

Alaska Capital Engineers

A branch of the American Society of Civil Engineers

October Newsletter



October Presentation:

Geophysical Applications to Engineering Problems

Presented By: Dr. Esther Babcock

Date: October 13th

Time: 12:00 PM

Location: Webex
(See email for meeting link)

Speaker Bio:

Dr. Esther Babcock received her M.Sc. in Environmental Science from the University of Arizona and Ph.D. in geophysics from Boise State University. Her geophysical work focuses on near-surface investigations for geotechnical and engineering applications using electrical and seismic methods. Dr. Babcock's geophysical field experience spans the globe, from Benin, Africa, to the Canadian and Alaskan Arctic, to the McMurdo Dry Valleys in Antarctica. She has extensive expertise with advanced data processing, including proprietary waveform inversion algorithms and multi-offset radar data analysis and interpretation. This talk will focus on seismic and electrical methods for relevant applications, including bedrock mapping, permafrost delineation, and resource development. Specific case studies will demonstrate the applicability of these tools at different sites and conditions within Alaska.

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