



Seminar Series: Spring 2023

LEARNING THROUGH PARTICIPATION IN SCIENCE PRACTICE COMMUNITIES

SPEAKER: Anna Grinath, Idaho State University

DATE: Wednesday, March 15th

TIME: 3:00-4:00 pm

LOCATION: ENR2 S210 & [Zoom](#)

ABSTRACT:

Scientists generate knowledge through specialized practices that have been negotiated and are shared by scientific communities. In education settings, people learn science by learning to participate in these specialized practices. My research aims to understand three aspects of science learning in postsecondary contexts: 1) how people learn to participate in the scientific practices of constructing and critiquing knowledge claims, 2) how participation in science practice communities develops science identities, and 3) how to design for such science learning in the undergraduate classroom.

This seminar highlights two recent research projects. The first project examined how to use talk moves as tools to elicit students' ideas and experiences as resources for learning. The second project described how structured primary literature discussions created opportunities for developing science identities. This research has implications for those who teach science courses, mentor undergraduate research, and/or enjoy thinking about science learning and teaching.

