

# Geochemistry of Weathering in Heterogeneous Systems

By: Brianna Svoboda & Colten Miller

- Motivation
  - Mineral dissolution experiments at column scale
    - Homogeneous systems (Salehikoo et al., 2013 and Hausrath et al., 2009)
  - Lab v. Field
    - Derived weathering rates 2 to 6 consistent orders of magnitude difference (Navarre-Sitchler and Brantley, 2007)
- Hypothesis
  - Wider distribution of water residence times and thus weathering rates in heterogeneous systems
- Research Methods
  - Column Scale Experiments
- Preliminary Results



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