

**61st Annual Meeting of the
Rocky Mountain Hydrologic Research Center**

3 November 2006

Damon Room, National Center for Atmospheric Research, Boulder, Colorado

8:00 --8:45 Registration and load PowerPoint Presentations

8:45--9:00 **Bill Lewis, President Rocky Mountain Hydrologic Research Center:** Introductory Remarks

Climate and Weather

9:00--9:25 **Nolan Doesken**, Colorado Climate Center
A Review of the 2006 Water Year in Colorado

9:25--9:50 **John Moody**, U.S. Geological Survey
Convective Rainfall Characteristics along an Elevation Gradient

9:50--10:15 **David Gochis**, Research Application Laboratory, NCAR
Operational Implementation of a Fully-coupled Flash Flood Prediction

10:15--10:45 ***Poster Break with Refreshments***

Mark Bradburn, Center for Limnology, University of Colorado
Light and Nitrogen Fixation in Colorado Reservoirs

Kristin Bunte, Engineering Research Center, Colorado State University
Measured Gravel Transport Rates and Particle Sizes Difference between Helley-Smith Samplers and Bedload Traps

Ken Hill, INSTARR, University of Colorado

Climate and Wet Deposition Controls on Long-term Changes in Water Chemistry in an Alpine Catchment, Green Lakes Valley, Colorado

Jeff Lukas, INSTARR, University of Colorado
The TreeFlow Project: Using Tree-ring Data to Provide Water Managers with a Multi-century Perspective on Drought

Vegetation

10:45--11:10 **Terry Legg**, Department of Geography, University of Colorado
Interannual Variation in Evaporation and Vegetation Cover of a High Altitude Wetland

11:10--11:35 **Deborah Martin**, U.S. Geological Survey
Lodgepole Pine, Bark Beetle, and Fire: Assessing Post-fire Risks before the Blaze

11:35--12:00 **Brandy Logan**, Department of Geography, University of Colorado
Vegetation-induced Changes to Shear Stress and Velocity on the Colorado River

12:00--13:30 ***Lunch available on site in NCAR cafeteria)--Posters***

Sediment

13:30--13:55 **James Anthony**, Center for Limnology, University of Colorado
Simulating Realistic Benthic Boundary Conditions in Lakes: Can Sediment-water Exchange Moderate Water-column Nutrient Concentrations?

13:55--14:20 **Kristin Bunte**, Engineering Research Center, Colorado State University
Bedload Rating and Flow Competence Curves in Mountain Gravel-bed Streams Predictable from Bed Armoring, Stream Width, and Basin Area

14:20--14:45 **Joe Gartner**, U.S. Geological Survey
Empirical Models to Predict Debris Flow Volumes Generated by Recently Burned Basins in the Western U.S.

Hydraulics

14:45--15:10 **Maury Albertson**, Colorado State University
V-shaped, Variable-slope Flume at Rocky Mountain Hydraulic Laboratory

15:30 **Board Meeting**