

**Geophysical Applications in Near Surface (GAINS) Virtual Training Course
Presented by the Environmental and Engineering Geophysical Society (EEGS)**

All course modules are on Wednesdays from 3-5PM Mountain Time

Week No.	Date	Lecture Topic:	Subject Matter Expert:
4	Oct 30	Dam/levee integrity & seepage monitoring	Phil Sirles, Collier Geophysics LLC
5	Nov 6	Hydrogeology such as aquifer mapping, groundwater/surface water interaction	Scott Ikard, Ph.D., U.S. Geological Survey
6	Nov 13	Voids, karst, and sinkhole mapping/detection	Jacob Sheehan and Mia Painter, Schnabel Engineering
7	Nov 20	Pavement and concrete slab thickness, transportation and infrastructure health	Ryan North, Ph.D., ISC Geoscience, Inc.
<i>November 25, 2024 - January 18, 2025: Break for winter holidays</i>			
8	Jan 22	Structural/geologic mapping such as faults, fracture zones	J. Sage Wagner, Terracon
9	Jan 29	Shallow mineral deposits and hydrothermal resources	Karen Christopherson, Chinook Geoconsulting, Inc.
10	Feb 5	Hydrostratigraphic characterization, contaminant monitoring	Judy Robinson, Ph.D., and James St. Clair, Ph.D., Pacific Northwest National Laboratory
11	Feb 12	Seismic hazard (Vs30) mapping including low-velocity zones, liquefiable layers	Koya Suto, Terra Australis Geophysica Paul Somerville, Ph.D., AECOM
12	Feb 26	Freeze-thaw, permafrost, glacial terrain mapping	Esther Babcock, Ph.D., Logic Geophysics and Analytics LLC
13	Mar 5	Course Summary and Review	EEGS Education Committee
14	Apr 13	In-person field demonstration at SAGEEP 2025 in Denver, Colorado	SAGEEP vendors