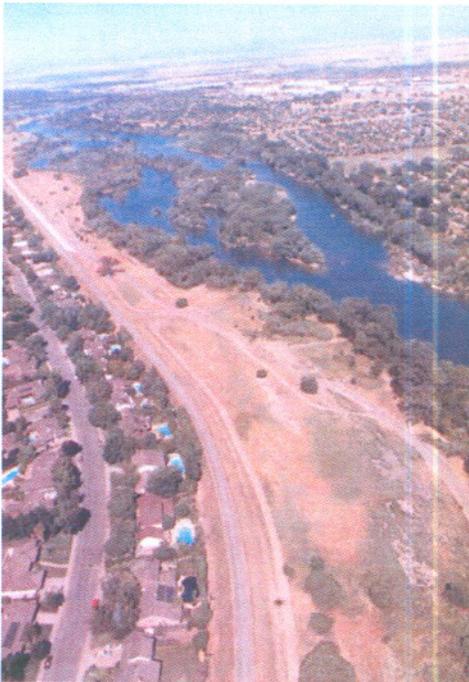




US Army Corps
of Engineers ®

Please join us for **“The Vegetation Challenge: A scientific and engineering examination of managing vegetation along California’s Central Valley levees that protect urban and rural areas from devastating floods.”** This symposium will be held August 28-29, 2007 in Sacramento, California.

The U.S. Army Corps of Engineers (Corps) has circulated a draft white paper regarding maintenance standards for vegetation on levees. Proposals contained in the white paper would require removal of trees and shrubs along the waterside and landside of Corps program levees nationwide, including 1600 miles of Central Valley levees, to be in compliance with existing standards. The Sacramento Area Flood Control Agency (SAFCA), the Corps, the California Department of Water Resources and the State of California Reclamation Board are working with other interested agencies to host a symposium to foster discussion of the challenges of managing vegetation along the levees of California’s Central Valley. The symposium will bring together distinguished scholars, engineers, and policy makers at the federal, state and local levels to examine the science, review on-the-ground local case studies and discuss policy issues related to this topic.



When: August 28-29, 2007 from 8:00 a.m. to 5:00 p.m.

Where: Sacramento Convention Center, 1400 J Street, Sacramento, CA

Cost: \$75 per day (includes continental breakfast and lunch) through August 20, 2007 and \$100 after August 20, 2007 (if space is available).

Registration: To register please go to www.safca.org click on link to Levee Vegetation Symposium August 28-29.

Questions: For questions regarding registration or logistics contact Lizette Crosbie with SAFCA at (916) 874-7606 or crosbiel@saccounty.net. For information regarding the agenda contact Peter Buck with SAFCA at buckp@saccounty.net.

DRAFT AGENDA

August 28, 2007: Speakers will contextualize the issues and focus on science regarding vegetation on levees, including:

- Guidance contained in the U.S. Army Corps of Engineers' (Corps) recent white paper and the implications for vegetation on levees.
- Lessons learned about vegetation on levees from past floods and flood fighting, including New Orleans, Missouri River, and California historic floods.
- Woody vegetation on earthen dams and relationship to levees
- Geotechnical stability, levee seepage and piping.
- Role of vegetation in bank stability and revetments.
- Root architecture (where and how do roots grow), root response to soil conditions and river hydrology.
- Tree windthrow and contributing factors.
- Vegetation effects on river hydraulics, floodway conveyance and velocity response.
- Near-bank erosion, erosion around trees, effects of vegetation-free channels next to levees, wind wave/boat wake effect.

August 29: Morning Session will focus on local Central Valley conditions:

- What the Central Valley flood protection system looks like and how it evolved.
- A practical look at implementing the Corps guidelines: two case studies -- Army Corps of Engineers Sacramento District pilot study, and SAFCA / Northwest Hydraulics Consultants study of Sacramento's Natomas and Pocket-area levees.

August 29: Afternoon Session - panel discussions on the following topics:

- Applying science to vegetation management solutions
- Relative risks, costs, and benefits of levee safety improvements / vegetation management practices
- Implications for policy - What is the vision for the future and how do we get there?

Technical speakers and panelists confirmed include:

Dr. Alison M. Berry, Professor, Univ. CA. Davis, Horticulture and Plant Sciences
Stein M. Buer, Executive Director, Sacramento Area Flood Control Agency
Richard Burnett, Flood Fight expert, CA Dept. of Water Resources
Steve P. Chainey, Senior Ecologist, EDAW, Sacramento
Joe D. Countryman, PE Principal, MBK Engineers, Sacramento
Dr. Joe J. DeVries, PE, Ford Engineering, Sacramento
Dr. John P. Dwyer, Associate Prof Forestry, University of Missouri
Dr. Craig Fischenich, PE, Research Civil Engineer, US Army Corps of Engineers, Engineering Research & Dev. Ctr.
Dr. Donald H. Gray, Geotechnical Engineer, Emeritus Professor, University of Michigan

Thomas R. Goring, PE, Executive Director, Water Forum, Sacramento
Eric C. Halpin, PE, Special Asst. for Dam and Levee Safety, US Army Corps of Engineers
Dr. Leslie F. Harder, Deputy Director, CA Dept. of Water Resources
Mike Hardesty, President, CA Central Valley Flood Control Association
Andy Harkness, Risk Assessment Team Lead, US Army Corps of Engineers
Edward J. Hecker, Chief of Homeland Security, US Army Corps of Engineers
Tracy Hendren, PE, Levee Safety Program Manager, US Army Corps of Engineers
F. I. Butch Hodgkins, PE, Board Member, State of California Reclamation Board
Dr. Martin W. McCann, PE, National Dam Safety Program, Stanford University
Dr. Chris J. Peterson, Assoc. Professor, Dept. of Plant Biology, Univ. of Georgia
David A. Pezza, PE, Chief, Civil Works Branch, Engineering & Construction
Community of Practice, US Army Corps of Engineers
Maria Rea, National Marine Fisheries Service, Sacramento Office Supervisor
Ken M. Rood, PE, Northwest Hydraulics Consultants, Sacramento
Scott L. Shapiro, Partner, Downey Brand LLP, Attorneys, Sacramento
Dr. Douglas J. Sherman, Prof & Dept. Head (Geography), Texas A & M University.
Dr. F. Douglas Shields, PE, Research Hydraulic Engineer, USDA National
Sedimentation Lab.
Clara Spoorenberg, MSc, Geotechnical Specialist, DHV Consultants BV, the
Netherlands
Steve L. Stockton, PE, Deputy Director of Civil Works, US Army Corps of
Engineers
Ron Stork, Sr Policy Analyst, Friends of the River, Sacramento
Keith E. Swanson, PE, Chief, Flood Management, CA Dept. of Water Resources
Dr. Dirk H. Van Vuren, Prof. & Chair, Univ. CA. Davis, Wildlife, Fish, and
Conservation Biology
Edward E. Wallace, PE, Northwest Hydraulics Consultants, Sacramento
Timothy N. Washburn, Agency Counsel, Sacramento Area Flood Control Agency

Technical speakers and panelists invited include:

California Department of Fish and Game representative TBD
Dr. Bruce A. Tschantz, Senior Research Associate and Emeritus Professor,
University of Tennessee
U.S. Fish and Wildlife Service representative TBD
European Speaker – Bavaria or Saxony – role of woody vegetation in flood
management - TBD
New Orleans levee experience – role of woody vegetation in flood
management - TBD

Sponsored by: The Sacramento Area Flood Control Agency, the U.S. Army
Corps of Engineers, California Department of Water Resources and the State
of California Reclamation Board.