

2017 SSCZO ANNUAL MEETING PRESENTATION LIST

CRITICAL ZONE OBSERVATORY OVERVIEW

Roger Bales

RESEARCH SESSION 1: CRITICAL ZONE WEATHERING, GENESIS, AND BIOGEOCHEMISTRY

Exploring deep regolith (oral)

Toby O'Geen, Ryan Ferrell, Zhiyuan Tian, & Mike Goulden

Predicting plant-accessible water in the critical zone: An overview of this and other current SSCZO projects on plant-water-subsurface interactions (oral)

Zion Klos, Michael Goulden, Clifford Riebe, Christina (Naomi) Tague, Toby O'Geen, Brady Flinchum, Mohammad Safeeq, Martha Conklin, Stephen Hart, Asmeret Asefaw Berhe, Peter Hartsough, W. Steven Holbrook, & Roger Bales

Climatic controls on the biogeochemical cycling of phosphorus in the critical zone (poster)

Morgan E. Barnes, Stephen C. Hart, & Asmeret Asefaw Berhe

Bedrock controls on mountain ecosystems evaluated using geophysics, geochemistry, and remote sensing (poster)

Russell Callahan, Cliff Riebe, Mike Goulden, Nick Taylor, Sylvain Pasquet, Brady Flinchum & Steve Holbrook

Over half of potential soil extracellular enzyme activity occurs below 20 cm (poster)

Nicholas C. Dove, Keshav Arogyaswamy, Chelsea J. Carey, Aaron I. Packman, Stephen C. Hart, & Emma L. Aronson

Predicting plant-accessible water in the critical zone: Mountain ecosystems in a Mediterranean climate (poster)

Zion Klos, Michael Goulden, Clifford Riebe, Christina (Naomi) Tague, Toby O'Geen, Brady Flinchum, Mohammad Safeeq, Martha Conklin, Stephen Hart, Asmeret Asefaw Berhe, Peter Hartsough, W. Steven Holbrook, & Roger Bales

Deep soil carbon in the critical zone: Climatic influences on the amount and chemical composition of carbon in weathered bedrock (poster)

Kimber Moreland, Zhiyuan Tian, Asmeret Asefaw Berhe, Toby O'Geen

Regolith thickness and pedogenic processes at mid-elevations of the Southern Sierra Nevada on granitic rock (poster)

Zhiyuan Tian, Toby O'Geen, & Peter Hartsough

USDA FOREST SERVICE KREW OVERVIEW

Kings River Experimental Watersheds: Recent activities and plans

Joe Wagenbrenner

RESEARCH SESSION 2: CRITICAL ZONE WATER PROCESSES AND ECOHYDROLOGY

Evapotranspiration in the Southern Sierra critical zone: How much from where? (oral)

Melissa Thaw, Ate Visser, Martha Conklin, Amanda Deinhardt, Richard Bibby, Anthony Everhart, Mike Sharp, & Joseph Rungee

Modeling fire regimes (oral)

Ryan Bart

Exploring forest mortality (oral)

Mike Goulden

Forest thinning in Sierra Nevada mixed-conifer headwater forests: Evapotranspiration, runoff and drought resiliency (poster)

Martha Conklin, Phil Saksa, Naomi Tague, & Roger Bales

How well do we measure precipitation? (poster)

Morgan Cooney, Erin Stacy, Mohammad Safeeq, Peter Hartsough, & Michael Goulden

The effect of plant available water storage capacity (PAWSC) on transpiration across the Critical Zone Observatories (poster)

Christopher Heckman & Christina (Naomi) Tague

Evapotranspiration responses to multi-year dry periods in the semi-arid western United States (poster)

Joseph Rungee & Roger Bales

Soil water wet-up and drawdown patterns during drought recovery (poster)

Erin Stacy, Peter Hartsough, & Toby O'Geen

Root system plasticity of dominant southern Sierra tree species, and its implications for plant fitness during drought stress and climatic extremes (poster)

Shersingh Joseph Tumber-Davila & Robert Jackson

Water transit times at the Southern Sierra CZO derived from cosmogenic radioactive isotopes (poster)

Ate Visser, Melissa Thaw, Amanda Deinhardt, Richard Bibby, Ype van der Velde, Martha Conklin, & Bradley Esser

OUTREACH PRESENTATIONS

Sharing critical zone science: Recent activities and future aspirations

Michelle Gilmore

Sustainable California: Science and digital storytelling with UCTV

Leigh Bernacchi

Visualizing Wildfire

Ethan Turpin

