Checking the Pulse of our Streams and Rivers

PROGRAM

Coordinator: Cincin Young (University of California, Davis)

9:00 - 9:10 AM Welcome address
Douglas E. Conklin (Program Director, UCD-CEC Pulsed Flow Program, University of California, Davis)

9:10 – 9:20 AM Opening remarks
Joseph O’Hagan (Commission Program Manager, Public Interest Energy Research, California Energy Commission)

9:20 - 9:40 AM Geomorphic importance of winter peak flows and annual snowmelt hydrographs in a Sierra Nevada boulder-bedrock river
Scott McBain (McBain and Trush, Inc.)

9:40 - 10:00 AM Ecological roles of natural pulse flows in a boulder-bedrock Sierra Nevada river: Woody riparian vegetation
John Bair (McBain and Trush, Inc)

10:00 - 10:10 AM BREAK
10:10 - 10:30 AM  Evaluating pulsed flow-based disturbances of stream benthos
Ian Chan (Garcia and Associates)

10:30 – 11:10 AM  Ecological roles of natural pulse flows in a boulder-bedrock Sierra River: Benthic macroinvertebrates
Bill Trush (McBain and Trush, Inc)

11:10 – 11:30 AM  Effects of temperature and flow on Ceratomyxa shasta actinospore and polychaete host survival
Sarah Bjork* and Jerri Bartholomew (Oregon State University)

11:30-11:50 AM  Reproductive timing of freshwater mussels and potential impacts of pulsed flows on reproductive success
Lorrie Haley* and Maria J. Ellis (Spring Rivers Ecological Sciences)

11:50 – 1:00 PM  LUNCH

1:00 – 1:20 PM  Pulsed flow effects on the foothill yellow-legged frog (Rana boylii): Summaries and re-analyses of FERC re-licensing data and study reports
Amy J. Lind (USDA Forest Service)

1:20 – 1:40 PM  The effects of velocity manipulation on tadpoles of the Foothill yellow-legged frog (Rana boylii)
Sarah Kupferberg (Questa Engineering)

1:40 – 2:00 PM  Identifying climatic and water flow triggers associated with the onset of breeding activities in a Foothill yellow-legged frog (Rana boylii) population on the north fork Feather River, California
Joseph E. Drennan (Garcia and Associates)

2:00 – 2:20 PM  Pulsed flow effects on the foothill yellow-legged frog (Rana boylii): analysis of hydraulic habitat conditions using 2-dimensional modeling
Sarah Yarnell-Hayes (University of California, Davis)

2:20 – 2:40 PM  Ecological roles of natural pulse flows in a boulder-bedrock Sierra Nevada River: Fish and amphibians
Bill Trush (McBain and Trush, Inc)

2:40-3:00 PM  Adult hardhead minnow and rainbow trout preference in a large, annular apparatus
Dennis Cocherell*, Sarah Hamilton, Joe Cech, Jr., and Pete Klimley (University of California, Davis)

3:00-3:10 PM  BREAK

*presenter in a multiple-authored paper
3:10-3:30 PM  Trout behavior and responses to pulsed flows: investigations utilizing electromyogram telemetry  
Sarah Hamilton, Dennis Cocherell, Lisa Thompson, Joe Cech, Jr., and Pete Klimley* (University of California, Davis)

3:30-3:50 PM  Longitudinal movement of fish in response to a single-day flow pulse  
Lisa Thompson*, Sarah Hamilton, Stephanie Chun, Joe Cech, Jr., and Pete Klimley (University of California, Davis)

3:50-4:10 PM  Guidelines for prescribing pulse flows in Sierra Nevada boulder-bedrock rivers  
Bill Trush (McBain and Trush, Inc)

4:10-4:30 PM  Concluding remarks  
Jim Canaday (Division of Water Rights, State Water Resources Control Board)  
Carson Cox (Sustainable Conservation)