

School of Earth and Environmental Sciences Spring 2025 Colloquium Series

Science Building
C207

Wednesday, February 5th, 2025
12:15 PM -1:30 PM

Kevin Konrad

Assistant Professor of Marine Geology,
Oregon State University

Title: Over 110 Million Years Of Samoan Hotspot Volcanism: New Insights Into Mantle Plume Dynamics

The Samoa Seamount Province is a valuable natural archive of mantle plume-trench interaction, overlapping hotspot tracks and anomalous lithospheric deformation driven volcanism. This talk will cover three recently published papers on the Early Cretaceous to recent history of the Samoa hotspot chain. We will cover novel observations on how mantle flow around a subducting plate can alter the geographic surface expression of proximal hotspots, how massive volcanic complexes can be formed from multiple pulses of volcanism from distinct mantle sources, and how oceanic lithosphere thickness can be formed from multiple pulses of volcanism from distinct mantle sources, and how oceanic lithosphere thickness can alter surface expression of plumes.

Zoom Link:

<https://us02web.zoom.us/j/84302875858?pwd=9TCi4zpjcoNU65cet0QR4iaBtDCOOQ.T.1>

Meeting ID: 843 0287 5858
Passcode: 672323

