodification**

Jeff Haltiner  
*Philip Williams and Associates*

9:15 A.M. – 10:15 A.M.

### **Why is Hydromodification such a big deal?** (Mini-panel discussion)

#### **Policy Perspective**

Susan Cloke  
*Los Angeles Regional Water Quality Control Board*

#### **Regulatory Perspective**

John Robertus  
*San Diego Regional Water Quality Control Board*

#### **Homebuilders Perspective**

Marolyn Parson  
*National Association of Home Builders*

#### **Natural Resource Perspective**

Shelley Luce  
*Santa Monica Bay Restoration Commission*

10:15 A.M. – 10:30 A.M.

## **BREAK**

10:30 A.M. – 12:30 P.M.

### **Hydromodification Research and Studies**

#### **Risk-Based Channel Stability Analysis for Urbanizing Watersheds**

Brian Bledsoe  
*Colorado State University*

#### **Changes in Streamflow Patterns from Urbanization - A Humid-Region Perspective**

Derek Booth  
*Univ. of Washington*

#### **Modeling Urbanization Impacts and Channel Stability in Ventura County**

Tony Donigian  
*Aqua Terra*

### **Southern California Peak Flow Study Results and Conclusions**

Craig MacRae  
*Aquafor Beech*

### **Santa Clara Valley HMP Studies**

Gary Palhegyi  
*GeoSyntec*

12:30 P.M. – 1:30 P.M.

## **LUNCH BREAK**

Buffet, Dining in the Vinyard Room

1:30 P.M. – 2:15 P.M.

### **Regulatory Response to Hydromodification Northern California perspectives**

Larry Kolb  
*San Francisco Regional Water Board*

### **Southern California Perspectives**

Xavier Swamikannu,  
*LA Regional Water Board*

2:15 P.M. – 3:30 P.M.

### **Implementation of Hydromodification Management Practices**

Dan Cloak  
*Contra Costa County*

### **Santa Clara Valley**

Jill Bicknell,  
*Santa Clara Valley Urban Runoff Program*

### **Newhall Land and Farming**

Mark Sobotin  
*Newhall Land and Farming*

### **Control of Hydromod Through Land Planning**

Laura Eisenberg  
*Rancho Mission Viejo*

3:30 P.M. – 4:30 P.M.

### **Panel discussion on Implementation Issues Facilitated by: Chris Crompton**

Matt Yeager  
*San Bernardino Co. Flood Control District*

Rene DeShazo  
*Los Angeles Regional Water Quality Control Board*

Mark Abrahamson  
*Heal the Bay*

Marolyn Parson  
*National Association of Home Builders*

Jeff Haltiner  
*Philip Williams and Associates*

Jill Bicknell  
*Santa Clara Valley Urban Runoff Program*

## Pre-Conference Workshop 2

Monday 8:30 AM – 4:00 PM

### Lake Gregory Room NPDES Inspection Training



California  
Water  
Environment  
Association

A full day of NPDES inspection training will be provided by CASQA member trainers and guest California Water Environment Association (CWEA) trainers who are

experts in the topics of construction, industrial, and commercial NPDES inspections. Training is designed to educate municipal staff upon the elements of inspection, documentation, record keeping, and proper and improper implementation of stormwater Best Management Practices (BMP). An overview of recent inspection findings in California will be provided.

*Moderator:*

Daniel Rourke

*Fresno Metropolitan Flood Control District*

8:30 AM – 10:00 AM

#### Industrial / Commercial Facility Inspection Training – Part 1

*CWEA Trainers:*

Steve Aguiar

*City of Livermore*

*and*

Daryl Hartwill

*City of Riverside*

Pre-Inspection Preparation

SWPPP Review

Inspection Training Video

## Morning Break

10:00 AM – 10:15 AM

10:15 AM – 11:25 AM

#### Industrial / Commercial Facility Inspection Training – Part 2

*CWEA Trainers:*

Steve Aguiar

*City of Livermore*

*and*

Daryl Hartwill

*City of Riverside*

Site Inspection

Sampling Procedures

Inspection Documentation

Enforcement Procedures and Referral

11:25 AM - 12:00 PM

#### Overview of California Industrial Inspection Findings

John Kosco, P.E. CPESC

*Principal Engineer*

*Tetra Tech*

## Lunch

12:00 PM - 1:00 PM

Buffet, Dining in the Vineyard Room

1:00 PM – 2:30 PM

#### Construction Site Inspection Training – Part 1

*Trainers:*

Melinda McCoy, R.G.

*CDM*

Luis Leon, P.E.

*CDM*

Pre-inspection Preparation

SWPPP Review

Inspection Training Video

## Afternoon Break

2:30 PM – 2:45 PM

2:45 PM – 3:25 PM

#### Construction Site Inspection Training – Part 2

*Trainers:*

Melinda McCoy, R.G.

*CDM*

Luis Leon, P.E.

*CDM*

Site Inspection

Inspection Documentation

Enforcement Procedures and Referral

3:25 PM - 4:00 PM

#### Overview of California Construction Inspection Findings

John Tinger

*USEPA Region 9*

## TUESDAY October 4, 2005

7:30 AM: Open Registration

8:00 AM: Exhibit Opening

8:30 AM – 9:30 AM

### Conference Opening Vineyard Room

*Welcoming:*

Karen Ashby

*Chair, and CASQA Board of Directors*

#### Opening Remarks and Introductions

#### Keynote Address: Mistakes of the Past, Promises of the Future

Doug Harrison

*Founding CASQA Chair*

Mr. Harrison has been recognized by the American Public Works Association with its "Top Ten Public Works Leaders of the Year Award", the "Excellence in Water Leadership Award" by the Association of California Water Agencies, with a recognition of appreciation by the State Water Resources Control Board, with the "General Manager of the Year Award" of the California Special Districts Association, and was awarded the first "Leadership Award" of the California Storm Quality Association

*\*\* Note: Within time sessions (1-10), presentations run in parallel organized along these four tracks: Stormwater – Treatment Track; Operations Track; Research Track; and Management Track \*\**

9:30 AM – 10:30 AM

## Session 1

### Strawberry Peak Room Treatment Track

#### **Stormwater Chemical Dosing System Development**

Jeff Lawrence  
*URS*

#### **The Caltrans Route 73 BMP Pilot Study**

Gary Friedman  
*Metcalf & Eddy*

### Lake Silverwood Room Operations Track

#### **Riverside County's IC/ID Program**

Linda C. Garcia  
*Riverside County Flood Control*

#### **Mobile Pressure Washers, Complying with Stormwater BMPs**

Regan S. Bailey  
*Wastewater Resources Analyst*

Nicole Green

*Environmental Compliance Inspector II  
City of Riverside*

### Big Bear Room Research Track

#### **Life After Diazinon – What's New for Urban Creeks**

Armand Ruby  
*Armand Ruby Consulting*

#### **The Increasing Environmental Significance of Pyrethroid Pesticides & Pyrethroid Pesticide Analyses at Environmentally Relevant Levels**

Pete W. Halpin  
*Caltest Analytical Laboratory*

### Lake Gregory Room Management Track

#### **Development of a Hydromodification Management Plan for the Santa Clara Valley Part 1: Performance Criteria and Guidance for Local Implementation**

Jill C. Bicknell, P.E.  
*Assistant Program Manager  
EOA, Inc  
Santa Clara Valley Urban Runoff Pollution Prevention Program*

#### **Development of a Hydromodification Management Plan for the Santa Clara Valley – Part 2: Assessment of Hydromodification Impacts and Control Measure Effectiveness**

Gary Palhegyi  
*Senior Professional  
GeoSyntec*

10:30 AM – 11:00 AM

## Morning Break

11:00 AM – 12:00 PM

## Session 2

### Strawberry Peak Room Treatment Track

#### **Post-Project Monitoring of BMPs/SUDs to Determine Performance and Whole-Life Costs**

Michael Barrett, Ph.D.  
*University of Texas*

### Lake Silverwood Room Treatment Track

#### **Treatment Trains: Don't Get Run Over**

Gary R. Minton, Ph.D., P.E.  
*Resource Planning Associates*

#### **Performance, Maintenance and Cost of Full Sedimentation vs. Partial Sedimentation Sand Filters**

David Alderete  
*Office of Water Programs  
California State University Sacramento*

### Big Bear Room Research Track

#### **Characterization of Runoff from the Sacramento Urban Area**

Bill Busath  
*City of Sacramento*

#### **A Watershed Scale Approach to Estimating Pollutant Loading from Dry Season Urban Runoff**

Dustin Bambic  
*Larry Walker Associates*

### Lake Gregory Room Management Track

#### **Hydrograph Modification Management Using Simplified Low Impact Development Design**

Christie Beeman, P.E.  
*Senior Associate  
Philip Williams and Associates*

12:00 PM – 1:30 PM

## Luncheon Presentation

In the Vineyard Room

### CASQA Awards and Recognition Program

The CASQA Board of Directors recognizes that individuals and organizations play a key role in furthering the educational, technical, and scientific initiatives that advance stormwater quality management, science, and regulation. Furthermore, the Board has determined that certain individuals and organizations display exemplary leadership, excellence, and initiative in advancing stormwater quality management, science, and regulation, and that the purpose of CASQA can be better achieved by formally recognizing these individuals and organizations.

Therefore, the Board has established the CASQA Awards and Recognition Program to recognize excellence in the above-mentioned areas.

During the luncheon CASQA will recognize individuals and organizations that show exemplary leadership, courage, excellence, or initiative in advancing stormwater quality management, science, and regulation consistent with CASQA's mission.

1:30 PM – 2:30 PM

## Session 3

Strawberry Peak Room

### Treatment Track

#### **A New Method for Estimating Runoff Quantities for Flow and Volume-based BMP Design**

William R. Lanton

*Department of Geological Sciences  
California State University, Fullerton*

Lake Silverwood Room

### Management Track

#### **Collaboration & Integration Opportunities for Stormwater Programs**

Stephen McCord

*Senior Engineer  
Larry Walker Associates*

#### **Stormwater Monitoring Coalition: A Regional Approach to Research/Monitoring in Southern California**

Chris Crompton

*Manager, Environmental Resources  
County of Orange/Watershed & Coastal Resources*

Big Bear Room

### Research Track

#### **Management of Pathogens Associated with Stormwater Discharges: Methodology and Application for Molecular Detection of Target Organisms Combined with Microbial Source Tracking**

Professor Stefan Wuertz

*Department of Civil and Environmental Engineering  
University of California, Davis*

### First Flush Phenomenon

Masoud Kayhanian

*Associate Director  
Center for Environmental and Water Resources Engineering  
Department of Civil and Environmental Engineering  
University of California, Davis*

## Lake Gregory Room Management Track

### **The Role of Economic Considerations in Stormwater Permits**

John J. Lormon,

*Partner  
Procopio Cory Hargreaves & Savitch LLP*

### **Stormwater – A Federal Legal Update**

Elizabeth (Nena) Shaw, Esq.

*Hunton & Williams LLP*

2:30 PM – 2:45 PM

## Afternoon Break

2:45 PM – 3:45 PM

## Session 4

Lake Gregory Room

### Treatment Track

#### **Simplified Low Impact Development Design for Compliance with Stormwater Treatment Requirements**

Dan Cloak, P.E.

*Principal  
Dan Cloak Environmental Consulting*

#### **A Lower-Impact Development Approach for a Coastal Resort in Southern California**

Eric W. Strecker

*GeoSyntec*

Lake Silverwood Room

### Management Track

#### **Arroyo Seco Watershed Plan: Strategic Water Quality Implementation**

Ken Susilo, P.E., CPSWQ

*GeoSyntec Consultants*

Brandon Steets

#### **The Nitrogen and Selenium Management Program for the San Diego Creek and Newport Bay Watershed: An Alternative Compliance Approach to Waste Discharge Requirements**

Karen Hauptly

*County of Orange*

Big Bear Room

### Research Track

#### **The World According to TAPE: A Journey Through the Washington State Department of Ecology's Approval Process**

Vaikko Allen

*Stormwater Management Inc.*

Strawberry Peak Room  
**Management Track**

**Strategies for New Revenue for Stormwater Management: California Case Studies.**

John W. Bliss, P.E.  
*Vice President  
Shilts Consulting*

4:00 PM – 5:00 PM  
**Session 5**

Lake Gregory Room  
**Treatment Track**

**The Effects of Infiltrating Stormwater On Soils and Groundwater**

Scott Meyer  
*Office of Water Programs*

**Countywide Stormwater Infiltration Site Characterization Criteria and Guidance Study, Contra Costa Clean Water Program**

Lucas W. Paz, Ph.D.  
*Senior Hydrologist  
LFR Levine - Fricke*

Michael S. Thomas, P.E.  
*Principal Engineer  
LFR Levine - Fricke*

Lake Silverwood Room  
**Management Track**

**Evaluation of Recreational Uses and Bacteria Water Quality Objectives in the Santa Ana River Watershed**

Richard Meyerhoff, Ph.D.  
*CDM*

Big Bear Room  
**Management Track**

**An Innovative Approach for Protecting the San Diego Marine Life Refuge: A Prototype Model for ASBS Management**

Nathan J. Schaedler, P.E.  
*Project Manager  
MACTEC*

Strawberry Peak Room  
**Management Track**

**Rancho Mission Viejo Water Quality Management Plan**

Peter Mangarella, P.E., Ph.D.  
*Associate  
GeoSyntec Consultants, Oakland, CA*

Laura Coley Eisenberg  
*Director, Planning and Entitlement  
Rancho Mission Viejo  
San Capistrano*

5:30 PM – 7:30 PM

**Exhibitor Hosted Reception**

In the Harvest and Grove Room

Join us in the Exhibitor's Hall for Drinks and Appetizers

**Wednesday  
October 5, 2005**

7:30 AM: Open Registration

8:00 AM: Exhibit Opening

8:30 AM – 9:30 AM

**Session 6**

Lake Gregory Room  
**Treatment Track**

**LEED Requirements: From a Hydrology and Drainage Design Perspective**

Eliza Jane Whitman, P.E.  
*Inland Empire Utilities Agency (IEUA)*

**Sun Valley Park Stormwater Infiltration Basin Demonstration Project**

Kathleen Higgins  
*CH2M Hill*

Strawberry Peak Room  
**Management Track**

**The Storm Water Data Report: How Caltrans Documents Compliance in the Design Phase**

Timothy B. Sobelman, P.E.  
*Chief – Office of Stormwater Management  
California Department of Transportation*

**Using Web Technology to Improve MS4 Regulatory Reporting**

Jon Spangenberg  
*CDM*

Big Bear Room  
**Research Track**

**Solid Measurements in Stormwater Runoff**

Masoud Kayhanian  
*Associate Director  
Center for Environmental and Water Resources Engineering  
Department of Civil and Environmental Engineering  
University of California, Davis*

**Design of BMPs for Contaminants Removal with respect to Small Particle Size Distribution**

Masoud Kayhanian  
*Associate Director  
Center for Environmental and Water Resources Engineering  
Department of Civil and Environmental Engineering  
University of California, Davis*

## Lake Silverwood Room Management Track

### **Evaluation of Municipal Stormwater Programs Implemented Throughout California**

Pamela Creedon  
*Tetra Tech*

### **Evaluation of New Development Standards for Municipal Stormwater Programs in Southern California**

John Kosco, P.E. CPESC  
*Principal Engineer*  
*Tetra Tech*

9:30 AM – 9:45 AM

## **Morning Break**

9:45 AM – 10:45 AM

## **Session 7**

## Lake Gregory Room Treatment Track

### **Performance of a California Wet Pond**

Gary Shawley  
*Alameda County*

### **Stormwater Treatment: Can We Make Them Smaller?**

Gary R. Minton  
*Resource Planning Associates*

## Lake Silverwood Room Research Track

### **Analyses of the Expanded International BMP Database and Implications for BMP Selection and Design**

Eric W. Strecker  
*GeoSyntec*

## Big Bear Room Management Track

### **Basin Sizer: A Free Software Tool for Determining Water Quality Volumes and Water Quality Flows**

Scott Meyer  
*Office of Water Programs*

### **Finding Water Body Information Using the Water Quality Planning Tool Web Site**

Scott Meyer  
*Office of Water Programs*

## Strawberry Peak Room Management Track

### **LID Techniques and Water Quality Management Plans for Water Quality Control in New Development and Redevelopment**

Jeffery D. Endicott, P.E., DEE  
*Engineering Director*  
*AEI-CASC Engineering Inc.*

11:00 AM – 12:00 PM

## **Session 8**

## Lake Gregory Room Treatment Track

### **Tahoe Basin BMP Evaluation and Feasibility Study**

Eric W. Strecker  
*GeoSyntec*

### **Effort to Keep Lake Tahoe Blue**

Sara A. Mcllory  
*Stantec*

## Strawberry Peak Room Management Track

### **Using A Water Quality Database as a Stormwater Program Management Tool**

Mike Troughon  
*Senior Scientist*  
*Larry Walker Associates*

### **Report of Water Quality Exceedances – Assessing Water Quality Compliance for Central Valley Phase I Municipal Stormwater Dischargers**

Brian Laurenson, P.E.  
*Senior Engineer*  
*Larry Walker Associates*

## Big Bear Room Research Track

### **Don't Trash Fresno Public Education Research Study (PERS)**

Misha Gutierrez  
*Ogilvy, PR*

### **Using Technical Data and Marketing Research to Change Behavior**

Stephen Groner, P.E.  
*President*  
*S. Groner & Associates Inc.*

## Lake Silverwood Room Management Track

### **Program Assessment – The Need for Quantifiable Measurements**

Betsy Elzufon  
*CASQA*

12:00 PM – 1:30 PM

Lunch in the Vineyard Room

## Luncheon Presentation

*Dealing with Last Year's Record Southern California Rainfall - Impact and Agency Response*

Guest luncheon speakers from Southern California water resources agencies will present impacts and challenges related to managing the previous wet season's record rainfall and resulting stormwater runoff. Guest luncheon speakers include:

Vana Olson

*San Bernardino County Department of Public Works*

Herb Nakasone

*Director Public Works / Chief Engineer, Resources & Development Management Department, County of Orange*

Warren "Dusty" Williams

*General Manager / Chief Engineer, Riverside County Flood Control and Water Conservation District*

1:30 PM – 2:30 PM

## Session 9

Lake Gregory Room  
**Treatment Track**

### **Pilot Study to Full Scale Implementation: How to Design A Trash Capture Device for California Freeways**

Timothy B. Sobeman, P.E.

*Supervising Transportation Engineer*

*Chief-Office of Stormwater Management-Design*

### **One Solution for Meeting LA's Trash TMDL; Utilization of Louvered Linear Radial Screen for Gross Solids Removal**

Kevin McGillcuddy

*Director, Stormwater Treatment Division*

*Roscoe Moss Company*

Lake Silverwood Room  
**Research Track**

### **Caltrans Vegetation Erosion Control Research and Seed Selection Tool**

Misty Scharff

*Office of Water Programs*

### **Testing and Quality Control of Seed For Erosion Control**

Randy Marx

*Brown & Caldwell*

Big Bear Room  
**Management Track**

### **Municipal Strategies for Implementing TMDLs: The Florida Perspective**

Michael Batemen

*Vortech Inc.*

### **An Integrated, Iterative, Adaptive Approach to TMDL Implementation for Santa Monica Bay**

**Jurisdictions 1 and 4**

Ken Susilo

*GeoSyntec*

Strawberry Peak Room  
**Management Track**

### **CASQA Public Information and Education Resources Directory**

Sharon Gosselin

*CASQA*

2:30 PM – 2:45 PM

## Afternoon Break

2:45 PM – 3:45 PM

## Session 10

Lake Gregory Room  
**Research Track**

### **Selenium Treatment and Management Approaches**

Ken Susilo

*GeoSyntec*

Lake Silverwood Room  
**Treatment Track**

### **Santa Barbara County Urban Runoff Treatment Control Project**

Peter Mangarella, P.E., Ph.D.

*Associate, GeoSyntec Consultants Oakland, CA*

Cathleen Garnand, P.E.

*Civil Engineering Associate*

*Santa Barbara County Water Agency*

Craig Steward, P.E.

*Principal Engineer*

*Penfield & Smith*

John Gray

*URS Corporation*

Big Bear Room  
**Research Track**

### **Development of Treatment Processes for Removing Turbidity and Phosphorus at Lake Tahoe**

Depen Patel

*Office of Water Programs*

Strawberry Peak Room  
**Management Track**

### **Ballona Creek Watershed BMP Retrofit Study – Phase I: Conceptual Planning**

Lisa Austin, P.E.

*GeoSyntec*

# Quick Reference Session Guide

**Tuesday October 4, 2005**

**Conference Opening 8:30 AM - 9:30 AM**

ROOM	EVENT
Vineyard Room	Conference Opening

**SESSION 1 9:30 AM - 10:30 AM**

Strawberry Peak Room	Stormwater Chemical Dosing System Development The Caltrans Route 73 BMP Pilot Study
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Lake Silverwood Room	Riverside Counties's IC/ID Programs Mobile Pressure Washers, Complying with Stormwater BMP's
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Big Bear Room	Life After Diazinon – What's New for Urban Creeks The increasing Environmental Significance of Pyrethroid Pesticides & Pyrethroid Pesticide Analyses At Environmentally Relevant Levels
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Lake Gregory Room	Development of a Hydromodification Management Plan for the Santa Clara Valley – Part 1: Assessment of Hydromodification Development of Hydromodification Management Plan for the Santa Clara Valley Part 2: Performance Criteria and Guidance for Local Implementation
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**SESSION 2 11:00 AM - 12:00 PM**

Strawberry Peak Room	Post-Project Monitoring of BMPs/SUDs to Determine Performance and Whole-Life Costs
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Lake Silverwood Room	Treatment Trains: Don't Get Run Over Performance, Maintenance and Costs of Full Sedimentation vs. Partial Sedimentation Sand Filters
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Big Bear Room	Characterization of Runoff From the Sacramento Urban Area A Watershed Scale Approach to Estimating Pollutant Loading from Dry Season Urban Runoff
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Lake Gregory Room	Hydrograph Modification Management Using Simplified Low Impact Development Design
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**LUNCH 12:00 PM - 1:30 PM**

Vineyard Room	CASQA Awards and Recognition Program
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**SESSION 3 1:30 PM - 2:30 PM**

Strawberry Peak Room	A New Method for Estimating Runoff Quantities for Flow and Volume-based BMP Design
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Lake Silverwood Room	Collaboration & Integration Opportunities for Stormwater Programs Stormwater Monitoring Coalition: A Regional Approach to Research/Monitoring in Southern California
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Big Bear Room	Management of Pathogens Associated with Stormwater Discharges: Methodology and Application for Molecular Detection of Target Organisms Combined with Microbial Source Tracking First Flush Phenomenon
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Lake Gregory Room	The Role of Economic Considerations in Stormwater Permits Stormwater – A Federal Legal Update
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**SESSION 4 2:45 PM - 3:45 PM**

Lake Gregory Room	Simplified Low Impact Development Design for Compliance with Stormwater Treatment Requirements A Lower-Impact Development Approach for a Coastal Resort in Southern California
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Lake Silverwood Room	Arroyo Seco Watershed Plan: Strategic Water Quality Implementation The Nitrogen and Selenium Management Program for the San Diego Creek and Newport Bay Watershed: An Alternative Compliance Approach to Waste Discharge Requirements
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Big Bear Room	The World According to TAPE: A Journey Through the Washington State Department of Ecology's Approval Process
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Strawberry Peak Room	Strategies for New Revenue for Stormwater Management: California Case Studies
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**SESSION 5 4:00 PM - 5:00 PM**

Lake Gregory Room	Effects of Infiltrating Stormwater On Soils and Groundwater Countrywide Stormwater Infiltration Site Characterization Criteria and Guidance Study, Contra Costa Clean Water Program
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<b>ROOM</b>	<b>EVENT</b>
Lake Silverwood Room	Evaluation of Recreational Uses and Bacteria Water Quality Objectives in the Santa Ana River Watershed
Big Bear Room	An Innovative Approach for Protecting the San Diego Marine Life Refuge: A Prototype Model for ASBS Management
Strawberry Peak Room	Rancho Mission Viejo Water Quality Management Plan

### **Wednesday October 5, 2005**

#### **SESSION 6 8:30 AM – 9:30 AM**

Lake Gregory Room	LEED Requirements: From a Hydrology and Drainage Design Perspective Sun Valley Park Stormwater Infiltration Basin Demonstration Project
Strawberry Peak Room	The Storm Water Data Report: How Caltrans Documents Compliance in the Design Phase Using Web Technology to Improve MS4 Regulatory Reporting
Big Bear Room	Solid Measurements in Stormwater Runoff Design of BMPs for Contaminants Removal with respect to Small Particle Size Distribution
Lake Silverwood Room	Evaluation of Municipal Stormwater Programs Implemented Throughout California  Evaluation of New Development Standards for Municipal Stormwater Programs in Southern California

#### **SESSION 7 9:45 AM – 10:45 AM**

Lake Gregory Room	Performance of a California Wet Pond Stormwater Treatment: Can We Make Them Smaller?
Lake Silverwood Room	Analyses of the Expanded International BMP Data Base and Implications for BMP Selection and Design
Big Bear Room	Basin Sizer: A free Software Tool for Determining Water Quality Volumes and Water Quality Flows Finding Water Body Information Using the Water Quality Planning Tool Web Site
Strawberry Peak Room	LID Techniques and Water Quality Management Plans for Water Quality Control in New Development and Redevelopment

#### **SESSION 8 11:00 AM – 12:00 PM**

Lake Gregory Room	Tahoe Basin BMP Evaluation and Feasibility Study Effort to Keep Lake Tahoe Blue
Strawberry Peak Room	Using a Water Quality Database as a Stormwater Program Management Tool Report of Water Quality Exceedances – Assessing Water Quality Compliance for Central Valley Phase I Municipal Stormwater Discharge
Big Bear Room	Don't Trash Fresno Public Education Research Study (PERS) Using Technical Data and Marketing Research to Change Behavior
Lake Silverwood Room	Program Assessment – The Need for Quantifiable Measurements

#### **LUNCHEON PRESENTATIONS 12:00 PM – 1:30 PM**

Vinyard Room

#### **SESSION 9 1:30 PM – 2:30 PM**

Lake Gregory Room	Pilot Study to Full Scale Implementation: How to Design A Trash Capture Device for California Freeways One solution for Meeting LA's Trash TMDL; Utilization of Louvered Linear Radial Screen for Gross Solids Removal
Lake Silverwood Room	Caltrans Vegetation Erosion Control Research and Seed Selection Tool Testing and Quality Control of Seed for Erosion Control
Big Bear Room	Municipal Strategies for Implementing TMDLs: The Florida Perspective An Integrated, Iterative, Adaptive Approach to TMDL Implementation for Santa Monica Bay Jurisdictions 1 and 4
Strawberry Peak Room	CASQA Public Information and Education Resources Directory

#### **Session 10 2:45 PM – 3:45 PM**

Lake Gregory Room	Selenium Treatment and Management
Lake Silverwood Room	Santa Barbara County Urban Runoff Treatment Control Project
Big Bear Room	Development of Treatment Processes for Removing Turbidity and Phosphorus at Lake Tahoe
Strawberry Peak Room	Ballona Creek Watershed BMP Retrofit Study – Phase 1: Conceptual Planning