

AGENDA

TUESDAY, 28 AUGUST 2007

Morning Theme: *What is the issue, and why is it important?* (3rd floor, Ballroom)

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| 7:00 am - 8:00 am | Registration and Continental Breakfast (3rd floor, East Lobby) |
| 8:00 am - 8:30 am | Moderator Remarks and Opening Speaker Introductions:
Dr. Emir Macari - Dean of Engineering and Computer Science, California State University, Sacramento

Welcome: Mayor Heather Fargo

Corps Perspective: Steve Stockton , Deputy Director of Civil Works, US Army Corps of Engineers

California Perspective: Dr. Les Harder , Deputy Director, CA Department of Water Resources

Local Perspective: Stein Buer , Executive Director, Sacramento Area Flood Control Agency |
| 8:30 am – 8:55 am | David Pezza , U.S. Army Corps of Engineers
<u>Topic: Corps' new draft 'White Paper' on levee vegetation management guidelines and driving factors</u> |
| 8:55 am – 9:15 am | Keith Swanson , Acting Chief, CA Department of Water Resources, Flood Management
<u>Topic: Overview of compliance issues with draft 'White Paper' guidelines on vegetation management.</u> |
| 9:15 am – 9:55 am | Bill Bouley , U.S. Bureau of Reclamation
<u>Topic: FEMA 534. Tech. Manual for Dam Owners - Impacts of Plants on Earthen Dams</u> |
| 9:55 am – 10:15 am | BREAK |
| 10:15 am – 10:45 am | Dr. Alison Berry , Professor, UC Davis Horticulture & Plant Sciences
<u>Topic: Root architecture, root response to soil conditions, levees & river hydrology</u> |
| 10:45 am – 11:25 am | Dr. Donald Gray , Professor, University of Michigan
<u>Topic: Geotechnical stability, levee seepage & piping and the effects of woody vegetation</u> |
| 11:25 am – 11:45 am | Dr. Maureen Corcoran , RPG, Engineering Research & Dev. Center, U.S. Army Corps of Engineers
<u>Topic: Literature review of vegetation in flood control</u> |
| 11:45 am – 12:05 pm | Dr. Dirk Van Vuren , Professor, UC Davis, Dept. Chair, Wildlife, Fish & Conservation Biology
<u>Topic: Ground squirrel and other mammal relationships/interactions with vegetation on levees</u> |
| 12:05 pm – 1:00 pm | LUNCH (Exhibit Hall B) |

TUESDAY, 28 AUGUST 2007

Early Afternoon Theme: *What is the issue, and why is it important?* (3rd floor, Ballroom)

- 1:00 pm – 1:40 pm **Dr. Douglas Shields**, USDA National Sedimentation Laboratory
Topic: Role of vegetation in bank stability & revetments
- 1:40 pm – 2:10 pm **Dr. Chris Peterson**, Professor, University of Georgia
Topic: Tree windthrow & contributing factors
- 2:10 pm – 2:30 pm **Dr. Johannes DeVries**, David Ford Consulting Engineers
Topic: Vegetation effects on river hydraulics, floodway conveyance & velocity response
- 2:30 pm – 3:00 pm **Dr. Douglas Sherman**, Professor, Texas A & M University
Topic: Delta levee bank erosion, seasonal levee/bank changes, effects of wind waves and boat wakes.
- 3:00 pm – 3:20 pm **BREAK**

Late Afternoon Theme: *What have we learned from past experience and scientific research?*

- 3:20 pm – 3:40 pm **Michael Stout**, New Orleans District, US Army Corps of Engineers
Topic: New Orleans; Current vegetation removal activities, driving factors and technical basis.
- 3:40 pm – 4:00 pm **Clara Spoorenberg**, DHV Consultancy
Topic: Dutch experience – Scientific basis for Dutch levee vegetation policy.
- 4:00 pm – 4:40 pm **Dr. Ronald Haselsteiner**, RMD-Consult
Topic: German experience – Role of woody vegetation on dykes in Bavaria
- 4:40 pm – 5:20 pm **Dr. John Dwyer**, Professor, University of Missouri
Topic: Missouri River 1993 - Woody vegetation on levees & woody corridors
- 5:30 pm – 7:30 pm **EVENING RECEPTION (3rd Floor, East Lobby)**

Sponsored by

- EcoSystems Restoration Associates
- EDAW
- HDR
- Jones and Stokes
- Kleinfelder
- MBK Engineers
- Mead & Hunt
- Northwest Hydraulics
- PB Americas
- Psomas
- Wood Rodgers

WEDNESDAY, 29 AUGUST 2007

Early Morning Theme: *Regional perspective on levee conditions, risk factors, and consequences of implementing Corps' vegetation guidance & levee certification standards.* (3rd floor, Ballroom)

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| 7:00 am - 8:00 am | Registration and Continental Breakfast (3rd floor, East Lobby) |
| 8:00 am - 8:05 am | Welcome and Purpose of the Day
Dr. Emir Macari , Dean of Engineering and Computer Science, California State University, Sacramento |
| 8:05 am – 8:35 am | Joe Countryman , Principal, MBK Engineers
<u>Topic: Origins and state of Central Valley Flood Control Project</u>
Steve Chainey , Senior Ecologist, EDAW
<u>Topic: Natural history and state of Central Valley river systems</u> |
| 8:35 am – 8:55 am | Rick Burnett , Flood Fight expert, CA Department of Water Resources
<u>Topic: California experience - flood fighting, levee inspection & repair</u> |
| 8:55 am – 9:20 am | Meegan Nagy , PE, U.S. Army Corps of Engineers
<u>Topic: US Army Corps Sacramento District - Lower American River levee section pilot study results</u> |
| 9:20 am – 10:00 am | Ed Wallace and Ken Rodd , PE's, Northwest Hydraulic Consultants
<u>Topic: Overview of Sacramento River & levees in metropolitan area. Sacramento Area Flood Control Agency's study of Sacramento region levee vegetation & levee conditions – survey results, risk factors and issues for Corps' vegetation guidance</u> |
| 10:00 am – 10:20 am | BREAK |

Panel Discussions Theme: *Policy solutions based on applied engineering and science-a practical vision for the future and those living behind the levee. Costs vs benefits, multi-use values, and appropriate standards for vegetation removal along river levees.* (3rd floor, Ballroom)

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| 10:20 am – 12:20 pm | Panel: <u>Applying the engineering and science to solutions.</u> <ul style="list-style-type: none">• Tom Gohring (Water Forum): Moderator• Dr. Alison M. Berry (University of California, Davis)• Bill Bouley (U.S. Bureau of Reclamation)• Dr. Maureen K. Corcoran (US Army Corps of Engineers)• Dr. John P. Dwyer (University of Missouri)• Dr. Donald H. Gray (University of Michigan)• Dr. Ronald Haselsteiner (RMD-Consult)• Dr. Chris J. Peterson (University of Georgia)• Dr. Douglas J. Sherman (Texas A&M University)• Dr. F. Douglas Shields (USDA National Sedimentation Lab) |
| 12:20 pm – 1:15 pm | LUNCH (Exhibit Hall B) |

WEDNESDAY, 29 AUGUST 2007

Panel Discussions Theme: *Policy solutions based on applied engineering and science-a practical vision for the future and those living behind the levee. Costs vs benefits, multi-use values, and appropriate standards for vegetation removal along river levees.* (3rd floor, Ballroom)

1:15 am – 2:55 pm

Panel: Risk & uncertainty/factors of safety/costs/benefits of implementing white paper

- Dr. Ramzi Mahmood (California State University, Sacramento): Moderator
- Stein Buer (Sacramento Area Flood Control Agency)
- Scott Flint (CA Department of Fish and Game)
- Dr. Les Harder (CA Department of Water Resources)
- Andy Harkness (US Army Corps of Engineers)
- Tracy Hendren (US Army Corps of Engineers)
- Mike Hoover (US Fish and Wildlife Service)
- Dr. Martin McCann (Stanford University)

2:55 pm – 3:15 pm

BREAK

3:15 pm – 4:55 pm

Panel discussion: Where do we go from here? Vision of the ultimate goal - what are critical needs? What policies would be appropriate, and what flexibility is appropriate for policy implementation and consequences?

- Dr. Emir Macari (California State University, Sacramento): Moderator
- Michael Hardesty (CA Central Valley Flood Control Association)
- Ed Hecker (US Army Corps of Engineers)
- Butch Hodgkins (State of California Reclamation Board)
- Maria Rea (NOAA Fisheries)
- Ron Stork (Friends of the River)
- Keith Swanson (CA Dept. of Water Resources)
- Tim Washburn (Sacramento Area Flood Control Agency)

4:55 pm - 5:10 pm

Closing Thoughts

Stein Buer, Sacramento Area Flood Control Agency

Topic: Local Perspective

Dr. Les Harder, CA Department of Water Resources

Topic: California Perspective

Steve Stockton, US Army Corps of Engineers

Topic: US Army Corps of Engineers Perspective

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Confirmed speakers include:

1. Dr. Alison M. Berry, Professor, Univ. CA. Davis, Horticulture and Plant Sciences
2. Bill Bouley, U.S. Bureau of Reclamation
3. Stein M. Buer, PE, Executive Director, Sacramento Area Flood Control Agency
4. Richard Burnett, Flood Fight expert, CA Dept. of Water Resources
5. Steve P. Chainey, Senior Ecologist, EDAW, Sacramento
6. Dr. Maureen K. Corcoran, Reg. Prof Geologist, Engineering Research & Development Center, US Army Corps of Engineers
7. Joe D. Countryman, PE Principal, MBK Engineers, Sacramento
8. Dr. Johannes DeVries, PE, David Ford Consulting Engineers, Sacramento
9. Dr. John P. Dwyer, Associate Prof Forestry, University of Missouri
10. Mayor Heather Fargo, City of Sacramento
11. Scott Flint, Environmental Program Manager for Environmental Review and Permitting, CA Dept. of Fish and Game
12. Thomas R. Gohring, PE, Executive Director, Water Forum, Sacramento
13. Dr. Donald H. Gray, Geotechnical Engineer, Emeritus Professor, University of Michigan
14. Dr. Leslie F. Harder, PE, Deputy Director, CA Dept. of Water Resources
15. T. Michael Hardesty, President, CA Central Valley Flood Control Association
16. Andy Harkness, PE, Risk Assessment Team Lead, US Army Corps of Engineers
17. Dr. Ronald Haselsteiner, PE, RMD-Consult
18. Edward J. Hecker, Chief of Homeland Security, US Army Corps of Engineers
19. Tracy L. Hendren, PE, Levee Safety Program Manager, US Army Corps of Engineers
20. F. I. (Butch) Hodgkins, PE, Board Member, State of California Reclamation Board
21. Michael Hoover, U.S. Fish and Wildlife Service, Sacramento Field Office
22. Dr. Emir Macari, PE, Dean and Professor, College of Engineering and Computer Science California State University, Sacramento
23. Dr. Ramzi Mahmood, PE, Chair, Department of Civil Engineering, California State University, Sacramento
24. Dr. Martin W. McCann Jr, PE, National Dam Safety Program, Stanford University
25. Meegan G. Nagy, PE, Operations Technical Section, Sacramento District, US Army Corps of Engineers
26. Dr. Chris J. Peterson, Assoc. Professor, Dept. of Plant Biology, University of Georgia
27. David A. Pezza, PE, Chief, Civil Works Branch, Engineering & Construction Community of Practice, US Army Corps of Engineers
28. Maria Rea, National Marine Fisheries Service, Sacramento Office Supervisor
29. Ken M. Rood, PE, Northwest Hydraulics Consultants, Sacramento
30. Dr. Douglas J. Sherman, Professor & Department Head (Geography), Texas A & M University.
31. Dr. F. Douglas Shields, PE, Research Hydraulic Engineer, USDA National Sedimentation Lab.
32. Clara Spooenberg, MSc, Geotechnical Specialist, DHV Consultancy BV
33. Steve L. Stockton, PE, Deputy Director of Civil Works, Safety Officer for Dams & Levees, US Army Corps of Engineers
34. Ron Stork, Senior Policy Advocate, Friends of the River, Sacramento
35. Michael E. Stout, New Orleans District, US Army Corps of Engineers
36. Keith E. Swanson, PE, Chief, Flood Management, CA Dept. of Water Resources
37. Dr. Dirk H. Van Vuren, Prof. & Chair, Univ. CA. Davis, Wildlife, Fish, and Conservation Biology
38. Edward E. Wallace, PE, Northwest Hydraulics Consultants, Sacramento
39. Timothy N. Washburn, Agency Counsel, Sacramento Area Flood Control Agency