

The Future of Water in California: Integrating Climate, Water, and Policy

April 8-9, 2013

UC Center Sacramento

Monday, April 8th

8:30 - 9:00 **Coffee and bagels**

9:00-9:05 **Welcome and Introduction:** Graham Fogg, Professor of Hydrogeology, UC Davis

9:10-10:10 **Flash talks**

9:10-9:20 Daniel Cayan, Director, Climate Research Division, Scripps Institute; Researcher, USGS

9:20-9:30 Jeffrey Mount, Saracino and Mount, LLC

9:30-9:40 John Andrew, Assistant Deputy Director, California Department of Water Resources

9:40-9:50 Linda Prokopy, Associate Professor of Natural Resources Planning, Purdue University

9:50-10:10 Q&A

10:15-10:50 **Morning Keynote Address:** Phil Isenberg, Chairman, Delta Stewardship Council

11:05-12:15 **Panel Discussion: Integrating science, management, and policy: finding the disconnects**

Addressing future water availability under climate change must be comprehensive and multidisciplinary, requiring efficient conduits through which useful information passes between scientists, managers, and policymakers. Promoting this synergism will better facilitate effective adaptation strategies in an uncertain future. Integrating science, management, and policy: finding the disconnects aims to identify the information necessary for improved connections, the appropriate tools and forms of that information, and highlight effective mechanisms that promote reciprocal exchange between scientists, managers, and policymakers.

Panelists

Antral Altevogt, Assistant Executive Officer, Central Valley Water Board

Lauren Hastings, Deputy Executive Officer, Delta Science Program

Hank Jenkins-Smith, Associate Director, Center for Applied Social Research

Jay Lund, Director, Center for Watershed Sciences, UC Davis

David Purkey, Senior Scientist, Stockholm Environment Institute

12:15-1:15 **Catered Lunch**

12:40-1:15 **Afternoon Keynote Address:** Benjamin Santer, Research Scientist, Lawrence Livermore National Lab

1:20-2:30 **Panel Discussion: Modeling the future: integrating across scientific disciplines**

Atmospheric, hydrological, and human processes interact through multiple feedbacks and across scales. Modeling the Future: Integrating Across Scientific Disciplines seeks to highlight the state of the art in modelling this complex system while identifying unresolved issues. Model uncertainty and integration of human decision making into existing modelling efforts and frameworks will be explored. We will highlight the current challenges to our understanding of the key hydroclimatic processes, and discuss innovative integration schemes to address disconnects across fields to provide a holistic modelling perspective.

Panelists

John Bolte, Professor of Biological and Ecological Engineering, Oregon State University

Daniel Cayan, Director, Climate Research Division, Scripps Institute; Researcher, USGS

Lorraine Flint, Research Hydrologist, United States Geological Survey

Ruby Leung, Climate Physics Laboratory Fellow, Pacific Northwest National Laboratory

Richard Howitt, Agricultural and Resource Economist, UC Davis

Reed Maxwell, Director, Integrated GroundWater Modeling Center, Colorado School of Mines

2:45-3:55

Panel Discussion: Integrating California water management across scales and institutions

Managers and policy-makers face growing challenges in adapting physical and social systems to allocate an increasingly tight and variable supply of water to meet environmental, agricultural, and urban needs. Climate change promises to exasperate these challenges. Integrating California water management across scales and institutions will explore how science, economic policy, and collaborative models offer opportunities to improve water management. The panelists will also discuss how to manage for resilience to unexpected variability, and how to promote cooperation across institutions, political boundaries, and scales.

Panelists

Celeste Cantú, General Manager, Santa Ana Watershed Project Authority

Kamyar Guivetchi, Manager, Statewide Integrated Water Management, California Dept. of Water Resources

Ellen Hanak, Co-Director of Research, Senior Fellow, Public Policy Institute of California

Elizabeth Martin, C.E.O., The Sierra Fund

Tim Quinn, Executive Director, Association of California Water Agencies

Samuel Sandoval Solis, Assistant Professor of Water Resources, UC Davis

4:00-5:00

Posters and Reception

Tuesday, April 9th

9:00 - 9:20

World Cafe Introduction: Jeff Loux, Director, Land Use and Natural Resource Program, UC Davis

9:20 - 11:20

World Cafe Roundtable

Table 1, James Farlin: Decision-making under changing ecohydrologic paradigms

Table 2, Eric Kent & Nicolas Bambach: Land-surface processes

Table 3, Michael Levy: Improving representation of decision-making in hydrologic models

Table 4, Derek Nixon: Economic solutions to scarce water resource allocation

Table 5, Alan Rhoades: Utilizing regional models to effectively address hydroclimate issues

Table 6, Alison Whipple: Identifying the scientific tools to facilitate management and planning

11:30 - 12:00

Concluding Remarks: Jay Lund, Director, Center for Watershed Sciences, UC Davis