



California Water and Environmental Modeling Forum

2004 Annual Meeting Agenda

“Ten Years of
Promoting Excellence and Consensus in Water and Environmental Modeling”



February 24-26, 2004

Asilomar Conference Grounds
800 Asilomar Boulevard
Pacific Grove, California

**California Water and Environmental Modeling Forum
2004 Annual Meeting
Summary of Sessions**

Asilomar Map

Tuesday, February 24, 2004

Time	Title	Moderator	Location
10:15 am-12:00 pm	2003 IGSM2 Enhancements and Selected Applications	Tariq Kadir	Fred Farr
	Forecasting Delta Drinking WQ and the CA Aqueduct	Paul Hutton	Kiln
12:00-1:00 pm	Lunch	---	Dining Hall
1:15-3:00 pm	San Joaquin River Basin Hydrology and Simulation	Walter Bourez	Fred Farr
	California North Coast Water Supply and Quality Modeling	Mike Deas	Kiln
3:00-4:00 pm	Registration	---	Social Hall
4:15-6:00 pm	Modeling of Water Transfers	Rob Tull	Chapel
	Modeling as a Tool for Floodplain Restoration	Chris Bowles	Fred Farr
6:00-7:00 pm	Dinner	---	Dining Hall
7:00-10:00 pm	Poster Session and Social I	Mike Deas	Chapel
8:00-8:30 pm	Evening Speaker: "The CWEMF," Rich Satkowski	Rich Satkowski	
8:30-9:00 pm	Evening Speaker: "The CVP-Early Years," Lloyd Peterson		

Wednesday, February 25, 2004

Time	Title	Moderator	Location
7:30-8:15 am	Breakfast	---	Dining Hall
8:15-10:00 am	CWEMF Activities / Annual Business Meeting	Nigel Quinn	Chapel
10:15 am-12:00 pm	California Water Plan Update 2003 and Beyond	Kamyar Guivetchi	Chapel
	Wetlands Modeling	Nigel Quinn	Fred Farr
12:00-1:00 pm	Lunch	---	Dining Hall
1:15-3:00 pm	Risk/Uncertainty Management in DWR/USBR Decisions	Levi Brekke	Chapel
	Multi-Dimensional Modeling I	Tara Smith	Fred Farr
3:00-4:00 pm	Registration	---	Social Hall
4:15-6:00 pm	2003 CALSIM II Development and Applications I	Sushil Arora	Chapel
	Multi-Dimensional Modeling II	Ralph Finch	Fred Farr
6:00-7:00 pm	Dinner	---	Dining Hall
7:00-10:00 pm	Social II	---	Chapel
7:30-8:15 pm	Hugo B. Fischer Award and Presentation by the Winner	Rob Tull	
8:15-9:15 pm	Keynote Speaker: "Bay-Delta Tectonics," Eldridge Moores	John Williams	

Thursday, February 26, 2004

Time	Title	Moderator	Location
7:30-8:15 am	Breakfast	---	Dining Hall
8:15-10:00 am	California Long-Term Water Modeling Planning	Jay Lund	Chapel
10:15 am-12:00 pm	2003 CALSIM II Development and Applications II	Lloyd Peterson	Chapel
	Integrating GW Data to Assess Anthropogenic Impacts	Walt McNab	Fred Farr
12:00-1:00 pm	Lunch / Check-Out	---	Dining Hall
1:15-3:00 pm	CALSIM II Sacramento Basin Hydrology Enhancements	Andy Draper	Chapel
	2003 DSM2 Developments and Applications	P. Nader-Tehrani	Fred Farr



2004 Annual Meeting Agenda

Asilomar Map

10:15 a.m.-12:00 p.m.

Session One: 2003 IGSM2 Enhancements and Selected Applications

Moderator: Tariq Kadir (DWR)

Location: Fred Farr Forum

IGSM2 Activities During 2003, Tariq Kadir (DWR)

IGSM2 Enhancements (Version 2.0), Can Dogrul (DWR)

Application to the Central Valley: CVGSM2 Update, Michael Moncrief (DWR)

Application to the Western San Joaquin Valley: WESTSIM Update,
Nigel Quinn (LBNL/USBR) and Jafar Faghieh (MWH, Inc.)

Data Management System and Graphical User Interface, Jon Goetz (MWH, Inc.)

Session Two: Forecasting Delta Drinking Water Quality and the California Aqueduct

Moderator: Paul Hutton (MWDSC)

Location: Kiln

Real Time Data and Forecasting, Rich Breuer (DWR)

Current Efforts to Forecast Delta Water Quality-EC, Art Hinojosa (DWR)

Current Efforts to Forecast California Aqueduct Water Quality,
Tony Liudzius (MWDSC)

Future Development of Forecasting Tools for Delta and Aqueduct Water Quality,
Michael Mierzwa (DWR)

12:00-1:00 p.m. — Lunch

1:15-3:00 p.m.

Session Three: San Joaquin River Basin Hydrology and Simulation

Moderator: Walter Bourez (MBK Engineers)

Location: Fred Farr Forum

Hydrology Developments and Operations, Walter Bourez (MBK Engineers)

Overview of the CALSIM II Water Quality Module for Simulation of EC on the San Joaquin River at Vernalis, Claire Hsu (USBR)

CALSIM II Water Quality Module for Simulation of EC on the San Joaquin River at Vernalis, Yung-Hsin Sun (MWH, Inc.)

Session Four: California North Coast Water Supply and Quality Modeling

Moderator: Mike Deas (Watercourse Engineering, Inc.)

Location: Kiln

Operation Modeling in the Russian River Watershed, Chris Murray (SCWA)

Application of CALSIM II to the Klamath River Basin, Nancy Parker (USBR)

Flow and Water Quality Modeling in the Klamath River from Klamath Falls to the Pacific Ocean, Mike Deas (Watercourse Engineering, Inc.)

3:00-4:00 p.m. — Registration

4:15-6:00 p.m.

Session Five: Modeling of Water Transfers

Moderator: Rob Tull (CH2M Hill)

Location: Chapel

California's Emerging Water Market - Transfers and Policy Issues, Ellen Hanak (Public Policy Institute of California)

Metropolitan's 2003 Colorado River Contingency Transfer in Retrospect, Paul Hutton (MWDSC)

Assessment of Surface Water and Groundwater Impacts Related to Implementation of the Sacramento Valley Water Management Agreement, Peter Lawson (CH2M Hill)

Water Transfers Tool: Evaluating Water Transfer Reliability through Modeling, Armin Munevar (CH2M Hill)



4:15-6:00 p.m. (continued)

Session Six: Modeling as a Tool for Floodplain Restoration

Moderator: Chris Bowles (PWA)

Location: Fred Farr Forum

Observations of a Consumnes River Floodplain, Michael Anderson (UC Davis)

Two-Dimensional Hydraulic Modeling to Support Riparian Restoration
Planning, Upper Sacramento River Floodplain,
Tom Smith (Ayres and Associates)

Hydrodynamic Modeling as a Tool for Floodplain Restoration,
Chris Bowles (PWA)

6:00-7:00 p.m. — Dinner

7:00-10:00 p.m.

Session Seven: Evening Program

Moderator: Rich Satkowski (CWEMF)

Location: Chapel



7:00-10:00 p.m. Poster Session and Social I

Sponsored by: Mike Deas of Watercourse Engineering, Inc.
(Please see poster session titles at the end of this agenda.)

8:00-8:30 p.m. Evening Speaker: Rich Satkowski (CWEMF)

The CWEMF: Ten Years of Promoting Excellence and Consensus
in Water and Environmental Modeling

8:30-9:00 p.m. Evening Speaker: Lloyd Peterson (USBR)

The Central Valley Project – The Early Years



7:30-8:15 a.m. — Breakfast

8:15-10:00 a.m.

Session Eight: Reports on CWEMF Activities / Annual Business Meeting

Moderator: Nigel Quinn (CWEMF Convener/LBNL/USBR)

Location: Chapel

8:15 Welcome — Nigel Quinn

8:20 Reports on CWEMF Model User Groups & Peer Reviews — Nigel Quinn

8:30 Report on CWEMF Workshops — KT Shum (Vice-Convener/EBMUD)

8:45 Executive Director's Report — Rich Satkowski (CWEMF)

9:00 Annual Business Meeting — Nigel Quinn

10:15 a.m.-12:00 p.m.

Session Nine: California Water Plan Update 2003 and Beyond

Moderator: Kamyar Guivetchi (DWR)

Location: Chapel

Findings and Recommendations for the California Water Plan Update 2003 and Beyond, Kamyar Guivetchi and Rich Juricich (DWR)

Q&A/Roundtable Discussion, All



Session Ten: Wetlands Modeling

Moderator: Nigel Quinn (LBNL/USBR)

Location: Fred Farr Forum

Everglades Agricultural Area Wetlands Project, Jesper Kjelds (DHI)

Napa County Baseline Data Report, Ken Schwarz (JSA) and Jesper Kjelds (DHI)

An Integrated Model for Evaluating Wetland Hydrology, Hydrodynamics, Water Quality and Ecology, Kate Huckelbridge (UC Berkeley)

12:00-1:00 p.m. — Lunch

1:15-3:00 p.m.

Session Eleven: Illustrations of Risk and Uncertainty Management in DWR/USBR Decision Processes

Moderator: Levi Brekke (USBR)

Location: Chapel

Approach and Work Plan of Joint DWR-USBR Work Group on Climate Change, Jamie Anderson (DWR)

Estimating Uncertainties of 21st Century Hydroclimate Changes, Mike Dettinger (USGS/UCSD Scripps)

Daily Scheduling of Hydropower Consumption, Levi Brekke (USBR)

Session Twelve: Multi-Dimensional Modeling I

Moderator: Tara Smith (DWR)

Location: Fred Farr Forum

Lessons Learned from Specific Delta Habitats: When and Where We Need to Use Multi-Dimensional Models, Nancy Monsen (USGS)

Modeling of Franks Tract, John DeGeorge (RMA)

Uncertainty in Hydrologic Modeling and the Curse of Dimensionality, Hubert Morel-Seytoux (Hydroprose)

3:00-4:00 p.m. — Registration

4:15-6:00 p.m.

Session Thirteen: 2003 CALSIM II Development and Applications I

Moderator: Sushil Arora (DWR)

Location: Chapel

Yuba River System Water Transfers Modeling, Jeff Weaver (MWH Americas) and Messele Ejeta (DWR)

Hydrologic Forecasts for the Allocation Model (CAM), Hongbing Yin (DWR)

Development of an Allocation Model (CAM), Ryan Wilbur (DWR) and Hongbing Yin (DWR)



4:15-6:00 p.m. (continued)

Session Fourteen: Multi-Dimensional Modeling II

Moderator: Ralph Finch (DWR)

Location: Fred Farr Forum

REALM Overview and Status Report, Ralph Finch/Eli Ateljevich (DWR)

3D Lagrangian Residual Circulation in San Francisco Bay, Peter Smith (USGS)

Physics of a 3D River Plume over the Continental Shelf using an Unstructured Grid Model, Ralph Cheng (USGS)

6:00-7:00 p.m. — Dinner

7:00-10:00 p.m.

Session Fifteen: Evening Program

Location: Chapel

7:00-10:00 p.m. Social II

7:30-7:45 p.m. Presentation of the Hugo B. Fischer Award

Presenter: Rob Tull (CH2M Hill)

7:45-8:15 p.m. Remarks by the Hugo B. Fischer Award Recipient

8:15-9:15 p.m. Keynote Speaker: Eldridge Moores (UC Davis)

Moderator: John Williams (Consultant)

The Tectonic Context and Evolution of the San Francisco Bay, Delta, and Central Valley



7:30-8:15 a.m. — Breakfast

8:15-10:00 a.m.

Session Sixteen: California Long-Term Water Modeling Planning

Moderator: Jay Lund (UC Davis)

Location: Chapel

Process and Timeline, Jay Lund (UC Davis)

Long-Term Visions, Selected Participants

Q&A/Roundtable Discussion, All



10:15 a.m.-12:00 p.m.

Session Seventeen: 2003 CALSIM II Development and Applications II

Moderator: Lloyd Peterson (USBR)

Location: Chapel

Incorporating Rice Straw Decomposition Water Demand in the Hydrology Development Process, Messele Ejeta (DWR)

Development of "CalSim 2.0": Enhancements to the GUI and Solver, Ryan Wilbur (DWR) and Clay Booher (DWR)

New and Improved EWA Representation, Levi Brekke (USBR)

Session Eighteen: Integrating State-Wide Groundwater Data Sets to Assess Anthropogenic Impacts to California Groundwater

Moderator: Walt McNab, Jr. (LLNL)

Location: Fred Farr Forum

Using Centralized Database Coordination and Access to Assess Groundwater Vulnerability, Brendan Dooher (LLNL)

Comparing Groundwater Contamination Vulnerability in Large, Urbanized Basins of California, Jean Moran (LLNL)

Nitrate in California Groundwater: An Overview of Source Loading and Denitrification on Different Spatial Scales, Walt McNab, Jr. (LLNL)

12:00-1:00 p.m. — Lunch / Check-Out

1:15-3:00 p.m.

Session Nineteen: CALSIM II Sacramento River Basin Hydrology Enhancements

Moderator: Andy Draper (MWH Americas)

Location: Chapel

Findings, Walter Bourez (MBK Engineers) and Andy Draper (MWH Americas)

Q&A/Roundtable Discussion, All

Session Twenty: 2003 DSM2 Developments and Applications

Moderator: Parviz Nader-Tehrani (DWR)

Location: Fred Farr Forum

Assessing Temperature and Dissolved Oxygen Changes in the Delta Due to Planned Operations, Hari Rajbhandari (DWR)

Use of DSM2 Fingerprinting to Determine How the South Delta Temporary Barriers Change Water Composition in the Delta, Jamie Anderson (DWR)

DSM2 Results for SDIP Tidal Triggers and Monthly Percentiles, Russ Brown (JSA) and Aaron Miller (DWR)

DSM2 Model Users Group, Min Yu (DWR)





2004 Annual Meeting Poster Session Titles

Poster 1: The CWEMF: Ten Years of Promoting Excellence and Consensus in Water and Environmental Modeling

Rich Satkowski and Kevin Long (CWEMF)

Poster 2: Oroville Re-Licensing Project

William T. Smith (Surface Water Resources, Inc.)

Poster 3: Reconstruction of Historical Flow and Water Temperature Conditions on the Sacramento River

Mike Deas (Watercourse Engineering, Inc.)

Poster 4: Temperature Simulation Using HEC-RAS

Cindy Lowney (USF/Consultant)

Poster 5: Tidal Dilution of Groundwater Discharging to Surface Water

Gordon Thrupp and Christopher Neville (S.S. Papadopoulos & Associates, Inc.)

Poster 6: Central Valley Project: Its Present Status and Potential Development – 1945

Lloyd Peterson (USBR)

Poster 7: Surface Water Ambient Monitoring Program

George Nichol (SWRCB)

Poster 8: Re-Assembling Hetch Hetchy: Water Supply Implications of Removing O'Shaughnessy Dam

Sarah Null (UC Davis)

Poster 9: Climate Change and Water Supply at EBMUD

Kevin Richards and KT Shum (EBMUD)

Poster 10: Hydrologic Analysis of Fully-Coupled Surface/Subsurface Water Systems

George Matanga and Claire Jacquemin (USBR)

Poster 11: Sacramento River Basin Hydrology Development

Walter Bourez (MBK Engineers)

Poster 12: Inventory of Basin Scale Groundwater Models in California

Matt Zidar, Ali Taghavi, Leah Briney and Chris Smith (WRIME)

Poster 13: Integrating Planning and Model Development Process for Groundwater and Conjunctive Use Planning

Ali Taghavi, Saquib Najmus, Mike Cornelius and Matt Zidar (WRIME)



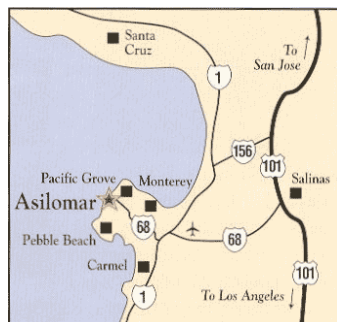
Miscellaneous Information

Important Phone Numbers

Asilomar Conference Center – (831) 372-8016

Rich Satkowski – (916) 607-0435 (cell)

Nigel Quinn – (510) 612-8802 (cell)



Directions to Asilomar

Asilomar Map