

Symposium Outline

Episodic Stream Channels: Imperatives for Assessment and Environmental Planning in California

8-10 November 2010

Costa Mesa, California (field trip to San Bernardino County)

Presented by: University of California Berkeley, California Dept. of Fish and Game, Southern California Coastal Water Research Project, and the California State Water Control Board Training Academy.

Organizing Committee: Matt Kondolf, Kris Vyverberg, Eric Stein

Symposium Objectives: Mapping, assessment and management of episodic channels present unique challenges due to their variable nature and the fact that most assessment tools have been developed for more humid systems. This symposium explores the physical processes, ecological adaptations, and management/conservations challenges of episodic channels in California. While most of the examples presented are from the state's drylands, the symposium also addresses such processes occurring on episodic channels in less-arid parts of Mediterranean-climate California (such as Napa Valley), notably alluvial fan channels, which share many characteristics of dryland streams.

Agenda:

Day 1

9:00 – 10:00 – Overview of Episodic Stream Channels (moderator: Eric Stein)

- a. Introduction and workshop goals – Eric Stein, Matt Kondolf, and Kris Vyverberg
- b. Welcome – Ed Pert, Regional Manager, Department of Fish and Game, South Coast Region
- c. [Keynote: Physical and ecological processes in episodic channels](#) – Jonathan Friedman

10:00 – 10:20 – Break

10:20 – 11:45 – Geomorphic Processes and Forms (moderator: Eric Stein)

- d. [Episodic channel hydrology: Long periods of boredom, brief moments of terror](#) – Matt Kondolf
- e. [Episodic river channel form](#) – Derek Booth
- f. [Sediment supply and the upland stream connection](#) – Brian Bledsoe
- g. [Alluvial fans: unique forms and stream process](#) – Jeremy Lancaster

12:00 – 12:30 Panel Discussion: Friedman, Kondolf, Booth, Bledsoe, and Lancaster

12:30 – 1:30 – Lunch

1:30 – 3:00 – Ecology of Episodic Channels (moderator: Betty Fetcher)

- h. [Ecological and hydrological significance of episodic streams](#) – Lainie Levick
- i. [Development Pressure of the dryland environment - Ecological implications](#) – Sophie Parker, TNC
- j. [South of the Spotted Owl: Recurrence, recharge, restoration and resilience](#) – Barry Hecht
- k. [Intermittent alluvial fan channels in the California wine country](#) – Laurel Marcus

3:00 – 3:30 – Panel Discussion: Levick, Parker, Hecht, and Marcus

3:30 – Wrap up of Day 1 and Preview of Day Two

OPTIONAL – Dinner or networking mixer

Day 2

9:00 – 9:15 – Good Morning

- a. Recap of Day 1 and Goals for Day 2
- b. Linger questions, comments, concerns, or discussion items

9:15 – 10:15 – Management Implications (moderator: Eric Berntsen)

- c. [Development Pressure on the dryland environment - Regulatory and policy implications](#) – Bill Christian
- d. [Implications of urbanization on alluvial fan](#) – Tom Spittler
- e. [Large-scale renewable energy project development](#) – Andy Collison
- f. [Recognition of conservation and management challenges: a first step](#) – Kris Vyverberg

10:15 – 10:45 – Panel discussion: Christian, Vyverberg, Spittler, and Collison

10:45 – 11:00 – Break

11:00 – 12:30 – Challenges of Mapping and Assessment (moderator: Chris Solek)

- g. [Hydrologic assessment tools for use in episodic channels](#) – Jeremy Lancaster
- h. [Are you in or out? Challenges of identification and mapping](#) – Katherine Curtis
- i. [Mapping vegetation defined and controlled by fluvial processes](#) – Todd Keeler-Wolf
- j. [What does it all mean? Challenges of assessing condition](#) – Eric Stein

12:30 – 2:30 Break-out Groups and boxed lunch

- k. Groups 1 and 2 – Recommendations for mapping and assessment – (Physical sciences session chairs: Aaron Allen and Eric Berntsen)
- l. Groups 3 and 4 – Recommendations for mapping and assessment – (Biological sciences session chairs: Todd Keeler-Wolf and Deborah Hillyard)

2:30 – 3:30 – Report from Break-out Groups

- m. Summary from each group
- n. General discussion and conclusion

3:30 – Wrap up, Conclusion, and Next Steps

Day 3

8:00 – 3:30 – Field trip to the Cucamonga Fan complex, East Etiwanda Canyon at the North Etiwanda Preserve, San Bernardino County – Lunch in field