

## School of Natural Resources and the Environment

Seminar Series: Spring 2018

### SUSTAINABLE WORKING RANGELANDS—MANAGEMENT RESEARCH PARTNERSHIPS TO CREATE USABLE SCIENCE

SPEAKER: Leslie Roche, *Department  
of Plant Sciences, UC Davis*

DATE: Wednesday, March 21st,  
2018

TIME: 3:00-4:00 pm

LOCATION: ENR2, S107



**ABSTRACT:** Rangeland research has predominantly focused on biophysical outcomes between fixed treatments implemented over fine spatial and temporal scales. However, land managers typically make decisions and adjust strategies for multiple outcomes—including profitability, quality of life, and environmental stewardship—across scales in response to the dynamic social-ecological systems within which their enterprises are embedded. In the adaptive decision-making process, place-based expertise and trial-and-error learning passed through generations help shape management strategies and perceptions of successes and failures. Therefore, understanding the social, economic, and ecological variables driving management decision-making is essential in reconciling apparent discrepancies between experimental and experiential perceptions of strategy effectiveness. This talk will highlight lessons learned from stakeholder-engaged research to address key challenges on California's rangelands, including managing for multiple agricultural and environmental outcomes as well as coping with and adapting to drought.