School of Earth and Environmental Sciences
Colloquium Series

Wednesday, April 28th, 2021
12:15 – 1:30 PM
Zoom Link: https://us02web.zoom.us/j/89499546812

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Title: BRAVOSEIS: Geophysical Investigation of rifting and volcanism in the Bransfield Strait, Antarctica

Orca Volcano is a seafloor caldera located about 20 km south of King George Island in the Bransfield Strait, a seismically active extensional rift between the Antarctic Peninsula and the South Shetland Islands. As part of the BRAVOSEIS project, an international effort focused on the seismological research of submarine volcanoes and rift dynamics in the Bransfield Strait, we collected multibeam soundings, gravity and magnetic measurements, and multi-channel seismic data along 21 profiles with lengths of 20 to 30 km over Orca volcano. Initial analysis of seismic and potential field data indicate the presence of a robust magma chamber and subsurface structures consistent with rifting crust. Dr. Soule will present geomorphological interpretation of the bathymetry and preliminary potential field and seismic results.