

30th Annual Meeting
of the
Rocky Mountain Hydrologic Research Center

4 November 2005

Conference Room, Building C, Fort Collins Science Center, Fort Collins, Colorado

- 7:30 --8:10** Registration and load PowerPoint Presentations
- 8:10--8:20** **Bill Lewis:** Introductory Remarks
- 8:20--8:45** **Douglas Hultstrand,** Watershed Science, Colorado State University:
Geostatistical Methods for Estimating Snowmelt Contribution to the Seasonal Water Balance in an Alpine Watershed
- 8:45--9:10** **Dena Hicks,** Watershed Science, Colorado State University:
Annual Hydrochemical Fluxes from Alpine-SubAlpine Catchments in the Snowy Range Wyoming
- 9:10--9:35** **Jordan Clayton,** U.S. Geological Survey/ University of Colorado:
Spatial Variations in Bed Load Transport Phase in a Gravel-bed Stream Bend
- 9:35--10:05** ***Poster Break with Refreshments***
- Jeffrey Derry and S. Fassnacht ,** Forest, Rangeland & Watershed Stewardship, Colorado State University:
Regional Patterns of Snow Water Equivalent (SWE) in the Colorado River Basin using Snowpack Telemetry (SNOTEL) data

Deborah Martin, John Moody, Sandra Haire, and Dave Kinner, U.S. Geological Survey, Boulder, Colorado:
Linking Hydrologic Response to Burn Severity after a Wildfire

Christine Dolliver and Alisa Mast, U.S. Geological Survey, Colorado Water Science Center
Preliminary Results of Streamwater Mercury in the Big Thompson Watershed, Colorado

Kathleen A. Dwire, Jeremy Monroe, Howard Rhodes, Mark K. Dixon, and Sandra E. Ryan, U.S. Forest Service:

Stream Characteristics and Aquatic Macroinvertebrates Following Wildland Fire in Western Wyoming

Chuck Rhoades, Natalie Quiet, Kathleen Dwire, and Kendra Brewer, U.S. Forest Service;
The Influence of Hillslope Springs on Subalpine Stream water

Sandra E. Ryan, U.S. Forest Service:

Geomorphic Research and Monitoring Opportunities at the Fraser Experimental Forest

Nolan J. Doesken, Colorado Climate Center, Colorado State University:
A Summary of the 2005 Water Year in Colorado

10:05--10:30 **Nate Beckman**, Watershed Science, Colorado State University:

Using Water Quality to Validate Groundwater modeling Results

- 10:30--10:55** **Benjamin Synder**, Department of Civil Engineering, Colorado State University:
Flow Resistance Estimation in Mountain Streams
- 10:55--11:20** **Kristina Klos Wynne**, Department of Geography, University of Colorado, Boulder:
Assessing the Effects of Streamflow Changes and Local Shear Stress Variations on the New Zealand Mud Snail in Boulder Creek, Colorado
- 11:20--11:45** **Ken Wright**, Wright Water Engineers, Inc., Denver, Colorado
Public Safety at Low-Head Dams
- 11:45--13:00** ***Lunch--Posters***
- 13:00--13:25** **Catalina Segura**, Department of Geography, University of Colorado:
Effects of Channel Bed Disturbance on Algal Biomass in a Mountain Stream
- 13:25--13:50** **Robert Jarrett**, U.S. Geological Survey, Lakewood, Colorado:
Variations in Extreme Flooding During the Holocene in the Western United States Inferred from Contemporary Flood and Paleoflood Data
- 13:50--14:15** **Susan Novak**, Department of Civil Engineering, Colorado State University:

Hydraulic Modeling Analysis of the Middle Rio Grande River from Cochiti Dam to Calisteo Creek, NM
- 14:15--14:40** ***Poster Break with Refreshments***

- 14:40--15:05** **Melynda May**, Center for Limnology, University of Colorado:
Pattern and Process of Headward Erosion in Salt Marsh Tidal Creeks
- 15:05--15:30** **Jose Salas**, Department of Civil Engineering, Colorado State University:
Extending Streamflows of the Colorado River Based on Tree Ring Data
- 15:30--15:55** **Jeff Lukas**, INSTAAR, University of Colorado:
Using Remnant Material to Extend Moisture-Sensitive Tree-ring Chronologies in Western Colorado: A Progress Report
- 15:55--16:20** **Robert Milhous**, U.S. Geological Survey, Biological Resources Discipline:
Water Quality as a Limit on the Fishery in the Upper Animas River, Colorado
- 16:30** **Board Meeting**