

**FLOODPLAIN MANAGEMENT ASSOCIATION**

**2009 ANNUAL CONFERENCE**

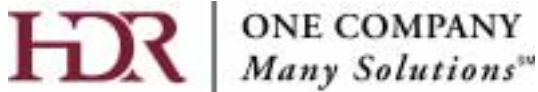
***INVESTING IN FLOODPLAINS FOR FUTURE GENERATIONS:  
Innovation in Land Use Strategies, Green Infrastructure, Technology and Partnerships***



September 8-11, 2009  
Fairmont Hotel  
San Jose, California  
[www.floodplain.org](http://www.floodplain.org)

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## FLOODPLAIN MANAGERS CIRCLE



## CONFERENCE FOUNDERS CIRCLE



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In Alphabetical Order

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# 2009 Annual Conference of the Floodplain Management Association



## INVESTING IN FLOODPLAINS FOR FUTURE GENERATIONS: Innovation in Land Use Strategies, Green Infrastructure, Technology and Partnerships

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### CONFERENCE CHAIR

Kathleen Schaefer, FEMA Region 9

### CONFERENCE COMMITTEE

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Maria Lorenzo Lee, California Department of Water Resources  
Steve Mahnke, California Department of Water Resources  
Lisa Messano, Michael Baker Jr. Inc.  
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Eric Simmons, FEMA Region IX  
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Marty Teal, WEST Consultants  
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District  
Susan Woolam, California Department of Water Resources  
Alex Yescas, PBS&J

### PROGRAM DIRECTOR

Iovanka Todt, Floodplain Management Association

# **FMA 2009 ANNUAL CONFERENCE, SEPT 8-11, SAN JOSE**

## **PROGRAM AT A GLANCE**

### **TUESDAY, SEPTEMBER 8 - WORKSHOPS AND SPECIAL SESSIONS**

7:30	REGISTRATION and BREAKFAST
8:30	USACE Non-Structural Methods A Plethora of NFIP Program Changes California Safety Assessment Program
10:00	Using HAZUS for Statewide Flood Risk Assessment How can I Expedite my LOMR/CLOMR? What To Say When You Lose A PAL Special Native American Tribal Session on Flood Management Special Session for Community-Based Organizations
12:00	LUNCH on your own FMA Board of Directors Meeting
1:00	EXHIBITOR MOVE-IN
1:30	Design of Bank Revetments and Grade Control Structures Legal Aspects of Floodplain Mgmt: Protecting the Property Rights of All Framing the Flood: Building Common Strategies Absent Common Ground Implementing FEMA's Digital Vision California Levee Summit – Closed Session Multi-Hazard Mitigation and CRS Floodplain Management Planning California Levee Summit – Closed Session On-going one-on-one session on FEMA CRS Program
3:30	HAZUS Users Group Meeting
6:00	WELCOME RECEPTION! The Tech Museum of Innovation, 201 South Market Street, San Jose. Sponsored by: AECOM, Baker, Inc., HDR

### **WEDNESDAY, SEPTEMBER 9**

**Registration daily 7:00 a.m.—5:00 p.m. in Market Street Foyer**

7:30	CONTINENTAL BREAKFAST & EXHIBITS
8:00	Welcome Address - Mayor Chuck Reed, City of San Jose Keynote Speaker: Senator Mike Machado, Ret.  PLENARY: Legislation and Programs in Floodplain Management
10:00	BREAK & EXHIBITS

## WEDNESDAY, SEPTEMBER 9 (Continued)

10:30	Financing Strategies in Floodplain Management Cutting Edge Tools, Programs and Technologies Partnering with California Native American Tribes Strategies in Flood Insurance Studies and Master Planning Water Quality Management and Monitoring Sediment Transport Analysis and Management Strategies
12:00	ASSOCIATION LUNCHEON
2:00	Financing Strategies and Proposition 218 In-Stream Controls as a Tool in Hydromodification Mitigation Regulatory and Policy Issues in Floodplain Management Levees - Design for Rehabilitation Communication Strategies and Public Involvement Geomorphology, Erosion and Scour Analysis I
3:30	BREAK & EXHIBITS
4:00	Characterizing and Communicating Risk Flood Risk and Land Use Planning I Advances in Hazard Assessment and Emergency Management Levees - Maintenance and Certification Multi-Objective Floodplain and Watershed Management I Geomorphology, Erosion and Scour Analysis II  WORKSHOP: HEC Update
5:30	RECEPTION & EXHIBITS

## THURSDAY, SEPTEMBER 10

Registration daily 7:00 a.m.—5:00 p.m. in Market Street Foyer

7:30	CONTINENTAL BREAKFAST & EXHIBITS
8:00	Breakfast Plenary: Urban and Non-Urban Levee De-Accreditation
9:00	Climate Change and Floodplain Management FEMA Grants programs update – FMA, PDM, HMGP – plus state updates Flood Risk and Land Use Planning II: Collaboration Efforts Cutting Edge Tools in Floodplain Modeling I Stream and Floodplain Restoration I Floodway Vegetation Management
10:30	BREAK & EXHIBITS

## THURSDAY, SEPTEMBER 10 (Continued)

11:00	Army Corps Program for Floodplain Management Floodplain Resources Sustainability: Moving from Policy to Practice Climate Change and Flooding Analysis Collaborative Partnerships Innovative Funding and Cost Sharing Cutting Edge Tools in Floodplain Modeling II Floodplain and Reservoir Hydraulic Modeling
12:30	LUNCH on your own
2:00	Levees – Looking to the Future Dam Safety and Flood Management Multi-Objective Floodplain and Watershed Management II Hydromodification and Low Impact Development Cutting Edge Tools and Technologies in Flood Hazard Planning  WORKSHOP: DFIRM 101 and Risk Communication Roundtable WORKSHOP: Integrating Multiple Funding Sources: Grant Writing Success Elements
3:30	BREAK & EXHIBITS
4:00	Sustainable Development in the Floodplain: California AFTF Update Flood Safety and Legacy Towns New Tools, Programs and Policies in Emergency Flood Response Stream and Floodplain Restoration II New Developments in FEMA Floodplain Mapping Programs Flood Forecasting
6:30	DINNER and ENTERTAINMENT

## FRIDAY, SEPTEMBER 11

7:30	CONTINENTAL BREAKFAST and REGISTRATION
8:00	MEMBERSHIP BREAKFAST MEETING
8:30	CFM EXAM
8:30	WORKSHOP: Dams & Floodplain Management (4 hours)
9:00	FIELD TRIP (returns at 1:00, stop for lunch)
9:00	Policies and Initiatives Affecting Coastal Floodplains Levees - Design, Analysis and Mapping I Cutting Edge Products and Technologies Hydrologic Modeling Applications
10:30	BREAK
11:00	Levees - Design, Analysis and Mapping II Alluvial Fan Analysis and Technical Guidance Innovative Approaches in Floodplain Mapping and Modeling

**DETAILED CONFERENCE PROGRAM**  
**TUESDAY, SEPTEMBER 8, 2009**  
**PRE-CONFERENCE WORKSHOPS AND SESSIONS**

*Conference Registration Daily 7:00—5:00 Market Street Foyer*

- 7:30 REGISTRATION and CONTINENTAL BREAKFAST
- 8:30 **USACE Non-Structural Methods**, Clark Frentzen, USACE (4 hours)
- 8:30 **A Plethora of NFIP Program Changes**, Edie Lohmann, PBS&J (2 hours) This session will focus on recent and upcoming NFIP program changes including the May 1 and October 1, 2009 rate and rule changes, the new elevation certificate form and the programs impending re-authorization and potential legislative changes slated for September 30, 2009. The workshop will also include an interactive discussion on map grandfathering and other insurance “hot buttons” as they relate to the new changes. With the successful implementation of FEMA’s new RiskMAP program, this class will provide valuable insight for federal, state and local officials fulfilling the important role of bridging the gap between building safer communities and communicating the risk. Learn what resources are available to ensure your success.
- 8:30 **California Safety Assessment Program**, Jim Barnes, Cal EMA (4 hours)
- 10:00 **Using HAZUS for Statewide Flood Risk Assessment**, Steve Cowdin, California DWR and Ken Leep, Cal EMA (2 hours) California lacks consistent data concerning statewide flood risks—who is at risk? what is at risk? where is it at risk? This lack of data can be very frustrating because DWR and CAL EMA often receive requests from the Legislature and the Governor’s Office concerning regional or statewide flood risks. One tool that can be used to assess statewide flood risks is FEMA’s HAZUS-MH model. HAZUS is a GIS-based tool that estimates socioeconomic losses resulting from floods, earthquakes, and hurricane winds. This presentation explores how HAZUS could be used for a California statewide flood risk assessment, including levels of analysis, model methodology, and examples of HAZUS applications. In addition to assisting state flood planning programs, a statewide HAZUS flood risk assessment can also benefit federal and local flood mitigation planning programs.
- 10:00 **How can I Expedite my LOMR/CLOMR?** Shilpa Mulik and Brian Koper, Michael Baker Jr. Inc. (2 hours) This workshop will provide an overview of different components of MT-2 Cases such as Letter of Map Revision (LOMR) and Conditional Letter of Map Revision (CLOMR) submittal requirements. The goal of the workshop is to lower the number of requests for additional data from the requesters, which will in turn result in reduction of the total turn around time of the LOMRs and CLOMRs.
- 10:00 **What To Say When You Lose A PAL**, Mary Jo Vrem, FEMA, Kamer Davis, FloodSmart Team, Bruce Bender, FloodSmart Team (2 hours) As the Provisionally Accredited Levee designation expires for hundreds of California levees, floodplain managers and elected leaders are facing a host of new communication challenges. A key issue: how best to communicate the risk of flooding and the role of flood insurance. To many residents and business owners, the risk of flooding and the need to buy flood insurance was not top of mind when their nearby levee was provisionally accredited. They knew they weren’t required to buy flood insurance, and had faith that this would not change, but now the loss of a PAL means being remapped into a high-risk zone, with new flood insurance requirements. Fortunately, there is still time to save on flood insurance. This workshop explores how to communicate levee-related flood risks and flood insurance savings. And you’ll leave with fact sheets, templates and CDs from FEMA’s FloodSmart campaign that provide audience-specific help.



## TUESDAY, SEPTEMBER 8 (CONTINUED)

- 10:00 **Flood Management and Tribal Lands – Past, Present, and Future**, Institute for Collaborative Policy and FMA (6 hours) – lunch included. This special session is designed to share experiences and information about floods, rivers and floodplains on Tribal lands; discuss important issues and opportunities for Tribal communities in protecting rivers, floodplains and people; share information about funding resources, technical assistance programs, and training; and, identify next steps for advancing the needs and interests of Tribal communities. All Tribal representatives and floodplain managers are invited.
- 10:30 **Special Session for Community-Based Organizations**, Susan Woolam, California DWR. This session engages agencies and community-based organizations (CBOs) in a discussion about strategies, challenges and opportunities in working together on restoration, education and other floodplain management activities. The discussion will also address the role of CBOs in gathering and maintaining historical information and data. Representatives in this discussion include the Alameda Creek Watershed Council, Suzie Earp, Historian, Water Resources Institute, Mitch Avalon, Contra Costa Public Works and others.
- 12:00 LUNCH—on your own  
FMA Board of Directors Meeting
- 1:30 **Design of Bank Revetments and Grade Control Structures for Stream Restoration Projects**, Brian J. Doeing and Justin S. Rogers, HDR (4 hours) The primary purpose of this half-day (4 hour) workshop is to provide detailed engineering design guidelines for revetments and grade control structures for stream restoration projects. A cursory review of engineering design considerations will be presented including risk, site analysis, and common failure mechanisms. Additionally a brief overview of methods available for stabilization will be presented. The first major part of the workshop will focus on the design of bank revetments including scour analysis (long term, general, bend, local), rock sizing, filter design and layout. The second major part of the workshop will focus on grade control design including scour analysis, rock sizing, and layout. An emphasis will be placed in the workshop on incorporating bioengineering methods into rock structures for environmental enhancement. A project example from a stream restoration project in central coastal California will be used to illustrate many of the design methods discussed in the workshop.
- 1:30 **Legal Aspects of Floodplain Management: Protecting the Property Rights of All**, Edward A. Thomas, Esq., Michael Baker, Jr., Inc. (4 hours) There is serious concern and uncertainty on the part of Planners and other Regulators as to just what extent property can be fairly, properly and legally regulated. Many Floodplain Managers are wrongly accused of harming the “Property Rights” of others, even to the extent of being sued for simply doing their job of ensuring safety when someone chooses to occupy a portion of Nature’s floodplain. This Legal Workshop introduces several themes which flow into a powerful concept of known as “No Adverse Impact” which should both ensure reasonable public safety and protect government officials from liability.
- 1:30 **Framing the Flood: Building Common Strategies Absent Common Ground**, Dennis Bowker, Facilitator, FMA (4 hours) This Floodplain Managers’ Workshop is to improve skills useful in promoting the growth and development of durable local floodplain management partnerships. Topics include: using an interest-based, goal-oriented approach to building and maintaining relationships that increase the effectiveness of long-term sustainable floodplain management; the relationships among cultural, economic, social and natural aspects of floodplains and their contributing watersheds; personal self-awareness skills to recognize how behaviors and attitudes can contribute to or erode community partnership dynamics, and skills to better deal with interpersonal and group conflict; communicating flood risk and ways to help the community develop and engage in effective risk management strategies; the growing understanding of the relationships and roles of governance and economics in sustaining floodplain management; and, the need to recognize, acquire and utilize appropriate scientific and technical information and tools in floodplain planning, assessment, decision-making and management.

## TUESDAY, SEPTEMBER 8 (CONTINUED)

- 1:30 **Implementing FEMA's Digital Vision**, Scott McAfee, FEMA (2 hours) FEMA plans to dramatically scale back the paper map distribution in September as it evolves under RiskMAP. This workshop will help users to understand how FEMA is changing the database and graphical specification to facilitate map creation from the database and improve risk communication. The workshop will cover multiple and timely topics related to implementing FEMA's Digital Vision. Topics will include: (1) The look of the future database and flood map; (2) update on the status of changes to Appendix K and L of the Guidelines and Specifications; (3) updates to the MapViewer-Desktop and other tools; and (4) phasing out paper map production & distribution.
- 1:30 **Multi-Hazard Mitigation and CRS Floodplain Mgmt Planning: Maximize your Community's Potential**, David A. Stroud, CFM, Regional Emergency & Hazard Mitigation Director, AMEC Earth and Environmental (4 hours) Learn about the important components of a Multi-Hazard Mitigation and Community Rating System (CRS) Floodplain Management Plan (one plan can meet both programs objectives). This workshop will focus on the four phases of FEMA's Multi-Hazard Mitigation Planning requirements of the Disaster Mitigation Act of 2000 (DMA2K) and the 10-Step CRS Planning Process discussing the similarities of both programs and how they can work together to create a plan that will make grant funding opportunities available for your community and will help to maximize your community's credit in the CRS. This workshop will also focus on the latest information that must be included so that your community's plan meets the 5-year Update requirements for both DMA2K and CRS.
- 1:30 **California Levee Summit** (Closed Session)
- 2:00 **On-going one-on-one sessions on FEMA CRS Program**, David Arkens, ISO. During the conference this year, interested communities will be given an opportunity to learn more about FEMA's CRS Program. You may schedule a one-on-one session to learn how it applies to your community and discuss issues relevant to you and how you can save your residents money. Contact Dave Arkens, Insurance Services Office, Inc. at (541) 261-9186 or dmarkens@iso.com to reserve a time. Schedule your appointment during the following times: Tuesday 2-5pm, Wednesday 9am-noon, Thursday 9am-noon.
- 3:30 **HAZUS Users Group Meeting**
- 6:00 **WELCOME RECEPTION!** Located within walking distance from the Fairmont, 201 South Market Street. Explore over 240 hands-on and interactive exhibits involving innovation and discovery and divided among themed galleries, offer guests a truly memorable experience. Sponsored by: AECOM, Michael Baker, Jr., Inc., and HDR.

## WEDNESDAY, SEPTEMBER 9

- 7:30 CONTINENTAL BREAKFAST & EXHIBITS
- 8:00 Opening Remarks: **Kathleen Schaefer, Conference Chair, FEMA Region IX**  
Introduced by Iovanka Todt, Executive Director, Floodplain Management Association
- Welcome Address: **Mayor Chuck Reed, City of San Jose**  
Keynote Speaker: **Senator Mike Machado, Ret., Sacramento Advocates**
- Plenary: Legislation and Programs in Floodplain Management**  
*Moderator: Kathleen Schaefer, Conference Chair, FEMA Region IX*  
Colonel Janice Dombi, Commander, South Pacific Division, U.S. Army Corps of Engineers  
Sally Ziolkowski, Mitigation Division Director, FEMA Region IX  
Jay Norvell, Chief, Division of Environmental Analysis, Caltrans  
Ricardo Pineda, Chief, Floodplain Management Branch, California DWR

## WEDNESDAY, SEPTEMBER 9 (CONTINUED)

- 10:00 BREAK and EXHIBITS
- 10:30 **Financing Strategies in Floodplain Management**  
Moderator: Dave Chesterman, Deputy Operating Officer, Santa Clara Valley Water District  
*An in-depth discussion on solutions for funding local and regional projects*
- Mark Connelly, Manager, San Joaquin Flood Control & Water Conservation District  
Jill Bicknell, Santa Clara Valley Water District  
Pete Ghelfi, Director, Sacramento Area Flood Control Agency  
Katy Allen, Director, City of San Jose Public Works  
Naomi Duerr, Truckee River Project
- 10:30 **Cutting Edge Tools, Programs and Technologies**  
Moderator: Ricardo Pineda, Chief, Floodplain Management, California DWR  
*An overview of FEMA's RiskMap Program and the latest technical tools and programs in flood risk analysis*
- Jeff Sparrow, Michael Baker/FEMA Risk Map Program  
Scott McAfee, FEMA  
Chris Dunn, U.S. Army Corps of Engineers - HEC  
Justin Ferris, Hydrologist, California Water Science Center, USGS  
Eric Simmons, Regional Engineer, FEMA Region IX
- 10:30 **Partnering with California Native American Tribes – Past, Present, and Future**  
A presentation of flood management partnerships between local agencies and Tribal communities.
- 10:30 **Technical Session: Strategies in Flood Insurance Studies and Master Planning**  
Session Chair: Jeanne Ruefer, Accenture  
*A Holistic Approach to Master Planning for Watershed Floodplain Analyses/Mapping*, Travis Clark, Michael Baker, Inc.  
*Integration of Flood Insurance Study Quantitative Elements into the Digital Flood Insurance Rate Map Database*, Wen Chen, Ph.D., P.E., CFM, Senior Engineer, Michael Baker Jr., Inc.  
*MapMod Flood Insurance Study Management in the Post Preliminary Phase*, Jaspreet Randhawa, CFM, CDM  
*An Estimate of the U.S. Population Living in Coastal Flood Hazard Areas*, Kevin Coulton, P.E., CFM, AECOM  
*A Method For Creating A National Inventory Of Potential Flood Losses Based on DFIRM Data*, Shanna Michael, AECOM
- 10:30 **Technical Session: Water Quality Management and Monitoring**  
Session Chair: Kim Groenewold, Nevada Division of Water Resources  
*Clear Lake Mercury TMDL Monitoring*, Thomas Smythe, PE, Lake County Watershed Protection District  
*Design of Regional Urban Watershed Dry-Weather Flow Treatment System – Talbert Lake Diversion, Project*, Bruce M. Phillips, Senior Vice President, Pacific Advanced Civil Engineering, Inc.  
*Malibu's Integrated Runoff Management Project: Leaving a Water Quality Improvement Legacy*, Tom West, RMC Water and Environment, Jim Thorsen, City of Malibu, Steve Clary, RMC, and Ken Susilo, Geosyntec  
*Guadalupe River Watershed Model*, Lent, M.A., J.J. Oram, and L.J. McKee, Francisco Estuary Institute

## WEDNESDAY, SEPTEMBER 9 (CONTINUED)

- 10:30 **Technical Session: Sediment Transport Analysis and Management Strategies**  
Session Chair: Vince Geronimo, PWA  
*Integrating Sediment and Flow Management in an effort to Avoid Hydromodification Impacts – Centennial Phase One Development*, Ken Susilo, PE, D.WRE, CPSWQ, and Felicia Federico, D. Env., Geosyntec Consultants; Ross Barker, PE, Psomas; and, Ed Wallace, PE, Northwest Hydraulic Consultants  
*Investigating the Impacts of Dam Removal on Downstream Sedimentation and Flood Risk in Alameda Creek*, David Rupp, PhD, Hydrologist, DHI, Inc.  
*Sediment and Hydraulic Challenges in the City of Livermore*, Pamela G. Lung, P.E.,CFM, City of Livermore
- 12:00 ASSOCIATION LUNCHEON AND AWARDS. SPEAKER: Gary Bardini, Chief, Division of Flood Management, California DWR
- 2:00 **Financing Strategies and Proposition 218**  
Moderator: Mark Connelly, Manager, San Joaquin Flood Control and Water Conservation District and Kathleen Schaefer, FEMA. *Gathering community support for assessment districts and moving forward in a Proposition 218 world.*  
  
Dante John Nomellini, Attorney, Reclamation District 17  
Andrea Clark, Attorney, Downey Brand  
Jose Hermocillo, Senior Vice President,APCO Worldwide  
Larry Patterson, Director of Public Works, City of San Mateo
- 2:00 **In-Stream Controls as a Tool in Hydromodification Mitigation**  
Panel moderator: Andy Collison, PWA  
  
Michelle Mattson, U.S. Army Corps of Engineers  
Eric Berntsen, CA State Water Resources Control Board  
Ann Riley, Stream Restoration Advisor, San Francisco RWQCB  
Cindy Lin, U.S. EPA  
Jill Bicknell, Assistant Program Manager, EOA and Liang Lee, EOA
- 2:00 **Technical Session: Regulatory and Policy Issues in Floodplain Management**  
Session Chair: Iovanka Todt, Floodplain Management Association  
*Implementing the Puget Sound National Flood Insurance Program Biological Opinion: Implications for Change at the Local and National Level*, Dan Siemann, Senior Environmental Policy Specialist, National Wildlife Federation, Western Regional Center  
*Floodplain Paradigms: Terrestrial or Water Resource?* Jane O. Rowan, PWS, LEED AP  
*Evaluating the National Disaster Management Guidelines*, Kailash Gupta, University of Texas  
*Integrating Water Resource Sustainability - From Floodplains to Water Supply: Key Findings of the EWRI/ASCE/FMA 2009 Sustainability Symposium*, Robert Shibatani, CEO & Consulting Hydrologist, The SHIBATANI GROUP, Inc., Sacramento
- 2:00 **Technical Session: Levees - Design for Rehabilitation**  
Session Chair: Mike Nowlan, Wood Rodgers  
*Challenges of Modifying Federal Levee Systems by Local Interests*, Jeffrey E. Twitchell, PE, Engineer for Levee District No. 1 of Sutter County, Associate Engineer, Wood Rodgers  
*Designing for Levee Underseepage Mitigation*, Jonathan L. Kors, P.E., Wood Rodgers and John A. Bassett, P.E., Director of Engineering, Sacramento Area Flood Control Agency  
*The Buried Hazards Toolbox-What's Inside Your Levee?* Mara Johnson, Ph.D., Senior Scientist, Tremaine & Associates, Inc.  
*Meeting the Challenges in Improving Levees around the Natomas Basin*, Leslie F. Harder, Jr., Ph.D., P.E., GE, Peter J. Hradilek, Ph.D., P.E., GE, Christopher E. Krivanec, P.E., GE, Barry J. Meyer, PE, Blake Johnson, P.E., and John Bassett, P.E.

## WEDNESDAY, SEPTEMBER 9 (CONTINUED)

- 2:00 **Technical Session: Communication Strategies and Public Involvement**  
Session Chair: Lisa Messano, Michael Baker Jr., Inc.  
*Communication and Engagement in the Central Valley Flood Protection Planning Project*, Steve T Bradley, Chief, Central Valley Flood Planning Office, Dept. of Water Resources  
*Communicating Floodplain Preservation Values in Land Use Decisions*, David Mallory, P.E., CFM, and Bill DeGroot, P.E., Urban Drainage & Flood Control District  
*Gaining Support from the Private Sector*, Anthony P Iriti, President, Northwest Ohio Flood Mitigation Partnership  
*Creek & Watershed Maps of the Santa Clara Valley – Accurate and Accessible Information*, Janet M. Sowers, Ph. D., William Lettis & Associates, Inc.
- 2:00 **Technical Session: Geomorphology, Erosion and Scour Analysis I**  
Session Chair: Alex Yescas, PBS&J  
*Evaluating Scour Potential at Bridges Founded on Rock*, Jeffrey R. Keaton, F.ASCE, Ph.D., P.E., Senior Principal Engineering Geologist, MACTEC; Su K. Mishra, M.ASCE, Ph.D., P.E., Senior Hydraulic Engineer, Paul E. Clopper, M.ASCE, P.E., Senior Hydraulic Engineer and Peter F. Lagasse F. ASCE, Ph.D., P.E., Senior Vice President, Ayres Associates  
*Natural Stream Stability / Erosion Monitoring Program For Urbanizing Watersheds*, Bruce M. Phillips, Senior Vice President, Pacific Advanced Civil Engineering, Inc.
- 3:30 BREAK and EXHIBITS
- 4:00 **Characterizing and Communicating Risk**  
Panel Moderator: Ann Draper, Santa Clara Valley Water District  
*An overview of the latest challenges and opportunities in flood risk evaluation and communication.*
- Kathleen Schaefer, Regional Engineer, FEMA Region IX  
Stu Townsley, Flood Risk Program Manager, South Pacific Division, USACE  
Judy Soutiere, Flood Risk Program Manager, Sacramento District, USACE  
Johanna Fenton, Earthquake Program Manager, FEMA  
Ken Kirby, Advisor, FloodSAFE
- 4:00 **Flood Risk and Land Use Planning I: Federal and State Progress Implementing 2007 Flood Management Laws**  
Panel Moderator: Ken Leep, Cal EMA  
*A critical look at the implementation of the 2007 Flood Bills including statewide planning, mapping and General Plan updates.*
- Ricardo Pineda, California DWR  
Glenn McPherson, PBS&J  
Mitch Miller, Cal EMA  
Bill Croyle, California DWR  
Kathleen Van Velsor, Program Manager, Association of Bay Area Governments
- 4:00 **Advances in Hazard Assessment and Emergency Management**  
Moderator: Rich Davies, Western Disaster Center
- Ray Lenaburg, Risk Analysis Branch Chief, Mitigation Division, FEMA Region IX  
Steve Cowdin, Economist, California DWR  
Diane Vaughn, GIS Program Manager, CalEMA  
Jeff Brislaw, AMEC, Central Valley HAZUS Users Group

## WEDNESDAY, SEPTEMBER 9 (CONTINUED)

- 4:00 **HEC WORKSHOP:** "Integrated Modeling with HEC-HMS and HEC-RAS" by Bill Scharffenberg, Ph.D. and "Performing Floodplain Delineation in HEC-RAS" by Cameron Ackerman, P.E., D.WRE
- 4:00 **Technical Session: Levees - Maintenance and Certification**  
Session Chair: Steve Mahnke, Chief, Levee Evaluations Branch, Division of Flood Management, Department of Water Resources  
*Life Cycle Management of Levee Vegetation*, Chris Bowles, CBEC, Mick Klasson, Consultant to SAFCA, Gregg Ellis, ICF-Jones & Stokes, Timothy Washburn and Pete Ghelfi, Sacramento Area Flood Control Agency  
*Levee Burrows*, Sunny Williams, Santa Clara Valley Water District  
*Levee Certification for Non-Federal Levees – A Case Study*, Mike Fox, Chief, Water Resources Division, SBCFCD, MaryLou Mermilliod, Chief, Flood Hazard Review Section, SBCFCD, Yunjing (Vicky) Zhang, HDR Engineering, Inc., Mark Seits, HDR Eng., Inc.  
*Levee Certification – Life After the PAL*, Mike Fox, Chief, Water Resources Division, SBCFCD, MaryLou Mermilliod, Chief, Flood Hazard Review Section, SBCFCD, Mark Seits, HDR Engineering, Inc., and Yunjing (Vicky) Zhang, HDR Engineering, Inc.
- 4:00 **Technical Session: Multi-Objective Floodplain and Watershed Management I**  
Session Chair: Sara Agahi, County of San Diego  
*The 50 Year Plan: From Channels to Creeks*, Mitch Avalon, Deputy Chief Engineer, Contra Costa County Flood Control and Water Conservation District  
*Integrating Flood Management and Habitat Restoration in San Francisquito Creek*, Christie Beeman, Jeffrey Haltiner, Christian Nilsen and Matt Wickland – Philip Williams & Associates; Len Materman, Kevin Murray – San Francisquito Creek Joint Powers Authority  
*Innovative Opportunities and Challenges for Management of the Alameda Creek Flood Control, Fremont, California*, Lester J McKee, Sarah Pearce, and Kat Ridolfi, San Francisco Estuary Institute
- 4:00 **Technical Session: Geomorphology, Erosion and Scour Analysis II**  
Session Chair: James Howells, U.S. Army Corps of Engineers  
*Assessing Alternative Landscape Modifications in the Napa River Watershed*, Oram, J., Collins, J., McKee, L., Grossinger, R., Pearce, S., Williams, M., Hoenicke, R  
*Geomorphic Mapping Applied to Geotechnical Characterization of Holocene Sediments*, Stewart Tract, Sacramento-San-Joaquin Delta, Philip J. Stuecheli, CEG, ENGEIO Inc.  
*Ventura River at Foster Park - Embankment Protection and Restoration*, William O'Brien, PE, Engineer, Hawks & Associates and Jim Passanisi, Utility Manager, City of Ventura
- 5:30 **NETWORKING RECEPTION and EXHIBITS**

## THURSDAY, SEPTEMBER 10

- 7:30 CONTINENTAL BREAKFAST & EXHIBITS
- 8:00 **Urban and Non-Urban Levee Deaccreditation Plenary**  
Moderator: Ric Reinhardt, MBK Engineers. *A critical look at the impacts of levee deaccreditation in rural and urban areas*  
Keynote: Honorable James Gallagher, Supervisor, Sutter County  
  
*Panelists:*  
Rod Mayer, National Levee Safety Committee  
Bill Panos, City of Sacramento  
Kathleen Schaefer, Regional Engineer, FEMA Region IX

## THURSDAY, SEPTEMBER 10 (CONTINUED)

- 9:00 **Climate Change and Floodplain Management**  
Moderator: Jeanne Ruefer, Program Coordinator, Accenture. *Accounting for climate change effects in federal, state and local flood planning.*
- Representative, FEMA Risk Map Program  
Chris Dunn and James Howells, USACE Task Force on Climate Change  
Andrew Crabtree, Principal Planner, City of San Jose  
Tony Brunello, Deputy Secretary for Climate Change and Energy, California Natural Resources Agency  
Ken Kirby, FloodSAFE
- 9:00 **FEMA Grants programs update** – FMA, PDM, HMGP – plus state updates  
Moderator: Eric Simmons, Regional Engineer, FEMA Region IX
- David Kennard, HRA Branch Chief, FEMA  
Paul Ransom, Grants Program Manager, CalEMA  
Elizabeth Ashby, Nevada Hazard Mitigation Officer  
Kevin Richards, Hawaii Civil Defense (invited)
- 9:00 **Flood Risk and Land Use Planning II: Collaboration Efforts in Implementing California's 2007 Flood Legislation**  
Moderator: Deborah Kruse, ESA. *An overview of California laws that City and County community development agencies use to guide land use development, including development along streams and in flood areas. Panelists will present case studies highlighting successful collaboration between local land use agencies and flood management staff in implementing federal and state laws.*
- Ann Draper, Santa Clara Valley Water District  
Sergio Vargas, Ventura County Watershed Protection District  
Garth Gaylord, City of Roseville  
James Schaaf, Ph.D, P.E., Schaaf & Wheeler Consulting Civil Engineers
- 9:00 **Technical Session: Cutting Edge Tools in Floodplain Modeling I**  
Session Chair: Andy Collison, PWA  
*Modeling Dam Breach and Flood Inundation Mapping*, Michael Crenshaw, P.E., CFM, Anthony Henry, BEng, Ben Gouldby, BSc, HR Wallingford Software  
*Digital Terrain Modeling for Floodplain Modeling and Mapping*, Sam Crampton, Dewberry  
*Water Surface Profile Gradient (WSPG) Model Update*, Colby T. Manwaring, B.S., M.S. Civ. Eng., P. E., President, XP Software, Inc.; Dr. Iraj Nasser, Ph.D. Civ. Eng., Los Angeles County Dept. of Public Works, Water Resources Division  
*An Assessment of the Relative Risk of Failure and Flood Inundation from Dams in the United States*, Scott Edelman and Susan Phelps, AECOM
- 9:00 **Technical Session: Stream and Floodplain Restoration I**  
Session Chair: Chris Bowles, CBEC, Eco-Engineering  
*Historical Ecology Helps Design Natural Flood Protection Strategies*, Robin Grossinger and Ruth Askevold, Historical Ecology Program, San Francisco Estuary Institute  
*Restoring Historic Hydrologic Processes on a Fluvial Island at the Confluence of the McKenzie and Willamette Rivers, Oregon*, Jeremy Kobor, RG, Hydrologist, DHI, Inc.  
*Balancing Ecological and Hydraulic Objectives in Developed Floodplains*, Kevin MacKay and Steve Seville, PE. Jones & Stokes  
*A Systematic Approach to Creek Restoration Design: Comer Debris Basin Removal*, Liang Xu, Senior Engineer, Emily Zedler, Assistant Engineer, Liang Lee and Deputy Operating Officer, Santa Clara Valley Water District

## THURSDAY, SEPTEMBER 10 (CONTINUED)

- 9:00 **Technical Session: Floodway Vegetation Management**  
Session Chair: Pal Hegedus, RBF  
*Anchor Reinforced Vegetation System*, John Oldenburger III, P.E., Propex Inc.  
*Managing Floodway Conveyance with Vegetation: Large Flume Test Results of Four Flexible-Stemmed Woody Species Upon Hydraulic Roughness and Soil Erosion*, Stephan Lorenzato, California Department of Water Resources, and Tom Griggs, River Partners  
*Vegetation Management Techniques of the Sonoma County Stream Maintenance Program*, Keenan Foster, Botanist and Resource Manager and Jon Niehaus, Maintenance Manager, SCWA; Ken Schwarz, Consulting Hydrologist, Horizon Water and Environment  
*Balancing Flood Management and Resource Protection: The Sonoma County Stream Maintenance Program*, Jon Niehaus, Maintenance Manager and Michael Thompson, Engineering Supervisor, SCWA; Ken Schwarz, Consulting Hydrologist, Horizon Water and Environment
- 10:30 BREAK and EXHIBITS
- 11:00 **Army Corps Program for Floodplain Management**  
Moderator: Alicia Kirchner, USACE  
  
Clark Frentzen, USACE  
Pete Rabbon, Program Director, National Flood Risk Management Program, USACE  
Judy Soutiere, Flood Risk Program Manager, Sacramento District, USACE  
Representative, Los Angeles District, USACE  
Representative, San Francisco District, USACE
- 11:00 **Floodplain Restoration: Moving from Policy to Practice**  
Moderator: Betty Andrews, PWA. *Many policy directives are now encouraging the restoration of floodplains, both for resiliency and sustainability in flood risk reduction as well as critically-needed habitat enhancement. What are the impediments to actually implementing projects that achieve these goals? What are some of the strategies, initiatives, or policy changes that would dramatically improve the likelihood of such projects?*  
  
Historical/geomorphic perspective: Michael Bliss Singer, SAGES Lecturer in Physical Geography, School of Geography and Geosciences, University of St Andrews, UK; and Associate Researcher, Institute for Computational Earth System Science, University of California Santa Barbara  
Recent/present experience/policy perspective: Ellen Hanak, Public Policy Institute of California  
Why floodplain habitat is key to achieving ecosystem goals: John Cain, The Nature Conservancy  
Future Federal efforts: Kevin Knuuti, USACE, Sacramento District  
Future State efforts: Ken Kirby, FloodSAFE
- 11:00 **Technical Session: Climate Change and Flooding Analysis**  
Session Chair: Ken Leep, Cal EMA  
*Effects of Sea Level Rise on Storm Drain System Capacity and Flood Risk, Alameda, California: A Case Study*, M. Eliza McNulty & Dan Schaaf, Schaaf & Wheeler  
*Regional Surge and Wave Modeling of San Francisco Bay*, Dale Kerper, DHI Water & Environment, Inc., Julio Zyserman, DHI Water & Environment, Inc., Kathleen Schaefer, FEMA and Scott Lyle, Nolte Associates  
*Formulating an Engineering Response to the Effects Global Climate Change for Design of Hydraulic Structures and Flood Protection Works*, Eric D. Loucks Ph.D. P.E., AECOM



## THURSDAY, SEPTEMBER 10 (CONTINUED)

- 11:00      **Technical Session: Collaborative Partnerships, Innovative Funding and Cost Sharing**  
Session Chair: Maria Lorenzo-Lee, California DWR  
*Geologic Hazard Abatement Districts – An Innovative Financial Solution for Floodplain Management*, Jeffrey A. Adams, Ph.D., P.E., ENGEIO Incorporated  
*Institutional And Policy Challenges In The San Francisquito Creek Flood Management Program*, Len Materman, San Francisquito Creek Joint Powers Authority  
*Finding Funding in Tough Times: Successful Proposition 218 Assessment Balloting for Three Rivers Levee Improvement Authority in South Yuba County*, John W. Bliss, P.E., Vice President, and Thomas Brightbill, P.E. Engineer, SCI Consulting Group  
*Federal Stimulus Funds for Flood Maintenance and Restoration*, Mike Thompson, Deputy Chief Engineer, Sonoma County Water Authority
- 11:00      **Technical Session: Cutting Edge Tools in Floodplain Modeling II**  
Session Chair: David T. Williams, PBS&J  
*Floodplain Mapping Using Up-to-Date Vertical Control*, Marti Ikehara, State Geodetic Advisor for California, NOAA's National Geodetic Survey  
*Implementing Floodplain Modeling GIS Technology for Enhanced Detail 1-Dimensional Dam Break Models*, Sam Crampton, Dewberry  
*Automating Approximate Analysis for Floodplain Delineation*, Matthew L. McGlone, CDM  
*Modeling the Floodplain Resulting from the Removal of a Levee: Bridging a One-Dimensional Riverine and a Two-Dimensional Flood Routing Model with GIS*, Ben Tustison, MBK Engineers
- 11:00      **Technical Session: Floodplain and Reservoir Hydraulic Modeling**  
Session Chair: Eric Clyde, MWH Global, Inc.  
*Riverine Floodplain Modeling using One- and Two-Dimensional Hydraulic Models*, Thomas Molls, Ph.D., P.E., CFM and Brian A. Brown, P.E., CFM, David Ford Consulting Eng., Inc. and John Wiest, P.E., USACE, Sacramento District  
*Modeling of the Drop 2 Reservoir using HEC-RAS*, Douglas Blatchford, U.S. Bureau of Reclamation  
*Case Study – Sizing Regional Flood Control Detention Basins*, Bori Touray, Senior Supervising Engineer, Parsons Brinckerhoff
- 12:30      LUNCH on your own
- 2:00      **Levees – Looking to the Future**  
Moderator: Judy Soutiere, Flood Risk Program Manager, Sacramento District, USACE  
*An in-depth look at federal, state and local levee programs and anticipated levee policy.*
- Stu Townsley, Flood Risk Program Manager, South Pacific Division, USACE, Vegetation Roundtable Framework and Interagency Levee Task Force for Mid-West Region  
Ken Harrington/Levee Safety Program Officers, Operations and Maintenance  
Eric Simmons, Regional Engineer, FEMA Region IX  
Kathy Schaefer, Regional Engineer, FEMA Region IX  
Dusty Williams, General Manager, Riverside County Flood Control District  
Rod Mayer, California DWR
- 2:00      **Dam Safety and Flood Management**  
Moderator: Pal Hegedus, RBF. *Communicating hazards to downstream floodplain managers- maps, inundation studies, working with emergency managers regarding evacuation and other important issues.*
- Rob Mead, Cal EMA  
Rick Britzman, USACE  
James Demby, FEMA HQ Dam Safety Officer  
Ed Curtis, Regional Engineer, FEMA Region IX  
Robert Martinez, Nevada Dam Safety Program

## THURSDAY, SEPTEMBER 10 (CONTINUED)

- 2:00 **WORKSHOP:** DFIRM 101 and Risk Communication Roundtable, Cathleen Schaefer, Regional Engineer, FEMA Region IX and Eric Simmons, Regional Engineer, FEMA Region IX
- 2:00 **WORKSHOP:** Integrating Multiple Funding Sources: Grant Writing Success Elements, David Dickson, MIG
- 2:00 **Technical Session: Multi-Objective Floodplain and Watershed Management II**  
Session Chair: Dave Chesterman, Santa Clara Valley Water District  
*Floodplain and Watershed Management in the Napa Valley*, Karen Harnois, CFM, Senior Engineering Aide, City of Napa, Public Works Department, Julie Blue Lucido, P.E., Project Manager, Napa County Flood Control and Water Conservation District and A. Jake Gusman, P.E., Project Manager, WEST Consultants, Inc.  
*Calleguas Creek Integrated Watershed Protection Plan and Management Strategy - County Of Ventura*, Sergio Vargas, P.E., Deputy Director, Zia Hosseinipour, P.E., Engineering Manager, Tony Chen, P.E., Project Engineer, Ventura County Watershed Protection District; Kathleen Higgins, P.E., Principal Project Manager, and Jeff Friesen, P.E., Project Engineer, CH2M Hill  
*A Regional Approach to Protecting Floodplains & Communities – Tales from the Carson River Watershed*, Genie Azad, CFM, Carson Water Subconservancy District  
*The Permanente Creek Flood Protection Project Planning Process*, Afshin Rouhani, PE, Associate Civil Engineer, Santa Clara Valley Water District
- 2:00 **Technical Session: Hydromodification and Low Impact Development**  
Session Chair: Maria Angeles, City of San Jose  
*Contra Costa County LID Sizing Calculator*, Eric Mosolgo and Tony Dubin, Brown & Caldwell  
*The Benefit of Low Impact Development in High Volume Flood Control – Fact or Fiction?* Richard Lucera, PE, CFM, CPESC, RBF, Inc.  
*Water Sensitive Urban Design: An Integral Piece of Sustainable Systems Planning*, Yvana Kuhn, Environmental Scientist/Engineer, EDAW AECOM  
*A Comparison Of Hydromodification BMP Size Requirements in California and Washington Based on Flow Duration Control*, Felicia Federico, D.Env., Geosyntec Consultants
- 2:00 **Technical Session: Cutting Edge Tools and Technologies in Flood Hazard Planning**  
Session Chair: Susan Woolam, California DWR  
*Best Available Maps-State of California Floodplains*, Alex Yescas, P.E., CFM, Senior Water Resources Engineer, PBS&J and Ricardo Pineda, P.E., CFM, Chief, Floodplain Management Branch, California Department of Water Resources  
*Leveraging Emerging Geoweb Technologies in Floodplain Mapping, Outreach and Emergency Response*, Pascal AKL GISP, CFM, Michael Baker, Inc.  
*The StormSmart Coasts Network: Connecting Coastal Decision Makers to Resources and Each Other*, Wesley Shaw, Blue Urchin Consulting  
*Cost Effective Structure Data Collection Commercial and Residential Structures*, Jim DeAngelo, Michael Baker Jr.
- 3:30 BREAK and EXHIBITS
- 4:00 **Flood Safety and Legacy Towns**  
Moderators: Mark Connelly, San Joaquin Flood Control District and Kathy Schaefer, FEMA Region IX. *A discussion of the future of flood safety in towns with de-certified levees.*  
  
Eric Simmons, Regional Engineer, FEMA Region IX  
Butch Hodgkins, Member, Central Valley Flood Control Board  
Dave Peterson, Peterson Brustead, Inc.  
Lewis Bair, General Manager, Reclamation District 108  
Robert Martinez, State Dam Safety Program

## THURSDAY, SEPTEMBER 10 (CONTINUED)

- 4:00 **California Alluvial Fan Task Force (AFTF) Update**  
*This panel will provide an update on DWR's Alluvial Fan Task Force, a FEMA-funded Pre-Disaster Mitigation planning project comprised of stakeholders in Southern California aimed at addressing the challenges of future development projected on alluvial fans. Panelists will describe an Integrated Approach for Hazard and Resource Evaluation that balances the desire for new development on alluvial fans with the local concerns of public safety, loss prevention and sustaining the beneficial values provided by natural systems for future generations. Included is a Model Ordinance Governing Planning and Development on Alluvial Fans that cities and counties with alluvial fans located within their jurisdictions may consider for local adoption.*  
Moderator: Susan Lien Longville, AFTF Coordinator, CSU San Bernardino Water Resources Institute
- ◆ Mission, History and Outcomes - AFTF Chair Mark Stuart, DWR District Chief, Southern Division
  - ◆ Introduction to Integrated Approach - AFTF Project Managers Ricardo Pineda or Maria Lorenzo-Lee, DWR Floodplain Management Branch
  - ◆ Pre-project Screening Tools - AFTF Technical Consultant Jeremy Lancaster, California Geological Survey
  - ◆ Pre-project Sustainable Design Tools - Boykin Witherspoon, Cal Poly Center for GIS Research
  - ◆ Relationship of Pre-Screening Tools to FEMA Mapping and Hazard Protection by AFTF Member Ray Lenaburg, FEMA Region IX
  - ◆ Model Ordinance - AFTF Legal Counsel by Marc Bruner, Bingham McCutchen LLP
  - ◆ Next Steps, Integration with Flood Safe and IRWM Plans
- 4:00 **New Tools, Programs and Policies in Emergency Flood Response**  
Moderator: Ken Leep, Cal EMA
- Sonny Fong, California DWR  
Jack Ingraham, Regional Integration Branch Chief, National Preparedness Division, FEMA Region IX  
Jim Barnes, Technical Assistance Program Manager, Cal EMA  
Paige Caldwell, Emergency Operations Chief, U.S. Army Corps of Engineers  
Don Boland, California Utilities Emergency Association
- 4:00 **Technical Session: Stream and Floodplain Restoration II**  
Session Chair: Deborah Kruse, ESA  
*Engineering Perspective of Urbanized Stream Restoration Projects*, Liang Lee, Deputy Operating Officer, Liang Xu, Senior Engineer, and Emily Zedler, Assistant Engineer, Santa Clara Valley Water District  
*Quantitative Evaluation of Multiple Benefits: Using Vegetation Parameters and Biological Indices in Floodway Management*, Helen Swagerty, River Partners, Inc.  
*Bioengineering Design Methods Using Channel Shear Stress for Stream Restoration*, Justin S. Rogers, P.E., CFM, Water Resources Project Engineer, and Brian J. Doeing, P.E., CPESC, D.WRE, National Technical Advisor for Sediment Transport and Scour, HDR Eng., Inc.
- 4:00 **Special Session: New Developments in FEMA Floodplain Mapping Programs**  
Session Chair: Andrew Trelease, Clark County RFCF  
*Risk Map 101*, Jeff Sparrow & Mike Skowronek, BakerAECOM; Jeanne Ruefer, Accenture; others.  
*FEMA's Coordinated Needs Management Strategy*, Michael Bishop, Michael Baker, Inc.

## THURSDAY, SEPTEMBER 10 (CONTINUED)

- 4:00           **Technical Session: Flood Forecasting**  
Session Chair: Sterling Yong, USDA Natural Res. Cons. Serv.  
*The Forecast-Coordinated Operations Program*, Boone Lek, P.E., Chief, Reservoir Coordinated Operations Section, Department of Water Resources  
*A Real-Time Flood Forecasting and Warning System for Decision Support for San Diego County*, Ryan W. Kilgren, MS, EIT, Jeremy S. Kobor, MS, RG, Jacob K. Larsen MS, Michael Butts, PhD, Head of Innovation, Julio A. Zyserman, PhD, Principal Scientist - DHI Water & Environment; Rand Allan and Sara Agahi, County of San Diego Flood Control  
*Improving Calibration with Gage Adjusted Radar Rainfall for the Cache Creek Watershed*, Michael C. Nowlan, P.E., CFM and Ilse Gayl, OneRain Inc.  
*Flood Frequency Analysis for Five Streams in Bangladesh*, Sushanta Das Gupta, MSc Civil Engineering
- 6:30           NETWORKING DINNER and ENTERTAINMENT: The Dueling Pianos and Jazz Trio!

## FRIDAY, SEPTEMBER 11

- 7:30           CONTINENTAL BREAKFAST
- 8:00           **MEMBERSHIP MEETING AND BREAKFAST**  
Bring your Continental Breakfast and ideas to this important Annual Membership Meeting!
- 8:30           CFM Exam
- 8:30           **WORKSHOP: Dams & Floodplain Management**, James E. Demby, Jr., PE, Program Manager, FEMA National Dam Safety Program; Edward A. Thomas Esq., Michael Baker Jr., Inc., Edward M. Curtis, PE, CFM, FEMA Region 9 (4 hours)
- 9:00           **FIELD TRIP:** Three sites will be visited on this bus tour. Two of the sites are City of San Jose large scale park projects located within San Jose that incorporate storm water detention function and green building practice. The third site is a multi-objective flood protection, agricultural conservation and environmental enhancement project of the Santa Clara Valley Water District, located within a 9,000 acre floodplain of the Pajaro River in southern Santa Clara County. Returning at 1:00 p.m. with lunch stop.
- 9:00           **Policies and Initiatives Affecting Coastal Floodplains**  
Moderator: Bob Battalio, PWA. *Coastal floodplain management is affected by the perception of increased risks, along with multiple jurisdictions and changing guidance: The Coastal Floodplains Panel will address contemporary coastal floodplain management policies and recent initiatives pertinent to the San Francisco Bay and the Pacific coast floodplains.*
- Ed Curtis, Regional Engineer, FEMA Region IX  
James Howells, USACE San Francisco  
Steve Ritchie, Cal State Coastal Conservancy  
Steve Goldbeck, BCDC  
Lesley Ewing, Coastal Commission  
Rohin Saleh, Supervising Civil Engineer, Watershed Planning, Alameda County Flood Control District, Bay Area Floodplain Managers Association  
James Goltz, Cal EMA – Tsunami Program

## FRIDAY, SEPTEMBER 11 (CONTINUED)

- 9:00 **Technical Session: Levees - Design, Analysis and Mapping I**  
Session Chair: Mark Seits, HDR  
*Setback Levee Design in an Urban Setting - Use of a Setback Levee within the City Limits of West Sacramento to Solve Levee Erosion Threat*, Thomas W. Smith, PE, GE, Vice President for Water Resources in California, Ayres Associates Inc. and Michael Bessette, PE, Flood Protection Manager, City of West Sacramento  
*The Desirability of Setback Levees and Challenges Related to Their Planning and Implementation*, Bishop, D. C., EDAW, Inc.  
*Smith Canal Closure Device*, Barry O'Regan, P.E., Vice President, Peterson Brustad Inc., Roger Churchwell, P.E., CFM, Deputy Executive Director, San Joaquin Area Flood Control Agency
- 9:00 **Product Showcase Session: Cutting Edge Products and Technologies**  
Session Chair: Thomas Plummer, Civil Solutions  
*Flood Control from the Air*, David A. Webb, CP, Senior Regional Sales Manager, Fugro Horizons  
*Latitude and Longitude Marker Geocoded Map Layering*, Fredrick Broad, L Street Software, Inc.  
*Revolutionary Flood Control*, Lou Waters, Paul Dishman, Kyle Raymond, FloodBreak  
*Levee Replacement Program*, Frank L. Johnson, MegaMold Technology
- 9:00 **Technical Session: Hydrologic Modeling Applications**  
Session Chair: Tom Smythe, Lake County Flood Control  
*Hydrologic Analysis for a Hyper-Arid Region in the Middle East*, Brian Murphy, PE, PH, CFM, Water Resources Engineer and Ted Johnson, PE, Senior Water Resources Eng., CDM  
*Urban Hydrology – Oversimplification Can Be Expensive*, Rohin Saleh P.E., Michael Nowlan, P.E. CFM, Cheng Soo, P.E. CFM, Shyamal Chowdhury, PhD, CFM, Dan Matthies P.E., CFM, Wood Rodgers  
*Overview of products and uses of the Central Valley Flood Hydrology Study*, John High, US Army Corps of Engineers, Mitch Russo, PE, CA Department of Water Resources, Nathan Pingel, P.E., David Ford Consulting Engineers, Inc.  
*Setting the baseline: Central Valley Flood Hydrology Study*, John High, US Army Corps of Engineers, Mitch Russo, P.E., CA Department of Water Resources, Nathan Pingel, P.E., David Ford Consulting Engineers, Inc.
- 9:00 Alluvial Fan Task Force Interactive Website Demonstration. This on-line planning tool allows a user to select a proposed development site in Southern California and add hazard and resource map layers to perform a pre-project evaluation. The purpose of the evaluation is for stakeholders to consider for sustainable design strategies that may be appropriate for proposed site early in the land-use process before detailed plans are developed. Boykin Witherspoon, Technical Consultant to Alluvial Fan Task Force Director, Cal Poly Center for GIS Research.
- 10:30 BREAK
- 11:00 **Technical Session: Levees - Design, Analysis and Mapping II**  
Session Chair: Ricardo Pineda, California DWR  
*Refinements to Levee Analyses with 2-D Modeling*, Guillermo Simon, P.E., Michael DelCharco, P.E., Michael Kabling, Ph.D., P.E., Taylor Engineering, Inc.  
*2-D Dambreak Modeling is Easy – Dambreak Mapping Policy is Hard - Developing FEMA Floodplain Maps Next to Uncertified Levees*, Michael DelCharco, P.E., Guillermo Simon, P.E., Michael Kabling, Ph.D., P.E., Taylor Engineering, Inc.  
*Two- Dimensional Hydraulic Modeling for Levee Systems*, Shyamal Chowdhury, Ph.D., CFM, Jeffrey Twitchell, P.E., Jennifer Buchanan, Wood Rodgers  
*A Case Study - FEMA Levee Hydraulic Certification: Deterministic (3 Feet of Freeboard) Versus Risk-Based Analysis (90% Assurance)*, Joseph Countryman and Ben Tustison, MBK Engineers

## FRIDAY, SEPTEMBER 11 (CONTINUED)

11:00

### **Technical Session: Alluvial Fan Analysis and Technical Guidance**

Session Chair: Marty Teal, WEST Consultants

*Low Sediment Supply (Eroding) Alluvial Fans*, Gary E. Freeman, PhD, PE, JD, D.WRE, River Research & Design, Inc.

*Alluvial Fan Floodplain Mapping: A FLO-2D Case Study in East Ojai, Ventura County, California*, Vincent Su, Ph.D., Ventura County Watershed Protection District

*Alluvial Fan Flood & Debris Flow Hazards: An Engineering Geologic Approach to Preliminary Site Assessment*, Jeremy T. Lancaster, Thomas E. Spittler, William R. Short, California Geological Survey

*Updating the Piedmont Flood Hazard Assessment Manual*, Jonathan Fuller, Principal, JE Fuller

*Alluvial Fan Analysis for White Tank Mountain Fans 1 and 2*, Jonathan Fuller, Principal, JE Fuller

11:00

### **Technical Session: Innovative Approaches in Floodplain Mapping and Modeling**

Session Chair: Judy Soutiere, Flood Risk Program Manager, Sacramento District, USACE  
*Floodplain Mapping for Lynde Creek Watershed, a Canadian Approach*, Freddy Baron, AE-COM Canada

*Application of the USACE Ecosystems Function Model - Central Valley Watershed*, Chris Campbell, CBEC, Ron Unger, EDAW-AECOM, Summer Christensen, DWR Stormwater Quality Section, Sacramento County

*Innovative Mapping Approach for City of Petaluma*, David S. Smith, P.E., CFM, D.WRE, Kurt S. Baron, Darren J. Bertrand, WEST Consultants

*Flood Modeling Using Hazus In Contra Costa County - A Hazard Mitigation Planning Perspective*, Chris Hansen, GIS Manager, Rob Flaner, CFM, Senior Planner, Ed Whitford, Senior GIS Analyst, Tetra Tech

## 2009 FLOODPLAIN MANAGEMENT ASSOCIATION AWARDS

### **Floodplain Manager of the Year**

Mark Cocke, P.E., CFM, City of Woodland, California

### **Award for Excellence**

Jon Niehaus, Sonoma Water Agency Stream Maintenance Program

### **Hogg-Owen Award for Meritorious Achievement in Floodplain Management**

Susan Longville, Water Resource Institute of California State Univ. San Bernardino

### **Karl Mohr Distinguished Service Award**

Alex Hildebrand, South Delta Water Agency

### **Andy Lee Award for Extraordinary Public Service**

George Qualley, P.E., Ret. California Dept of Water Resources

### **Media Award**

Wai Halana Hawaii Flood News

### **Goddard Award for Outstanding Contribution to the FMA Newsletter**

Kathleen Schaefer, P.E., CFM, FEMA Region IX