



The Critical Zone Observatory Guide to University of Arizona's Earth Week 2015 Student Symposium

ORAL PRESENTATIONS

Wednesday April 8th (El Dia)

North Ballroom, Student Union

11:00 am – 11:20 am

Impacts of wildfire on throughfall and stemflow precipitation chemistry and flux, Alissa White

11:40 am – 12:00 pm

Lava lamp to flow in fracture-water to fracture-porous media: Unity in physics but diversity in implications, Ravindra Dwivedi

Thursday April 9th (SWESx)

Catalina Room, Student Union

9:15 am – 9:30 am

Three-dimensional prediction of soil physical, chemical, and hydrological properties in a forested catchment of the Santa Catalina CZO, Chris Shepard

10:30 am – 10:45 am

Geochemical modeling of mineral transformations from porewater geochemistry and sensor data during incipient weathering of granular basalt in the LEO hillslope, Michael Pohlmann

Thursday April 9th (Geodaze)

North Ballroom, Student Union

2:30 pm – 2:45 pm

Topographic controls on soil and regolith thickness from shallow-seismic refraction constraints across upland hillslopes in the Valles Caldera, NM, Jared Olyphant

ORAL PRESENTATIONS (continued)

Friday April 10th (Plenary Session)

North Ballroom, Student Union

2:15 pm – 2:30 pm

On the importance of the monsoon rainfall for Ponderosa Pine growth throughout the US Southwest, Paul Szejner

3:00 pm – 3:15 pm

Impacts of wildfire on throughfall and stemflow precipitation chemistry and flux, Alissa White

POSTER PRESENTATIONS

Wednesday April 8th (SNRE)

Tucson Room, Student Union

9 am – 12 pm

- *Using stable water isotopes to evaluate plant water use in a snow-dependent subalpine mixed conifer ecosystem, James Garland*
- *An experimental two-layer approach to understanding semiarid shrub water use, Matthew Rotunno*
- *Using stable water isotopes in a two-layer soil moisture conceptual framework to understand transpiration dynamics in a semiarid shrubland, Daphne Szutu*
- *Long-term precipitation trends of two uniquely water-limited ecosystems: implications for future soil moisture dynamics, Rachel Wehr*
- *Using terrestrial LiDAR to assess understory growth dynamics following high severity burn in a mixed-conifer forest, Daniel Wilcox*

POSTER PRESENTATIONS (continued)

Wednesday April 8th (El Dia)

North Ballroom, Student Union
10 – 11am and 2:30 – 3:30 pm

- *Similarities & differences between transport of a solute and water age mass: Why the picture is so blurry*, Ravindra Dwivedi
- *Quantifying the response of dissolved organic matter to wildfire*, Brianna McClure
- *Spatial and temporal influence of Redondo Peak headwaters in the East Fork Jemez river using a principal component analysis approach*, Valles Caldera, NM, Andres R. Sanchez-Romero
- *An experimental two-layer approach to understanding semiarid shrub water use*, Matthew Rotunno
- *Using stable water isotopes in a two-layer soil moisture conceptual framework to understand transpiration dynamics in a semiarid shrubland*, Daphne Szutu

Friday April 10th (SWESx)

South Ballroom, Student Union
12 – 2 pm

- *Scaling microbial carbon metabolism to ecosystem carbon emissions in thawing permafrost*, Kristine de Leon
- *Measuring and modeling soil microbial communities in the Jemez River Basin critical zone*, Dawson Fairbanks
- *Importance of root architecture on rocks weathering over time*, Kexin Li
- *Using stable water isotopes to evaluate plant water use in a snow-dependent subalpine mixed conifer ecosystem*, James Garland

POSTER PRESENTATIONS (continued)

Friday April 10th (SWESx continued)

South Ballroom, Student Union
12 – 2 pm

- *Impact of wildfire on microbial abundance in the Jemez River Basin Critical Zone Observatory*, Margretta Murphy
- *Long-term precipitation trends of two uniquely water-limited ecosystems: implications for future soil moisture dynamics*, Rachel Wehr
- *Using terrestrial LiDAR to assess understory growth dynamics following high severity burn in a mixed-conifer forest*, Daniel Wilcox

Friday April 10th (Plenary Session)

South Ballroom, Student Union
1– 2:30 pm

Plenary Poster Session for Earth Week
ALL POSTERS REPEATED HERE