

CORRICULUM VITAE

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PERSONAL PROFILE

A Civil Engineering Professional with extensive senior managerial experience in community-level flood risk management and assessment. I am currently using my 30+ years of experience in flood management to guide my dissertation research. My dissertation will examine the opportunities and challenges associated with developing an alternative to the flood insurance program for California residents. It will focus on the opportunities for community-based flood insurance to reduce the economic costs and increase post-flood disaster resiliency.

EXPERIENCE

RESEARCH

Current Research

Current research focuses on the opportunities for providing community-based flood insurance. Research also examines the opportunities to more effectively manage flood risk through a watershed flood risk management program, led by a watershed risk manager.

Manuscripts being finalized:

Community Based Flood Insurance: An Analysis of Market Demand at the Watershed Level in California.

Community Based Flood Insurance: Policy and Pricing Considerations for California Elected Officials.

An Assessment of the Federal Post-Flood Disaster Funding Shortfall Experienced By California.

Publications

Anna Serra-Llobet, Kondolf, G. Mathias, Schaefer, Kathleen, Nicholson, Scott. 2018. *Managing Flood Risk: Innovative approaches from Big Floodplain Rivers and Urban Streams*, Palgrave Macmillan, DOI 10.1007/973-3-319-71673-2, p164.

Northcross, Mark, Robert Spencer, Shalini Vaijehala, Michael Paparian, Brian Benn, Kathleen Schaefer, Craig Hill. 2018. *Finance Guide for Resilient By Design Bay Area Challenge Design Teams*, Resilient by Design.

Agricultural Floodplain Ordinance Task Force. 2016. *Technical Memorandum, Recommended Administrative Refinements of the National Flood Insurance Program to Sustain Agriculture as a Wise Use of the Floodplain in Leveed Special Flood Hazard Areas*, December 28, 2016.

Serra-Llobet ,Anna, Esther Conrad and Kathleen Schaefer, *Governing for Integrated Water and Flood Risk Management: Comparing Top-Down and Bottom-Up Approaches in Spain and California*, Water, MDPI Journal, Oct 12, 2016.

Parker, Dave and Kathleen Schaefer. 1996 “Environmental Considerations” and “Stormwater Management” in *Land Development Handbook*, McGraw Hill.

ACHIEVEMENTS

Hogg-Owen Award for Meritorious Achievement in Floodplain Management, Floodplain Management Association (FMA), 2012

Goddard Award for Outstanding Contribution to FMA Newsletter., FMA 2009

Annual Conference Chair, FMA, 2009

RELEVANT EXPERIENCE

2018- Present Member, DHS Flood Apex Technical Advisory Group

DHS's Flood Apex Program brings together new and emerging technologies designed to increase communities' resilience to flood disasters and provide flood predictive analytic tools to FEMA, state and local governments, and other stakeholders. As a review team member, Ms. Schaefer provides input to investment decisions and evaluates prototype products.

2016-Present Researcher, UC Davis, Natural Hazards and Mitigation Group

As a member of the Natural Hazards and Mitigation team, Ms. Schaefer provides public policy support to the National Resources Defense Council and CA Department of Water Resources. Her work includes examining risk-based financing alternatives to the National Flood Insurance Program and using insurance as a flood financing vehicle.

2013- Present Researcher, Center for Catastrophic Risk Management (CCRM), U.C. Berkeley, Berkeley, CA

Ms. Schaefer is a member of an interdisciplinary team examining risk related issues associated with complex "messy" systems. CCRM provides risk management services to utilities in California, Norway, and Canada.

2005-2013 Regional Engineer and Hazard Mitigation Officer, FEMA, Oakland, CA

As the Regional Engineer for FEMA, Ms. Schaefer managed over \$10 million in mapping projects administered through contracts and grants with cooperating technical partners. Projects included a \$4 million San Francisco Bay Study. She provided technical review of the engineering analysis performed for these mapping projects.

Ms. Schaefer participated in numerous outreach and NFIP training sessions, supported levee-focused policy and procedures symposiums, and provided briefings for regional, state/local officials, congressional staff, and other Federal agency partners/ stakeholders including ASFPM and Floodplain Management Association.

ACADEMIC QUALIFICATIONS

Ph.D. Candidate, Civil Engineering, University of California, Davis

M.E., Chemical Engineering, University of Virginia, Charlottesville, VA, 1996.

B.S., Civil Engineering, University of Virginia, Lincoln, NE, 1986.