

Tahoe Climate Science 2014 Symposium

November 13 2014 (0830-1730)

Location: Sierra Nevada College/UCD TERC (TCES 139/141)
291 Country Club Drive, Incline Village, NV 89451

- 0815-0830 **Introductions and Symposium overview** (Dettinger/McCarthy)
- Purpose: Stimulate discussion among researchers working on climate impacts and ecological resiliency in Lake Tahoe Basin and Sierra Nevada.
 - Exchange findings (ongoing/published)
 - Identify research gaps
 - Create opportunities for collaboration
- 0830-1015 **Panel 1: Climate Models & Impacts**
- Four panelists will give 10-min discussion-starter presentations to set the stage for discussion (60 min)
 - **Mike Dettinger (USGS)** - What we think we know now: Climate change projections and downscaling for Tahoe, Sierra-Nevada, and the Southwest
 - **Geoff Schladow (UCD/TERC)** - What keeps me up at night: Climate impacts to Lake Tahoe (now/future)
 - **Susan Wilhelm (CEC)** - Overview of 4th California Climate: Is there a role for Tahoe science?
 - **Jim Thomas (DRI)** - Warmer water impacts: Effects on nearshore ecology
- 1015-1030 Break
- 1030-1215 **Panel 2: Storms & floods**
- Four panelists will give 10-min discussion-starter presentations to set the stage for discussion (60 min)
 - **Christine Albano (UCD)**- ARkStorm@Tahoe: What we learned, what we can do about it
 - **Rich Niswonger (USGS)** - Watershed simulations in Tahoe basin climate change & ARkStorm
 - **Mike Anderson (Ca DWR)** - Estimating 250-yr floods in a changing World

- **Jeff Payne (USBR/MWH Global)** – Truckee River Study:
How will climate impacts be incorporated into
infrastructure planning & management strategies

1215-1315 Lunch

1315-1500 **Panel 3: Droughts & Heatwaves**

- Four panelists will give 10-min discussion-starter presentations to set the stage for discussion (60 min)
 - **Chris Smallcomb (Reno NWS)** – Weather and Climate:
What do we know, what do we need to know, how should we be communicating science & uncertainties
 - **Mark Schwartz (USGS)** – Forest health (or not): What does climate change especially droughts do to forests and when?
 - **Justin Huntington (DRI)** – Future lake levels: How accurate are evaporation and ET models for Tahoe now/future?
 - **Tom Albright (UNR)** – Remote Sensing climate change: landscape perspective of land and water resources. What does drought do to landscape/forests?

1500-1515 Break

1515-1700 **Panel 4: Wildfires & Air quality**

- Four panelists will give 10-min discussion-starter presentations to set the stage for discussion (60 min)
 - **Angela White (USFS-PSW)** – Recent Wildfire Lessons Learned: What do wildfires/drought (local & distant) mean for lake and streams? Monitoring needs?
 - **Tim Brown (DRI)** – Climate change and wildfire: correlation & causation. What do we really know?
 - **Tony Westerling (UCM)** - Seasonal forecasts, paleofire reconstructions, and climate change impact assessments
 - **Graham Kent (UNR)** - Fire history of Tahoe and new approaches to monitoring

1700-1730 Wrap-up