



COLLEGE OF NATURAL
RESOURCES AND ENVIRONMENT
FOREST RESOURCES AND
ENVIRONMENTAL CONSERVATION
VIRGINIA TECH™

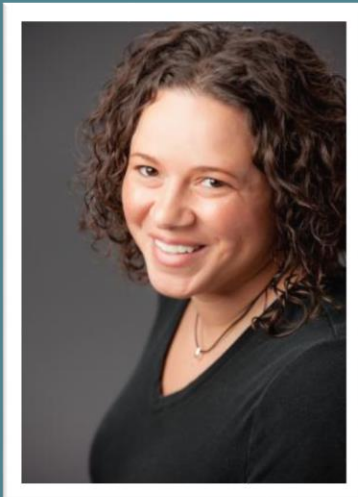
Spring 2019
Seminar Series

Friday, March 29, 2019

Location: Fralin Auditorium

Seminar 10:00 AM – 11:00 AM

Refreshments 9:30 AM



Holly Barnard

Associate Professor and INSTAAR Fellow,
Department of Geography,
University of Colorado Boulder

**Title: *Water and carbon interactions across
the critical zone: exploring bi-directional
relationships in complex terrain***

Bio: Holly's research focuses on investigating how vegetation processes affect water flow dynamics and pathways in soil and streams, and conversely, how water flow paths affect vegetation function in mountainous terrain. The ultimate goal of her group's research program is to improve our knowledge of how changes in land-use and/or climate will affect water resources and ecosystems. This interdisciplinary research uses state-of-the-art techniques to reveal patterns and processes at scales ranging from the leaf to the watershed.

Some current topics include: evapo-transpiration partitioning using stable isotopes, impact of bark beetle outbreaks on forest water yield in southern Wyoming, and examining the influence of micro-climate on tree function using stable isotope analysis of tree rings.