

**Yosemite Hydroclimatology Conference**  
**Oct. 8-9, 2009**

**Thursday, October 8**  
**Cliff Room, Yosemite Lodge**

**9:00 – 9:15 a.m.: Welcome – Niki Nicholas and Jim Roche, NPS - Yosemite**

**9:15 - 9:55: Warming Driven Trends Across the West – Updating the Record:** Michael Dettinger, USGS, Scripps Institute of Oceanography

**9:55 – 10:35: Region-wide Density Estimates and Habitat Association of Alpine Mammal Assemblages in the Sierra Nevada and White Mountains:** Rob Klinger, USGS, Yosemite Field Station

**10:35 – 10:50: Break**

**10:50 – 11:30.: Interactions Between Fire and Plant Invasions Under a Warming Climate in the Sierra Nevada Bioregion**

Matt Brooks, USGS, Yosemite Field Station -El Portal Office

Rob Klinger, USGS, Yosemite Field Station- Bishop Office

Jan Van Wagtenonk, USGS, Yosemite Field Station -El Portal Office

**11:30 a.m.-12:10 p.m.: Birds track their Grinnellian niche through a century of climate change**

Morgan W. Tingley, University of California-Berkeley

William B. Monahan, Audubon California

Steven Beissinger, University of California-Berkeley

Craig Moritz, University of California-Berkeley

**12:10 – 1:00 Lunch**

**1:00 – 1:30: Implications of the 2008 California Climate Change Impact Assessment for Wildfire in the Sierra Nevada:** Anthony Westerling, University of California-Merced

**1:30 – 2:00: Seasonal Transitions in Water Sources and Moisture Patterns in a Mountain Meadow, Sequoia National Park:** Martha Conklin, University of California-Merced

**2:00 – 2:30 Climate Change, Water Resources, and Ecotones in the Eastern Sierra: Recent Research and Future Directions:** Holly Alpert, University of California-Santa Cruz

**2:30 – 3:10: Developing Wetland Ecological Integrity Monitoring in Sierra Nevada Network Parks:** Linda Mutch and Sylvia Haultain, Sequoia & Kings Canyon National Parks

**3:10 – 3:30 Break**

**3:30 – 4:10: Water and Geochemical Responses to Seasonal Changes Across the Rain-Snow Transition in the Southern Sierra Nevada:**

Roger Bales, University of California-Merced  
Carolyn Hunsaker, USFS-PSW  
Branko Kerkez, University of California-Berkeley  
Matt Meadows, University of California-Merced  
Fengling Liu, University of California-Merced  
Steve Glaser, University of California-Berkeley

**4:10 – 4:40: “Looking Downstream” Flood Design, and Climate Change Modeling Update**

Bruce McGurk, Hetch Hetchy Water & Power-San Francisco PUC

**4:40 – 5:10 Park Update: Tuolumne and Merced River Plans, Stock Use Science: Jim**

Roche, NPS - Yosemite

**Friday, October 9**

**Cliff Room, Yosemite Lodge**

**8 – 8:40 a.m.: Managing Water in a Changing Climate: Michael Anderson, California**

Department of Water Resources-Sacramento

**8:40 – 9:10: Development and Maintenance of Wetland Conditions in Association with Controlled Flooding on the Tuolumne River**

Tess Russo, University of California-Santa Cruz  
Jim Roche, NPS-Yosemite National Park  
Andy Fisher, University of California-Santa Cruz

**9:10 – 9:40 Antecedent Soil Moisture’s Influence on Springtime Runoff: Alan Flint and**

Lorrie Flint, USGS/WRD-Sacramento

**9:40 – 10:10: Water Geochemistry of the Upper Tenaya Creek Basin: Ron Antweiler,**

USGS/WRD-Boulder, and Ned Andrews, INSTAAR-University of Colorado

**10:10 – 10:25 Break**

**10:25 – 10:55: Preliminary Findings of an Isotopic and Geochemical Study to Characterize**

**Surface and Spring Waters in the Upper San Joaquin River Watershed: Sue Burak,**  
Hydrologic Science Program-University of Nevada, Reno

**10:55 – 11:25: Sources of Snowmelt Runoff in the Merced River Basin: Terressa Whitaker,**

San Diego State University

**11:25 a.m. – 12:15 p.m.: Mountain Snow, Rain, Stream Water Temperature, and Chinook**

**Spawning Habitat: David Peterson, Iris Stewart, Fred Murphy, Larry Brown and Noah**  
Knowles, U.S. Geological Survey, Menlo Park