Mountain Pine Beetle Science Symposium:
Impacts on the Hydrologic Cycle and Water Quality

8:30am
Coffee

9:00am
Welcome and Introduction
Jeff Lukas and Eric Gordon, Western Water Assessment

9:15am
A view from the field
Liz Schnackenberg, Routt National Forest
Carl Chambers, Arapaho-Roosevelt National Forest

9:25am
The impact of the pine beetle infestation on snowpack accumulation and melt in the headwaters of the Colorado River: results from the 'red phase' of tree death
Evan Pugh, University of Colorado-Boulder

9:50am
Impacts of mountain pine beetle outbreak on distributed snowpack processes
Noah Molotch, University of Colorado-Boulder

10:15am
Break

10:30am
Hydrological response to mountain pine bark beetle infestation in Western subalpine watersheds
Kelly Elder, USFS Rocky Mountain Research Station

10:55am
Comparing water, soil, vegetation, fuel and fire behavior responses to management options in mountain pine beetle-infested forests
Chuck Rhoades, USFS Rocky Mountain Research Station

11:20am
Response of evapotranspiration and greenhouse gas emissions to the bark beetle and blue stain fungus epidemic in Rocky Mountain forests
Holly Barnard, University of Colorado-Boulder

11:45am
Impacts of beetle kill and wildland fire on regional water and energy cycles in western North America
Fei Chen, National Center for Atmospheric Research

12:10pm
Lunch (on your own in the Mesa Lab cafeteria)

1:00pm
Baseline information to help understand hydrological and hydrochemical responses to the mountain pine beetle outbreak, Como Creek watershed, CO
Ty Atkins, University of Colorado-Boulder

1:25pm
Effects of mountain pine beetle on water quality in the Upper Colorado River Basin
David Clow, United States Geological Survey

1:50pm
Preliminary investigations into the impact on hydrology and metal fluxes in mountain pine beetle infected watersheds: Summit County, Colorado
Kristen Mikkelson, Colorado School of Mines

2:15pm
Effects of the mountain pine beetle on water quality in Colorado mountain streams
Jimmy McCutchan, University of Colorado-Boulder

2:40pm
Break

2:55pm
Water resource responses in beetle-killed catchments in north-central Colorado
John Stednick, Colorado State University

3:20pm
Quantifying the effects of large-scale vegetation change on coupled water, carbon, and nutrient cycles: Beetle kill in Western montane forest
Paul Brooks, University of Arizona

3:45pm
Summary discussion: What do we know and what don't we know? Providing stakeholder synthesis and identifying future research efforts
Moderators: Jeff Lukas and Eric Gordon, WWA

4:30pm
Symposium conclusion

Colorado
University of Colorado at Boulder

Western Water Assessment