Remote Sensing and Snow

“Simulation of snow cover properties and assimilation of snow observations for the conterminous U.S.” by Tom Carroll, Don Cline, Greg Fall, Anders Nilsson, Long Li and Andy Rost.

“Mapping snow algae concentrations in the Sierra Nevada snowpack with imaging spectrometer” by Thomas H. Painter, Brian Duval, William Thomas and Jeff Dozier.

“Telemetry and the internet” by Garry L. Schaefer and Don Sytsma.

“Using GIS to predict the spatial distribution of perennial snow under modern and late Pleistocene conditions in the Snake Range, Nevada” by John G. Van Hoesen and Richard L. Orndorff.  POSTER


Snow Hydrology Begins in the Atmosphere

“Effects of storm trajectories on snowfall chemistry in Rocky Mountain National Park, Colorado” by George P. Ingersoll, Mary Kay Watry, Kathy A. Tonnessen, Donald H. Campbell, Ben R. Glass and Andres O. Torizzo.

“Anthropogenic climate change and snow in the Pacific Northwest” by Philip W. Mote and Alan F. Hamlet.

“Opportunities for the use of long-lead winter climate forecasts for water resources management in the Pacific Northwest” by Alan F. Hamlet and Dennis P. Lettenmaier.  POSTER

Accumulation, Management, and Depletion of Snowcovers


“Landscape controls on snow accumulation in an alpine catchment” by Tyler Erickson, Mark Williams and Matt Tomaszewski.  POSTER
“Managing snow to establish forage crops in saline soils” by Harold Steppuhn. POSTER

Modelling


“Snowmelt and soil freezing processes simulated by the Shaw Model” by Gerald N. Flerchinger.

“Operational snow hydrology in Alaska: Limitations and future directions” by Benjamin Balk and David Streubel.

“Initial investigation of using a complex energy balance snow model to supplement the National Weather Service River Forecast System” by David Streubel and Benjamin Balk. POSTER

“The effects of variable patterns of snow deposition and drifting on snowmelt, runoff, and stream discharge in a semi-arid mountain basin” by Danny Marks and Adam Winstral. POSTER

Forecasting

“Streamflow forecasting using the modular modeling system and an object-user interface; Feather River and Truckee River Basins, North-Central California” by Anne E. Jeton.

“Seasonal streamflow forecasting using climate information” by Connely K. Baldwin.

“Soil moisture data collection and water supply forecasting” by Randall P. Julander.

“Incorporating seasonal streamflow forecasts into operational decisionmaking” by Connely K. Baldwin, Marc Waage and Robert Steger. (Presented by Marc Waage.)

“Water resources forecasting in the North Platte Basin” by Tom Dietrich and Randy Rieman.

“The 1994-1995 snow accumulation and runoff event in northern Colorado, southeastern Wyoming and the Nebraska panhandle” by Tom Dietrich and Randy Rieman. POSTER

“Topographic controls on spatial and temporal variation in snow temperatures in a mountain snowpack” by Jeffrey S. Deems. POSTER